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ABSTRACT

This report of the Coordinating Board's Nursing Project Council is the culmination of three years' intensive effort to provide the State of Texas with a plan on which those responsible for helping meet the health care needs can rely in determining where nurses are needed, what their educational preparation should be, ind how the nurses can be utilized for maximum efficiency. The study wade inquiries of registered nurses, vocational nurses, physicians, nursing students, and others who could be expected to provide information on the subject. Discussed in this report is: a profile of nursing in Texas, utilization of nurses, nursing education (needs and curriculum analysis), regional perspective, cooperative approach to meeting nursing needs, difinition of terms, and a selected bibliography. The appendixes include statistical data on the status of nursing by region and selected copies of survey instruments used for the many surveys incorporated in this study. The intent of this report has been to provide reliable direction for agencies, institutions, and professional organizations interested in improving nursing education and delivery of health care. (Author/PG)

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யுi TOWARD QUALITY HEALTH CARE

The Improvement of Nursing and Nursing Education in Texas

CB Study Paper 24

Final Report of the Nursing Project Council

US DEPARTMENT OF HEALTH,

EDUCATION & WELFARE

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Presented to Coordinating Board, Texas College and University System January 17, 1975

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This study was supported by NIH Training Grant Number 06-D-000032-03 as a Special Project Grant from the Division of Nursing Public Health Service

G.

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^{*} Gov. Dolph Briscoe on January 17 appointed Mr. Albritton to fill the unexpired term of Mr. Meaders, who resigned on January 3.

FOREWORD

This final report of the Coordinating Board's Nursing Project Council is the culmination of three years' intensive effort to provide the State of Texas with a plan upon which those responsible for helping meet the health care needs could rely in determining where nurses were needed, what their educational preparation should be, and how the nurses can be utilized for maximum efficiency. The study made inquiries of registered nurses, vocational nurses, physicians, nursing students, and others who could be expected to provide information on the subjects in this study.

I wish to express the appreciation of the Coordinating Board to the members of the Nursing Project Council, under the able leadership of Mrs. John T. Jones, Jr., and the thousands of nurses, students, physicians, and lay individuals who assisted in this work. A special expression of thanks is owing to the Division of Nursing of the Public Health Service, which funded this study, and especially to Miss Lois Federico, Nurse Consultant, and Mrs. Ellen McDonald, Nurse Director, who provided outstanding guidance throughout this work.

From the beginning of this work, the Council members performed in a manner which made them a credit to their several professions and to this study. This Project and the citizens of our State are the beneficiaries of the dedicated participation of individuals from nursing, medicine, administration, and general education. This final report represents the best judgments and conclusions of those individuals.

The Coordinating Board and I are pleased to have been the host agency of this Project. While we realize no single study will solve all the problems in the delivery of health care, we believe this report provides the basis for change and improvement in nursing education and resources in our State.

rrom the beginning of this work, our intent has been to provide a report which would be reliable for its users and which would provide direction for agencies, institutions, and professional organizations interested in improving nursing education and delivery of health care. We therefore submit this report to those with whom the responsibility for implementation is shared.

Bevington Reed Commissioner



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Coordinating Board

TEXAS COLLEGE AND UNIVERSITY SYSTEM NURSING PROJECT

November 30, 1974

Mr. Harry Provence, Chairman, and Members of the Coordinating Board Box 12788, Capitol Station Austin, Texas 78711

Dear Mr. Provence:

Having been charged by the Coordinating Board in 1971 with conducting comprehensive study of nursing education needs and resources in our state, under a Special Project Grant from the Division of Nursing of the Department of Health, Education, and Welfare, the members of the Nursing Project Council have now completed their work and are pleased to submit this final report for your consideration.

On behalf of the Council, I want to express our sincere appreciation for the Board's decision to serve as the host agency for this study and for the support you and Commissioner Bevington Reed have given us throughout the three years of our work.

As the Chairman of the Council, I had the pleasant experience of working with a dedicated group of Texans who never faltered, throughout the long months of this study, in their determination to make the best decisions for the future. Our work was materially assisted by the excellent staff which was provided by the Board.

I am especially appreciative of the contributions to our work of the Review and Evaluation Committee who devoted so many hours of their time in the preparation of this report. It is indeed a rare experience to work with nurses, nurse educators, physicians, and hospital administrators who put the interests of the people of the state foremost in all their deliberations. We, the citizens of our state, are indebted to these fine people for their service.

Sincerely yours,

Winifred Jones

(Mrs. John T. Jones, Jr.)



PREFACE

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This study was initiated by the Coordinating Board in 1971, following a request by the Joint Executive Committee on Nursing Needs and Resources of the Board of Nurse Examiners, the Texas League for Nursing, and the Texas Nurses Association. The Coordinating Board was approved for a Special Project Grant by the Division of Nursing in 1971 and the Commissioner of Higher Education employed a staff to conduct the study and appointed the Nursing Project Council to provide professional guidance and assistance.

Mrs. John T. Jones, Jr., Chairman of the Nursing Project Council, appointed three task forces to examine selected problems in nursing and nursing education. At the beginning of the final year of the study, she appointed the Review and Evaluation Committee from Council members to work closely with the staff in preparation of preliminary recommendations for consideration by the Council.

During the three years of the study, there were six major surveys conducted by the staff as recommended by the task forces. Nearly 20,000 individuals participated in the surveys of this study, including practicing nurses, nursing students, physicians, nursing educators, and lay individual. We feel that the recommendations in this report reflect the predominance of attitudes of those who participated.

Because of the great volume of data collected, we found it necessary to condense the amount included in this final report. We have included critical data which will be useful for those who will examine nursing needs and associated problems at the local level. The Project collected and analyzed a considerable amount of data and information about the regions in the state but we point out that it was impossible to gather all the information about many variables which influence the demand for nurses, especially at the local level.

The 21 Planning Regions, as identified by the Governor's Office of Planning Coordination, formed the geographic unit for assembling data because of the wide variations of population, availability of nurses and health care facilities and other factors across the state. We have examined the resources in each region, identified the chief problems and made recommendations for solution. These recommendations cover a wide spectrum of subjects, from improvement of faculty to greater availability of off-campus courses to improved communication between educators and the employers of nurses. We believe this final report provides the first step in that effort. It is imperative that successful implementation of the recommendations related to joint activities between education and service involve the full cooperation of both to achieve the common goal of improved health care for the public.

We have limited ourselves to projections to 1980; our projections from 1980 to 1990 were less valid than those to 1980 and the staff therefore recommends that the formulas used here for determining need be applied in 1980 to project specific needs for the following decade.

Our work has also been limited to the basic preparation levels; a comprehensive study of graduate nursing education is needed but our time and resources, plus our priorities, did not allow us to parallel our baccalaureate and below study with one for graduate education.



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CHAPTER I

PROCEDURES AND METHODOLOGIES

Following the selection of staff and appointment of the members of the Nursing Project Council, it became necessary to synthesize the objectives of the Project for the purpose of working toward goals which would be achievable and which could be clearly understood by those who would be involved in the implementation of the findings and recommendations of the study.

The Council and staff believed that the final report of the Nursing Project, having been administered by the Coordinating Board, would have greater implications for implementation than previous statewide studies. This belief was based upon the possibility that, if the findings were acceptable, a substantial portion of the recommendations could be implemented through the Board.

The Coordinating Board, having coordination responsibility over all public senior institutions and over the academic programs in community colleges, is in a strategic position to not only implement parts of this final report but to work with the agencies and organizations concerned with nursing to secure implementation of those recommendations which are outside the Board's jurisdiction.

Successful implementation of the findings of this study will require a high level of selfless cooperation from nurses, nurse educators, and employers. Several of the recommendations will require changes which will be difficult for some institutions to make. In some cases, the surveys and other, data collected and analyzed by the staff and the Review and Evaluation Committee indicated that, with changes being made, the improvement needed in providing qualified nurses on a statewide basis could be achieved.

As in most studies of this magnitude there were differences of opinion among those responsible for making the fundamental decisions in this report. Not all members of the Council agree with all the recommendations but all that are included in this report have the support of a majority or more of the members.

After carefully examining the overall objectives of the Project, the Council agreed that those listed below were appropriate and upon implementation would provide invaluable guidance and direction for the nursing segment of the health care system for future years. We have annotated each objective for clarification.

A. To project, on the basis of currently discernible trends in health care delivery, the future roles of Eursing personnel.

While future roles of nursing personnel are almost entirely speculative, the Project throughout its work emphasized improved quality. This is achievable, in the opinion of the Council, by increasing the numbers of qualified RN's in work settings and the granting of greater responsibility to the RN in patient care. We have adopted the principles of the expanded role for baccalaureate nurses and believe an improvement in health care will result.



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B. To determine the most effective method of utilization of available nursing personnel.

The utilization survey of hospital nurses demonstrated discrepancies between educational preparation in this service sector for registered nurses. We have recommended changes for both education and employers.

C. To determine the probable qualitative and quantitative future nursing needs of the State of Texas.

Through our regional analysis of re-licensure and practitioner data, and through our mobility surveys, we projected the potential supply of registered nurses in all regions to 1980. In those regions where the need appeared to remain high with supply in decline, we have recommended new programs or increased enrollments in existing programs. We have also recommended that some courses, such as geriatrics, be more available. Upon adoption of the optimum ratios of registered nurses to hospital beds, nursing home beds, physicians, and other service settings, we have laid the foundation for increasing numbers of registered nurses to practice in all work areas and, in the judgment of the Council, this will cause a direct improvement in quality of nursing care.

- D. To appraise the current supply of nursing personnel and the existing nurse education programs.
 - Current enrollments in registered nurse programs are at an alltime high in this state and most of the programs are unable to accept all qualified applicants. The vagaries of career selection on the part of young people can cause this high level of interest in nursing to decline. Despite this risk, we have projected enrollments through 1980 as remaining stable.

Our research into the quality of RN programs centered on the difficulty many graduates experience in gaining licensure. This problem has several causes, including inadequate preparation of faculty, especially for ADN programs, and insufficient clinical experience for students.

Under the optimum ratios, the supply of registered nurses will need to increase in most of the regions of the state. The procedures leading to the increases are couched in the recommendations.

To develop a plan for nursing education consistent with potential health needs and social developments in the state with maximum utilization of educational resources and technology to improve the effectiveness of the educational process.

This entire report addresses the potential health care needs of the citizens of this state and is flexible so that as new needs and social developments occur, they can be met through the interaction of the educational and service elements of the system. In



a time when more clinical experience is being recommended, for example, we believe new and effective methods must be developed for providing increased experience benefits for nursing students, even if it requires utilization of clinical resources during unpopular shifts, specifically at night.

F. To prepare a guide for general education at all levels emphasizing its role in the development of a nursing manpower pool.

We feel that this study report, in its final form, is an effective guide to general education for several reasons. First, it points out that our existing system does not in all cases produce the kinds of nurses required by employers, and that nurse educators, in many instances, feel that the talents and abilities of their graduates are not utilized and that inadequate recognition is given to the intensive educational preparation of nurses. We have recognized and acknowledged these attitudes in this study and some of our recommendations to "close the gap" between education and service are offensive to some. We have endeavored in this work to seek that which is needed, not that which is popular.

G. To develop a plan to progress from the current status to the goals to be established for appropriate intervals to 1990.

The statistical base of the Project was verified by the staff and we realize that projections must be as scientifically valid as possible. We have no control over unanticipated changes in health care outside the recommendations in this report. If there is acceptance at all levels and by all agencies of the fundamental premise that we must improve quality of health care, and if the state is willing to support the increased costs of providing it, then we believe that our projections will result in adequate numbers of qualified nurses in the state and that the goals will be met.

H. To develop a plan for continuing education to foster each individual's professional development.

Continuing education for nurses of all types is more vital today than ever before. It is second in importance only to the basic preparation leading to state board licensure. We believe continuing education should not be left solely to chance; we believe that it is of greatest urgency that the active nurse, regardless of age, educational preparation, or economic status, must continue her nursing education throughout her career.

We recognize that much good work has been done in continuing education for nurses by many institutions. Most of this effort has been funded through grant funds and when the funds are termi-

nated, so does the effort. This state is without an overall plan for continuing education for nurses, and we in the Nursing Project concluded that we must provide recommendations upon which a state-wide, coordinated system of continuing education could be based.

In any study of this nature, the limitations in terms of time and resources make it necessary to establish priorities which will influre the nature of the final product. The Coordinating Board's Nursing Project is no exception. There are many important issues related to both education and practice which the Project would have liked to consider in greater detail. Those familiar with the current problems and issues within the nursing profession will be aware of these gaps. However, two criteria which influenced the approach to the study were:

1) the need to place particular emphasis on areas of nursing in which the Coordinating Board is directly involved and 2) to place particular emphasis on problems which affected the largest proportion of practicing nurses.

As a result of these priorities, the main body of data deals with methods of determining needs for numbers of schools, their location and size, and areas of curriculum in which practitioners suggest greater emphasis. Since the majority of registered nurses work in hospitals, this area of practice was surveyed separately. However, in other surveys, nurses working in all other categories of practice had an opportunity to react to questions relating to responsibilities given them in their places of employment, to discuss their future educational plans, and a variety of other questions which are in the survey instrument in the appendix of this report.

As a result of the priorities of the Nursing Project, the majority of recommendations are necessarily directed toward nursing education. This is not to say that all of the problems of nursing are caused by or can be solved by nursing education. The Council feels strongly that there are equally serious needs in the practice area which need to be addressed to a greater degree than was possible in this Project and only when educators, practitioners and employers accept equal responsibility for cooperative problem solving will any real progress be made.

The decision to concentrate on areas in which the Coordinating Board would have the ability to implement recommendations required a re-evaluation of the original objectives and recognition that achievement in some areas, particularly the identification of effective utilization patterns, would not be accomplished.

The Council members were divided into four task forces with specific assignments to recommend kinds of information that were essential for long-range planning in nursing. Based on input for these task forces, the Project staff developed a series of studies designed to provide the data needed by the Council according to the identified priorities. These were for the purpose of providing specific information, not previously available, concarning nursing in Texas. A brief description of each of these is included and copies of the survey instruments are provided in the appendix Extensive use was made of existing resources of data, related literature and similar studies conducted in other states.

Regional Analysis of Data

So that statewide data collection and analysis could be kept within manageable proportions, the Project utilized the Governor's 21 Planning Regions as the critical unit of geography and population to be analyzed as an entity. These regions had been established by the Governor's Office, Division of Planning Coordination in 1971, and although the number was later increased to 24, we used the original 21 in order to keep our data consistent throughout the Project.

Statistical data and other information was collected and analyzed for each of the 21 regions. This data included population characteristics, aging indexes, availability of hospitals and nursing homes, locations of LVN and RN educational programs, numbers of nurses working in various settings in each county, and various nurse/population ratios. This information was recorded on a series of maps and charts. As additional information from other surveys was completed, it was incorporated into the regional profile if appropriate. This method was particularly helpful in comparing the regions and determining degree of need in specific job settings.

Nurse Licensure Data

The Nursing Project acquired re-licensure cards from the Board of Nurse Examiners and from these we computerized statistical data on the number of RN's in each county, their activity status, age, educational preparation, and area of employment.

The Board of Vocational Nurse Examiners also provided licensure cards to the Project for 1970-71, 1971-72, and 1972-73. Information, similar to that for RN's, was provided concerning the LVN's in Texas.

Student Geographic Mobility Survey

In order to plan for the number and locations of professional nursing programs needed in the future, information was needed about the students themselves. A survey was designed to answer questions concerning geographic mobility patterns exhibited by students in choosing a school and choosing a job location following graduation. Such information was necessary to determine the recruitment areas of various types of schools as well as the area in which the graduates of the school preferred to work. In May, 1972, a questionnaire was administered to over 6,300 students in 44 professional nursing programs in Texas. In April, 1973, a similar questionnaire was administered to 3,556 students who had entered professional programs since the first survey was administered.

Hospital Utilization Survey

The demands placed upon a nurse as a result of job requirements have vital implications for the educational preparation of all nurses. In conducting a survey of utilization practices, the Project was concerned with two aspects of the discrepancy between education and practice; 1) what are nurses expected to do that their education has not prepared them for? and 2) what skills and abilities does the educational process develop but which the graduate is seldom able to utilize?



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Because approximately 64 percent of active nurses are employed in the hospital setting, this area was chosen for survey purposes. A 10 percent sample of short-term, general hospitals in Texas was selected which was representative of all regions and various categories of numbers of beds per institution. Out of 56 hospitals contacted, 42 responded. The participants included RN's and LVN's who had been licensed five years or less. A total of 1,882 questionnaires were distributed and 956 responses were received.

RN and LVN Practitioner Surveys

In order to obtain mobility and utilization information from a cross-section of nurses, a survey was sent to a sample of 10 percent of registered nurses in active practice in the state. Analysis of the sample indicated that it was representative of the planning regions as well as the various areas of nursing practice (public health, nursing homes, hospitals, offices, other). A total of 2,591 questionnaires were mailed and 1,183 responses received. A similar survey was distributed to LVN practitioners using the same sampling technique. A total of 2,934 questionnaires were mailed and 923 responses were returned to the staff.

Physician Opinion Survey

A survey of physicians was conducted to determine utilization practices in the office setting as well as to obtain information concerning the attitudes of physicians toward current trends in nursing education. A sample of 10 percent of non-federal physicians was chosen. The total number of questionnaires mailed was 1,500 and the number returned was 430.

Continuing Education Offerings

A survey of professional nursing programs, public health agencies and private health agencies was conducted to determine the extent of continuing education for nurses available in the state. Out of 109 questionnaires mailed 80 responses were received.

Curriculum Objectives Study*

The need for a study of curriculum objectives resulted from several specific situations which are of concern to the nursing profession and the public. First, the existence of three types of educational programs, all culminating in the title "RN", has produced extensive controversy as to the differences in the abilities of the graduates and the ways in which they should be utilized. While these differences are usually described in broad terms, no one seems able to explain how much or what specific content is common to the various programs. This presents problems to the individual who wishes to seek a higher level of educational preparation. The end result is usually a loss of credits or a loss of time to the student. Secondly, because of the increasing mobility of our population, a high percentage of students attend more than one institution before obtaining a degree. If our educational system is going to meet the needs of the public it will be necessary to design nursing programs whose courses can transfer with minimum difficulty.



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^{*} Curriculum objectives are the elements of a course or curriculum which students are expected to learn and to apply in practice.

In order to identify the common elements of various programs, the Nursing Project designed a study of the behavioral objectives developed by each program. All participating programs coded their objectives, following a format prepared by the Project staff. A sample of this information was analyzed by computer and verified by the staff to determine how many and what type of objectives were common to the various types of programs.

Student Opinion of Curriculum

As a supplement to the Curriculum Objectives Study, 25 percent of the senior nursing students in all professional programs were surveyed to determine opinions on the effectiveness of the curriculum as a whole, teaching methods used, usefulness of objectives and suggestions for improvements. A total of 857 questionnaires was distributed and 580 received from those who participated.

Procedures for the Application of Survey Results

As data began to accumulate, a six-member Review and Evaluation Committee was appointed by the Chairman for purposes of working with the available information and preparing preliminary drafts of information to be considered by the Council. Over a period of nine months this committee held seven two-day meetings to review material compiled by the staff. Following presentation of their findings to the Council on June 29, 1974, necessary revisions were completed and the final recommendations were submitted for approval by the Council on August 9, 1974.

From the beginning of the Nursing Project in 1971, both the Council and the staff have been committed to planning for the future nursing needs of Texas, recognizing that consideration must be given to the effect of current trends on health care delivery. Although we cannot accurately predict all the changes that are going to affect the health industry, some trends are apparent and can be used to project needs in certain areas.

In evaluating the area of supply and demand for nursing services in Texas, the Nursing Project has looked at each region of the state in light of its particular characteristics and needs. In order to do this, information was collected on a county-by-county basis and covered many variables including current population, population projections, size of age groups, numbers and sizes of hospitals, number of RN's and LVN's working in specific areas, educational preparation of nursing personnel, and locations and types of nursing schools.

So that the educators and health care providers in the state could work toward ever-improving quality of nursing personnel, the Nursing Project developed a series of optimum ratios of registered nurses to various elements in the delivery of nursing services. The process followed in developing these ratios is described below.

Procedures and Rationale for the Optimum Ratios

The process for determining need for registered nurses was one to which members of the Review and Evaluation Committee devoted a considerable amount



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of thought and effort. Following extensive discussion of possible approaches to this problem the decision was made to use ratios of nurses to a series of variables as the basis for projecting future need for professional nurses. This decision was made with the knowledge that when planning on a statewide basis, it is impossible to collect the detailed data which would provide the most accurate estimate of need at the local level. For example, individual hospitals cannot rely solely on RN's to beds to determine their staffing needs. They must consider the types of health services offered, the conditions of their patients, and the financial factors affecting the number of people whom they can employ in various categories. In spite of the limitations of this approach, the ultimate inclusion of a large number of variables in the determination of need makes it far more reliable than a simple RN to population ratio.

The members of the Review and Evaluation Committee examined the current ratios of nurses to population, to hospital beds, to school children and to physicians. Then each drew up a suggested series of ratios which, he felt, would provide an improved level of health care and yet be realistic in terms of budgetary and staffing requirements. When these independent evaluations were compared, they revealed general agreement concerning ratios. From these a single set of preliminary ratios was adopted. Members of the committee then discussed the proposed ratios with providers of health care in their own communities to determine the overall level of agreement with the committee.

Following a discussion of the results of this action, revisions were made and a final set of ratios for projecting future nursing needs was adopted. While the adopted ratios reflect the number of nurses needed to provide a more acceptable quality of nursing care than now exists, they have been judged to be realistic in terms of budgetary limitations by a group of experienced health care providers, including physicians, directors of nursing service, hospital administrators and nursing educators. The ratios and rationale are given below.

RATIOS ADOPTED TO DETERMINE PROJECTED DEMAND FOR RN'S*

·	Unit of <u>Comparison</u>	1971-72 Ratios of RN's to Each Variable	R & E Committee's Optimum Ratios
Hospitals:	beds	· · ·	
6 - 24 beds		1:4.00	1:3
25 - 49 beds		1:5.30	1:3
50 - 99 beds		1:5.30	1:3
100 - 299 beds		1:3.30	1:2
300 - 499 beds		1:2.77	1:2
500 + beds		1:2.77	1:2
Nursing Homes	beds	1:47.3	1:15
School Nurses	students	1-1 815	1:1,200
Office Nurses	physicians	1:6.00	1:5
Public Health	population	1:11,531	1:5,000
Other	population	1:6,250	1:6250

^{*}Sources for these data are in the Selected Bibliography at numbers 9, 18, 44, 52, 54, 55 and 56.



In determining staffing for hospitals and nursing homes, the stated ratios reflect the numbers of nurses needed for 24 hours or three shifts. For example, in a 30-bed hospital, at a ratio of 1:3, 10 RN's would be needed to staff the hospital at an optimum rate for a 24-hour period. This figure includes personnel to provide for adequate relief coverage. The underlying assumption in the ratio for larger hospitals is that as the size of the hospital increases, the complexity of care and supporting services increases, requiring more nurses for the same number of patients. An example of this would be a hospital with RN's employed in areas other than patient divisions such as rehabilitation facilities, irradiation therapy departments, nurse epidemiologists, inservice education or renal dialysis services.

A second assumption of the committee was that by increasing the number of registered nurses per bed it would be possible to reduce the number of non-professional nursing employees per bed. This ratio is intended to reflect a change in the quality of personnel providing patient care and not simply to increase the total quantity of persons engaged in this activity. Therefore, the adoption of this particular series of ratios has implications for all types of nursing educational programs as well as patient care institutions.

The most drastic recommendation in the series of ratios came in the area of nursing home staffing. It was the opinion of the committee that geriatric patients, by virtue of their frequently complex health care problems, require the care of registered nurses. Although the field of geriatrics is not presently a popular one among the majority of registered nurses, it is an area which must be improved if adequate care is going to be made available to the elderly segment of the population in Texas.

Ratios were adjusted for school nurses, public health nurses, and office nurses to provide for an improved level of care. Office nurses will be discussed in greater detail in connection with the survey of physician's opinions on nursing functions in the office and educational preparation of nurses.

The "Other" category in the series of ratios was included as a means of allowing for new and expanding roles for nursing which are becoming more frequent. This category also includes those who are practicing primate duty nursing. At the present time there is one private duty RN for every 6,250 population. However, over the past few years the number of nurses doing private duty has steadily decreased. With the current trend toward intensive care units for persons in need of specialized care, it appears that the number of private duty practitioners will continue to decrease. The number of nurses with specialized preparation as nurse practitioners in various clinical specializes is increasing.

Several nurses have established independent practices and the role of the nurse in such health care delivery systems as Health Maintenance Organizations has the potential for development into an area of expanded practice. The Committee believed that these trends have an offsetting effect and that by providing one professional nurse in the expanded role for each 6,250 persons as the ratio, the needs in these special settings could be met.



In order to determine the needs for registered nurses in each region, the ratios were applied to each category of nursing employment and the total number of nurses needed was computed. This figure was then converted to an RN/population ratio and applied to the projected population for that region for 1980 and 1990. Although there is no totally accurate way to predict need, this method is designed to reflect the level of health care which the particular region is able or willing to support. Since the application of ratios is applied to projected populations there is a built-in adjustment for increasing numbers of hospital beds and nursing positions in other settings.

The following example shows how the application of the ratio can result in different nursing requirements for two regions which have similar numbers of hospital beds but different sizes of health care facilities.

AN EXAMPLE OF OPTIMUM STAFFING REQUIREMENTS FOR A REGION AS INFLUENCED BY THE HOSPITAL BED-SIZE DISTRIBUTION

Number	of	∺eds	by	Bed-Size	Category

d-Size Classification	REGION A	REGION B
6 - 24 beds	744	0
25 - 49 beds	. 760	54
50 - 99 beds	172	104
100 - 299 beds	324	206
300 - 499 beds	0	620
500 + beds	0	1,016
	2 000	
	2,000	2,000
	Number of RN's Re	*
6 - 24 beds	Number of RN's Re	quired to Staff
6 - 24 beds 25 - 49 beds	Number of RN's Re	equired to Staff
25 - 49 beds	Number of RN's Re	quired to Staff
	Number of RN's Re 248 253	equired to Staff 0 18
25 - 49 beds 50 - 99 beds 100 - 299 beds	Number of RN's Re 248 253 57	equired to Staff 0 18 35
25 - 49 beds 50 - 99 beds 100 - 299 beds	Number of RN's Re 248 253 57 162	equired to Staff 0 18 35 103

In any study of statewide resources and projected goals there must be a clear distinction between "need" and "demand". In this Project "need" is defined as the number of nurses required to provide a desired level of health care which is considered economically feasible. "Demand" is the number of nurses which providers of health care are willing or able to employ to provide a certain level of care. Ideally the two terms should be interchangeable but this is seldom the case.

In this study, the accuracy of the projections of need for nurses is dependent upon the willingness of health care providers to work toward an improved level of nursing care by seeking to have a greater proportion of direct patient care provided by registered nurses.

If such a goal is not adopted by providers of health care, the projected needs can be reduced considerably. For example, the 1971-72 ratio of RN's to nursing home beds was 1:47 and the desired level adopted by the Council is 1:15. If such a goal is adopted by nursing homes the state will need three times the present number of RN's working in that setting. If nursing homes are unable or unwilling to employ registered nurses to reach such a goal there would be no reason for the state to prepare three times the present number of nurses in the field of geriatrics.

Projection of Supply

Based on the Student Mobility Survey and the RN Practitioner Survey, the Project was able to estimate the number of new graduates who would remain in each region, the number who would move to other regions, and the approximate number who would remain in active practice depending on the type of educational program from which they graduated. By multiplying the size of the graduating class of each type of program in the region by the number of years until 1980 and applying the formula as illustrated in the chart below, it was possible to determine the probable number of new nurses which would be available in the region. This number, added to the number of nurses already active, minus a per-

REGION A PROJECTED RN SUPPLY PATTERN, 1980

	Diploma	Associate Degree	Baccalaureate .
Local Graduates*	464	804	1,782
Regional Retention Rate**	. 875	. 869	(.509) (.560)
Local Graduates Retained	406	699_	935
Inflow	32	63	166
Total New Graduates	438	762	1,101
Activity Rate	. 97	.97	.94
Total Projected Additional Active RN's by 1980	425	+ 739	+ 1,035 = 2,199

^{*}The projected number of local graduates is based on a nine-year period, from 1972-1980, inclusive.

^{**}Retention rates are for each individual nursing program within the region.

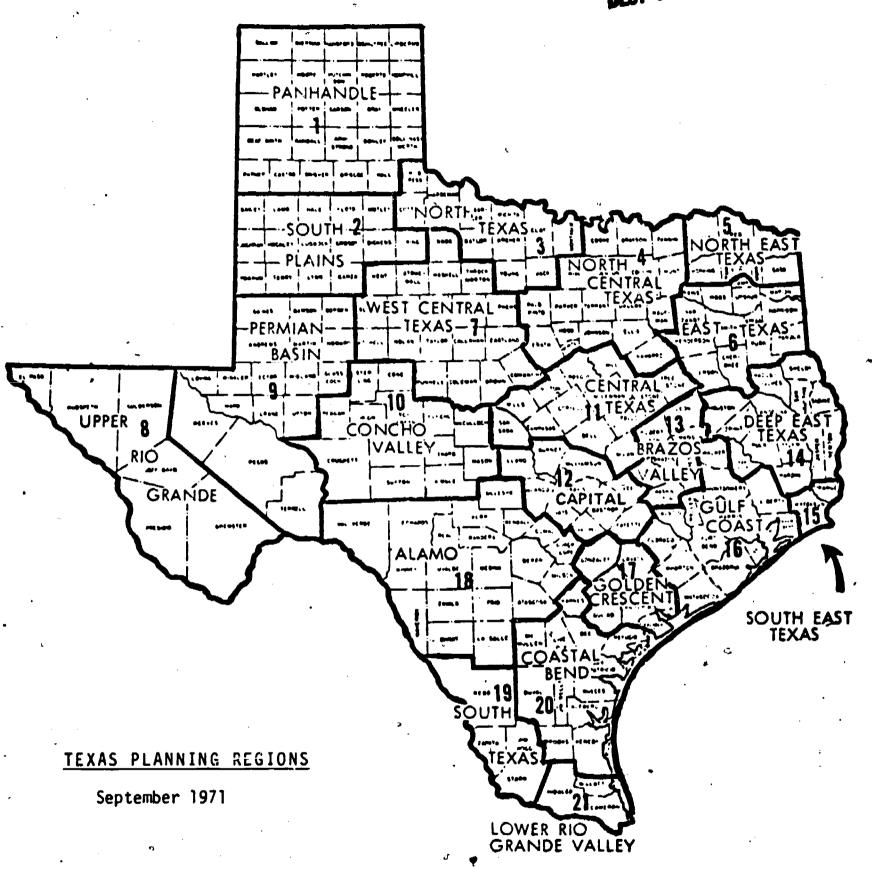
centage who could be expected to become inactive due to retirement produced the projected supply by 1980. This figure was then compared to the predicted number needed to determine how well the region could be expected to meet its needs. This process is demonstrated in the chart presented below:

REGION A
PROJECTED DEMAND VS. PROJECTED SUPPLY BY DIFFERENT DEMAND CRITERIA LEVELS
(FTE)

	RN's/ 100,000 Pop. Conver- sion	Number of RN's Required by 1980	Present Number of Active - RN's =	Addi- tional RN's Re- quired -	Age Attri- tion=	Total Addi- tional RN's Re- quired by 1980	Projec- ted RN Supply By 1980	Surplus <u>(Deficit)</u>
Status Quo	208	2,554	2,402	152	549	701	2,199	1,498
Optimum Level	348	4,273	2,402	1,871	549	2,420	2,199	(221)
•	1980 Population 1990 Population		1,228,00 1,316,40					

With the current rapid rate of change in society, even a relatively short six-year projection may need to be re-evaluated at intervals in light of emerging trends. The projections of supply and demand presented in the regional data section of the report should be considered as the basic framework for planning to meet local or regional needs. Local health care providers have access to information about health needs in the area that was not available to the Project. Such information may indicate a somewhat greater or lesser need than that identified in this study. However, for statewide planning purposes, the approach described here appears to be a reliable way of determining the needs of Texas to improve its current level of nursing care.

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- CHAPTER II

A PROFILE OF NURSING IN TEXAS

Describing the current status of nursing in Texas by use of statewide statistics can be deceptive because of the inability of the statewide approach to account for the wide variations in several characteristics from one region to another. Although the staff and the Council of the Nursing Project agreed that the primary unit of analysis throughout the study should be the region, statewide statistics are useful as a basis of general comparison with other states.

The purpose of this chapter is to present an overview of Texas nursing statistics along with some additional information about the state itself which affects the preparation of nurses and the practice of nursing within its boundaries.

Texas is a large state, having a maximum length of 801 miles and maximum width of 773 miles. The state has a great range of geographic and climate conditions, varying from the hilly piney woods eastern portion to flat coastal plains on the south to the arid great plains area of West Texas. The population of the state is 80 percent urban and 20 percent rural and most of the urban population is east of the 100th meridian, a north-south line forming the eastern boundary of the Texas Panhandle.

The three principal ethnic groups in the Texas population are Anglo-American, Blacks, and Mexican-Americans. The Anglos are throughout the state and are in the majority in most regions. The Mexican-Americans comprise 40 percent or more of the population in all the counties bordering on Mexico, and in all the planning regions adjacent to the Mexican border. The Blacks comprise 25 percent or more of the population in at least 25 counties in East Texas. Most all of these counties have low income levels and health care facilities are inadequate.

East Texas (Regions 5, 6, 14) is hilly, heavily wooded, has numerous lakes and recreational areas and has few large towns but many small farming communities.

The upper Gulf Coast area (Regions 15, 16, 17) includes two large industrial areas, Houston and the Beaumont-Orange-Port Arthur complex. Much of the surrounding area is farmland and flat coastal plains.

The southern portion of the state (Regions 19, 20, 21) has the metropolitan area of Corpus Christi, large expanses of sparsely populated ranchland and the semi-tropical "Valley". In the southernmost tip a large proportion of the population is Mexican-American and many migrant workers come from Mexico during crop harvests.

The central strip of the state (Regions 4, 11, 12) is one of the most densely populated segments of Texas and is projected to have a considerable population increase over the next two decades. Region 18 is heavily populated in the eastern portion which contains the metropolitan area of San Antonio. However, the western and southern areas are sparsely populated. A large proportion of the population is Mexican-American. The climate is often hot and dry.



The western part of the state (Regions 1, 2, 3, 7, 8, 9, 10) also has large expanses of sparsely populated territory. The climate is relatively dry. Much of the rural area is devoted to ranchland and towns are often small and far apart. This is particularly true in Region 8 which is primarily mountainous. The major West Texas cities of Amarillo, Lubbock, Abilene, El Paso, San Angelo, Midland, and Odessa are widely scattered and range in population from 59,000 in Midland to 322,000 in El Paso.

RN and LVN Supply

For the 1971-72 licensure year, the total number of professional nurses registered in Texas was 49,213. This total included nurses living and working in other states who maintain a Texas license, and nurses who are temporarily inactive or permanently retired. Of the total number registered in the state, only 25,868 indicated they were active in nursing in Texas.

In addition to the licensed professional nurses practicing in the state, there is an increasing number of foreign educated nurses who have migrated to . Texas but have not been successful in meeting licensure requirements. There are no accurate data on the number of these nurses working in this state but the number applying for the licensing examination increased from 61 in July of 1970 to 568 in October of 1972. The issue of unlicensed foreign nurses and the quality of health care will be discussed in Chapter III.

National data indicate that for the entire United States in 1972, there were 380 active RN's per 100,000 population and 390 in 1973. By comparison, Texas was shown to have 240 (4:12). However, according to the Nursing Project's data, the 1971-72 ratio was only 214. Among the states the ratio ranges from a low of 190 in Arkansas to highs of 572 in New Hampshire, 579 in Connecticut, 612 in Vermont, and 673 in the District of Columbia. Although figures such as these make it appear that Texas has a critical shortage, it is premature to draw such conclusions without first looking at the circumstances contributing to these ratios and the factors that make the situation in Texas somewhat different. The population density along the east coast makes the existence of large medical centers and specialty health services much more feasible than would be the case in sparsely populated areas. In the District of Columbia and the surrounding areas, military hospitals and federal health agencies employ unusually large numbers of nurses which partially accounts for the high ratio in this area.

Among the various regions in Texas the ratio of full-time equivalent RN's to population varies considerably from a high of 255 in Region 16 to a low of 101 in Region 19. However, evaluation of the need for professional nurses in a particular region must take into consideration other types of health care personnel available. Texas has 629 general hospitals of which approximately 50 percent are less than 50 beds (35:29). Many of these smaller hospitals are in small communities where recruitment of RN's is difficult and a large proportion of nursing care in the smaller hospitals is provided by licensed vocational nurses. In regions where the RN/population ratio is highest, the LVN/popu-

This citation form will be followed throughout this report. The first digit(s) refers to the bibliographic listing and the second to page number.



¹Professional nurse, as used in this report, refers to a graduate of a diploma, associate degree, or baccalaureate program in nursing.

lation ratio is usually lower. In regions where the RN/population ratio is low, the ratio of L/N's is higher. On a statewide basis, however, the RN/LVN ratio is approximately 1:1. This ratio is similar to other southern states but for the nation as a whole there are usually considerably more RN's than LVN's in active practice.

In 1970, the number of nursing personnel per 100 hospital patients for all the states ranged from 88 in New Jersey to 127 in Alaska. However, the majority ranged from 92 to 102 with Texas having 95.3 (4:27). States with high RN/population ratios appear to have relatively low numbers of personnel per 100 hospital patients. For example, Massachusetts, with an RN/population ratio of 649 has only 97.9 nursing personnel per 100 patients. However, of those 97.9, 45.9 are RN's. In Texas only 16.4 out of every 95.3 nursing personnel are RN's. Since the 1963 Surgeon General's Consultant Group on Nursing recommended that at least 50 percent of direct patient care in hospitals be provided by RN's, these facts point up a critical issue where Texas is concerned (44:23).

If one of the objectives of the state is to increase the proportion of care being given by registered nurses, some changes must occur. Since the state appears to be producing similar numbers of total nursing personnel as other states, the problem is not to produce more of all kinds but more professional and fewer vocational nurses.

With the recent expansion of professional nursing programs in the community colleges across the state, the problems of access and cost have decreased considerably for many individuals who would have previously entered vocational nursing programs.

Since much of the nursing care in Texas is given in small hospitals in somewhat rural areas where registered nurses seldom choose to practice, the LVN remains an essential member of the nursing team. However, with the increase in numbers of professional programs and the large numbers of applicants to those programs, Texas should no longer find it necessary to rely to such a great extent on vocational nurses to provide the majority of direct patient care.

Nursing Education

The configuration of education programs for RN's in the state has changed considerably over the past seven years. The total number of programs has increased from 35 in 1966 to 43 in the fall of 1973. Because of the extended campuses operated by some of the state universities, the total number of campuses offering professional nursing programs is actually closer to 50. The most obvious change has come in the numbers of diploma and associate degree programs.

Two state universities, Texas Woman's University and The University of Texas, offer master's and doctoral degrees in nursing. The University of Texas is offering nursing courses at the graduate level on the Galveston, Austin and San Antonio campuses, and Texas Woman's University offers graduate courses on its campuses in Denton, Dallas, and Houston.

The changes in numbers of nursing education programs in the state, by type of program, are shown here for the period 1966 through 1973:

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NUMBER OF PROFFSSIONAL NURSING PROGRAMS IN TEXAS, 1966-73

	<u>1966</u>	1968	1969	<u>1970</u>	<u> 1971</u>	1972	<u>1973</u>
Baccalaureate Associate Degree Diploma	7 5 23	9 18 19	10 20 14	10 20 14	11 20 10	12 23 10	12 24 7
TOTAL	35	46	48	44	41	45	43

For the two-year period 1970-71 and 1971-72 there were 167 master's degrees in nursing conferred by the two programs. This number should increase with recent expansion of graduate_campuses.

Total enrollment in professional nursing programs preparing beginning practitioners in Texas was 11,579 in the fall of 1973. Enrollments increased at a rapid rate during the period from 1966 to 1972 and appear to be maintaining the trend. Historical enrollments since 1966 are shown here:

ENROLLMENTS IN PROFESSIONAL NURSING PROGRAMS, 1966-1973

	<u>1966</u>	<u>1968</u>	<u> 1969</u>	<u>1970</u>	1971	1972	<u>1973</u>
Baccalaureate Associate Degree Diploma	1,472 306 1,413	2,878 1,313 1,845	3,097 1,665 1,509	3,408 2,126 1,309	4,098 2,668 994	5,674 3,275 1,124	6,947 3,645 987
TOTAL	3,191	6,036	6,271	6,843	7,76°0	10,073	11,579

The total number of graduates of professional nursing programs more than doubled over the past six years. A continuation of this rate should result in a rapid increase in the RN/population ratio over the next few years since the rate of population growth is much less. Graduations since 1966 were:

GRADUATIONS FROM PROFESSIONAL NURSING PROGRAMS, 1966-1973

	1966	1968	<u>1969</u>	<u>1970</u>	<u>1971</u>	1972	<u>1973</u>
Baccalaureate Associate Degree Diploma	240 40 434	324 86 513	390 307 500	453 511 425	471 608 365	597 859 348	738 1,006 412
TOTAL	· 714	923	1,197	1,389	1,444	1,804	2,156

The impact of the sudden increase in enrollment over the past three years should soon be apparent in the employment sector, particularly in the metropolitan areas. Although employers can identify problems of shortage of professional nurses in these areas now, it is expected that over the next five years the problem will decrease. If the schools are going to be producing adequate numbers of nurses within the next few years, there is a potential danger of creating an oversupply if additional programs are started to meet the shortages of today.

In 1972-73, 132 vocational nursing programs were in operation in the state with a total enrollment of 4,906. Of these, 71 were hospital operated, 28 were located in community colleges, 27 in public schools, and six in other job settings. There were 2,672 new vocational nurses licensed in the year 1972-73.

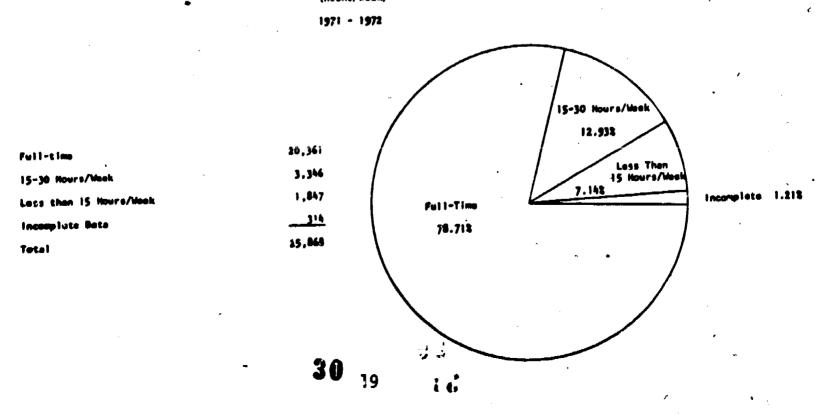
Characteristics of Practicing Nurses

The following series of graphs gives the most recent information available on professional and vocational nurses in active practice in Texas. In cooperation with the Board of Nurse Examiners and the Board of Vocational Nurse Examiners, the statistical information was obtained from license renewal cards.

Employment Status

Out of the total number of RN's registered in Texas in 1971-72, only 52.57 percent (25,868) were active in the profession in the state of Texas. Of the total number of active nurses, 78.7 percent (20,361) were employed full time in Texas. Of the total number of LVN's living in Texas, 63.13 percent were active. Of the total number of active LVN's, 85.56 percent are employed full time. This condition of a high rate of inactivity is characteristic of the profession primarily due to the fact that the majority of inactive nurses are women who find it necessary to temporarily discontinue full-time employment while they raise their families. Efforts to reduce the size of the inactive pool of nurses have met with little success, and at the present time, although there seems to be a slight trend toward remaining active for longer periods, there is no indication that the situation is likely to change to any significant degree. The data given in the figure shown below reflect the various activity levels of active RN's:

EMPLOYMENT STATUS OF ACTIVE R.H. 'S LICENSED IN TEXAS BEST COPY AVAILABLE



Shown below are the activity levels for LVN's in the state:

SPECIFIC EMPLOYMENT STATUS OF ACTIVE LVN'S LIVING IN TEXAS, 1972-1973

Full Time		•
Less than 8 Hrs./Wk		
8 - 16 Hrs./Mt		,
16 - 30 Hrs./Mk		
No Response		:
•	85.562	
TOTAL	Full Time	
•		
	•	1.948
4.442 8 - 16 Hrs./Wk. ———		Less then 8 Hrs.//k.
• 10 Hrs./Wk		
•		8.063
•		15 - 30 Hrs./M.

Basic Educational Preparation

One of the features of active RN's in Texas is the exceedingly large number of diploma program graduates. In 1972, almost 73 percent of active RN's had received their basic preparation in a diploma program. Baccalaureate graduates accounted for slightly over 15 percent of all active RN's and associate degree graduates comprised just over seven percent of all active RN's. These percentages can be expected to change as the enrollments and graduations of the three types of programs change. This change is forecast in the number of graduates in 1972, as shown here:

BSN	597
ADN	859
Dipl.	348

As shown in the numbers of graduates of each type program in 1972, the number of diploma graduates is declining as the programs continue to be phased out while the baccalaureate and associate degree programs are increasing in number. The obvious conclusion is that the number of active diploma nurses will slowly give way to the increasingly large numbers of graduates from the other types of programs.

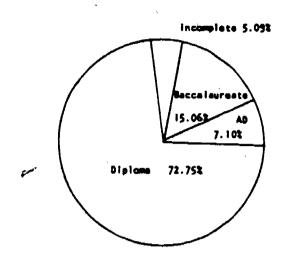
The basic educational preparation of registered nurses in practice during 1972 is graphically displayed in the figure shown below:

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BASIC EDUCATIONAL PREPARATION OF ACTIVE RN'S LICENSED IN TEXAS, 1971 - 1972

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Diplome	18,820				
Associate Degree	1,836				
Beccaleureste	3,896				
lecomiete	1.316				

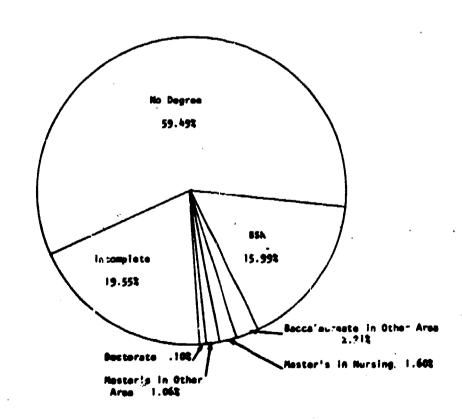


<u>Highest Educational Preparation</u>

Because of the format of the licensure card, the category "No Degree" was confusing. The intent was that "No Degree" meant any educational level less than a bachelor's degree. However, there is some question as to the way in which associate degree holders classified themselves. It is probable that this problem accounts for the large number of incomplete responses in this category as indicated in the chart below:

HIGHEST EDUCATIONAL PREPARATION OF ACTIVE RN'S LICENSED IN TEXAS, 1971 - 1972

No Depres	15,309
Secceloureste in Mursing	4,136
Bocceleureste in Other Area	572
Moster's in Mursing	414
Mester's in Other Area	274
Poctorata	25
Incomplete Data	5.058
Total	25,868





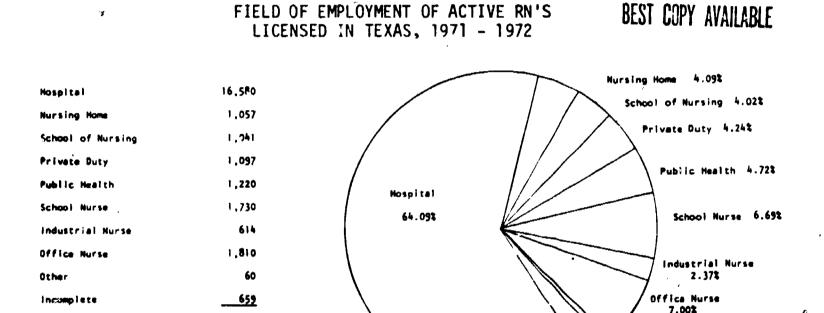
With the increasing availability of graduate courses in nursing in various locations in the state there should be a significant increase in the number of master's degrees in nursing over the next few years.

Field of Employment

Hospitals continue to employ the largest number of active professional nurses, accounting for 64.09 percent, while office nurses and school nurses make up the next two largest groups. The number of professional nurses working in nursing homes is 1,057 or 4.09 percent of active nurses. This figure is particularly significant since there are 917 licensed nursing and custodial care homes in the state. The problem will be discussed in greater detail later in this report but it is readily apparent that in this field there is a great need for more professional nurses.

The distribution of RN's among the various employment settings in 1971-72 is shown here:

FIELD OF EMPLOYMENT OF ACTIVE RN'S



Other .23% Incomplete 2.55%

25,868

Hospitals also employ the largest segment of active LVN's in Texas, accounting for 63.72 percent. However, 17.12 percent of LVN's are employed in nursing homes. With the exception of the hospitals, in most employment settings nurses are predominantly RN's or predominantly LVN's. The ideal health delivery system is one in which there is a proportionate distribution of both types in all job settings. One positive approach to reaching this goal has been the recent increase in the the utilization of LVN's to provide public health services under the direction of registered nurses.

The distribution of the active LVN's in Texas during 1972-1973 according to places of employment, both in numbers and percent of the total, is shown here:

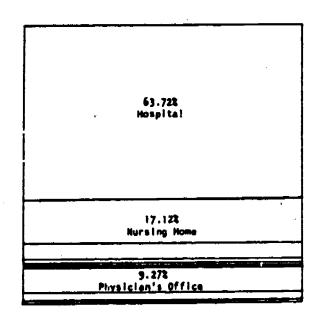


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FIELD OF EMPLOYMENT OF ACTIVE L.V.H.'S IN TEXAS!

1972 - 1973

Hospital	•			•		•	•		•	•	•	•		•	•		•		•	•	•	•	17,774
Hursing Home			•				•		•		•				•		•	•	•		•		4,776
Private Duty	•	•	•	•	•		•				•	•							•		•		1,544
Public Health			•			•	•		•			•	•		•	•					•		291
School Nurse		•	•									•			•				•				143
industry																•							- 87
Office Nurse																	•		•				2,586
Other			•	•			•		•		•									•	•		507
No Response .	•		•			•	•	•	•		•		•						•			•	185
TOTAL			•																				27,893

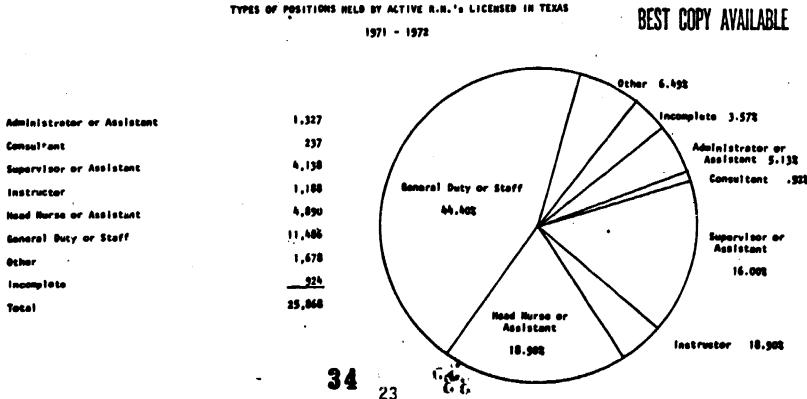


Living in Tenes

These data clearly show that LVN's are employed in those areas of greatest need, hospitals and nursing homes. Almost 81 percent (22,500) are working in these institutions.

Employment Positions Held by Registered Nurses

Of the active professional nurses in the state, over 44 percent classified themselves as general duty or staff nurses. When one combines the levels of "head nurse or assistant", "supervisor or assistant", and "administrator or assistant", the total is 40 percent. This appears to show that there is about one supervisory nurse for every staff nurse and we believe that this condition is not the case in practice and that there are several possible explanations for the distortion. Such staff alignment would be uneconomical and wasteful and the data collected from the hospital survey indicates it is not the true condition. One example of the distortion would be where only one nurse was employed, such as in a physician's office, where she functioned in a variety of responsibilities. The figure shown below indicates the types of positions held by active RN's in Texas during the year 1971-72:



FINDINGS RELATED TO SUPPLY AND DEMAND

Although Texas has a relatively low nurse/population ratio in comparison with other states, there has been gradual improvement over the past few years from 188 per 100,000 in 1966 to 214 per 100,000 in 1972. With the current increase in the number of professional nursing programs along with expanding enrollments in many older programs, the predicted ratio will increase to 301 by 1980 and 362 by 1990. Based on the application of optimum ratios, Texas should require 350 RN's per 100,000 population by 1980 in order to provide an improved level of nursing care. According to national predictions, by 1980 between 379 and 406 RN's will be available for every 100,000 population (1:5). When the 1972 average ratio was 380 for the nation as a whole, a 1980 ratio of 350 for Texas might seem to be an under-estimation of need. However, given the unusually high ratios in a few states that tend to elevate the national average, and because of the uneven population distribution in Texas, a somewhat lower ratio would meet the needs of this state.

Whether or not Texas reaches the predicted ratios of RN's to population is dependent on the maintenance of current levels of enrollment. There are several factors which could have an effect on the present projections and should be kept in mind. If current rates of production lead to an over-supply of nurses in the most popular job settings it could easily cause a decrease in enrollments. Secondly, the recent cutback and other changes in federal funding to nursing programs and nursing students could also serve to decrease enrollments or make the establishment of new programs less feasible for colleges and universities.

Student Geographic Mobility

During the spring semester of 1972, the staff conducted a survey of students in nursing programs in the state to determine geographic mobility patterns. The students in 44 nursing programs participated and of the 5,305 students enrolled, 4,504 returned the survey instruments to the staff for analysis. The survey therefore included 71.4 percent of nursing students enrolled that semester.

Of the 4.504 students who responded, 88 percent were Texas residents at the time they applied for admission to their nursing programs and 12 percent (456) were from out-of-state. Of the 456 out-of-state students, 57 percent (262) were enrolled in baccalaureate programs, 26 percent were enrolled in ADN programs, and 17 percent in diploma programs. Of the out-of-state students enrolled in BSN programs (262), some 44 percent were enrolled in three programs, one publicly supported and two privately supported (TWU and Baylor and TCU). The figure below shows the residence status of the 4,504 students by type of program:

	<u>Texas</u>	Out-of-State
Diploma	89.3	10.7
ADN	93.6	6.7
BSN	86.0	14.0

These data show that Texas residents dominate nursing program enrollment in programs at the baccalaureate level and below.



The county of residence of Texas students was tabulated and enrollments included students from 214 of the 254 counties in the state. Of greater importance was the finding that 40 percent of the total Texas resident enrollment was from only four counties and 51 percent from eight counties. The ten leading counties with greatest enrollment of Texas resident students are shown here:

		Number of		Cumulative
_	•	Students	Percent	Percent
1.	Harris	615	15.46	15.46
2.	Dallas	442	11.13	26.59
3.	Bexar	281	7.07	33.66
4.	Tarrant	280	7.05	40.71
5.	Gal ves ton	121	3.05	43.76
6.	McLennan	111	2.79	46.55
7.	Travis	96	2.42	48,97
8.	Nueces	91	2.29	51.26
9.	Potter	83	2.09	53.35
10.	Jefferson	81	2.04	55.39

Distribution of Graduates by Type of Nursing Program

The Student Geographic Mobility Survey indicated that there are distinct differences in the mobility patterns of graduates of the various types of professional nursing programs. These differences have implications for planning which are related to locations of schools and functions expected of graduates.

The recruitment area and the service area for each of the three types of programs were identified and the resulting analysis indicated that there is a greater difference among the recruitment areas of the three types than among the service areas. Although the ADN programs indicated a much smaller recruitment area, it was the only type which had a service area larger than its recruitment area. A schematic representation of comparative size of the two areas for each type program is shown here:

TYPE OF PROGRAM	PRIMARY RECRUITMENT AREA (MEAN DISTANCE IN MILES)	PRIMARY SERVICE AREA (MEAN DISTANCE IN MILES)
Diploma	57.5	35.9
Associate Degree	29.9	34.8
Baccalaureate	101.6	46.7
	- 36 25	

The characteristics of recruitment of students and distribution of graduates, as shown in these diagrams are important factors in projecting the supply of nurses throughout the state to 1980. Other characteristics of each type program have a significant effect which require further description.

Most of the BSN programs in Texas are located in metropolitan areas and use some of the best clinical facilities in the state. The students are usually single and recruited from throughout the state and earn the baccalaureate degree which has potential earning power above that of the shorter programs. The graduates have shown a preference for employment in the larger cities where professional opportunities are more attractive.

Most of the ADN programs are located in community colleges and small universities where clinical resources are more limited than those in urban medical centers and hospitals. Enrollment in these programs tends to include large numbers of married students who live in the surrounding community. The average ADN student is older than the average BSN student and usually does not have the time nor resources to move to another location to attend school.

The diploma program student, as shown on the diagram on page 24, tends to come not only from the community where the program is located but also from outlying communities. The six diploma programs still in operation are in Abilene, Amarillo, Austin, Lubbock, San Antonio, and Tyler. The small service (employment) area is attributable, in part at least, to the long-standing popularity diploma graduates have with employers. Students who enter diploma programs are usually in pursuit of a career, not a college education.

These totals represent enrollments in all three types of registered nurse programs. When the data were displayed by type of program, the following results were observed:

TEN MAJOR COUNTIES OF RESIDENCE BY TYPE OF PROGRAM

Diploma		Associate Degree	Baccalaureate
Lubbock El Paso Tarrant Harris Jefferson Bexar Potter Smith Travis Randall	3 378	Harris Dallas Bexar Galveston 1/3 Nueces Tarrant McLennan 1/2 Grayson Hidalgo Wichita	Harris Dallas 1/3 \ 627 Pallas 1/3 \ 627 Pallas 1/2 Tarrant Bexar 1/2 Travis Denton McLennan Bell 2/3 Jefferson Lubbock

The source of Texas resident nursing students shown above demonstrates the differences of the recruitment patterns. When the survey was conducted in 1972, diploma programs were in operation in seven of the counties providing 50 percent of diploma program enrollments; ADN programs were in operation in each of the counties providing 50 percent of enrollment in that type of program, and BSN programs were in operation in the counties providing 50 percent of enroll-



ment in BSN programs. These enrollment sources indicate the impact that the existence of a program has on enrollment.

Enrollment status in the three types of programs, as measured by the number of full-time and part-time students, varied significantly. The diploma and baccalaureate programs had part-time enrollments of less than 4 percent while over 25 percent of associate degree students were part-time. The enrollment status is shown here:

DISTRIBUTION OF ENROLLMENT STATUS BY TYPE OF PROGRAM

	<u>Full-time</u>	<u>Part-time</u>
Diploma	97.9%	2.1%
Associate Degree	72.8%	27.2%
Baccalaureate	96.1%	3.9%

When asked about the preferred county of practice, the results were closely correlated to source of students. With the exception of El Paso County, the top 10 counties were the same, but in different order, as shown below. The students reported they expected to practice in 152 of the state's 254 counties, but the most preferred counties tended to be those in which most of the students had residence at the time of application to the nursing programs. The most preferred counties, and the number preferring each county, are shown here:

MAJOR RECEIVING COUNTIES

No. of Students	Percent of Total Enrollment	Cumulative Percent
772	20.03%	20.03%
	18.95%	38.98%
	8.77%	47.75%
		54.38%
		58.15%
_	•	61.73%
	3.13%	64.86%
	2.69%	67.55%
		69.80%
66	1.83%	71.63%
	772 683 316 239 136 129 113 97	No. of Students Total Enrollment 772 20.03% 683 18.95% 316 8.77% 239 6.63% 136 3.77% 129 3.58% 113 3.13% 97 2.69% 81 2.25%

Approximately 80 percent of the nursing students indicated practice in Texas the first year following graduation. Nearly 72 percent were Texas residents remaining in the state while just over six percent were non-residents planning to stay for at least one year of practice. Of the 456 non-residents attending school over 52 percent plan to practice in Texas.

The preference for practice location, by type of program, is illustrated in the chart shown here. In the diploma column, five of the ten counties listed have diploma programs; in the associate degree column, each of the leading counties has an ADN program, and in the baccalaureate column, all tut one of the leading five counties have at least two BSN programs.

MAJOR COUNTIES OF EXPECTED PRACTICE BY TYPE OF PROGRAM AS REPORTED BY STUDENT GEOGRAPHIC MOBILITY SURVEY, 1972

<u>Diploma</u>	Associate Degree	Baccalaureate
Harris Potter El Paso Lubbock 1/3 Travis Tarrant 1/2 Bexar Smith Jefferson Taylor	Harris Dallas Bexar1/3 Galveston Nueces Tarrant1/2 McLennan Grayson Potter Wichita	Harris 634 1/3 Dallas 951 1/2 Bexar 1428 3/4 Tarrant Travis85% 1,617

While mobility among professional nurses varies considerably, it appears that the distances involved are probably greater during the first few years following graduation. In contrast, the LVN Practitioner Survey indicated that 69.2 percent of the respondents were practicing in the same county in which they had attended an LVN program.

With the majority of BSN programs in the largest cities and the majority of ADN programs in the smaller cities it would appear that the rural-urban distribution problems of registered nurses would be minimal. However, a further look at areas of expected practice of graduates of these programs presents some perplexities.

First, each of the three types of nursing education programs is designed to produce nurses prepared to function in somewhat different capacities. Ideally, there should be graduates of all three programs working together as a team particularly in institutional settings. In the ADN program the emphasis is primarily on technical skills and direct nursing care provided in acute settings. Leadership and community health are not emphasized and the graduates are intended to work in settings under the supervision of nurses with more experience or educational preparation.

Diploma graduates, having a longer period of educational preparation, receive somewhat more emphasis on management of large groups of patients and are expected to function more independently than the ADN graduates. However, they receive minimal preparation for practice outside the acute care settings. The baccalaureate graduate is prepared to give skilled patient care but also has preparation in leadership skills and delivery of nursing services offered in other settings. The program provides a broad base of general education and emphasizes the underlying concepts, principles and theories essential to nursing.

Although the theoretical purpose of the ADN program is to prepare bedside nurses working under the direction of more experienced health team members, two-thirds of the graduates of these programs find themselves in situations where they may be the only nurses available and are expected to fill all levels of nursing positions regardless of their educational preparation. Since this distribution problem does not appear likely to change significantly, the need to reevaluate the product of the ADN program in particular should be given consideration.

The prospect that an over-supply of RN's is likely to occur in the larger cities in the state is supported by data from the Student Geographic Mobility Survey which indicated that 48 percent of all new graduates plan to practice in Harris, Dallas, or Bexar counties. With the number of new graduates licensed each year totaling 2,000 or more, this represents a significant potential increase in the supply of professional nurses to the major metropolitan areas.

Inactive Nurses

In the past there has been a tendency to view the pool of inactive nurses as a partial solution to an identified shortage. Based on the fact that the majority of nurses are women, many of whom choose to be inactive while raising a family, there appears to be little likelihood that the situation will change significantly in the near future. Improvement of pay scales, availability of child care facilities, refresher courses, and other incentives may serve to attract some nurses back into practice but for the most part these efforts have not had any significant effects on solving problems of shortages. While the added income may elevate the family's standard of living, it appears that those who are voluntarily inactive can maintain a standard of living which is acceptable to them without practicing nursing.

Nursing Student Opinion on Length of Professional Service

There were significant differences among nursing students, by type of program, when they were asked by the Project to indicate the length of time they planned to work in nursing under varying circumstances. We realize that the plans a student has for a career while still in college or in a diploma program can change, and frequently do; we feel that there were enough students responding to this particular portion of the survey that the results, in lieu, of more definitive data, can be useful in making predictions.

As shown on the chart below, approximately one-third (32%) of all nursing students who responded plan to practice professional nursing for the duration of their normal career life. Another one-third plan to practice full-time until they begin having children and then work part-time while rearing their children. The variance in these plans is directly related to the type of nursing program in which the student is enrolled. As shown below, nearly one-halk of the ADN students plan full-time employment for the duration of their careers, while one-fifth (20%) of the baccalaureate students indicated the same plan.

EXPECTED EMPLOYMENT PATTERNS BY TYPE OF PROGRAM ON OPTIONS LISTED IN STUDENT GEOGRAPHIC MOBILITY SURVEY*

. To practice nursing full time for the rest of my work life.

 To practice nursing full time before I have a family, then part time while rearing the children.

3. To practice nursing full time before I have a family, stop work while children are in school, then resume my career.

4. To work part time only for the rest of my work life.

5. To practice nursing full time before I have a family, then stop working forever.

6. Do not plan to practice nursing.

7. Other.

*The survey tabulations are on page 30.

PERCENT RESPONDING TO THE SEVEN OPTIONS BY TYPE OF PROGRAM

	. 1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	Total
Diploma	29%	37%	18%	2%	1%	1%	10%	100%
Associate Degree	45%	28%	11%	6%	1%	1%	11%	100%
Baccalaureate	20%	41%	26%	2%	1%	1%	8%	100%

Decreasing Contribution

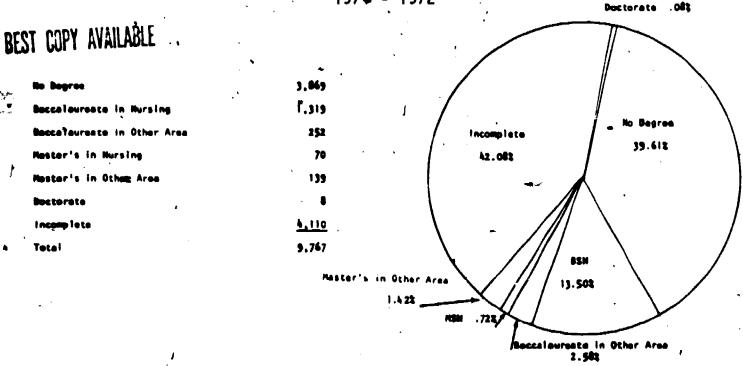
In order to estimate the professional career life of nurses by type of program, the staff developed the NELE (Nurse Employment Life Expectancy) formula based on returns from the two Student Mobility Surveys. We based the formula upon the students' responses to the seven career plans listed above. We weighted the first four options, in order, with 100 percent for number one, 50 percent for number two, 25 percent for number three, and 12.5 percent for number four. When these weighted values were applied to all the responses, we found that, if a full time career from graduation to retirement was 100 percent, the following percentages, by type of program, are the estimated professional career plans of those in the surveys:

Diploma .	•			٠		٠	•	•	-	•	•	J	•	÷	•	•	62.6%
Associate	De	gr	·ee	2				. ,			, .						52.3%
Baccalaure																	

Several factors must be taken into consideration when interpreting this information. First, the data covers a limited time span of two years and does not necessarily show a trend. Second, it is based on future plans of students and may not accurately reflect the actual employment patterns that will occur. Third, age has not been taken into consideration. Since a significant proportion of ADN students are older than the average age of most nursing students, the remaining number of years before reaching retirement age is fewer than for most students in other types of programs.

The chart on the following page shows the educational background of nurses who were inactive in 1971-72. The large number of "incomplete" responses can be partially attributed to the lack of a category for associate degree graduates. A second possibility is that the category includes retired nurses who have been active for most of their lives and do not feel that they fit in an inactive category.

INACTIVE RN'S LICENSED IN TEXAS BY HIGHEST EDUCATIONAL PREPARATION 197 → 1972



Another method of comparing educational preparation and professional inactivity is to arrive at the total number of active and inactive nurses in each educational category and compute the percent in each category who are inactive, as shown here:

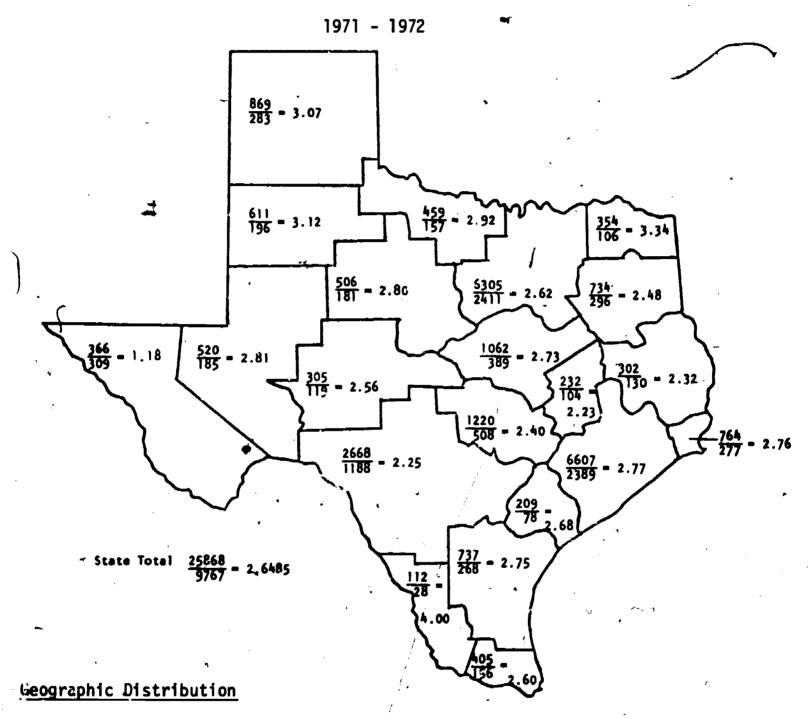
Category	Percent Active	Percent Inactive
iio Degree	80%	20%
BSN	76%	24%
BS in Non-nursing Field	69%	31%
MSN	86%	14%
Doctorate -	76%	24%
Incomplete Response	55%	45%

Several recent social and economic trends, such as the women's liberation movement, smaller families, and inflation, have served to increase the number of women in the work force. Altman predicts that for the nation there will be a slight increase in nurse participation rates in the labor force until 1980, but the rate of increase will be slower than it was in the 1960's (1:5). This was demonstrated in the 1972 Inventory of Registered Nurses which shows an increase in the proportion of active nurses from 65% in 1966 to 69% in 1972.

A progress report on the long-range Nurse Career Pattern Study being conducted by the National/League for Nursing reveals that contrary to popular belief, nurses do not work for a few years and then leave the profession entirely to marry and have children. The report shows that five years after graduation 76.2% of associate degree graduates were active, 68.6% of diploma graduates were active, and 62.6% of baccalaureate graduates were active.

The map shown below compares the number of active nurses to inactive nurses in each of the regions in the state. The resulting ratio shows the number of active nurses for every inactive nurse. The larger the number, the better the utilization of the available nursing manpower pool in that area.

NUMBER AND RATIO OF $\frac{ACTIVE}{INACTIVE}$ RN'S BY REGION



The rural-urban maldistribution of nurses is a problem for which no effective solution has been proposed. The problem is clearly illustrated by the regional statistics in the chart on the following page.

The figures alone are not indicators of the degree of need for nurses in any particular area. Such factors as the size of the rural area and the proximity to medical facilities in urban areas must also be considered. It is expected that the proportionate number of nurses needed in rural areas will be less than in the cities. However, in Texas, where 50 percent of existing hospitals are 50 beds or less and mainly in rural communities, the figures do indicate the problems involved in recruiting for these hospitals.



RATIOS OF ACTIVE RN'S PER 100,000 POPULATION FOR THE ENTIRE REGION, FOR THE URBAN AREAS ONLY, AND FOR RURAL AREAS ONLY 1970 - 1971

Region	Entire Region	<u>Urban Areas</u>	Runa Areas
1	244	376	142
2	176	236	103
3	192	233	132
4	228	233, 214, 246*	137
5	152	149	153
4 5 6 7	149	240	123
7	173	225	135
8	206	212	95
8 9	169	166, 222*	147
10	249	314	155
11	234	278	210
12	253	318	125
13	153	210	106
14	118	No SMSA in Region	118
15	228	228	Entire Region is Urban
16	266	266, 393*	126
17	163	No SMSA in Region	163
18	214	231	156
19	95	115	41
20	159	166	142
21	116	112, 122*	96

^{*} Regions with more than one SMSA.

Geriatric Nursing

With the rapid advances in medicine during the last few decades, we have seen a significant increase in the normal lifespan which in turn results in a larger portion of the population age 65 and over. As a group, this segment of the population exhibits the most complex of health care needs. The normal problems of aging combined with the multiple chronic illnesses of many older individuals present some of the most challenging problems in nursing care. Nursing students often view their experiences in nursing homes with distaste and comment that the field of geriatrics is depressing. They appear to prefer settings in which the health care provided leads to recovery for the majority of patients.

Responses on the Student Geographic Mobility Survey indicated that out of 4,504 students, only 32 wished to practice in nursing homes. Of these, 5 were diploma students, 19 associate degree students, and 8 baccalaureate students. This figure represents .6 percent of potential graduates over the next three to four years. Of the 25,868 active RN's in Texas in 1971-72, only 1,057

were employed in nursing homes. An additional 237 indicated they worked in geriatrics but not in a nursing home. Of those who are employed in nursing homes, many are in administration rather than direct patient care. In the various regions, the ratio of RN's to nursing home beds is severely inadequate. The range is from 1:31 to 1:170, as shown here:

	*7	RN/NURSING HOME BED RATIOS	
Region 1	1:47	Region 8 1:30	Region 15 1:113
Region 2	1:87	Region 9 1:74	Region 16 1:50
Region 3	1:111	Region 10 1:58	Region 17 1:82
Region 4	1:70	Region 11 1:68	Region 18 1:31
Region 5	1:123	Region 12 1:82	Region 19 1:88
Region 6	1:112	Region 13 1:121	Region 20 1:90
Region 7	1:170	Region 14 1:129	Region 21 1:42

when one considers the above ratios in terms of RN per bed available at any one time, the figures would have to be multiplied by three, eight-hour shifts. This indicates that in the region with 1:170 there would be one RN on duty for every 510 patients. To further compound the problem the 1972-73 licensure data indicate that of all LVN's working in nursing homes, 81 percent are charge nurses. The obvious conclusion is that the bulk of direct patient care is being given by aides in these institutions. Statistics further indicate that many nursing homes do not employ any registered nurses for patient care. The reasons for this can partially be attributed to a shortage of RN's seeking positions in nursing homes. Economic factors may make it difficult for nursing home administrators to pay professional salaries. Whatever the underlying reasons, this is an area of serious concern if the public is to receive the quality of nursing care desirable in this setting.



CHAPTER III

UTILIZATION OF NURSES

Over the past several years there has been a growing trend to utilize baccalaureate nurses in capacities which are referred to by various terms such as expanded roles, extended roles, nurse practitioners, clinical specialists, and a variety of other labels. Nurses who are working in these capacities are performing functions that, until a few years ago, were not considered the responsibility of the nursing profession. At the present time many nurses across the country are providing primary health care. In the process they make initial health assessments, deal with common health problems as independent practitioners, make referrals, collaborate with physicians and other health disciplines and provide continuity of health services to clients who move from home to hospital to extended care facility. The evidence that nurses are wanted and being utilized effectively in expanded roles is accumulating rapidly as reported by Schutt (48).

Nurses functioning in expanded roles are not intended to simply extend the physician's time or be a physician's assistant. The purpose is to use registered nurses to their fullest potential. This implies that the nurse makes independent judgements and instigates nursing therapies to solve patient problems that are not normally dealt with by physicians.

In her description of her duties as a nurse practitioner in a neurosurgical clinic, Leininger described some of the kinds of nursing problems presented. They included problems of activities of daily living complicated by special diets, limitations of activity, and difficulty in understanding medication orders. In her study, the physicians agreed that the quality of health care given by both the nurse and the physicians was greatly improved (25:1,275).

In another study to determine educators' perceptions of the extent to which nurses are likely to be performing expanded functions, the responses indicated they expected from 63 to 71 percent of nurses to be performing expanded functions within the next ten years (14).

Not all nurses are prepared to function in such roles and not all wish to assume the responsibility and accountability for professional practice of this nature. However, because of the demand for primary care, and the feeling that registered nurses can and should assume such responsibilities, an increasing number of baccalaureate nursing programs are providing preparation for primary care by including history taking and physical and psychosocial assessment techniques in their curriculum.

In 1971, a report of the extended role of the professional nurse was published by the Department of Health, Education, and Welfare (14) and, after carefully analyzing the report, the Nursing Project Council adopted the following summary as its position on the extended role for nurses.



- 1. Health education centers should undertake curricular innovations that demonstrate the physician-nume team concept in the delivery of care in a variety of settings under conditions that provide optimum opportunity for both professions to seek the highest level of competence. Financial support should be made available for programs of continuing numse education that could prepare the present pool of over one million active and inactive numses to function in extended roles. The continuing education of numses should be structured to encourage professional advancement among and through all numsing education programs and by encouraging the use of equivalency examinations to evaluate competence, knowledge, and experience.
- Increased attention should be paid to the commonality of nursing licensure and certification and to the development and acceptance of a model law of nursing practice suitable for national application through the states. The nursing profession should undertake a thorough study of recertification as a possible means of documenting new or changed skills among practicing nurses.
- 3. Collaborative efforts involving schools of medicine and nursing should be encouraged to undertake programs to demonstrate effective functional interaction of physicians and nurses in the provision of health services and the extension of those services to the widest possible range of the population. The transfer of functions and responsibilities between physicians and nurses should be sought through an orderly process, recognizing the capacity and desire of both professions to participate in additional training activities intended to augment the potential scope of nursing practice. A determined and continuing effort should be made to attain a high degree of flexibility in the interprofessional relationships of physicians and nurses. Jurisdictional concerns per se should not be permitted to interfere with efforts to meet patient needs.
- 4. Cost-benefit analyses and similar economic studies should be under-taken in a variety of geographic and institutional settings to assess the impact on the health care delivery system of extended nursing practice. Toward the same objective, attitudinal surveys of health care providers and consumers should be conducted to assess the significance of factors that might affect the acceptance of nurses in extended care roles which they do not now normally occupy.

In addition to adoption of these summary statements, the Council also adopted the following eight functions as inherent in the extended role:

- Eliciting and recording a health history which would include psychosocial and environmental assessments.
- 2. Making physical assessments.
- 3. Interpreting selected laboratory findings.



- 4. Making diagnoses, choosing, initiating and modifying selected therapies.
- 5. Assessing community resources and needs for health care.
- 6. Utilization of available community resources related to identified needs of patients.
- 7. Providing emergency treatment as appropriate, such as in cardiac arrest, shock or hemorrhage.
- 8. Providing appropriate information to the patient and his family about diagnosis or plan of therapy.

The Council also agreed that the "full participation of nursing in rest. ucturing the health care system" and in the individual nurse's potential to contribute to the solution of present and future health care problems demands maximum utilization of professional nurse manpower.

Foreign Educated Nurses and Quality Nursing Care

One of the more elusive features of utilization of nursing personnel relates to the foreign nurse recruited to work in Texas hospitals. The Nursing Project was unable to acquire precise statistical data on the number of foreign educated nurses, licensed or unlicensed, who are employed in this state.

We did learn from the United States Immigration Service that about 3,000 foreign nurses per year enter the United States on permanent visas, and that about 600 to 1,500 temporary visas are issued to foreign nurses each year. A statewide survey conducted by the Texas Hospital Association in 1973 showed that there were approximately 1,400 foreign educated nurses employed in Texas hospitals. We are unable to determine if this total represented only those licensed to practice or all of the licensed and unlicensed nurses who received their educational preparation outside the United States. If the total represents only those having Texas licensure then the total number employed is considerably higher.

For several years, Texas issued temporary work permits for foreign nurses to practice until they could take the licensure examination. This procedure was stopped in 1973 when the Board of Nurse Examiners concluded that the high failure rate of the foreign nurses posed a severe health care problem in the cases where temporary permit holders were given responsibilities normally given to licensed nurses. The data shown on the table on the following page, covering the period July, 1970, through October, 1972, clearly points out the difficulty experienced by foreign educated nurses, for whatever reasons, in passing the licensure examination for registered nurses in Texas.

FOREIGN NURSE RESULTS ON STATE BOARD TEST POOL EXAMINATION FOR PROFESSIONAL NURSING IN TEXAS* 1970-1972

DATE AND NUMBER O	F CANDID	ATES	TOTAL	PASS	PERCENTAGE PASSING
July, 1970	lst Repeat	31 30	61	27	44.3%
October, 1970	lst Repeat	38 27	65	9 11	23.0% 40.0%
April, 1971	lsi Repeat	1 25 57	182	22 17	17.6% 29.1%
July, 1971	lst Repeat	149 82	231	2 4 18	16.1% 21.9%
October, 1971	lst Repeat	97 128	225	19 23	19.5% 17.9%
April, 1972	lst Repeat	244 198	442	48 57	19.6% 27.2%
July, 1972	lst Repeat	176 234	410	30 48	17.0% 20.5%
October, 1972	1st Repeat	236 332	568	41 90	17.3% 27.1%

The licensure examination administered to applicants for registered nurses in this state is designed to certify that the individual who passes the examination can practice safely in any employment setting for nurses. The failure rates shown on the table above indicate recruitment of foreign educated nurses is not the most effective way to increase the number of registered nurses for the health care system in this state.

The country of origin of the foreign educated nurse and her probable success in meeting licensure requirements do not seem to be related to any noticeable extent. The failure rate is exceedingly high, even by nurses representing countries whose language and culture resemble our own. Shown on the following page are the results of the licensure examination in October, 1972, with the national origin of the nurse identified.

The greatest number of examinees were from India (73), Korea (37), Australia (20), the Philippines (220), England (72), and Mexico (29), with a total of 451 from those six countries. Only 29 passed who were taking the examination for the first time, a passing rate of just over six percent, or conversely, a failure rate of about 94 percent.

^{*}Report of the Board of Nurse Examiners for the State of Texas, April, 1973.



RESULTS OF COUNTRIES HAVING MORE THAN ONE NURSE TAKE STATE BOARD TEST POOL EXAMINATION, OCTOBER, 1972*

COUNTRY	THE NUMBER WRITING THE EXAMINATION	THE NUMBER PASSING THE EXAMINATION	NUMBER WRITING FIRST TIME AND PASSING.
Algeria	5	0	0
South Africa	9	2	0
Hong Kong	3	0	0
India	73	14	2
Iran	3	1	1
Israel	4	0	0
Korea	37	5	0
Taiwan	9	3	0
Thailand	9	1	0
Australia	20	6	4
New Zealand	2	0	0
Philippines	220	62	12
England	72	18	11
Ireland	12	2 2	. 1
Netherland	4		· 1
Scotland	6	2	2
Wales	3	0	0
Canada	7	4	3
Mexico	29	ì	Ō
Panama	4	0	. 0
Argentina	5 3	2	<u> </u>
Bolivia	3	1	0

The report also stated that many of those passing had taken the Test Pool Examination for professional nurses as many as 10 times. As a result of these statistics and the responsibility of the Board to maintain standards of safe nursing practice, the decision was made to discontinue issuing permits to foreign nurse graduates, effective February 27, 1973. At the present time only 19 of the 50 states continue to issue permits.

Although Texas no longer issues temporary permits, a number of hospitals in the state recruit foreign graduates on a contract basis to supplement their professional nursing staffs. It is at this point that potential problems arise. If the nurse is unable to pass the examination she cannot legally work in the capacity of a professional licensed nurse and must be employed as a nursing assistant. Failure to pass the State Board Examination indicates inability to meet minimal requirements for safe nursing practice. If the nurse is allowed to assume the responsibilities and functions of a licensed nurse but is not an RN, a serious question of patient safety arises.

The poor performance of graduates of foreign programs has been attributed to several causes, including inadequate preparation in certain curriculum areas, difficulty with the English language, and unfamiliarity with objective tests. In addition to the testing problem those who have had contact with many of these graduates have pointed out additional reasons for the difficulties which graduates of foreign programs experience. Chief among these are the cultural

^{*}Ibid.

differences that exist between this country and non-English speaking countries in particular. Differences in the complexity of the United States health care system and the extensive use of technology and complicated equipment may make it more difficult for the graduate of a foreign program to perform effectively.

The Texas Nurses' Association has provided assistance to many graduates of foreign programs by sponsoring classes to help them prepare for the licensure examination. However, it seems that more help is needed. When graduates of foreign programs are unable to meet licensure requirements they may suffer from inability to get a job, lower salary than they originally expected, and disappointment form being forced to work as a nurse assistant when they consider themselves professionals.

In an effort to minimize the difficulties faced by graduates of foreign nursing programs and ensure that they have the background to meet the requirements for state licensure in Texas, recruitment efforts should be based on specific criteria. The following suggestions are proposed as measures that could be employed.

- Evaluation of an applicant's educational background and experience should be based on utilization of an evaluation instrument, developed by qualified individuals, including nurses, designed to determine the degree of qualification for job requirements in nursing in the United States. A minimum score should be established in order for an applicant to be accepted.
- 2. Recruitment procedure should include a personal interview with a registered nurse me er of the recruitment team if at all possible. Such an interview should be essential if the applicant's responses on the evaluation instrument indicate potential difficulty in meeting licensure requirements.
- 3. Once the applicant arrives in the United States, the contracting employer should assume the responsibility for providing extensive orientation which includes job orientation, the approach to health care in the United States and adaptation to the life style in the United States. This should be essential for those recruited from non-English speaking countries.
- 4. Professional organizations and nursing education programs should make every possible effort to provide supplementary educational classes to assist with licensure problems or problems of adaptation to life in the United States.

Correlation of Educational Preparation and Utilization of Nurses

Utilization surveys conducted by the Nursing Project revealed that there were many instances where nurses either did not feel prepared for requirements of their jobs, or they were unable to put into practice some of the nursing functions for which they were prepared. Although it is not expected to entirely



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resolve all of these differences, it is the belief of the Council that many could be eliminated by reasonable modification of current practices on the part of both education and the service sector. Problems dealing with areas in which new graduates felt unprepared will be discussed later in this report in the chapter on education. This portion of the report will present information on areas where nurses felt they were not able to utilize certain skills that would contribute to an improved quality of nursing care.

In the Project's survey of hospital nurses who had been in practice five years or less, 956 responded to a list of 76 job functions and identified those for which they were prepared in the educational programs but seldom practiced in the hospital. Some of the items listed were of greater importance than others and the staff performed a Chi Square analysis to identify those of greatest significance. Shown below are the number of functions in which the nurses received educational preparation but which they seldom practiced in the hospital setting.

EDUCATIONAL	NUMBER OF
PREPARATION	SIGNIFICANT ITEMS
LVN	15
Dipl.	27
ADN	4 .
BSN	30

These results illustrate that the ADN graduates utilize the greatest amount of skills learned in their educational preparation, while the graduates of the other types of programs do not, or do not have the opportunity, to practice those skills and techniques. The functions identified by diploma and baccalaureate graduates as seldom utilized included:

- 1. Conduct team conferences
- 2. Initiate teaching or health maintenance measures for patients to be discharged
- 3. Develop written home care plan with patients to be discharged
- 4. Develop teaching plans and conduct classes for groups of patients (such as diabetics or mastectomy patients)
- 5. Develop and implement a teaching plan for an individual patient
- 6. Give IPPB treatments
- 7. Perform passive range of motion exercises
- 8. Insert urethral catheters
- 9. Irrigate colostomy
- 10. Apply soaks or compresses
- 11. Feed patients by nasogastric or gastrostomy tube
- 12. Teach crutch walking

Itmes 1-5 of the list shown above are considered to be vital components of quality nursing care and should be the responsibility of the registered nurse. Items 6-12 are technical procedures and the lack of performance of them by registered nurses infers that they are delegating them to other members of the health care team when appropriate.

Another group of items was identified by baccalaureate nurses as not being performed frequently enough although their education had prepared them to carry out the responsibilities. These items were:

- 1. Develop and execute patient care plans
- 2. Include nursing objectives on care plans
- 3. Make patient referrals
- 4. Take a nursing history
- 5. Establish priorities for nursing care
- 6. Take a patient's physical history
- 7. Take a patient's psychosocial history

Many of the functions identified require independent judgement by nurses about nursing care actions. They often involve problems and concerns outside the scope of medical treatment but affect the patient's response to his illness. The limitation of the nurse's position to the execution of medical orders alone would eliminate a valuable resource for the improvement of patient care.

One suggested approach to the problems which would involve a cooperative effort between nursing service and nursing education would be the appointment of a nurse faculty member to the hospital Nursing Practice Committee. Members of the committee would then have input upon which to base the outcomes of nursing care relative to education. In addition, alternative approaches to utilization of nurses could be developed which would maximize educational background.

Another area in which nurses identified inconsistencies in utilization was in being placed in positions for which their education had not prepared them. This occured when ADN graduates or LVN's were required to function as charge nurses or when new graduates of all three types of professional programs were expected to begin as head nurses. Although the emphasis on LVN educational programs is to prepare practitioners who can give bedside care under supervision, a survey of LVN practitioners indicated that 57 percent of 923 respondents were currently functioning as charge nurses. When asked if they had been required to assume responsibilities for which their education had not prepared them, 48 percent said "yes". Since registered nurses are frequently needed but not available in hospitals in small communities, this does not seem to be an unusual practice. In cases where the need for nurses is great and unprepared persons are placed in positions of responsibility, the Nursing Project Council is particularly concerned that employers make every effort to see that these nurses receive the preparation required for the job. The following is therefore submitted:

RECOMMENDATION:

EMPLOYERS OF NURSING PERSONNEL ASSUME THE RESPONSIBILITY FOR PROVIDING ADDITIONAL LEARNING OPPORTUNITIES FOR THOSE WHOM THEY PROMOTE TO POSITIONS OF LEADERSHIP.

1.

Clinical Research in Nursing

Employers and practitioners who are responsible for providing nursing services to the public should be vitally concerned about the effect of the variable of "nursing" on patient welfare. What does nursing accomplish and what potential difference can it make in the degree and speed of recovery,



the prevention of complications, and the psychological well-being of patients? Clinical research belongs in the hospital and health agency just as much as it belongs in educational institutions. In a summary of some recent efforts in clinical nursing research, Werley describes studies related to pressure sores, development of instruments to assess nursing care, relationship of patient instructions and patient response to treatment procedures and several others (65). From these examples she concludes that research is indeed focusing increasingly on nursing practice.

Large medical centers, in particular, provide excellent opportunities for clinical nursing research. Large numbers of patients make sampling procedures more valid and the existence of facilities for specialization in certain areas provide opportunities to study many patients with similar problems. While the availability of highly qualified nurse researchers is limited, many nurses with baccalaureate and master's degrees are prepared to undertake less complex research projects.

Nursing administrators are urged to incorporate a research effort into departments of nursing service as a method of validating the positive effects of nursing care and contributing to the unique body of knowledge of the nursing profession in the interest of promoting improved nursing care for patients.

Nurse Utilization and the Physician

It is apparent that some of the attitudes toward nursing education and nursing utilization are the result of a lack of knowledge concerning the various types of educational programs, their stated purposes, or their curriculum content. This was demonstrated in the Physicians Opinion Survey in several ways. Although many respondents had definite opinions on the type of graduate that was the "best" nurse, 46 percent (198 out of 430) indicated that in the hospital setting they seldom knew what type of programs the nurses had completed. In a question asking physicians to indicate which kinds of positions were most appropriate for graduates of the different programs, 12 percent of the respondents felt ADN graduates were best prepared for public health, a subject which is not included in most ADN programs. As judged by comments from this survey most physicians prefer the diploma graduate in most employment settings because of her greater clinical experience and her interest in patients. They indicated an appreciation of the leadership role and teaching abilities of the BSN but still preferred the diploma graduate for actual nursing responsibilities.

When asked about employment of nurses in doctors' offices, 52 percent stated that it was necessary to teach any new RN graduate skills which they believed should have been learned in nursing school. The skills referred to were frequently basic technical procedures. In responding to another question on the utilization of registered nurses in the physician's office, the majority were inclined to approve of using nurses in a somewhat expanded role. The survey, however, did not indicate how many were actually using nurses in these capacities. The listed functions and the physicians' responses are presented on the following page.

DO	YOU ADVOCATE LETTING NURSES:	<u>APPROVE</u>	<u>DISAPPROVE</u>
١.	Take health histories	64%	25%
2.	Do health screening procedures	67%	20%
3.	Counsel with patients about their treat- ment regimen, health maintenance, or rehabilitation techniques	67%	21%
4.	Refer patients to community resources that would be supportive of your care and assist with health problems	64%	22%
5.	Make home visits to check on routine evaluation of patients' status such as diet, dressing changes, BP's, discuss home adjustment problems	66%	20%
6.	Conduct group teaching for such patients as diabetics, mastectomies, expectant parents, amputees, etc.	72%	14%

In a question asking if physicians would consider referring patients with certain health needs to an independent RN practitioner with either a master's or doctoral degree in nursing, 42 percent said "yes".

The Nursing Project Council expects that better understanding among the various health professions will result in better utilization of all those engaged in health care. In support of this the following is submitted.

RECOMMENDATION:

THE NURSING PROJECT COUNCIL SUPPORTS THE STATEWIDE JOINT PRACTICE COMMISSION AND URGES THE ESTABLISHMENT OF LOCAL JOINT PRACTICE COMMITTEES AS A MEANS OF PROMOTING INTER-DISCIPLINARY UNDERSTANDING AND MORE EFFECTIVELY PLANNING AND PROVIDING FOR NEEDED HEALTH SERVICES TO THE PUBLIC.

CHAPTER IV

NURSING EDUCATION

SECTION I

EXISTING NEEDS IN NURSING EDUCATION

Admission and Progression Policies

The responsibility of both public and private nursing programs is to produce practitioners capable of giving a high quality of nursing care. The public educational programs in particular have the added responsibility of using public tax money efficiently to meet the nursing manpower needs on a statewide basis. The problem of attrition in nursing programs is a factor which reduces the efficiency of a program in terms of production of graduates and utilization of faculty time. Many of the problems which lead to eventual attrition are directly related to admission criteria and policies affecting progression through the program. The following conditions illustrate some of the problems that can occur:

- a. Students who are admitted to programs even though they do not demonstrate the potential ability to meet the requirements of the program, have wasted both time and money by the time they discover they cannot pass the courses.
- b. Students who drop out during the first year of the professional program cause a reduction in the size of the second year class. If applicants have been more carefully screened, more would complete the program and be available for employment.
- c. With the current severe shortage of qualified faculty members available for professional nursing programs, it is unfortunate that much faculty time is spent teaching students who will not complete the program and become practicing nurses.

Attrition and licensing examination failures in nursing programs can be reduced by improved counseling and admission criteria. The student in the basic program has to meet degree requirements and also to acquire knowledge to pass the licensing examination. Some are successful in mastering degree requirements but do not acquire sufficient knowledge and skills to pass the licensing examination.

A similar concern is the student who graduates and manages to pass the licensure examination only after taking the test several times. In such cases the quality of the practitioner is questionable. In Texas the problem is significant. Between 1971 and July of 1973 a total of 3,934 graduates of Texas nursing programs took the licensure examination for the first time. Of those, 808 or 20.5 percent of the total failed one or more sections of the examination and thus failed to gain licensure on their initial attempt. During the same period, failure rates for candidates repeating the examination varied from 30 percent to 71 percent. At the present time, when comparing the average test pool scores of students by states, Texas ranks 47th out of 52 states and jurisdictions. Since our projections indicate that Texas will soon be producing large numbers of professional nurses, the Council believes that the state needs to focus its attention on improving the quality of nursing graduates.



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One of the prime indicators of the effectiveness of nursing education programs is the performance level of nursing program graduates on the State Board Test Pool (licensure) Examination. The extensive discussion of the foreign nurse graduate in Chapter III of this report makes it necessary that we present additional statistical data on the licensure examination performance for graduates of nursing programs in Texas. This is necessary because these graduates are products of our own educational system and the state is in a position to bring about the corrective changes. This study has recommended those changes elsewhere in this report.

In summary form, the table shown below provides the State Board licensure examination performance, by type of program, of our own graduates, from June of 1972 through June of 1973.

SUMMARY OF LICENSURE EXAMINATION PERFORMANCE BY GRADUATES OF NURSING PROGRAMS IN TEXAS 1972-1973

Type of Program	Number Taking Examination	Number Passing	Number Failing	Percent Failing
ADN	873	579	294	34%
Dipl.	346	314	32	9%
BSN	591	493	98	17%
TOTALS	1,810	1,386	424	23%

In order to illustrate the results of the state licensure examination for graduates of nursing programs in Texas by individual program, the staff selected the 12 month period from June of 1972 through May of 1973, to show the number passing and failing, in each program. The examination is of five parts or sections and an applicant must pass each of the five to receive a license. The results of the examination for the sample period are shown on page 46.

Applicants for licensure who fail one or more parts of the examination are permitted to be re-examined over the parts in which an acceptable score was not achieved, for a maximum of three examinations.

The high failure rate of the ADN program graduates in particular, is attributable in part at least to the lack of appropriate screening of applicants. Other factors, such as the inadequacy of faculty preparation, are significant and we have addressed those factors in our faculty improvement recommendations. We submit that if the nursing programs will develop improved screening procedures, the level of achievement on the State Board licensure examination should increase.

RESULTS OF TEXAS STATE BOARD OF NURSE EXAMINERS LICENSURE EXAMINATION FOR GRADUATES OF TEXAS NURSING PROGRAMS JUNE, 1972 - MAY, 1973 (Series 672)

School	No. Taking Examination	Num 1	ber of	Secti 3	ons Fa	i led 5	Total No. Students Failing Examination
		ASSOC	IATE D	EGREE	PROGRAI	MS	
1	36	4	1	0	0	o	5
ż	39	4		1	ĭ	ĭ	10
~ ~	39	Ä	3 3	ż	4	ö	13
2 3 4	66	7	7	6	2	3	25
5.	46	Á	2	ŏ	1	3 2	23
6	32	7	1	Ŏ	ö	Õ	9 3
5 · 6 7	18	2 3 3 3	1	Ŏ	ŏ	1	5
Ω	27	3	2	ij	Ö	Ó	6
8 9	27	3	2	Ó	1	2	9
10	27 19	4	3	2	1	2 3 2	11
11				1	Ö	. <u>.</u>	7
12	23 19	2 3	2	1	0	0	5
13			2 0 3	2 4			17
14	49	6	<u>ي</u> م		4	0	
15	49 36	4	0	0 2	0 2	ا خ	5 19
16	36 4.7	8	4	2	2	3	
17	47	9	0	4 3	1	0	20
	81 53	11	Ö	3	3	1	26
18 19	53 20	6	6 8 2 6	Ì	· ·	0	10
20	38 129	0 11	10	4 18	2 13	2 23	14 75
20	129	70.0				23	75
		D	IPLOMA	PRCAR	AMS		
1	25	1	1	1	0	0	3
2	25	Ű ~	1	0	0	0	7
3	32 29	1	0	0	0	0	1
4	29	1	0	0	1	0	2
5	28	2	0	2	1	0	2 5
6	85	4	0	0	0	0	4
7	17	1	1	0	0	0	2
8	37	4	1	3	0	1	9
4 5 6 7 8 9	32 36	1	0	0	1	0	4 2 9 . 2 3
10	36	3	0	0	0	0	3
		BACC	ALAURE	ATE PR	OGRAMS		
1	39	7	4	3	0	0 3	14
2 3	20 43 27	, 3	5 0]	1		13
3	43	0	0	0	0	0	0
4	27	2	2	2	0	1	7
5	45	_4	į į	0	0	0	5 33
6	212	15 0	7	5	0 5 0	1	
7	5	0	0	0		0	0
8	61	4	2	1	0	0 '	7
5 6 7 8 9	24	2 7	0 2 2 2	2	1	Q	. 1
10	115	7	2	1	2(:	2 0	12
	1				, , , , ,	• -	

With the objective of the improvement of quality in nursing education, the Council submits the following:

RECOMMENDATION: N

NURSING PROGRAMS IDENTIFY, ALIDATE AND UTILIZE ADMISSION AND PROGRESSION CRITERIA WHICH CAN SERVE AS RELIABLE INDICATORS OF AN APPLICANT'S ABILITY TO SUCCESSFULLY COMPLETE THE PROGRAM.

Clinical Experience

Throughout the studies conducted by the Nursing Project there was general agreement among practicing nurses, students, physicians, and employers that within professional nursing education programs there needs to be a greater emphasis on technical treatment procedures and clinical experience in acute care settings. There is no desire on the part of the Council to minimize the importance of theoretical foundations in nursing and principles which allow graduates to meet the demands of a rapidly changing practice. However, the Council believes that such agreement is not without justification and that professional nursing programs need to re-evaluate their curriculums in terms of both total time spent in the acute care clinical setting and the utilization of that time to assure that their graduates are prepared to assume the responsibilities required of staff nurses in the majority of acute care institutions.

The instrument used in the Project's Hospital Utilization Survey contained a list of 76 functions considered appropriate for nurses in the hospital setting. The nurses were asked to indicate whether or not they were prepared in their educational program to carry out the function and if they had actually done so in practice. The results showed that the graduates of professional nursing programs were frequently called upon to carry out functions for which they were not prepared. For example, the graduates of baccalaureate nursing programs listed 23 items, graduates of associate degree programs listed 40, and the diploma graduates listed 26 functions which they were called upon to perform but for which they felt unprepared. The high number of items for ADN's (40) reflects the practice of using this type nurse in leadership positions and in management and planning roles which are not emphasized in that type educational program. Despite this qualification, some of those items listed by the ADN graduates were technical procedures that would be expected of the graduate of this type program.

In a survey of 1,183 registered nurses, selected at random from active RN's in Texas, 21 percent stated that they were required to perform functions in the first professional position they had held for which they were not adequately prepared. They identified 63 percent of the functions as "procedure techniques" and 24 percent as "leadership and management of personnel."

A similar question in the Hospital Utilization Survey is given below with the responses reported to the staff:

Survey Question:

In your first position as a licensed nurse did your job require you to perform procedures or assume responsibilities for which your education had not prepared you:

Percent	Answer	ing '	"Yes"

LVN	33%
Dipl.	39%
ADN	61%
BSN	46%

If you answered "yes" to the previous question, please specify the types of activities for which you felt unprepared.

	LVN	Dipl.	ADN	BSN
Supervision	16.0%	23.0%	33.3%	18.8%
Assisting Physicians	4.9%	0.0%	2.1%	1.6%
Teaching Patients	1.2%	0.0%	0.0%	1.6%
Clinical Skills	63.2%	70.5%	45.8%	71.9%
Communication with Patients, Doctors, Administrators, etc.	2.5%	0.0%	2.1%	0.0%
Planning Patient Care (Nursing Diagnosis) Coping with Emotional or	1.2%	0.0%	2.1%	0.0%
Social Needs Other	0.6% 10.4%	0.0% 6.6%	0.0% 14.6%	0.0% 6.3%

In a survey of 580 (25 percent of all) senior students enrolled in professional nursing programs in Texas the responses to items concerning <u>clinical</u> experience were as follows:

		Diploma (agree)	ADN (agree)	BSN (agree)
1.	Clinical experience is sufficient in length to master most technical procedures.	80%	38%	32%
2.	Clinical experience provides adequate opportunity to apply nursing theory under realistic conditions.	89%	55%	51%
3.	Clinical experiences are <u>usually</u> related to theory being presented in class.	83%	58%	45%
4.	In clinical lab, the student is accepted by the regular staff as a member of the nursing term	77%	44%	45%

In the survey of 1,183 practicing RN's on the adequacy of present educational programs in nursing, the Nursing Project discovered a sharp difference of opinion on adequacy, as shown in the responses to the following question:

"Assuming a normal orientation of the unique aspects of a particular institution or agency, do you believe current professional nursing eduçation has adequately prepared the new graduate?"

		<u>Yes</u>	<u>No</u>	No Response
a.	Diploma program graduates	66%	15%	. 20%
b.	Associate Degree program graduates	30%	47%	23%
с.	Baccalaureate program graduates	42%	36%	22%

In 1971-72, 64.09 percent of employed RN's in Texas were working in hospitals. In the survey of students enrolled in professional nursing programs, 94.4 percent of diploma students, 89.2 percent of ADN students, and 84.4 percent of BSN students indicated a preference for practice in hospitals. Although increasing numbers of both RN's and LVN's are working in other areas, hospitals will continue to employ the greatest percentage of graduates in the immediate future. For this reason the Council recommends:

RECOMMENDATION:

PROFESSIONAL NURSING PROGRAMS PLACE AN INCREASED EMPHASIS ON CLINICAL EXPERIENCES WHICH MORE REALISTICALLY SIMULATE THE RESPONSIBILITIES WHICH THE NEW GRADUATES WILL BE REQUIRED TO ASSUME AS STAFF NURSES IN THE MAJORITY OF ACUTE CARE INSTITUTIONS.

With the rapidly expanding body of knowledge in medicine and nursing it has become impossible for any one nurse to be highly skilled in all areas of nursing practice. By the time students have completed basic nursing courses in the major areas of practice, they often have a definite preference for one or two and plan to work in those areas after graduation. Such areas of practice may include medical-surgical nursing, maternal-child health, psychiatry, geriatrics, rehabilitation or any number of other special areas such as neurosurgical nursing, or cardiac intensive care. In keeping with education practices in other professional fields it would seem appropriate to allow students to choose an elective based on a particular area of interest in order to develop a greater degree of competence than would otherwise be achieved. From another viewpoint students could use an elective as an opportunity to strengthen their skills in areas where they feel they need to improve. A clinical elective emphasizing extensive participation in patient care over an entire shift could provide a student with a preview of actual job demands in which she would not normally be involved prior to experience as an RN. So that this opportunity may be provided, the Council recommends:

RECOMMENDATION:

PROFESSIONAL NURSING PROGRAMS PROVIDE A NURSING ELECTIVE IN WHICH THE STUDENT MAY CHOOSE AN AREA OF CLINICAL PRACTICE AND PARTICIPATE IN A PERIOD OF INTENSIVE CLINICAL EXPERIENCE UNDER THE SUPERVISION OF A FACULTY MEMBER OR A PRACTICING NURSE WORKING IN THE AREA WHO MEETS THE QUALIFICATIONS OF THE PROGRAM.

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RECOMMENDATION:

PROFESSIONAL NURSING PROGRAMS SHOULD PLACE INCREASED EMPHASIS ON MANAGEMENT CONCEPTS IN THE ORGANIZATION AND DELIVERY OF PATIENT CARE AND SUPERVISION OF PER-

SONNEL IN THE CLINICAL SETTING.

Rural Experience in Professional Nursing Programs

The problem of shortages of professional nurses working in rural areas emphasizes the need for nursing programs to stimulate interest in this area. There appears to be a tendency for nurses to prefer working in settings similar to those in which they received educational experience and for this reason the small community setting should be promoted as an area of practice which offers the professional nurse an opportunity to exercise judgment and utilize a broad range of skills and knowledge. For example, in small hospitals there is less likely to be a resident physician staff. In potential or actual emergency situations the nurse must be prepared to make decisions and take actions that would not be required in a large medical center with access to a physician.

In addition, smaller hospitals are less likely to have extensive supportive services such as respiratory therapy departments, rehabilitation units or social workers. The professional nurse in this setting may be required to do many technical procedures or provide certain types of nursing services that would normally be performed by special departments in large facilities. demands can prove to be extremely rewarding when the nurse can see the results of planning, teaching and nursing intervention which she has accomplished. Some programs have been incorporating such experiences into their curriculum with apparently good results.

The Council therefore submits the following:

RECOMMENDATION: PROFESSIONAL NURSING PROGRAMS OFFER CLINICAL EXPERI-

ENCE IN SMALL HOSPITALS EITHER AS A PART OF A

CURRENT COURSE OR AN ELECTIVE IN RURAL HEALTH CARE.

RECOMMENDATION:

PROFESSIONAL NURSING PROGRAMS AND SUBURBAN AND RURAL HOSPITALS AND HEALTH AGENCIES, WITHIN A REASONABLE DISTANCE OF THE SCHOOL, ENTER INTO JOINT APPOINTMENTS OF QUALIFIED NURSES WHO CAN SUPERVISE, TEACH, AND EVALUATE STUDENT EXPERIENCES

IN THE SMALL HOSPITAL.

The recommendation that nursing programs utilize joint appointments in rural experiences is intended to meet two needs in particular. With a portion of the salary of a nurse being paid by an educational program, smaller hospitals would have a better opportunity to recruit a staff member with advanced educational preparation. In such an arrangement the joint appointee would work as a staff member when no students were receiving clinical experience and as a

faculty member during the period of their rural elective course. This would eliminate the need for a full time faculty member to travel back and forth and would provide qualified supervision by an individual familiar with the clinical laboratory and the community.

Geriatrics

The need for registered nurses in nursing homes has been presented in a previous chapter. In addition, with the increasing number of older people receiving health care in hospitals, clinics, and offices there is a need for nurses with special preparation in geriatrics to work in many job settings. Because of the complexity of the health problems of older people, they offer a tremendous challenge to registered nurses to use their professional knowledge to its full extent. The current emphasis of baccalaureate programs on skills in assessment, planning and therapeutic nursing intervention is expecially important when working with older people. The Council therefore submits the following:

RECOMMENDATION: ALL SCHOOLS OF PROFESSIONAL NURSING TAKE POSITIVE STEPS TO MAKE THE FIELD OF GERIATRICS MORE STIMULATING AND CHALLENGING TO THE STUDENT BY:

- EMPHASIZING THE CONCEPTS OF GERIATRIC NURSING TO A GREATER DEGREE THROUGHOUT THE CURRICULUM AND INCLUDING A MINIMUM OF FOUR SEMESTER CREDIT HOURS, OR ITS EQUIVALENT. OF SPECIFIC GERIATRIC CONTENT IN BACCALAUREATE PROGRAMS AND TWO SEMESTER CREDIT HOURS, OR ITS EQUIVALENT, IN ASSOCIATE DEGREE AND DIPLOMA PROGRAMS.
- ACTIVELY RECRUITING FACULTY WITH SPECIAL PREPARA-TION AND/OR SPECIAL INTEREST IN GERIATRICS AND PROVIDING OPPORTUNITIES FOR FACULTY DEVELOPMENT IN THE AREA OF GERIATRICS.
- OFFERING ELECTIVES IN THE FIELD OF GERIATRICS AT BOTH THE UNDERGRADUATE AND GRADUATE LEVELS.
- FOSTERING A MORE POSITIVE IMAGE OF THE FIELD OF GERIATRICS BY INVOLVING STUDENTS TO A GREATER DEGREE IN THE HEALTH CARE OF OLDER PEOPLE WHO ARE NOT ILL AND WHO CONTINUE TO ACTIVELY CONTRIBUTE TO THE SOCIETY.
- UTILIZING NURSING HOMES TO A GREATER DEGREE AS A LABORATORY SETTING FOR DEVELOPING ADVANCED SKILLS IN ASSESSMENT. PLANNING AND EVALUATION OF HEALTH PROBLEMS.

Curriculum Evaluation

It is the belief of the Council that identification of the essential components of professional nursing education should be the result of collaborative efforts between nursing educators and clinical practitioners. One approach to this is through joint appointments. In a description of the effective use of joint appointments between the University Hospitals of Cleveland and Frances Payne Bolton School of Nursing, Case Western Reserve University, Pierik points out the benefits of such arrangements (43). With the school of nursing providing academic leadership in the patient care setting, the expected results of the collaborative relationship would: 1) raise the quality of patient care to a high degree of excellence; 2) enhance the learning climate for both nursing students and staff, and 3) foster the development of significant research in clinical nursing. In addition to these advantages, schools of professional nursing benefit by having faculty members: 1) who are engaged in clinical practice and have the opportunity to keep their skills up to date, 2) who can serve as role models to both students and staff, and 3) who, as employees of hospitals or other agencies, can provide learning experiences for students which will be consistent with the demands they will face as registered nurses. With cooperative relationships of this nature the development of the curriculum of a nursing program will be based on patient needs and determined by input from all who are concerned about preparing nurses to give quality care.

The Council therefore submits the following:

RECOMMENDATION:

PROFESSIONAL NURSING PROGRAMS AND HEALTH CARE INSTITUTIONS AND AGENCIES IMMEDIATELY BEGIN WORKING TOGETHER TO ESTABLISH JOINT APPOINTMENTS

IN CLINICAL AREAS.

RECOMMENDATION:

PROFESSIONAL NURSING PROGRAMS PROVIDE AN OPPORTUNITY FOR THE SERVICE SECTOR TO HAVE INPUT JNTO THE EDUCATIONAL PROCESS BY APPOINTING QUALIFIED NURSING REPRESENTATIVES OF HEALTH CARE AGENCIES OR INSTITUTIONS TO SERVE AS MEMBERS OF CURRICULUM COMMITTEES.

RECOMMENDATION:

PROFESSIONAL NURSING PROGRAMS ASSUME THE RESPONSI-BILITY FOR EVALUATING THE PROFESSIONAL PERFORMANCE OF THEIR GRADUATES, BASED ON INPUT FROM BOTH THE PRACTICING NURSE AND THE EMPLOYER, AND USE THE RESULTING INFORMATION AS ONE BASIS FOR IDENTIFYING

NEEDED CURRICULUM REVISIONS.

Interdisciplinary Collaboration

Leininger points out that "many of our health care delivery problems today are related to a lack of understanding and appreciation for the actual and potential contributions of different health disciplines" (26). This 'situation was apparent in the results of the Physician Opinion Survey in which a significant number of physicians commented on their unfamiliarity with the



nursing education process. Similarly, physicians who have entered into collaborative professional practice with qualified nurse practitioners have expressed their satisfaction at the resulting improvement in the quality of health care provided (25). If such interdisciplinary collaboration is to become a commonly accepted practice, its value needs to be taught, and experienced at the student level. During the late 1950's and 1960's the trend in nursing education was to get away from previous practices of having a major proportion of classroom lectures delivered by physicians. Since nursing is a separate discipline with its own unique body of knowledge it is appropriate that nurses teach nursing. However, the trend served to exclude physicians almost entirely from participation in nursing education. As a result, physicians are unaware of the changes and improvements that have taken place in the educational process since that time and do not have the opportunity to be made aware of them.

Therefore, the Council submits the following:

RECOMMENDATION:

PROFESSIONAL NURSING EDUCATION PROGRAMS INVOLVE PRACTICING PHYSICIANS TO A GREATER EXTENT IN BOTH THE DIDACTIC AND CLINICAL ASPECTS OF NURSING EDUCA-UTILIZATION OF PHYSICIANS SHOULD BE ON A PLANNED BASIS AND SHOULD EMPHASIZE THE PHYSICIAN'S EDUCATION AND EXPERIENCE IN PATHOPHYSIOLOGY,

DIAGNOSIS, AND TREATMENT, ESPECIALLY IN THE PREPARA-TION OF NURSES TO FUNCTION IN PRIMARY CARE SETTINGS.

RECOMMENDATION:

SCHOOLS OF MEDICINE INVOLVE PRACTICING NURSES TO A GREATER EXTENT IN BOTH THE DIDACTIC AND CLINICAL ASPECTS OF MEDICAL EDUCATION. UTILIZATION OF NURSES SHOULD BE ON A PLANNED BASIS AND EMPHASIZE THE NURSE'S EDUCATION AND EXPERIENCE IN SUCH AREAS AS THE RESPONSE OF INDIVIDUALS AND FAMILIES TO ILLNESS, AND NURSING THERAPIES WHICH CAN SUPPLEMENT MEDICAL CARE.

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RECOMMENDATION: MEDICAL AND NURSING EDUCATIONAL PROGRAMS ENCOURAGE INTERACTION OF THE TWO PROFESSIONS, WHEN APPROPRIATE, AT THE STUDENT LEVEL THROUGH SUCH ACTIVITIES AS CLASSES, ROUNDS AND CLINICAL COLLABORATION.

RECOMMENDATION:

PROFESSIONA! NURSING PROGRAMS PROVIDE PLANNED CLINICAL EXPERIENCE IN PHYSICIANS' OFFICES WITH ONE OF THE OBJECTIVES BEING TO PROVIDE AN OPPORTUNITY FOR PHYSI-CIANS, NURSING FACULTY, NURSING PERSONNEL, AND STUDENTS TO EXCHANGE IDEAS AND EXPERIENCE WITH METHODS OF INTER-DISCIPLINARY COLLABORATION IN THE OFFICE SETTING.

Career Mobility

The unusually high level of geographic mobility of today's population, plus the increasing percentage of married students enrolled in nursing programs combine to create a condition that makes it increasingly important to develop ways to promote educational mobility from one institution to another without unnecessary loss of time or credit to the student. In addition, there are

significant numbers of individuals who are interested in vertical career mobility who find themselves faced with frustrating barriers.

The extent of the desire for further education was demonstrated in responses from LVN's, professional nursing students and RN and LVN practitioners who were surveyed by the Nursing Project.

In May of 1972, 379 LVN's were enrolled in professional nursing programs. Of these, 58 were enrolled in diploma programs, 277 in ADN programs, and 44 in BSN programs. In one of the associate degree programs, LVN's accounted for 32 percent of the program's enrollment. In eleven other ADN programs, the number of LVN's enrolled ranged from 14 to 23 percent. LVN's in BSN programs accounted for from 1 to 8 percent of the total enrollment of individual programs.

Of the 58 LVN's enrolled in diploma programs, 74 percent indicated that they planned to work toward a baccalaureate or higher degree at a later date. Of the 277 LVN's enrolled in ADN programs, 66 percent indicated similar goals. Of the 44 LVN's in BSN programs, 73 percent indicated a desire to obtain a master's or higher degree. It should be pointed out that the actual number of persons expected to attain such goals is considerably lower. However, a high level of interest is present. If the problems of transfer of credit from one type of program to another could be satisfactorily resolved, it is quite likely that there would be a significant increase in the number of individuals attempting vertical career mobility in nursing.

Over two-thirds (nearly 67%) of professional nursing students surveyed indicated plans for further education beyond their present level. The percentage of students in each type of program indicating plans for educational advancement is as follows:

). Diploma Associate Degree Baccalaureate	<u>Percent</u>	<u> </u>					
Associate Degree	82.89% 71.86% 59.66%	627 of 757 1,325 of 1,845 1,135 of 1,902					

Thus, regardless of their present level of education, the majority of students plan to advance their educational preparation. The highest level of planned education attainment by all students is as follows:

	<u>Percent</u>
Diploma	3.40%
Associate Degree	11.28%
Baccalaureate	46.18%
Master's	32.37%
Doctorate	4.91%
No Degree	1.87%

The highest education level desired by type of program is shown in the chart below.

HIGHEST EDUCATIONAL OBJECTIVE AS REPORTED BY STUDENTS IN PROFESSIONAL NURSING PROGRAMS

1972

Student's Present Program	Diploma	Associate Degree	Baccalaureate	Master's	<u>Doctorate</u>
Diploma	17%	1%	60%	19%	3%
Associate Degree	1%	27%	47%	18%	4%
Baccalaureate			40%	52%	7%

The second type of mobility which creates problems of transfer of credits is movement of students from one college to another. The charts on page 56 indicate the extent to which students change schools but do not indicate the length of time attended or the major of the student. Some of the figures can be explained to some degree. For example, a number of baccalaureate nursing programs provide all courses in the nursing major during the junior and senior years. This allows students to take required general education courses at any college or university that offers the preprofessional curriculum and then transfer to the college offering the nursing degree for the last two years. All diploma programs require one year of college work. This accounts for the high percentage of students who responded that they had attended "one other college". There are still significant numbers of students who attend two, three or four institutions during the course of earning a degree. When transfer of nursing courses is involved, it frequently becomes difficult to determine whether the content of courses with similar names is the same in all schools.

One potential solution to this problem is the development of a curriculum which is specifically planned to articulate the current types of nursing programs. Such a curriculum would proceed from simple to complex nursing skills and would eliminate repetition of material already learned at a previous level. Such a curriculum is designed to allow a student the option of leaving the program at any of several points with preparation for licensure either as an LVN or RN. If a student chose to reenter the program at a later date she would receive full credit for work completed and could continue the program without loss of time or credit. This plan is referred to as a multiple entry and exit curriculum. Such a curriculum, if planned to incorporate sufficient flexibility to allow for individuality and experimentation, could be adopted by many schools for the purpose of facilitating inter-institutional transfers and promoting opportunities for vertical career mobility. The Council supports this concept as evidenced in later recommendations.

BACCALAUREATE PROGRAMS - COLLEGE MOBILITY

	No. of Texas Schools Previously Attended	Responses Indicating Previous Attendance at a College with	Att At One Col	Whô lended Least Other lege	Two 0	nded	No. Atte Thr Oth Coll	nded ee er	No. of Respon- dents	
		a Nursing Program	No.	8	No.		No.			
UT Austin	27	20 .	•	45.6	15 .	22.1	3	4.4	68	
M-H Baylor	24	14	30	46.2	13 33	20.0 22.8	4 7	6.2 4.8	65 145	
Baylor Dallas Baptist	40 21	37 10	59 20	40.7 43.5	33 7	15.2	í	2.2	46	•
TWU Denton	60	52	117	26.9	22	5.1	6	1.4	435	
TCU ,	42	69	94	38.4	44	18.0	14	5.7	245	
UT Galveston	31 25	23 UTA + 20	62 36	. 87.3 33.3	41 11	57.7 10.2	16 2	22.5	71 - 108	
Dominican 'Houston Baptist	25 25	11 15	30 44	50.6	16	18.4	2	2.3	87	
Prairie View	8 .	.3	9	20.0	4	8.9	0	-	45	
TWU Dallas .	45	52	72	31.7	33	14.5	15	6.6	227	
TWU Houston	23	12	33	10.5	8	2.6	1 5	4.3	313 116	
Incarnate Word UT San Antonio	25 48	55 27 UTA + 71	48 93	41.4 87.7	26 57	22.4 53.8	27	25. 5	106	
TOTAL	70	47 VIN 7 71	748	36.0	269	13.0	103	5.0	2,077	
	ADN P	ROGRÀMS - COLLEG	E MOBI	LITY					• .	
Alvin	30	, 27	72	46.5	34	21.9	9	5.8	155	
Amerillo '	17 17	′ 5 15	27 22	· 30.7 19.1	7 6	8.0 5.2	2 4	2.3 3.5	88 115 <i>4</i>	
Del Mar El Centro	38	25	59	32.6	21	11.6	7	3.9	181	<i>,</i> ='
Grayson County	20	9	36	29.8		6.6	4	3.3	121	
Pan American	12	5	13	13.7	6	6.3	1	. 1.1	95	
Tarrant County	22	18	23	26.1	9 18	10.2 17.1	3 3	3.4 2.9	88 105	
Galveston College	29 9	15 6	44 11	41.9 29.7	2	5.4	0	2.9	37	
Kilgore Central Texas	7	2	5	9.3	3	5.6	ŏ	•	54	
Laredo	i	ī	1	2.2	0	-	Q	.	45	
Anĝel i na	13	6	24	40.7	6	10.2	. 2	3.4	59 53	
Odessa	19	10	18 14	28.6 38.9	8 2	12.7 5.6	4	6.3 2.8	63 36	
Paris San Jacinto	8 15	5 8	17	30.9 18.1	5	5.3	ż	2.1	94	
Angelo State	18	8	iź	13.0	5	5.4	3	3.3	92	
San Antonio	17	٠ 8	22	16.9	8	6.2	0		130	
Texarkana	20	.3	21	27.3	, <u>6</u>	7.8	2	2.6 3.4	77 119	
McLennan	32 16	19 5	35 18	29.4 19.8	17 6	14.3 6.6	Ö	3.4	91	
Mi dives tern TOTAL	10	9	494	26.8	177	• 9.6	ราั	2.8	1,845 .	•
	DIPLOM	PROGRAMS :- COLL	EGE MC	BILITY						•
Hendrick	22	9	43	84.3	15	29.4	4	7.8 11.1	51 153	
Northwest Texas	23	144 52	116 45	75.8 77. 6	72 23	47.1 39.7	17 6	10.1	153 58 ·	
Brackenridge Baptist - Beaumont	21 11	52 6	45 48	94.1	ii	21.6	2	3.9	51	
Hotel Dieu	. '7	2	54	61.4	11	12.5	, 2	2.3	. 88	٠,
John Peter Smith	21	57	63	86.3	23	31.5	13	17.8	73	
He rmann	22	22	58	82.9	22	31.4 34.2.	8 10	11.4 13.2	70 76	
Methodist - Lubbock	20	10 %	67 40	88.2 83.3	26 10	20.8	A	8.3	48	
Baptist - S.A.	8 .	13		51.7	14		Ž	2.2		-
Texas Eastern	18	132	46	21./	19	15.7	~	6.4	89 757	

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Availability of Faculty

The seriousness of the current nursing faculty shortage in the United States was pointed out in a recent Southern Regional Education Board publication Nursing Education in the South: 1973. In a discussion of program quality of nursing programs in the 15 states holding membership in SREB, the following facts were presented:

- 1. Although the master's degree is considered a requirement for teaching, only 43.6 percent of present nursing faculty hold the degree.
- 2. Fifty-four percent of nursing faculty members are not educationally prepared if the criterion is a graduate degree.
- 3. Southern ADN and BSN programs reported 227 budgeted faculty positions vacant in 1973.
- 4. Against these odds new nursing programs are opening at the rate of one a week.

Texas is currently facing a similar condition where, despite the present shortage of qualified faculty, there is pressure to open more nursing programs. In the spring of 1973, the Board of Nurse Examiners reported 47 unfilled faculty positions in Texas nursing programs. The level of faculty educational preparation in Texas programs is presented below in comparison with the United States.

FACULTY PREPARATION IN PROFESSIONAL NURSING PROGRAMS

1973

 Employing	Hold Dip	ding loma	Per d Hold Baccala	ling	Pero Hold Mast		Ho	rcent lding torate
Programs	U.S.	Texas	U.S.	Texas	<u> </u>	Texas	U.S.	Texas
Diploma Associate Degree Saccalaureate	23.6% 1.4 .4	18% 0 0	57.7% 38.5 14.0	64% 64 14	17.9% 58.7 79.1	18% 34 82	.2% .4 6.2	.0% 1.5 4.0
								*

Although nursing programs in Texas and other states have too few faculty members with graduate degrees, the type of program in Texas which is in greatest need of faculty holding at least the master's degree is at the associate degree level. Very few of the ADN programs are located near graduate programs in nursing and it is difficult to pursue the degree while teaching full time. Since 64 percent of faculty in diploma and ADN programs do not hold the graduate degree, it is urgent that alternatives be provided to the traditional process of all graduate work in nursing be taken in residence.

The level of the degrees held by nursing faculty is an important criterion for measuring faculty quality, but it is not the only criterion. Experience and ability in teaching, practice experience, especially clinical practice experience, are also of vital importance. In the interest of promoting improved faculty qualifications, the Council supports the following recommendations:

RECOMMENDATION:

NURSING PROGRAMS REQUIRE THAT FACULTY WHO DO NOT HOLD AT LEAST THE MASTER'S DEGREE ENTER A GRADUATE PROGRAM WITHIN 12 MONTHS AFTER BEGINNING EMPLOYMENT AND COMPLETE THE MASTER'S DEGREE WITHIN SIX YEARS

OF THE DATE OF BEGINNING EMPLOYMENT.

RECOMMENDATION:

AS RECOMMENDED BY THE BOARD OF NURSE EXAMINERS, FACULTY MEMBERS WITH MASTER'S DEGREES IN NON-NURSING MAJORS SHOULD HAVE A MINIMUM SIX SEMESTER HOURS OF GRADUATE

LEVEL CONTENT IN NURSING.

'RECOMMENDATION:

NURSING PROGRAMS AMD EMPLOYERS OF NURSES ESTABLISH A PROCESS UNDER WHICH NURSING FACULTY WOULD PRACTICE IN THE CLINICAL SETTING EACH YEAR. AT LEAST 10 PERCENT OF THE TIME NORMALLY SPENT IN CLINICAL INSTRUCTION SHOULD BE THE MINIMUM FOR THIS CLINICAL PRACTICE BY FACULTY.

The intent of the Council in these recommendations is to improve faculty educational levels and to increase the clinical practice capabilities of nursing faculty.

Graduate Education

Over the past several years there has been an increasing demand for graduate education in nursing. The two graduate programs in Texas reflect this in the graduation statistics illustrated on the chart shown below.

NUMBER OF GRADUATES FROM TEXAS PROGRAMS OFFEXING THE MASTER'S DEGREE IN NURSING

	1967-68	1968-69	1969-70	1970-71	1971-72	<u> 1972-73</u>
The University of Texas	٠ 4	3	6	10	27	82
Texas Woman's University	4	<u>17</u>	24	<u>35</u>	<u>57</u>	66
Total	8	20	30	45	84	148

Both of the graduate programs are increasing the number of locations where graduate courses are available but there is still a need that is not being met. As indicated above, there are many faculty members of basic nursing programs who are not prepared at the master's level. Many would like to work toward the degree but are unable to move to a city offering graduate work. At the present time the Council feels that the priority need in nursing education in Texas is for qualified faculty in basic professional programs and therefore submits the following:

RECOMMENDATION:

EXISTING GRADUATE PROGRAMS IN NURSING PLACE A SPECIAL EMPHASIS ON THE PREPARATION OF NURSING FACULTY IN THE FOLLOWING WAYS:

- A. OFFER OFF-CAMPUS COURSES FOR CREDIT PRIMARILY FOR FACULTY MEMBERS OF NURSING PROGRAMS WHO COULD NOT OTHERWISE PARTICIPATE IN A PROGRAM ON AN EXISTING GRADUATE CAMPUS. SUCH COURSES COULD RECEIVE PARTIAL FUNDING THROUGH MONIES APPROPRIATED TO THE COORDINATING BOARD FOR THE PURPOSE OF FACULTY IMPROVEMENT.
- B. OFFER A SERIES OF SUMMER COURSES ON EXISTING GRADUATE CAMPUSES FOR FACULTY MEMBERS IN SCHOOLS OF NURSING WHO NEED ADDITIONAL PREPARATION FOR TEACHING. SUCH COURSES SHOULD EMPHASIZE CURRICULUM DESIGN, COURSE CONSTRUCTION, TEST CONSTRUCTION, PERFORMANCE EVALUATION, INSTRUCTIONAL METHODOLOGY, TEACHING RESOURCES, PRACTICE TEACHING, AND ADVANCEMENT OF CLINICAL KNOWLEDGE AND SKILLS.
- C. PLAN TO EXTEND GRADUATE COURSES INTO REGIONS WHICH CAN DEMONSTRATE A CONTINUING NEED.
- D. GRADUATE PROGRAMS OFFER MAJORS WHICH PLACE EQUAL EMPHASIS ON CLINICAL AND NON-CLINICAL AREAS FOR THOSE WHO PLAN TO ENTER TEACHING.
- E. PROVIDE APPROPRIATE RESEARCH TRAINING WITH PARTICULAR EMPHASIS ON EVALUATION TECHNIQUES.

In addition to these recommendations to provide basic access to graduate work in nursing, with emphasis on meeting the needs of new and existing nursing faculty, the Nursing Project encourages the graduate programs to utilize all appropriate resources to meet those needs and therefore submits these recommendations:

RECOMMENDATION: A.

A. BACCALAUREATE NURSING PROGRAMS WITH FACULTY PREPARED AT THE DOCTORAL LEVEL SHOULD EXPLORE WITH EXISTING GRADUATE PROGRAMS THE POSSIBILITY OF OFFERING GRADUATE LEVEL NURSING COURSES WHICH WILL TRANSFER TO THE GRADUATE PROGRAMS.

EXPLORE CONSORTIUM ARRANGEMENTS AND SHARED FACULTY APPOINTMENTS AMONG NURSING PROGRAMS TO PROVIDE GRADUATE COURSES FOR STUDENTS WHO CANNOT PARTICIPATE AS RESIDENT STUDENTS.

With the need for additional clinical experience for both students and faculty, as recommended in various parts of this report, the Nursing Project advocates clinical practice prior to admission to graduate school, as stated here:

4

RECOMMENDATION: GRADUATES OF PROFESSIONAL NURSING PROGRAMS BE ENCOURAGED TO HAVE AT LEAST ONE YEAR OF CLINICAL EXPERIENCE BEFORE SEEKING ADMISSION TO A GRADUATE PROGRAM IN NURSING.

Preparation of Faculty for ADN Programs

With a deficiency in qualified faculty having been identified by the Nursing Project as the most critical problem facing nursing education, it is incumbent that graduate programs in nursing move to meet the challenge. As shown above, the production of master's degrees has increased from eight in 1967 to 148 in 1973, but the deficiency remains. Only an estimated 40 to 60 percent of master's degree students plan to teach. The others elect other majors, such as clinical specialties or administration.

The ADN program was conceived to produce highly specialized "technical" nurses or bedside specialists. In the employment setting, this unique identity tends to disappear. The ADN graduate, even if educated as a "technical" nurse, is given additional responsibilities when she accepts employment, usually because she is the best qualified nurse available.

The ADN program is usually located in a community college or small university, draws its students, who are usually older than students in other professional programs, from the geographic service area of the college.

For those who prepare ADM faculty, an awareness of the mission of the community college and the ADN graquate is a necessity; the graduate faculty must realize that teaching in the community college is quite different from the large metropolitan university.

At the present time graduate programs do not appear to emphasize preparation for teaching in specific types of basic nursing programs. It is necessary that graduate programs in nursing, who form the only supply source for ADN faculty, offer a course relating to the particular needs of those who teach in the ADN programs. In order to enrich this experience, practice teaching in an ADN program should be made available to the student.

So that the faculty of ADN and diploma programs may have their needs met in the graduate programs in nursing education, the Nursing Pfoject Council recommends:



RECOMMENDATION:

AS A MEANS OF MEETING CURRENT FACULTY NEEDS, PARTICULARLY IN ASSOCIATE DEGREE AND DIPLOMA NURSING PROGRAMS, GRADUATE PROGRAMS OFFERING A MAJOR IN NURSING EDUCATION SHOULD EMPHASIZE THE DEVELOPMENT OF CLINICAL GENERALISTS WHO HAVE SOME ADDITIONAL PREPARATION IN TWO OR MORE OF THE MAJOR CLINICAL AREAS OF NURSING (MEDICAL, SURGICAL, MATERNAL-CHILD, PSYCHIATRY).

Graduate Education and Leadership Positions in Nursing

The current trend in nursing is for the baccalaureate degree to be the minimum professional requirement for nurses in leadership positions and for the master's degree to be the minimum professional requirement for supervisory and administrative responsibilities, especially in the more sophisticated and complex health care facilities.

The Project staff tabulated the number of degrees held by nurses in each region and recorded the level of those degrees. We identified the number of nurses holding supervisory, administrative, and instructional positions and constructed the chart on page 63 so that we could compare the number of degrees held, by level, in each region with the number of positions requiring those degree levels. While these data display the numbers in each category, we were not able to determine if the persons having the degrees were employed in the positions requiring those degrees.

The chart, therefore, shows only the number of BSN's and MSN's held by nurses, by region, and it also shows the greater number of positions which are filled by nurses who obviously do not have the degree requirement under the current trend.

In addition to illustrating this deficiency of qualifications in positions of greater responsibilities, the chart displays the concentration of the graduate degree nurses in the regions of the state having most of the major health care facilities and population. These same regions also have concentrations of nursing programs whose faculties are included in this tabulation.

Although the Council did not feel that the need for increased preparation of nurses in leadership was the first priority need in the state, the need is severe. It was the belief of the Council that graduate programs should make every effort to increase course offerings in this major area.

Vocational Nursing

One of the fundamental beliefs of the members of the Nursing Project Council was that the quality of nursing care in this state needs to improve in all locations, regions and employment settings. This belief guided the several task forces in their work and was a factor in most of the surveys conducted by the staff.

THE NUMBER AND PERCENT OF BSN AND MSN DEGREE NURSES IN EACH PLANNING REGION COMPARED TO THE NUMBER OF LEADERSHIP POSITIONS REQUIRING THOSE DEGREES 1971 - 1972

		В.	B.S.N.* P		.S.N.* Admin.		Super.		Instruct.		
	•		*	•	*	•	*	•	*	#	%
1.	Panhandle	70	8.06	8	.92	45	5.18	120	13.80	53	6.10
2.	South Plains	62	10.15	3	.49	32	5.24	141	23.08	24	3.93
3.	North Texas	34	7.41	8	1.74	32	6.97	92	20.84	25	5.45
4.	North Central Texas	1150	18.24	115	1.82	298	4.73	943	14.96	265	4.20
5.	North East Texas	32	9.04	3	. 85	24	6.78	105	29.66	26	7.34
6.	East Texas	87	11.85	5	.68	61	8.31	211	28.70	38	5.18
7.	West Central Texas	. 43	8.50	2	.40	35,	6.92	125	24.70	14	2 77
8.	Upper Rio Grande	85	9.82	- 15	1.73	33	3.81	88	10.16	38	4.39
9.	Permian Basin	41	7.88	3	.58	28	5.38	100	19.23	24	4.62
10.	Concho Valley	29	9.51	6	1.97	24	7.87	67	21.97	17	5.57
11.	Central Texas	132	12.43	10	.94	58	5.46	149	14.03	51	4.80
12.	Capítoi	*- 203	16.64	36	2.95	75	6. 15	180	14.75	74	6.07
13.	Brazos Valley	44	18.97	6	2.59	21	9.04	51	21.98	7	3.02
14.	Deep East Texas	31	10.26	2	.66	27	8.94	80	26.49	15	4.97
15.	South East Texas	67	8.77	5	.65	35	4.58	118	15.45	25	3.27
16.	Gulf Coast	1378	20.86	127	1.92	25 8	3.90	865	13.09	285	4.31
17.	Golden Crescent	25	11.96	0	0.00	22	10.53	69	33.01	3	1.44
18.	Alamo	468	17.54	49	1.84	132	4.95	384	14.39	137	5.13
19.	South Texas	23	20.54	3	2.68	12	10.71	13	11.61	10	8. 93
20.	Coastal Bend	71	9.63	5	. 68	41,	5.56	149	20.22	34	4.61
21.	Lower Rio Grande	55	13.58	8	1.98	32	7.90	88	21.73	23	5.68
	# TOTALS ~	4,130		419		1,325		4,138	,	1,188	
are regi	res for BSN's & MSN's the total number in thon, not the number wor in leadership position	k-	4,549	/			\	6,65 1			

6,651 - 4,549 = (2,102)

From this perspective, the Council asserted, through its adoption of most of the preliminary recommendations of the Review and Evaluation Committee, that improvement of quality nursing care would follow upon the improvement of the educational and professional qualifications of nurses. Hence, a great many of the recommendations in this report are directed toward improvement of the educational quality of those now in practice and those who will follow.

The health care system of this state, especially the small rural hospitals owes a tremendous debt of gratitude to the Licensed Vocational Nurse. She was there when no other nurse was available and, without the LVN, the patient care system of Texas would be in a far more desperate condition than it is now.

The LVN, despite her loyalty to patients and to her profession, has not had the opportunity to acquire the knowledge and advanced skills which are required in the professional program. The LVN, in many settings, functions in positions of great responsibility and trust, not because she wants to, but because she has to. There is no one else to "take charge", so she does.

Quality nursing care definitely includes the LVN in the ideal setting, but frees her from the responsibilities for which she was not trained to accept and permits her to devote her talents to the immediate and continuing patient needs, under the supervision of a professional nurse.

In the spirit of this concept, the Nursing Project believes that when professional nurses are increased in all employment settings, when registered nurses are available in rural practice in adequate numbers, then LVN's and RN's will be able to function as they are trained to function.

With the number of active RN's and active LVN's being about the same in number in this state, and with the RN's located more frequently in larger communities and less in smaller communities, the improvement in quality of care is going to require a dramatic change in the employment setting preferences of professional nurses.

We therefore submit, that in the interest of improving the quality of nursing care, the state needs to increase the distribution of RN's to the rural areas, especially to the hospitals and nursing homes, and to accomplish this, in part, by providing professional nurse education availability to LVN's who are qualified to become professional nurses.

The unequal distribution of RN's across the state results in the necessity for vocational nurses to provide the majority of nursing services available in certain geographic areas and in certain job settings. In these locations Lyn's must assume leadership and patient management responsibilities beyond the scope of their educational background. Since it does not appear that these conditions will change significantly in the next few years, there is a definite need to provide these nurses with additional educational experience to assist them in providing quality nursing care. At the same time LVN's need

additional opportunities to further their careers by seeking to become RN's if they choose to do so. Results of the various surveys described in a previous chapter indicate that many LVN's are already enrolled in RN programs and more would participate if they could get college credit for their LVN programs. In order to facilitate this mobility for future graduates of LVN programs the Council submits the following:

RECOMMENDATION:

SCHOOLS OF VOCATIONAL NURSING SHOULD BE PHASED INTO THE PUBLIC EDUCATION SYSTEM, PREFERABLY COMMUNITY COLLEGES, WHEN SUCH TRANSITION WOULD NOT ADVERSELY AFFECT THE REQUIRED SUPPLY OF LVN'S IN SMALL COMMUNITIES.

In order to assist currently employed LVN's who are working in positions as charge nurses or supervisors of nursing personnel, the following recommendations are submitted:

RECOMMENDATION:

AN EDUCATIONAL PROGRAM SHOULD BE DEVELOPED SPECIFICALLY FOR LVN'S TO STRENGTHEN AND UPGRADE CURRENT SKILLS AND TO INSURE COMPETENCIES FOR FUNCTIONS WHICH THE LVN IS COMMONLY REQUIRED TO ASSUME BUT IS NOT ALWAYS PREPARED.

RECOMMENDATION:

CONSIDERATION BE GIVEN TO THE DEVELOPMENT OF THE ABOVE PROGRAM IN SUCH A MANNER THAT THE REQUIRED STANDARDS FOR OBJECTIVES, CONTENT, LENGTH, AND QUALITY OF INSTRUCTION BE ACCEPTABLE AS A STATED AMOUNT OF CREDIT SHOULD THE LVN LATER DECIDE TO ENTER A REGISTERED NURSING PROGRAM. THIS WOULD NECESSITATE THAT SUCH OFFERINGS BE PROVIDED THROUGH OR IN AFFILIATION WITH PROGRAMS OF PROFESSIONAL NURSING

IN ORDER TO INSURE ACCEPTANCE FOR CREDIT.

RECOMMENDATION:

CONTINUING EDUCATION FOR LVN'S SHOULD BE A COOPERATIVE EFFORT AMONG PROGRAMS OF PROFESSIONAL NURSING SCHOOLS, SCHOPLS OF VOCATIONAL NURSING, AND LVN PRACTITIONERS.

NURSING EDUCATION SECTION II

AN ANALYSIS OF THE CURRICULUM OBJECTIVES OF SELECTED PROFESSIONAL NURSING EDUCATION PROGRAMS

The concerns which led to the decision to study the behavioral objectives within the curriculums utilized by professional nursing programs stemmed from two major problems that complicate nursing education and nursing practice:

- 1. The current lack of clearly defined differences in the graduates of the various types of professional nursing programs
- 2. The lack of available information identifying areas of similar content among the curriculums of the various types of programs

The second area is particularly pertinent to nursing educators. Many nurses who have received basic nursing preparation in different types of programs wish to further their professional education. Because there is no consistent method of organizing and presenting nursing content, the curriculum in each school is usually considered somewhat unique. When a student transfers to another program or applies for a higher level program it is often difficult to determine how much credit should be granted. The student frequently must repeat courses which he considers very similar to ones taken earlier, or must take a challenge examination to verify that he has mastered specific content.

In a similar manner, educators develop nursing curriculums in order to prepare nurses to function in specific areas and in different capacities. The ADN graduate is prepared to function in a hospital or similar acute care setting and is primarily intended to work under the supervision of baccalaureate graduates. Because of the distribution problems, this arrangement is seldom possilie. As a result, ADNs are expected to function in all areas and without other direct RN supervision. The problem is made more difficult by the inability of educators to clearly define the specific differences in areas of practice among the graduates of the various types of programs.

In a series of meetings conducted by the Education Task Force and the Education Subcommittee there was extensive discussion on possible ways to determine similarities and differences among programs. The end result of these meetings was agreement to base a study on the behavioral objectives utilized by each school.

The aim of the study was to develop a cataloging system which would allow all objectives from each school to be organized in a similar manner. In this way, similar ejectives could be listed together and compared, regardless of the courses in which they were presented or the year and semester in which they were taught.



Although there were many problems associated with the development of such a system, a tentative approach was designed which would allow information about each objective to be coded and later placed on a tape for computer analysis.

A series of four one-day workshops were held in Austin, Dallas, Houston, and Lubbock to teach faculty members the procedure for coding the objectives utilized by their program. A total of 23 nursing programs participated in the study by coding their objectives as requested by the Project and Sending the completed information to the Nursing Project's office.

The large volume of objectives and the time and expense required for processing made it necessary to utilize a sample of the objectives of participating schools for actual computer analysis. The sample consisted of 2 diploma programs, 7 associate degree programs and 4 baccalaureate programs.

The total number of objectives used in these programs was 12,222. The distribution of number of objectives used by each school is presented below. It is readily apparent that even within the same type of program there is a tremendous variation in the utilization of objectives.

		Dipl.	ADN	BSN
		<u> </u>		
School	#1	1,892	764	3,260
	#2	1,014	1,335	1,359
	#3	·	338	525
	#4		348	452
	#5		885	
TOTAL		2,906	3,720	5,596

This wide variation is partly explained by the fact that some schools write objectives in broad general terms and others are very detailed, often having a separate objective for each step of learning related to a specific topic. If objectives are used as a basis for evaluation of student learning and performance, the more specific they are, the easier it is to provide the student with a clear understanding of his level of achievement in comparison with expectations.

In an effort to determine how the various programs dealt with a particular subject, the final coding system provided a mechanism which could determine, to some extent, the breadth and depth with which a subject was presented. This could be done by determining 1) how many objectives within a program dealt with the same topic and 2) what level of knowledge was involved. The underlying assumption was that the more objectives dealing with one subject, the more the student was expected to know about it. The "level of knowledge" was based on the complexity of intellectual functioning required by the student in order to achieve the objective. For example, simple tasks of memorization such as "list the symptoms of diabetes" require less of the student than complex skills

auch as comparison, contrast or evaluation. By using an analysis of this type it could be demonstrated that although the topics studied might be the same from one program to another, there could still be a significant difference in the end product of the various programs.

Findings of the Study

As expected, the analysis of objectives indicated that different types of programs place greater emphasis on different areas within the curriculum. The chart below demonstrates some of these differences.

MAJOR TOPIC BY TYPE OF PROGRAM AND PERCENT OF OBJECTIVES DEALING WITH EACH TOPIC

	Dipl.	ADN	<u>BSN</u>
Physiology	45.6%	49.7%	37.5%
Psycho-Social `	8.7%	9.2%	17.4%
Cognitive Nursing Skills (Assessment, observation, planning evaluation)	. 11.2%	9.5%	15. 1%
Manipulative Nursing Skills (Procedural techniques and treatments)	14.2%	24.1%	12.9%
Nursing as a Profession	13.3%	3.4%	9.4%
The Health System	6.8%	3.7%	7.7%
TOTALS*	99.8%	99.6%	100.0%

The baccalaureate programs are known to emphasize the psycho-social aspects of health care and this is apparent, with 17.4 percent of the objectives related to this topic. Similarly, ADN programs are known to emphasize procedures and this is shown by 24.1 percent of objectives in the ADN curriculum related to techniques. Some unexpected findings indicate that, although the baccalaureate programs are intended to prepare "professional" practitioners, the diploma programs apparently place a greater emphasis on this particular area. Also, while many people have felt that the diploma graduate receives a greater emphasis on manipulative skills, the analysis of objectives show them to be very close in degree of curriculum emphasis.

This study of curriculum objectives has shown that the objectives taught in any program in nursing are determined by the particular nursing faculty and the director. We do not have in this state a stated list of curriculum objectives that applies uniformly to all programs.

Within nursing programs of the same type there is also a considerable variation of topic emphasis as demonstrated in the chart on the following page.

The first two columns do not total 100% because of rounding of decimals.



PERCENT OF EMPHASIS ON SELECTED TOPICS

	<u>Dipl</u> Scho				ADN Schoo				<u>BS</u> Scho	N 101s	
·	#1	#2	#1	#2	#3	#4	# 5	#1	#2	#3	#4
Physiology	41.5	53.4	41.2	52.1	42.8	34.9	64.6	46.1	34.3	13.4	9.2
Psycho-Social	10.8	4.9	10.2	6.4	16.0	17.3	4.0	18.4	21.3	7.0	8.9
Cognitive Skills	12.7	8.4	11.9	6.2	10.1	11.2	8.5	12.0	12.8	36.4	22.0
Manipulative Skills	15.7	11.5	28.4	29.2	22.2	26.2	16.9	11.0	11.0	10.4	39.9
Nursing as Profession	12.4	15.1	4.8	2.5	1.5	5.8	2.8	5.1	10.4	25.6	12.3
The Health System	6.9	6.7	3.4	3.7	7.5	4.6	3.2	6.5	10.3	7.2	7.6
TOTAL	100.0	100.0	100.1	100.0	99.9	100.1	100.0	100.1	100.1	100.0	99.9

For example, of the two diploma programs in the sample, one has almost twice as much emphasis on psycho-social aspects of nursing as the other. The same wide variation is also apparent in the other types of programs, with figures ranging from a low of 4.0 percent to a high of 17.3 percent in the ADN sample and 7.0 percent to 21.3 percent in BSN programs.

In looking at all types of programs, the range of differences can be startling. ADN school #3 devotes 1.5 percent of its objectives to "Nursing as a Profession" while BSN program #3 has 25.6 percent.

By analyzing the objectives of a particular program in the manner used by this study, it is possible to identify areas of emphasis in a curriculum that may not have been apparent when the program is viewed as a whole. Such an analysis would be useful to curriculum planners to ensure that there is an appropriate balance and that the total design is what the faculty intended it to be.

Since many objectives utilize more than one subject, it became eveident that there was a need to identify the ways in which subjects were combined if true similarities of content could be identified. For example, it is possible for two schools to each have 3 objectives related to diabetes without having any one objective common to both programs. This is demonstrated as follows:

School #1

- 1. List the symptoms of diabetes.
- 2. Name 2 types of insulin used to treat diabetes.
- 3. Define <u>diabetes insipidus</u> and <u>diabetes mellitus</u>.

School #2

- 1. Develop a nursing care plan for a patient with diabetes.
- 2. Explain the physiology of diabetic retinopathy.
- 3. Compare the symptoms of insulin shock and <u>diabetic</u> coma.

In the example given above, the demands or the student in School #1 are minimal, requiring simple memorization of a few basic facts. In School #2 the student is required to understand more complex knowledge in order to explain and compare and is also required to show how his knowledge can be put to use in a specific situation. In all these instances "diabetes" is the central subject but is used with other subjects as well. In order to identify that objectives were more similar



80 79

than having one word in common the coding system assigned a unique number to more than 1,200 subjects, 70 verbs, and 240 adjectives and modifiers. With this system the above objectives could have been coded as follows:

		Scho	ol #1	<u> </u>
	Verb	Modifier	Subj. #1	Subj.#2
1.	2 List	126 symptoms	376 diabetes	
21	3 Name	175 types	342 insulin	376 diabetes
3.	4 Define		463 diabetes insipidus	

-	=	Schoo	01 #2	
	Verb	Modifier	Subj.#1	Subj.#2
1.	36 Develop	275 careplan	376 diabetes	
2.	5 Explain	146 physiol.	376 diabetes	934 retinop.
3.	8 Compare	126 sympt.	376 diabetes	426 shock
3.	8 Compare	126 sympt.		

In this manner it was readily apparent by looking at the code numbers that while each school had three objectives related to diabetes, they were not the same by any means. Only the number 376 was common. It became far more important to identify objectives that had two subjects in common in order to identify the similarities in curriculum content.

The use of the term "subject pairs" refers to an objective that includes two of the subjects from the more than 1,200 coded. Any two objectives that use two of the subjects in the list are considered to be similar in content. For example, in the following two objectives the common subjects are underlined.

- 1. Knows the <u>principles</u> of good <u>body mechanics</u>.
- 2. Demonstrates <u>principles</u> of <u>body mechanics</u> when giving patient care.

 Another example is as follows:
 - 1. List the classifications of <u>drugs</u> used in the treatment of <u>cancer</u>.
 - 2. What is the <u>drug</u> most frequently used in the treatment of <u>cancer</u> of the bone?

Although the objectives are not identical, the fact that they include two of the same subject words increases the probability that they are closely related.

The analysis of objectives based on common subject pairs revealed that 172 pairs were common togall three types of programs, 184 additional pairs were common to ADN and BSN, 165 common to diploma and BSN programs and 103 pairs common to diploma and ADN, as shown here.

	BSN Dip ADN	BSN ADN	Dip BSN	Dip ADN	•	
Number of common subject pairs Number of objectives involved	172 2,033	184 725	165 676	103 325	/71	. •

Since common subject pairs might have a variable number of objectives with different verbs and modifiers, a frequency distribution was prepared to show the number of times subject pairs had 2 or more related objectives. The following chart indicates the findings for the combinations of nursing programs.

In the comparison of objectives that were common to all three types of programs, T7 different subject pairs (10 percent of all subject pairs) had three objectives for each subject pair. Looking further down the chart it is shown that five subject pairs had 19 objectives each and one subject pair had as many as 73 objectives which included the same two terms. The more objectives there are with each subject pair, the greater the emphasis of those subjects in the curriculum.

NUMBER OF SUBJECT PAIRS

No. of Objectives		DN BSN i %	AD BS		Di BS	p SN %	Di At	p IN %
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 29 30 31 37 41 42	12 77 58 1 23 4 5 -1 4 -3 1 1	- 10 13 12 5 2 6 7 7 4 4 3 5 - 1 2 2 3 - 0.5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	73 41 20 20 9 7 5 2 1 3	39 22 11 1 5 1 0.5 0.5 0.5 0.5	70 28 24 15 2 3 2 3 1	42 17 15 9 1 2 1 2 1 2 1 0.6	47 23 14 8 4 2 1	46 22 13
43 57 73	1	0.5	1	i 0.5 i, i		! ! !		

In cases where a subject pair had an unusually large number of objectives, such as the pair with 73 objectives in the three-program comparison, the subjects were general terms such as "patients" or "nursing care". The greatest percentage of subject pairs had between two and five objectives per pair.

The verbs used in each objective give an idea of what is expected of the student. Verbs which require memorization of facts require less knowledge and ability than verbs which require an understanding of how the facts relate to situations and how facts are applied. When the objectives were coded for computer analysis they were grouped into various levels, with level one being considered the simplest and seven the most complex. the following chart gives examples of each level.

Level #1 - cite, name, list, state, memorize

-bevel #2 - identify, diagram, match

Level #3 - define, describe, explain, interpret

Level #4 - anticipate, plan

Level #5 - adapt, modify, adjust, calculate, solve

Level #6 - analyze, compare, differentiate

Level #7 - evaluate

Theoretically one would expect objectives dealing with a particular subject to increase in complexity throughout the course or curriculum. One would also expect that the longer the program, the more opportunity to deal with more subjects at a complex level. This is not strongly substantiated by the data. Two possible explanations are suggested. Either there is a minimum of difference among the various programs in the complexity of subject matter in certain areas, or objectives are not carefully designed to demonstrate such progression of complexity.

The following charts illustrate the levels of objectives common to the various types of programs. Of all the objectives common to all three types of programs, 409 were classified as Level 1. Of these, 148 were in ADN programs, 114 in diploma programs and 409 in baccalaureate programs.

There were a number of objectives not classified by level as the statement did not use verbs reflecting any particular category of knowledge level expec ad of the student. This figure is indicated by percent in Column 8.

LEVELS OF SIMILAR OBJECTIVES COMMON TO ALL THREE TYPES OF PROGRAMS

FEAEF		2	3	4.5	1 5	4.5	-7		0 3	TOTAL
ADN	148 23.1	138 21.5	167 26.1	5 .8	29 4.5	25 3.9	8 1.3	117 18.3	3 .6	641 100.0
DIP								111 21.9		
BSM	147 26-6	83 9.4	428 48.4	4 .5	` 3 .3	52 5.9	16 1.8	146 16.5	6 .7	885 100.0
ALL PRO-	409 29.8	314 15.5	731 35.9	.17 .8	37 1.8	96 4.8	40 1.9	374 10.4	12 .6	2033 100.0

For all three types of programs, the majority of objectives fell in levels 1-3 and relatively few appeared designed to evaluate the more complex levels of professional knowledge and performance. The BSN programs had a greater percentage of objectives at higher levels primarily due to the large number in level 3. Unexpectedly, the diploma programs showed a greater percentage in levels 4, 5, and 7 although the difference was not great.

Although the ADN programs state that their curriculum is limited in scope but unlimited in depth, the analysis of objectives does not particularly support this statement. It was found that ADN programs cover-almost as many topics as each of the other two program types but with fewer objectives for each topic.

KNOWLEDGE LEVEL OF OBJECTIVES COMMON TO DIPL.-ADN, DIPL.-BSN, ADN-BSN

LEVEL		1		2		3	4	1		5	(5 .		7
	#	<u> </u>	#	<u> </u>	#_	3	#	<u> </u>	#	<u> </u>	#		1	<u> </u>
DIP	44	27.2	, 26	16	29	17.9	2	1.2	1	.6	3	1.9	9	5.6
ADN	38	23.3	46	28.2	32	19.6	5	3.0	6	3.7	1	.6	3	1.8
TOTAL	82	25.2	72	22.1	61	18.7	7	2.2	7	2.2	4	1.2	12	3.7
LEVEL	_	1		2		3 x		4	!	5	-	6		7
	#	<u> </u>	#		#	<u> </u>	#	<u> </u>	#	<u>x</u>	#	<u> </u>	#	<u> </u>
DIP	/74	26.3	57	20.2	67	23.8	4	1.42	1	. 4	12	4.3	8	2.8
						48.8								
TOTAL	130	19.2	117	17.3	260	38.5	5	. 74	4	.6	35	5.2	19	2.8
LEVEL		1 ,,		2 _		3 %		4 _		5 ~		6		7`~
ADN	58	21.0	59	21.4	70	25.4	_ 7	2.5	4	1.5	15	5.4	0	-
BSN	75	16.8	44	9.8	206	46.0	6	1.3	3	.7	17	3.8	14	3.1
TOTAL	134	18.5	103	14.2	276	38.0	13	1.8	7	9	32	4.4	14	1.9

Since the three types of professional programs vary in length from 2-4 years, there has been much discussion among educators and practitioners concerning the particular time subject matter is introduced in a curriculum and ways of granting credit for the same content which is offered at different levels. For example, in ADN programs, fundamental skills, such as taking temperature and blood pressure, are taught in the first year. In BSN programs students are often not admitted to nursing courses until their junior year. When they learn to take vital signs they receive lower division credit.

Once the similar objectives were identified for the various contributions of programs they were analyzed to determine how many were offered in each semester of the program. Findings indicate that in most instances the majority of similar objectives are introduced during the first two semesters that students are enrolled in nursing courses. The differences in programs appear to the idea that basic knowledge is similar in the early part of all programs and would justify a ladder concept which would grant a designated amount of credit in transfer situations. We therefore submit that if all programs taught the content that is similar in the same sequence and stressed differences later in the program a multiple entry and exit curriculum would be feasible and would promote upward career mobility for those who desire to further their educational preparation.

The charts indicating time of introduction of similar objectives are shown below. Since diploma students spend their first year taking non-nursing courses, the majority of their similar objectives appear in the first and second semesters of the second year. The ADN students begin nursing courses immediately and their similar objectives are taught primarily in the first two semesters of the first year. BSN programs show the greatest percentage in the third year.

THE YEAR AND SEMESTER THAT OBJECTIVES COMMON TO THE THREE TYPES OF PROFESSIONAL NURSING PROGRAMS ARE INTRODUCED* **

YR. SEM.	,) %		1 2 <u>x</u>	3	<u>.</u>		1 5		2 -	3	ì		1 1		2 %		3 	<u> </u>	*		7	, 3 x	тот	AL T
ADN "	207	32	221	35	13	i	102	16	43	7	53	8					!					•		639	100
DIP	22	4	1	-	0,	•	104	21	191	39	0	•	105	21;	26	5	46	9 (•		, , ,		495	100
BSM	5	1	0	-	₩	•	82	9	105	12	58	7	231	26	181	21	43	5	147	17	24	3 ,		87 6	100
TOTAL	234		222	1	13		288	,	339		111	- 1	336	•	207		89		147	i	24	•		2010	100

^{*}Percentages may total more than 100 due to rounding of decimals:

THE YEAR AND SEMESTER THAT OBJECTIVES COMMON TO THE ADN AND BSN PROGRAMS ARE INTRODUCED*

YR. SEM.) <u>\$</u>	1	,	1 2 %	1	3		,	1 %		2 /	! #	3 5		1,	! !	3 2	ا و ا	3		" 1	!	4 2 1	3.	TOTAL . S
AUK	5/	- 3 1.1		74	34.Z	:	1 (•3	50	18.2	! 19	6.9	24	8.7	1				ı				:			275 100
BSN	1	• .	2	1	+	•	Ď	-	32	7.2	1 36	8.1	21	4.7	116	26.0	105	23.6	 14 °	3.2	107	24.0	13	2.9		445 100
01.	86	12.2	! 1 5	94	13.0	1	١.	. 1	82	11.4	1 55	7.6	45	6.3	1110	16.1	1 105	14.6	114	1.9	107	14.8	13	1.81	ł	720 1 00

^{*} five objectives not included due to incomplete coding

^{**23} objectives not included due to incomplete coding

THE YEAR AND SEMESTER THAT OBJECTIVES COMMON TO THE DIPLOMA AND BSN PROGRAMS ARE INTRODUCED*

YR. SEM.	•	1		1 2 3	; i <u>•</u>	3 2	•	1 ;	•	2 1		3 <u>*</u>		1 x		3 2 <u>7</u>		3 🕱	•	1 2	4 2	7	1 3 1 #		T01	AL
DIP	13	4.7	0	-	. 0	-	70	25.2	80	28.8	0	•	57	20.6	31	11.2	26	9.4			.		1	2	277	100
BSN	6	٠.5	0	•		-	29	7.4	36	9.6	14	3.5	89	22.6	60	15.2	15	3.8	105	26.7	36 !	9.6		3	94	100
TOTAL	19	2.8	0	-	. 0	-	99	14.811	18	17.6	14	2.0	146	2.18	i 91	13.6	41	6.1	105	15.6	I 38 !	5.7	i	6	571 1	100

*five objectives not included due to incomplete coding

THE YEAR AND SEMESTER THAT OBJECTIVES COMMON TO THE DIPLOMA AND ADN PROGRAMS ARE INTRODUCED*

YR. SEH. Dip. ADN		1 7	1	1 2	1,0	3 		1 5	1	2 2	1	3 x		1	! .	3 2	١,	3	TOTAL	
Olp.	7	4	10	0	l _o	0	36	23	58	37	1 0	0	28	18	3	2	25	16	157	100%
ADN TOTAL	31	19	55	34	١٥	0	33	20	27	17	17	10	-	-	-	ا	_	-	163	100%
I I	38	12	55	17	10	0	69	22	1 85	27	17	5	28	•	1 3	1	25	8	320	1001

* five objectives not included due to incomplete coding

Although limitations of time and resources prevented the Project from accomplishing all that was intended in the study of objectives, it did result in identification of the problems which prevent the effective utilization of objectives. As a result, adoption of a more uniform approach to the writing of objectives, with consideration given to development of knowledge at various levels, would provide a helpful approach to the development of nursing curriculums and would allow easier differentiation of skills and abilities among the various types of programs.

During the course of working with large numbers of objectives prepared by many different individuals, it became apparent that if everyone would follow some basic rules when writing objectives it would be possible to better utilize them for purposes of evaluating courses for transfer of credit and evaluating student performance. In addition, a future study such as this one could be conducted with a much higher degree of reliability. Some suggestions which would have improved the quality of the data are:

- 1. Objectives should be brief and concise and should be limited to the achievement of a specific goal. When subjects are too broad or several subjects or goals are combined, it complicates the evaluation of the achievement of the objectives.
- 2. When objectives require students to "list symptoms" or "describe factors" or "know the contributions of individuals in nursing history" the objectives should state a specific number. Without such a clarification, the student is unable to determine what is satisfactory performance and What is not. In addition, comparisons between programs are difficult. "List three symptoms" or "Describe the contribution of ten individuals" eliminates these difficulties.

- Terms such as "knows", "understands", "appreciates" and "become acquainted with" should be avoided since they are vague and difficult to evaluate.
- 4. Objectives dealing with a particular subject in which the student is expected to become increasingly competent should be developed with increasing levels of complexity throughout the curriculum. Too often the majority of objectives for senior students in all types of programs are still at a low level of "list" and "define" rather than "contrast", "develop", "interpret" or "evaluate". Objectives dealing with a single subject should show evidence of progression from a simple to complex requirement of the student.
- 5. Too few curriculum objectives are directed toward clinical experience. Being able to list the symptoms of congestive heart failure and being able to recognize that a patient is going into congestive heart failure may be quite different. A student may appear to know the theory of a subject but be unable to apply it.
- 6. A number of objectives were stated in general terms that did not specify what was expected of the student. For example, one states: "Provide nursing care to patients who have disturbances of orientation." An objective of this nature does not distinguish the differences in care expected from the student as opposed to the aide. It does not indicate that the student is supposed to deal with disorientation in any specific manner. An alternative statement could have been: "When caring for a patient with a disturbance of orientation, the student initiates measures to 1) insure safety and 2) assist in establishing or maintaining contact with reality.
- 7. Various topics were treated unevenly both within a single program and among the different types of programs. A relatively broad topic would be covered with one or two very general objectives while a seemingly minor subject might have as many as 10 or 15. This makes it difficult to determine exactly what is taught and what degree of importance is attached to various subjects.

The Limitations of the Study of Curriculum Objectives

A study involving analysis of over 12,000 objectives taught by 11 schools and written by an unknown number of faculty members presents difficulties from the beginning.

As mentioned earlier, the lack of a uniform approach to writing objectives made it difficult to design a coding system which could convey the exact meaning of all objectives. However, after receiving the materials from the schools, they were checked for accuracy of coding. All objectives re-

ceived additional coding by two Nursing Project staff members. Since this coding was used extensively in the computer analysis the fact that it was done by the same two people insures consistency of application of the process.

Some of the limitations of the study are related to the use of objectives by the schools. Prior to the beginning of the study questions were raised concerning whether or not it was possible to know if a school actually mastered the majority of stated objectives. Since we had no way of measuring student achievement or of faculty implementation, the Education Task Force made the decision to work on the underlying assumption that schools do implement their written objectives.

The limitations of time and staff made it impossible for the Nursing Project to do as much analysis of the data as would have been desirable. Despite this, the resulting information appears to point out similarities in programs that could be useful in developing and evaluating nursing curriculums that would facilitate transfer of credit and career mobility.

Despite these limitations, the analysis of curriculum objectives made a significant contribution to the work of the Review and Evaluation Committee, and to the entire Nursing Project. The findings of the analysis were studied by the Committee and had an influence on their recommendations to increase clinical experience for nursing students. For example, the level of emphasis on manipulative nursing skills, as shown by the analysis, was considered inadequate and the Committee supported increased clinical emphasis on the basis that this was the appropriate way to improve those skills. This influence is applied in the recommendations on clinical experience found elsewhere in this report. The need for additional clinical emphasis was also supported by survey returns from practicing RN's and senior nursing students.

Shown below are the lists of information coded by the participating nursing programs and the items that were coded by the staff.

TYPE OF INFORMATION ACQUIRED ON EACH INDIVIDUAL BEHAVIORAL OBJECTIVE

Coded by School Faculty Members Major Topic (32)*
 Body System (11)
 Age Group (9)
 Nursing Action Required (10)
 Clinical Setting Associated with the Objective (9)
 Type of Objective (4)
 Year and Semester Introduced (3) *
 Year and Semester Achievement Expected (3)
 Essential to Pass the Course (2)

Coded by CBNP Staff 10. Action Term (71)/(50)****
11. Modifiers (254)/(187)
12. Subject #1 (1273)/(929)
13. Subject #2 (1273)/(929)

*Number of categories within the variable

**Number of item groups resulting from the "synonym" process

CHAPTER V

THE REGIONAL PERSPECTIVE: PROJECTIONS AND RECOMMENDATIONS

Having followed the regional format in collecting and analyzing the data for the Nursing Project, we have prepared a report on each planning region to provide assistance to those who will use this report in planning at the regional level. We have included several types of data and information for this purpose, along with the recommendations.

In Attachment A, we have provided additional statistical data on each planning region which can be used with the descriptive information for each region and which is fundamental to the regional recommendations.

The enrollment data which are presented in the the regional reports include the enrollment as reported by the programs in nursing. Several of the programs offering the baccalaureate degree in nursing reported freshmen and sophomores and they are included in the totals presented on the following pages.

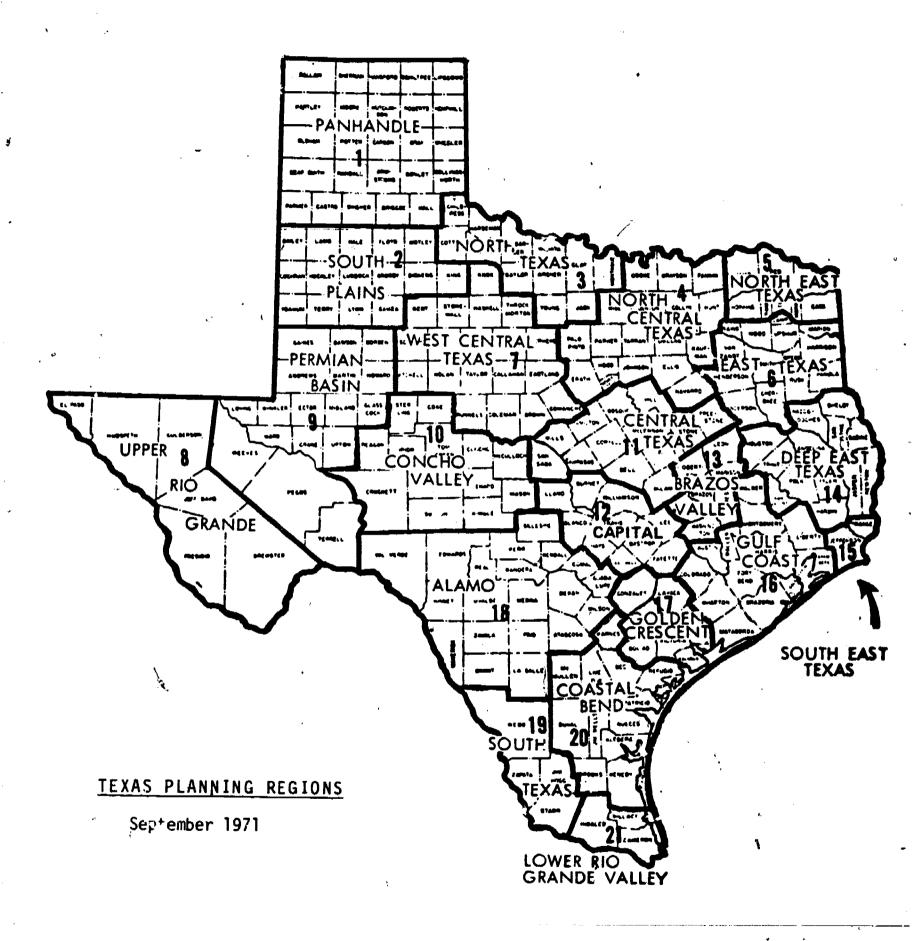
In order to simplify the identification of nursing students in the final year of the nursing program, we have used the word "senior" to mean any student in the final year of the program. As used here it refers to second year ADN students, third year diploma program students, and fourth year students in the baccalaureate program.

As shown on the regional charts in this chapter, the number of RN's employed in 1972-73 is the full-time equivalent number which is less than the total number of active RN's shown in Attachment A. The FTE number employed in 1972-73 will obviously be reduced by 1980. The number to be added by 1980 includes an increase to compensate for those who will no longer be on active status by 1980. The total number of RN's needed by 1980 is therefore not the sum of those currently employed and the additional number needed.

The Full-Time Equivalent (FTE) number of RN's used in the regional compilations and throughout this report was computed by adding all the full-time RN's and 50 percent of those employed part-time, plus 50 percent of those reported as active but not indicating the number of nours per week that they were employed. The same process was used to determine the FTE-LVN ratios. The following example illustrates the process:

Activity Levels	Active	FTE-RN's
Full-time	50 0	500
15-30 hours per week	110	, <u>55</u>
Less than 15 hours per week	50	25
Incomplete	6	3
TOTALS	666	583

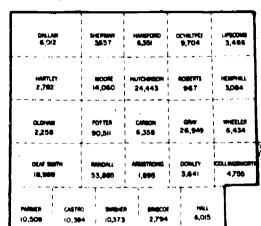






Projected Population *

1970 330,321 1980 362,800 1990 395,000 County Population: 1970



Selected Regional Statistics

FTE-RN's

Employed in 1972-73: 778

Need to add by 1980: 481

Total RN's needed by 1980: 1,117

Ratio RN's/100,000 in 1973: 236
Ratio RN's/100,000 by 1980: 308

LVN Data
Active LVN's in 1972: 837

Ratio LVN's/100,000 in 1972:

Number of LVN programs:

RN Educational Information, 1973

Type <u>Program</u>	No.	Enroll.	No. of Seniors
BSN	1	343	14
ADN	1	127	52
Dip.	1	316	84
TOTAL	3	786	150

Hospit 1 and Nursing Home Information

249

Institution	No.	Beds		Nurses LVN'	Ratios t RN's	o Beds of LVN's
Hospitals	23	1,755	568	557	1 to 3	1 to 3
Nursing Homes	30	1,797	. 38	124	1 to 47	1 to 14

In 1970, Region I had total population of nearly one-third of a million, and almost half (43.7%) was in Potter and Randall counties. This concentration of population results in an unequal urban-rural distribution which is characteristic of the entire state.

The 152 RN's needed in hospitals under the optimum ratios include 113 for the rural areas. Of the 86 RN's needed in nursing homes, 54 are needed in the rural areas.

^{*}All population projections are from <u>Population Project ons for Texas Counties</u>: 1975-1990, Population Research Center, University of Texas at Austin.

In the chart on the previous page, the region has one RN for each 47 nursing home beds. In the urban areas, the ratio is one to 37 beds and one to 62 beds in the rural areas.

There are three professional nurse programs in the region: a BSN program at West Texas State University in Canyon, an ADN program at Amarillo College, and a diploma program at Northwest Texas Hospital. In 1973, the combined enrollments in these programs totaled 786 students and 150 of them were seniors.

The region has done an excellent job in meeting its nurse needs and its 236 FTE-RN's per 100,000 population is among the best in the state. Should the existing programs continue to be as productive of graduates as they have been in recent years, the region will exceed the optimum ratios of the Nursing Project by 1980 and employment opportunities for the graduates within the region could become limited. The projections show that there will be an excess of 624 RN's in the region unless adjustments are made in enrollments.

There are eight LVN programs, one of them at Amarillo College with 70 students enrolled in 1973.

For the foreseeable future, Pegion I will experience an improvement toward meeting the optimum ratios in the urban areas and can concentrate on meeting the rural nurse needs.

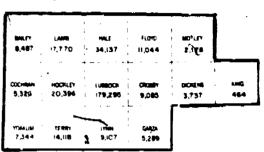
The geographic distance to existing graduate programs in nursing has required the region's nursing representatives to negotiate for the importing of graduate courses for faculty improvement. Under the recommendations for education in this report, this effort will be reinforced and structured for other regions having the same need.

So that Region I may continue to move toward meeting the optimum ratios of the Project, these recommendations are submitted:

- 1. The initiation of the multiple entry and exit curriculum be considered among a consortium of the several nursing programs which would allow qualified students the option of exiting at the LVN, ADN, or BSN level.
- The total enrollment of professional and vocational nursing programs be adjusted to produce the numbers of graduates needed and to prevent an oversupply.

REGION II: SOUTH PLAINS

County Population: 1970



Projected Population 1970 327,777

1980 418,300 1990 456,300

Selected Regional Statistics

◆ FTE-RN's

Employed in 1972-73: 561
Need to add by 1980: 1,197

Total RN's needed by 1980: 1,648

Ratio RN's/100,000 in 1973: 171
Ratio RN's/100,000 by 1980: 394

RN Educational Information, 1973

Type Program	No.	Enroll.	No. of Seniors
BSN	-	•	_
ADN	_	-	-
Dip.	1	125	73
TOTAL	1	125	73

LVN Data

Active LVN's in 1972: 1,033
Ratio LVN's/100,000 in 1972: 307
Number of LVN programs: 5

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's		o Beds of LVN's
Hospi tals	26	2,106	392	676	1 to 5	1 to 3
Nursing Homes	` 32	1,926	22	1116	1 to 87	1 to 17

In 1970, over half (54.7%) of the nearly one-third of a million population of Region II was in Lubbock County. As show, in the projections listed above, the region is expected to have substantial increase in population through 1990.

Lubbock is a major educational and medical center for the high plains: Texas Tech University and Texas Tech University School of Medicine are located there. The only local supply source for professional nurses is the diploma program at Methodist Hospital in Lubbock. Enrollment in the Fall of 1973 was 125 students and 73 were seniors.

As shown in the data charts given above, the FTE-RN ratio to population is 171 per 100,000 which ranks eleventh among the 21 regions. Data from relicensure cards indicate that most of the RN's in the region are diploma graduates.

Projections of the Nursing Project indicate that a substantial increase in number of RN's in Region II must be made for the optimum ratios to be met. As given on the data tables on the preceding page, a net increase of 1,087 RN's is needed in the urban hospitals and in all nursing homes. Many of the rural counties in Region II are projected to decline in population and the RN need will be greater in the urban areas.

Throughout the region, nursing care in hospitals is dominated by LVN's where the ratio is one LVN to every three beds. As depicted above, there is one RN for every five hospital beds. The nursing home ratios are also well below the optimum levels.

The region has minimal educational opportunities for those selecting nursing as a career. There are five LVN programs in the region including one at South Plains College (Levelland) and two others are in the public school districts of Lubbock and Plainview. In 1973, these three programs had total enrollments of 133 students. The remaining two programs are in hospitals.

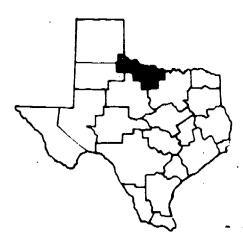
Region II is faced with an adverse ratio of RN's to LVN's and, under existing circumstances this condition is not going to improve enough to meet the optimum level of professional nurses. At the current rate of producing professional nurses, the region will be 621 RN's short of the optimum level by 1980.

So that Region II can move toward early improvement of its deficiency of registered nurses and achieve the optimum levels supported by the Nursing Project, we recommend:

- The initiation of a multiple entry and exit baccalaureate nursing program in Lubbock. The program should not be initiated prior to 1976 and only if faculty and student recruitment would not adversely affect existing programs.
- 2. Educators in the region should explore the offering of baccalaureate nursing courses in Lubbock through cooperative arrangements with existing schools of nursing until the Lubbock program is in operation.

REGION III: NORTH TEXAS

County Population: 1970



Projected Population 1970 212,528 1980 212,400 1990 212,400

6,795 5,221

Selected Regional Statistics

FTE-RN's

410 **Employed in 1972-73:** 549 Need to add by 1980:

858 Total .N's needed by 1980:

193 Ratio RN's/100,000 in 1973: 404 Ratio RN's/100,000 by 1980:

RN Educational Information, 1973

Type <u>Program</u>	No.	Enroll.	No. of Seniors
BSN	_	-	-
ADN	1	134	60 -
Dip.	. .	•	-
TOTAL	1	134	60

LVN Data

Active LVN's in 1972: Ratio LVN's/100,000 in 1972: Number of LVN programs:

Hospital and Nursing Home Information

Institution	No.	Beds	Staff RN's	Nurses Lvn's		to Beds of
Hospftals	18	1,290	310	427	1 to 4	1 to 3
Nursing Homes	36	2,669	24	145	1 to 11	1 to 18

The 12 counties which make up Region III are located along the upper Red River and over 57 percent of the 1970 population of 212,528 was located in Wichita Official projections show virtually no change in total population to 1990. County.

The 410 FTE-RN's is made up of 459 nurses who work full or part-time. The 193 RN's per 100.000 population is tenth among the 21 regions.

The optimum levels of RN's recommended by the Nursing Project would require that 138 RN's be produced for the region beyond those currently projected through the existing supply pattern.

About 50 percent of the need for RN's under the optimum levels is in rural hospitals and 37 percent of the need is in nursing homes in Wichita County. The ratio of one RN to every 111 nursing home beds is far below the level of 1 to 15 recommended by the Project.

There is one professional nurse program in the region, a two-year ADN program at Midwestern University in Wichtta Falls. The enrollment in the fall of 1973 was 134 students and 60 were seniors. Approximately 67 percent of the RN's in the region were reported as having no degree. At the present time, courses leading toward the baccalaureate degree in nursing are not available within the region.

There are eight LVN programs in the region, including one at Vernon Regional Junior College. Enrollment in 1973 was 34 students.

With a stable population, the existing ADN program can produce the required number of professional nurses through a modest increase in enrollment. In order to provide the optimum level of RN's and improve educational opportunity for professional nurses within the region, the Project recommends:

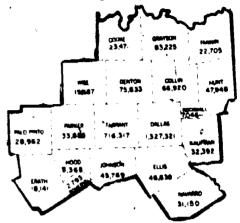
- 1. The existing ADN program increase its enrollment by twenty percent.
- 2. The educators in the region consider implementation of the multiple entry and exit curriculum, to be initiated after 1976, contingent upon the effect this would have on faculty and enrollment in the existing programs.

REGION IV: NORTH CENTRAL TEXAS

Projected Populacion

1970 2,636,374 3,147,300 1980 3,802,700 1990

County Population: 1970



Selectèd Regional Statistics

FTE-RN's

5.565 Employed in 1972-73: 5,398 Need to add by 1980: 9,819 Total RN' needed by 1980:

211 Ratio RN's/100,000 in 1973: 312 Ratio RN's/100,000 by 1980:

RN Educational Information, 1973

Type <u>Program</u>	<u>No</u> .	Enroll.	No. of Seniors
BSN ADN	5 5	3,057 794	479 332
Dip.		-	-
TOTAL	10	.3,856	811

LVN Data

6,108 Active LVN's in 1972: Ratio LVN's/100,000 in 1972: 24 Number of LVN programs:

Mospital and ursing Home Information

	_ ,					
Institution	No.	Beds		Nurses LVN's		o Beds of LVN's
Hospi tals	97	11,948	4,025	3,758	1 to 3	1 to 3.1
Nursing Homes	169 /	ካ5,982)227	1,050	1 to 10	11 to 15

The most heavily populated region in the state, Region IV has 19 counties and in 1970, Dallas County had half of the region's population of over 2.6 million. The concentration of population in this region is projected to continue to increase to 1990, with over a million increase from 1970 to 1990.

The Dallas-Fort North area has extensive and varied medical fácilities and educational programs at all levels. The 97 hospitals employ over 4,000 professional nurses and almost 4,000 LVM's. Of the 97 hospitals, 65 are in Dallas and Tarrant Counties and five of them have over 500 beds each.



Existing ratios of RN's to beds in hospitals are close to the optimum levels recommended by the Nursing Project but well below the level recommended for nursing homes. About three out of every five RN's employed in the region work in hospitals.

The FTE-RN ratio of 211 to 100,000 population is sixth in rank among the 21 regions and under optimum levels, should increase to 312 per 100,000 by 1980. Under the existing supply pattern for professional nurses, the region would be short of the optimum level by over 1,200 RN's by 1980. Bespite this potential shortage under optimum levels, Region IV is in better condition in availability of RN's than most other regions of the state. Dallas County in particular is a popular location named by many nursing students as their preference to begin practice.

There are extensive nursing education facilities and programs of all types in the region. These include, at the baccalaureate level, Baylor University, Dallas Baptist University, and Texas Christian University, all privately supported. In addition to these three private programs, there are two publicly supported baccalaureate programs at Texas Woman's University (Dallas Center) and The University of Texas at Fort Worth. There are four ADN programs in the region at Dallas County Community College (El Centro Campus), at Cooke County Junior College, Grayson County Junior College, and Tarrant County Junior College (South Campus). Enrollments for these programs are shown on the charts above. A fifth ADN program was approved in November, 1974, for Southwestern Union/College at Keene, Texas.

In addition to these professional nurse programs, there are some 24 LVN programs in the region with several in community colleges and public school districts. In 1973, there were 23 enrolled at El Centro College and 34 at Grayson County Junior College.

Despite the wealth of nursing programs concentrated in the Dallas-Fort Worth area, the region contains outlying rural areas which have need for more RN's in rural hospitals and nursing homes. Some of these rural areas are sharply deficient in adequate clinical facilities for the education of professional nurses and have not benefitted from the large numbers of students educated in the urban areas of the region.

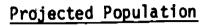
In other parts of this report we have addressed the problem of acquainting students with the benefits of rural life and work through clinical rotation. The Nursing Project therefore recommends:

- 1. The professional programs of nursing in Region IV move to implement the recommendations on providing rural clinical experience for students.
- 2. The professional programs of nursing in the region move to establish joint faculty appointments for qualified service personnel in the non-urban hospitals and other patient care settings.
- 3. The recommendations on continuing education in this report be vigorously applied to all counties in Region IV.

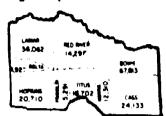


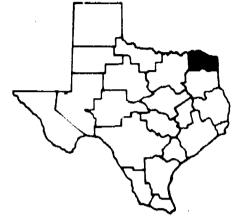
REGION V: NORTH EAST TEXAS

County Population: 1970



1970	202,346
1980	205,600
1990	193,000





Selected Regional Statistics

FTE-RN's

Employed in 1972-73:	325
Need to add by 1980:	607

Total RN	I's needed by 1980: _	857
Ratio RN	l's/100,000 in 1973:	161
	1's/100,000 by 1980:	417

RN Educational		Information, 1973		
Type Program	No.	Enroll.	No. of <u>Seniors</u>	
BSN ADN Dip.	- 2 -	- 183 -	- 74 -	
TOTAL	2	183	74	

LVN Data

Active LVN's in 1972:	602
Ratio LVN's/100,000 in 1972:	295
Number of LVN programs:	4

Hospital and Nursing Home Information

Institution	No.	Beds	Staff RN's	Nurses LVN's		o Beds of LVN's
Hospi tals	14	1,120	215	352	1 to 5	1 to 3
Nursing Homes	29	2,475	20	1 161	1 to 124	1 to 15

The nine counties of Region V in extreme northeast Texas are predominantly rural and the population is projected to decline through 1990. About one-third of the 1970 population of 202,346 was in Bowie County (Texarkana).

While there were 460 RN's in the region in 1973, only 355 were active and the FTE-RN level was 325. This amounted to 161 RN's per 100,000 population which was thirteeth among the 21 regions.

The data shown in the charts given above for Region V display the predominance of LVN's to RN's in the ratios in hospitals and nursing homes and this indicates that the existing RN programs will need to increase the number of graduates over the next six years to provide the optimum level of RN's being recommended by the Nursing Project. An additional resource for the region is further education for qualified LVN's who seek to become RN's.

The two professional nursing programs are both at the ADN level and are located at Paris Junior College and Texarkana Community College. Their combined enrollments in fall, 1973, totaled 183 students and 74 of them were seniors.

In order for Region ? to arrive at the optimum levels of RN's by 1980, including provision for meeting the needs of the area which has a high aging index, the Nursing Project recommends:

- Provision be made for providing continuing education for LVN's and RN's in the region.
- 2. Increase enrollment in the ADN program to produce over 200 new graduates above the current production level by 1980.
- 3. Emphasize geriatrics in the curriculum now available.

100

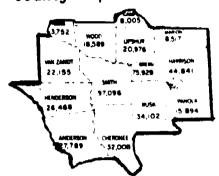
REGION VI: EAST TEXAS



Projected Population

1970	429,119
1980	451,600
1990	453,400

County Population: 1970



Selected Regional Statistics

FTE-RN's

Employed in 1972-73:Need to add by 1980:	655 1,343
Total RN's needed by 1980:	1,883
Ratio RN's/100,000 in 1973:	153
Ratio RN's/100,000 by 1980:	417

LVN Data

Active LVN's in 1972:	1,592
Ratio J.VN's/100,000 in 1972:	359
Number of LVN programs:	10

RN Educational Information, 1973

Type <u>Program</u>	<u>No</u> .	Enroll.	No. of <u>Seniors</u>
BSN	*	-	-
ADN	1	108	42
Dip.	1	170	31
TOTAL	2	278	73

*An upper level BSN program was approved in 1974 for Tyler State College

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's		o Beds of
Hospitals	33	2,517	459	958	1 to 5	1 to 2
Nursing Homes	59	5,609	50	332	1 to 112	1 to 17

The population of 14 county Region VI is projected to steadily increase over the next 15 years.

The FTE-RN ratio is fifteenth in rank among the 21 regions with 153 FTE-RN's per 100.000 population. There is a deficiency of RN's in both hospitals and nursing homes as shown in the charts displayed above. About 58 percent of the current deficit of RN's is in hospitals in Smith and Gregg counties.

The chief needs of the region are the production of more RN's and to retain in the region those who have completed their nursing education within the area.



There are two basic professional nursing programs in the region: an ADN program at Kilgore College and a diploma program at Texas Eastern School of Nursing in Tyler. These two programs had 278 students enrolled in the fall semester 1973, and 73 of them were seniors. A new upper level BSN program is being implemented at Tyler State College and the program should provide the critical retention factor to prevent out-migration of professional nurses who seek the baccalaureate degree in nursing.

The dominance of LVN's over RN's in the region, particularly in the hospitals and nursing homes, needs to be reversed to meet the optimum level of professional nurses recommended by the Nursing Project.

There are about ten LVN programs in the region and there were 1,592 active LVN's, full and part-time, in 1971-72.

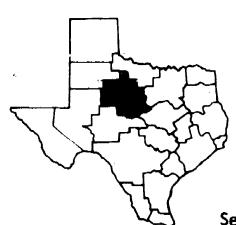
In order to permit Region VI to meet the optimum level of professional nurses by 1980, the Nursing Project recommends:

- Emphasis be placed on providing continuing education for the LVN's and RN's in the region.
- 2. Increase the enrollment of the professional nurse programs in the region to produce an increase of 952 RN's above those projected under current enrollments.

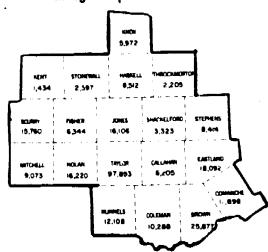


REGION VII: WEST CENTRAL TEXAS

County Population: 1970



Projected Population 1970 280,108 1980 255,600 235,200 1990



Selected Regional Statistics

FTE- RN's

Employed in 1972-73: 469 Need to add by 1980: Total Ri's needed by 1980: 1,030 167

Ratio RN's/100,000 in 1973: Ratio RN's/100,000 by 1980: 403

RN Educational Information, 1973

Type <u>Program</u>	No.	Enroll.	No. of Seniors
BSN	-	_	-
ADN	-	-	-
Dip.	1	56	24
TOTAL	1	56	24

LVN Data

Active LVN's in 1972: Ratio LVN's/100,000 in 1972: Number of LVN programs:

Hospital and Nursing Home Information

Institution	No.	Beds	Staff RN's	Nurses LVN's		o Beds of LVN's
Hospi tals	31	1,653	370	751	1 to 4	1 to 2
Nursing Homes	60	4,100	24 ³	l 313	1 to 170	1 to 13

The population of Region VII is projected to steadily decline through 1990. Taylor County is an exception and will increase in population.

Nursing care in the region is predominantly delivered by LVN's and the data presented above indicate that LVN's outnumber RN's by about three to one. The region has the state's highest ratio of LVN's to population (441 per 100,000) and the RN ratio is 173 per 100,000. 当结毛。

Region VII has the highest ratio of nursing home beds to population (1,120 per 100,000) of any in the state, and the second highest ratio of hospital beds

93



(548) per 100,000 population. The population consists of a high percentage of older persons and nursing homes, depicted on the preceding page.

The comparatively large numbers of health care facilities, low RN ratios, high LVN ratios, and high aging index point to the region's need for additional professional nurses.

There is only one professional nurse program available, a diploma program at Hendrick Memorial Hospital in Abilene. Efforts to establish an ADN program in the region outside Abilene have failed because of inadequate clinical facilities. Enrollment in the diploma program in 1973 totaled 57 students with 24 in the third year class.

To meet the optimum levels of professional nurse care as recommended by the Project, the region will need an additional supply source for nurses, and 688 additional RN's will be required.

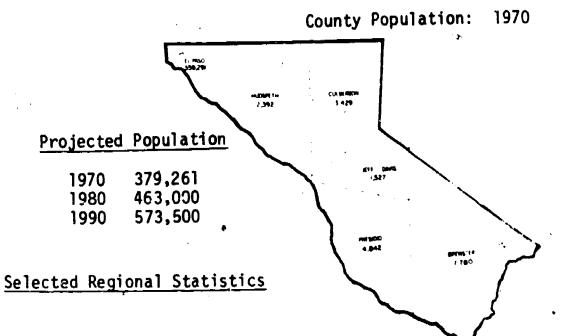
Abilene does not have a publicly supported institution of higher education. Local voters have rejected bond issues to establish and support a community college and one of the community's alternatives for meeting educational needs is to turn to the three privately supported universities in the community, Abilene Christian College, Hardin-Simmons University, and McMurry College. At the present time, these institutions have the capability to provide the onnursing courses for the professional nurse curriculum.

The Nursing Project therefore recommends:

- 1. Top priority be given the continuing education needs of LVN's in the region.
- 2. That an investigation be conducted into the feasibility of establishing an ADN program in the region if faculty and clinical resources are available.
- 3. Consideration be given to the establishment of a multiple entry and exit nursing program through the BSN level at one or in a consortium of the privately supported universities in Taylor county.
- 4. Emphasize the recruitment of qualified LVN's into RN programs.



REGION VIII: UPPER RIO GRANDE



FTE-RN's

Employed in 1972-73: Need to add by 1980:	786 855
Total RN's needed by 1980:	1.468
Ratio RN's/100,000 in 1973:	202

Type <u>Program</u>	<u>No</u> .	Enroll.	No. of Seniors
	_	ee3	ΔO

RN Educational Information, 19/3

Program	10. <u>E111011</u> .		<u> </u>	
BSN	1	551	98	
ADN	i	80	33	
Dip.	-	-	-	
. TOTAL	2	631	131	

LVN Data

Active LVN's in 1972:	499
Ratio LVN's/100,000 in 1972:	128
Number of LVN programs:	3

Hospital and Nursing Home Information

Institution	No.	Beds	Staff RN's	Nurses LVN'S	Ratios to	Beds of LVN's
Hospitals	16	1,872	575	328	1 to 3.	, 1 to 6
Nursing Homes	8	548	18	45	1 to 30	1 to 12

Texas' westernmost planning region consists of six counties along the upper Rio Grande, and of the total population of 379,261 in 1970, all but 20,000 were in El Paso County. The population is projected to increase by almost 200,000 by 1990, as shown above. Most of the increase will occur in El Paso County and three of the six counties will decline in population.

There are only two hospitals in the region outside El Paso County, one in Brewster County and another in Culberson. There are 16 in El Paso with two of them in the 300-499 size range. Total number of hospital beds is 1,872 and there are 575 RN's and 328 LVN's employed in them.



Thre are eight nursing homes in the region. All but one of them are in El Paso, and they have a total of 548 beds. There are 18 RN's and 45 LVN's employed in these homes. The low aging index for the region accounts for the small number of these facilities. Only 22,555 of the 1970 population of 379.216 in 1970 were 65 or older.

There were 866 active and 309 inactive RN's in the region in 1972 with the FTE-RN's totaling 786. While the number of RN's employed in hospitals, full or part-time, was 575, the FTE-RN's in hospitals was 515.

The educational level of the RN's in the region is somew law, with 612 of the 866 indicating they did not have a degree.

There are 202 FTE-RN's for every 100,000 population in the region, which ranks ninth among the 21 regions. At the current rate of supply, the region will have a potential surplus of 411 RN's by 1980. However, under the optimum ratios of the Nursing Project, a deficit of 122 is projected. This deficit can be overcome by modest increases in enrollments in the existing RN programs in El Paso.

There are two professional nurse programs in the region, both in El Paso. Enrollment in the BSN program at UT-El Paso School of Nursing in 1973 was 551 students and the ADN program at El Paso Community College had total enrollment of 80 students. The total enrollment was 631, with 131 seniors. In addition, there are three LVN programs, one in Brewster County and two in El Paso.

In order for Region VIII to produce the 122 additional RN's needed to meet the optimum ratios, the Nursing Project recommends:

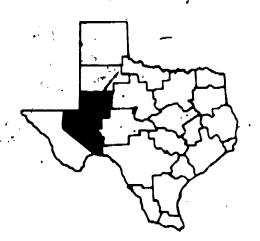
 The two existing registered nurse programs increase enrollments to produce an additional 25 graduates per year to 1980.



REGION IX: PERMIAN BASIN

County

County Population: 1970



Projected	Population
≈ 1970	304,326
1980	345,300
1990	382,200

Selected Regional Statistics

FTE-RN's

Employed in 1972-73: 474

Need to add by 1980: 628

Total RN's needed by 1980: 985

Ratio RN's/100,000 in 1973: 153

Ratio RN's/100,000 by 1980: 276

Type <u>Program</u>	No.	Enroll.	No. of Seniors	
BSN ADN Dip.		104-	49	
TOTAL	1	104	49	

RN Educational Information, 1973

LVN Data

Active LVN's in 1972: 956
Ratio LVN's/100,000 in 1972: 309
Number of LVN programs: 7

Hospital and Nursing Home Information

Institution	No.	Beds	Staff RN's	Nurses LVN's		o Beds of
Hospi tals	22	1,331	342	690	1 to.4	1 to 2
Nursing Homes	16	1,199	16	91	1 to 75	1 to 13

Region IX is a big, 17 county region in West Texas whose 1970 population of over 300,000 is projected to increase to over 382,000 by 1990. Over half of the 1970 population was in Ector and Midland counties, and Ector County is expected to increase from almost 92,000 in 1970 to over 159,000 by 1990.

There are 520 active and 185 inactive RN's in the region for a 74 percent activity rate, one of the best in the state. When the FTE-RN's are computed among full

1. 1. 1



and part-time nurses, the region has 474. The FTE-RN ratio is 153 per 100,000 population, which is fifteenth among the 21 regions.

Despite the high activity rate of RN's, they are outnumbered in hospital employment, where 342 RN's and 690 LVN's are employed in hospitals having a total of 1.331 beds.

The region has a low aging index which helps account for the region having only 16 nursing homes (1.199 beds) which employ 16 RN's and 91 LVN's

The region has only one registered nurse program, an ADN program at Odessa College. In 1973, the program had 104 students enrolled. There are also seven LVN programs, including one in Odessa College which had 44 students enrolled in 1973.

The existing supply pattern for RN's for Region IX will not provide enough RN's to meet the level recommended by the Nursing Project; the region will be short by 221 RN's. It is important that the number of RN's be increased in this region so that the LVN dominance can be reversed.

In order that the 221 RN's be produced in addition to those projected under current supply patterns, the Nursing Project recommends that:

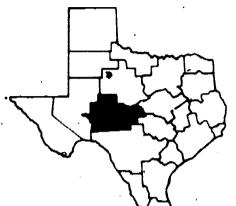
- The existing ADN program in the region expand its enrollment by 40 percent by utilizing extended clinical campuses, when appropriate, to supply regional needs for nurses.
- 2. BSN courses be made available to nurses within the region should interest and potential participation by nurses within the region be high enough. These courses can be imported from an existing BSN program.

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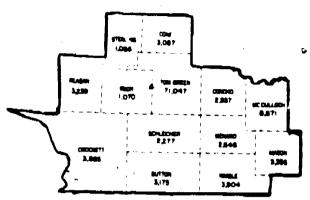


REGION X: CONCHO VALLEY

County Population: 1970



<u>pulatio</u>
0,550 6,600
9.400



Selected Regional Statistics

FTE-RN's

277 **Employed in 1972-73:** <u> 391</u> Need to add by 1980: 580 Total RN's needed by 1980: 🚜 221 Ratio RN's/100,000 in 1973: 464 Ratio RN's/100,000 by 1980:

Type <u>Program</u>	No.	Enroll.	No. of Seniors	
	•			
BSN	-	-	-	

RN Educational Information, 1973

207 54 ADN Dip. 207 54 TOTAL

LVN Data

489 Active LVN's in 1972: Ratio LVN's/100,000 in 1972: <u> 389</u> Number of LVN programs:

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's		o Beds of LVN's
Hospitals	16	- 920	185	3 0 5	1 to 5	1 to 3
Nursing Homes	20	1,169	16	65	1 to 58	1 to 18

.The population of Region X is projected to increase slightly to 1980 and then decline by some 7,000 to 1990. The 13 counties are rural with the exception of Tom Green County (San Angelo) which had almost 65 percent of the region's population in 1970 and is projected to increase from over 71,000 in 1970 to 85,000 by 1990.

There are 305 active and 119 inactive RN's in the region and some 277. FTE-RN's. There are 176 RN's and 305 LVN's employed in hospitals in the region which have 920 beds. The aging index, of the region is quite high and there are 16 RN's and 65 LVN's employed in 20 nursing homes having 1,169 beds.

At the present time, the FTE-RN ratio is 221 per 100,000 population, and this is fourth among the 21 regions. Under the optimum ratios adorted by the Nursing Project to provide more RN's, the existing supply pattern for the region will provide all but 56 nurses.

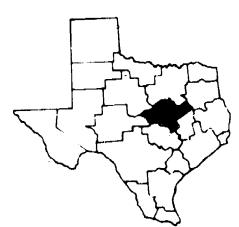
There is one registered nurse program in the region. Angelo State University offers the ADN program and in 1973 the enrollment totaled 207 students. There are three LVN programs in the region and one of them, in the San Angelo Independent School District, enrolled 71 students in 1973.

The region can make some upward adjustments in enrollment and meet the optimum ratio needs as projected by the Nursing Project. It is therefore recommended that:

- 1. Enrollment in the ADN program be increased by 1975 so as to increase the number of additional graduates by approximately 11 per year.
- 2. BSN courses should be made available within the region provided the potential for improvement is shown by nurses within the region. These courses can be imported by an existing school of nursing.

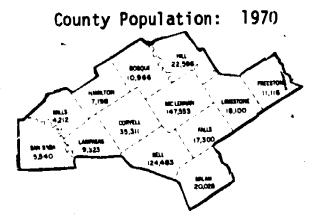


REGION XI: CENTRAL TEXAS



Projected Population

1970 433,726 1980 433,500 1990 435,700



Selected Regional Statistics

FTE-RN's

Employed in 1972-73: 967
Need to add by 1980: 856

Total RN's needed by 1980: 1,576

Ratio RN's/100,000 in 1973: 221
Ratio RN's/100,000 by 1980: 367

RN Educational Information, 1973

Type <u>Program</u>	<u>No</u> .	Enroll.	No. of <u>Şeniors</u>
BSN ADN	1 2	182° 277	115
Dip.	-	-	-
TOTAL	3	459	152

LVN Data

Active LVN's in 1972: 1,272

Ratio LVN's/100,000 in 1972: 291

Number of LVN programs: 10

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's		Beds of LVN's
Hospi tals	30	2,220	756	742	1 to 3	1 to 3
Nursing Homes	66	4,819	70	337	1 to 69	1 to 14

General population of the Central Texas region is projected to remain stable to 1990, with a slight increase of about 2,000 from 1980 to 1990. Except for McLennan (Waco) and Bell counties, which had about 63 percent of the region's population in 1970, most of the counties are rural and most are expected to decline in population over the next 15 years,

Region XI has 1.062 active and 389 inactive RN's and the FTE-RN's total 967. There are 678 RN's and 742 LVN's employed in hospitals having 2,220 beds. Most of the counties have a high aging index which explains the large number of nursing homes which have a total of 4,813 beds and employ 70 RN's and 337 LVN's.

The region currently has a FTE-RN ratio of 221 RN's per 100,000 population and the existing supply pattern is adequate not only to meet the optimum ratio but to exceed the needed number by 21 RN's.

Region XI has excellent health care facilities and has previously provided for professional nurse education to meet its needs at the basic program level.

There are three professional nurse programs available: a BSN program at Mary Hardin-Baylor College (Belton) and ADN programs at Central Texas College (Killeen) and McLennan Community College (Waco). In the fall of 1973, enrollments in these programs totaled 459. There are also 10 LVN programs in the region.

The Nursing Project has identified needs in Region XI as more RN's in the rural areas and emphasis on nursing care of older people. It is therefore recommended that:

- 1. Existing programs should place particular emphasis on the general recommendations in the field of geriatrics and rural clinical experience.
- 2. Emphasize recruitment of qualified LVN's into RN programs.
- As the RN:population ratio improves in the region, consideration should be given to the consolidation of the smaller LYN programs.

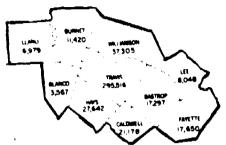


REGION XII: CAPITOL

Projected Population

1970	446,602
1980	485,300
1990	544,600

County Population: 1970



Selected Regional Statistics

FTE-RN's

Employed in 1972_73: Need to add by 1980:	1.076 552
Total RN's needed by 1980:	1,388
Ratio RN's/100,000 in 1973: Ratio RN's/100,000 by 1980:	236 286

RN Educational Information, 1973

Type Program	<u>No</u>	Enroll.	No. of Seniors
BSN	1	944	182
ADN	_	_	-
Dip.	1	161	41
TOTAL	2	1,105	223

LVN Data

Active LVN's in 1972:		912
Ratio LVN's/100,000 in	1972:	200
Number of LVN programs:		6

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's	Ratios t RN's	o Beds of LVN's
Hospitals	22	1,735	785	469	1 to 2	1 to 4
Nursing Homes	37	3,731	45	223	1 to 83	1 to 17

In 1970, Travis County had over 66 percent of the total population of over 446,000 in Region XII. The other nine counties are predominantly rural and therefore the best health care facilities are in Travis County.

The charts shown above indicate that this region has excellent ratios of RN's to hospital peds, for example, and its FTE-RN's to population is 236, among the best in the state. The comparative low level of RN's in nursing homes is characteristic of nursing homes in all regions of Texas but the ratio of one RN to every 83 beds is better than most of the other regions.



If the current supply pattern remains stable, Region XII will have no difficulty in meeting the optimum ratios of the Nursing Project. If employment opportunities are not increased, the region may have an excess of over 200 RN's by 1980. The surveys of the Nursing Project have shown that the general preference of RN's for urban and large hospital employment could contribute to an oversupply in the urban area of this region.

There are two professional nursing programs available, both in Austin. The University of Texas School of Nursing offers the BSN and Brackenridge Hospital, in cooperation with the Austin Community College, offers the diploma program. In 1973, the enrollments of these two programs totaled 1,105 students, including 223 seniors.

In order that the maximum utilization of educational resources in the urban areas be made available throughout the region and to improve the level of nursing care in the rural areas, the Nursing Project recommends that:

- The existing nursing programs adopt the recommendations in the field of geriatrics and rural clinical experience as high priorities.
- 2. The consolidation of LVN programs as the RN:population ratio improves.
- 3. Adjustment of enrollments in all types of nursing programs as needed to maintain the desired RN and LVN to population ratios.

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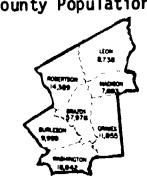
REGION XIII: BRAZOS VALLEY

County Population: 1970



Projected Population

1970	129,494
1980	127,400
1990	126,200



Selected Regional Statistics

FTE-RN's

Employed in 1972-73: Need to add by 1980:	204 184
Total RN's needed by 1980: _	347
Ratio RN's/100,000 in 1973:	155
Ratio RN's/100,000 by 1980:	272

Type No. of Program No. Enroll. Seniors

RN Educational Information, 1973

BSN	-	• •	-
ADN	-	•	-
Dip.	-	-	
•			<i>t</i>

TOTAL

LVN Data

Active LVN's in 1972:	256
Ratio LVN's/100,000 in	1972: 194
Number of LVN programs:	2

Hospital and Nursing Home Information

Institution	No.	Beds	Staff RN's	Nurses LVN's		o Beds of LVN's
Hospi tals	8	462	146	144	1 to 3	1 to 3
Nursing Homes	15	1,332	11	11	1 to 121	1 to 20

Six of the seven counties in Region XIII are projected to decline in population over the next 15 years while the seventh county, Brazos, which had about 45 percent of the region's population in 1970, is expected to increase from nearly 58,000 in 1970 to over 74,000 by 1990. Texas A&M University is located in Brazos County and this major institution accounts for a large share of the population. The region as a whole is considered rural and contains fewer health care facilities than some other regions of similar characteristics.



There are 232 active and 104 inactive RN's in the region and the FTE-RN count is 204. The FTE-RN ratio to population is 155 per 100,000, and ranks fourteenth among the 21 regions.

There are eight hospitals in the region and they have a total of 462 beds. Excellent ratios in RN-LVN staffing exist in these hospitals on a regional basis as 146 RN's and 144 LVN's are employed in them. The region as a whole has a high aging index which partially accounts for the 15 nursing homes, with a total of 1,332 beds and which employ 11 RN's and 65 LVN's.

The most serious problem in the region is the low number of RN's working in nursing homes. This problem exists throughout all regions of the state and the optimum ratios are designed to provide more RN's for employment in this important area of health care. The current ratio of RN's to nursing home beds in this region is one to every 121 beds. The Nursing Project is recommending one to every 15 beds.

There are no schools for registered nurses in Region XIII. The supply pattern for the region, especially Brazos County, is considered to be attributable, in part, to the nurses who are wives of students or employees of Texas A&M University. There are two programs for LVN's, one in Brenham (Washington County) at Blinn College and one in the Bryan public schools. In 1973, they had combined enrollments of 63 students.

The projections of the Nursing Project show that with the present supply pattern for RN's remaining stable, the region will need only an additional 54 RN's by 1980 to meet the optimum needs as recommended by the Nursing Project. This amounts to about eleven new nurses per year beyond the present supply and the Project concludes this number could be recruited without the necessity to establish a new program.

To provide the increased number of RN's, especially in nursing homes, the Nursing Project recommends:

- 1. Efforts be made by employers, especially nursing homes, to recruit RN's.
- 2. Continuing education courses be made available to qualified LVN's within the region to improve knowledge and skills and which can apply toward an RN curriculum.
- 3. Encourage and emphasize geriatric courses and training for all nurses in the region.



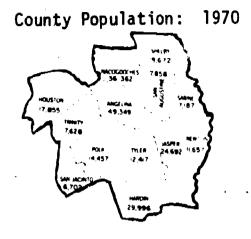
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REGION XIV: DEEP EAST TEXAS



Projected Population

1970	245,832
1980	276,800
1990	305,700



Selected Regional Statistics

FTE-RN's

Employed in 1972-73: 267
Need to add by 1980: 664

Total RN's needed by 1980: 864

Ratio RN's/100,000 in 1973: 109
Ratio RN's/100,000 by 1980: 312

LVN Data

Active LVN's in 1972:	7 <u>67</u>
Ratio LVN's/100,000 in	1972: 307
Number of LVN programs:	

RN Educational Information, 1973

Type <u>Program</u>	<u>No</u> .	Enroll.	No. of Seniors
BSN	*	-	-
ADN	1	179	64
Dip.	-	•	-
TOTAL	1	179	64

*An upper level BSN program was approved in 1974 for Stephen F. Austin State University

Höspital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's		to Beds of LVN's
Hospitals	20	1,192	186	499	1 to 6	1 to 2
Nursing Homes	29	1,934 }	. 15	1 136	1 to 129	1 to 14

Population in the 13 counties of Region XIV is generally distributed throughout the region, with about 35 percent of the total population in Nacogdoches and Angelina counties. The population is projected to increase from almost 246,000 in 1970 to nearly 306,000 by 1.990. Some 14 percent of the population is 65 years of age or older and the region has a high aging index.

This region is located in the piney woods section of East Texas and the climate and other factors cause it to be one of the more desirable retirement areas of the state. It does not contain any of the very large cities characteristic of the coastal, high plains, and north the transfer areas of the state. There are 20 hospitals in the region with 1,192 beds and 29 nursing homes with 1,934 beds.



There are 302 active and 130 inactive RN's in the region and the FTE-RN's total 267. Ratio to population is 109 per 100,000, which ranks very low among the 21 regions. Some 31 percent of the active RN's are over 50 years of age.

Nursing care in the region is dominated by LVN's, with a ratio of 307 per 100,000. There are 186 RN's and 499 LVN's employed in the hospitals which have, as shown on the preceding page, 1,192 beds. The nursing homes in the region employ 15 RN's and 136 LVN's for the 1,934 beds.

Until recently there was only one professional nurse program in the region, an ADN program at Angelina College in Lufkin, which had 179 students enrolled in 1973. A new upper level BSN program has recently been approved for Stephen F. Austin State University and will be implemented in 1975. There are six LVN programs in the region.

This region has had difficulty in retaining RN graduates in the region and the upper level BSN program is expected to improve the retention rate. In the past there has been a deficiency of clinical resources but new construction of hospitals, currently underway, will improve clinical resources in the region.

Under the traditional supply pattern the region is projected to have a deficiency of 509 RN's by 1980 under the Nursing Project's optimum ratios. It is anticipated that the new BSN program at Stephen F. Austin State University will contribute to an improvement in this projected deficiency.

So that the necessary improvement of the numbers of RN's needed can be brought about, the Nursing Project recommends:

- 1. Emphasis be placed on providing continuing education for LVN's in the region.
- 2. Increase the enrollment in the ADN program at Angelina College to increase the number of RN graduates.
- 3. That Angelina College explore with Stephen F. Austin State University the formation of a consortium to provide the benefits of the multiple entry and exit curriculum for nursing students in the region.

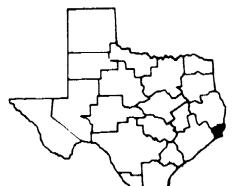
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REGION XV: SOUTH EAST TEXAS

County Population:

1970



1970 315,943 1980 352,300 1990 379,300

Selected Regional Statistics

RN Educational Information, 1973

Type <u>Program</u>	<u>No</u> .	Enroll.	No. of Seniors
BSN	_	-	-
ADN	1	46	-
Dip.*	1	45	45
TOTAL	1	91	45

*This program was phased out in 1973.

FTE-RN's

Employed in 1972-73: Need to add by 1980:	674 1,003
Total RN's needed by 1980:	1,529
Ratio RN's/100,000 in 1973: Ratio RN's/100,000 by 1980:	208 434

LVN Data

Active LVN's in 1972:		894	
Ratio LVN's/100,000 in	1972:	276	
Number of LVN programs:	<u> </u>	3	

Hospital and Nursing Home Information

Institution /	No.	Beds		Nurses LVN's		o Beds of LVN's
Hospitals	11	2,035	421	612	1 to 5	1 to 3
Nursing Homes	13	2,260	20	1110	1 to 113	1 to 21

One of the most intensively populated industrial regions in the state and located in extreme southeast Texas, Region XV has only two counties with almost 78 percent of the 1970 population of nearly 316,000 located in Jefferson County (Beaumont). The population is projected to increase to over 379,000 by 1990.

Statistically, the region has 764 active and 277 inactive RN's and the FTE-RN's total 674. Over one-third (34.03 percent) of the active RN's are less than 39 years of age while less than one-third (29.97 percent) are over fifty years of age. The region has a very low aging index with both counties below the state average.

The current FTE-RN ratio of 208 per 100,000 population ranks seventh among the 21 regions. In order for the region to come up to the FTE-RN ratio of 434 RN's per 100,000 by 1980, as depicted on the chart shown above, an additional 1,003 RN's will be needed by that date.

The region has eleven hospitals which have a total of 2,035 beds and they employ 421 RN's and 612 LVN's. There are also 14 nursing homes with a total of 2,260 beds and which employ 20 RN's and 110 LVN's. Throughout the region there are 25,264 persons who are 65 years of age or older. The ratios of nurses to beds are shown above.

There is only one program for registered nurses in the region, an ADN program at Lamar University in Beaumont. The program is less than two years old and has, in effect, replaced a diploma program that has phased out in one of the Beaumont hospitals. Current enrollment in the Lamar University ADN program is 105 students. There are also three LVN programs in the region.

In order to bring the number of RN's up to the optimum by 1980, as recommended by the Nursing Project, the existing program at Lamar University will need to increase enrollment. Elsewhere in the state, the second year classes of ADN programs had from 26 to 176 students and the program at this institution will have to become one of the larger ADN programs in Texas.

In order for the region to meet the optimum ratios of the Nursing Project / and to improve the educational level of the active nurses, the Project recommends that:

- 1. The existing ADN program at Lamar University increase its enrollment over the next two years in order to graduate approximately 150 students per year.
- The recommendations for providing continuing education courses for the professional and vocational nurses in the region be implemented.



REGION XVI: GULF COAST

County Population:

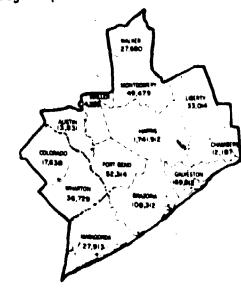
1970



Projected Population

1970	2,305,100
1980	2,821,900
1990	3,473,900

Selected Regional Statistics



FTE-RN's

Employed in 1972-73:	5,899
Need to add by 1980:	6,495

Total RN's needed by 1980: 11,344

Ratio RN's/100,000 in 1973: 255
Ratio RN's/100,000 by 1980: 402

LVN Data

Active LVN's in 1972:	5,445	
Ratio LVN's/100,000 in	1972: 229	_
Number of LVN programs:		_

RN Educational Information, 1973

Type <u>Program</u>	No.	Enroll.	No. of Seniors
BSN ADN Dip.	7 4 -	1,455 847 -	458 379 -
TOTAL	11	2,302	837

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's		o Beds of LVN's
Hospi tals	83	14,112	4,363	3,718	1 to 3	1 to 4
Nursing Homes	88	9,064	183	582	1 to 50	1 to 16

Region XVI is the second largest region in the state in population with over 2.3 million in 1970 and is projected to increase to 3.4 million by 1990. Most of the population is concentrated in Harris County (1.7 million in 1970) which had almost 76 percent of the region's population.

The region has extensive and complex array of medical schools and medical centers and virtually every health profession is represented in the vast system of educational programs. The city of Houston in particular is a popular location for medical, dental, and allied health practitioners because of the sophisticated facilities, variety of types of patients, and employment opportunities.



On the perimeter of this complex in Harris and Galveston counties are eleven additional counties which are more rural than urban in type. Statistics which apply to regions consisting of both rural and urban counties do not always reflect the true conditions in each county.

Region XVI has 6,607 active and 2,389 inactive RN's. The FTE-RN's total 5,899 and the ratio of active RN's to population is,255 per 100,000 which is the highest in the state.

The region has approximately 83 hospitals of all types and sizes with 52 of them in Harris County. These hospitals employ 4,363 RN's and 3,718 LVN's and the total number of hospital beds is 14,112.

In addition, there is a total of 88 nursing homes in the region and 51 of those are in Harris County. These facilities have a total of 9,064 beds and employ 183 RN's and 582 LVN's. Population statistics indicate that the region has over 150,000 persons who are 65 years of age or older. Ratios of both professional and vocational nurses to beds in hospitals and nursing homes are shown above.

Educational programs for nurses are available within the region but concentrated in Harris County. There is a total of twelve registered nurse programs, seven of them baccalaureate and five at the ADN level. Three of the BSN programs are in the private sector: Dominican College, Houston Baptist University, and the University of St. Thomas. The four publicly supported BSN programs offer only the third and fourth (clinical) years of the four year program. Prairie View A&M University, located in Waller County, provides the third and fourth years of its program in Harris County. Texas Woman's University, which also has a clinical division in Dallas (Region IV), has a clinical division in Houston in the Texas Medical Center. The University of Texas System School of Nursing operates clinical divisions in Galveston and Houston.

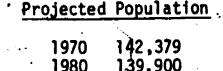
At the ADN level, programs are offered at Alvin Junior College, College of the Mainland, Galveston College (with a coordinate branch at Brazosport Community College), and at San Jacinto College. Enrollments, including the number of seniors in 1973, are shown on the preceding page.

In addition to these registered nurse programs there are some 13 LVN programs in the region.

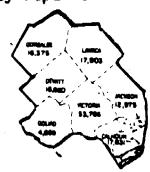
Educational and clinical resources for nurses are adequate for producing the increased needs in the region provided the Mursing Project's recommendations on rural clinical experience are implemented and sustained efforts are put forth by the nursing educators to help meet the needs of the region outside the major metropolitan area. The nurse population is growing at a more rapid rate than the general population and unless the distribution of RN's throughout the region improves, the Houston area will have an oversupply. The Nursing Project therefore recommends:

 The general recommendations in geriatric and rural clinical experience be adopted by existing nursing programs as top priorities. REGION XVII: GOLDEN CRESCENT

County Population: 1970



142,379 139,900 1980 1990 138,200



Selected Regional Statistics

FTE-RN's

Employed in 1972-73: Need to add by 1980: Total RN's needed by 1980: 525

Ratio RN's/100,000 in 1973: 146 417 Ratio RN's/100,000 by 1980:

LVN Data

Active LVN's in 1972: 549 Ratio LVN's/100,000 in 1972: 431 Number of LVN programs: 6

RN Educational Information, 1973

Type <u>Program</u>	<u>No</u> .	Enroll.	No. of Seniors
BSN	-	, -	-
ADN	1	-	- '
Dip.	-	, -	-
TOTAL	1	_	

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's		o Beds of LVŅ's
Hospi tals	13	828	129	338	1 to 7	1 to 2
Nursing Homes	17	1,405	17	101	1 to 83	1 to 14

The seven counties in Region XVII are located in the middle of the Texas coast and are predominantly rural in economy and in population. Victoria County, with nearly 54,000 population in 1970 is the most populous county in the region and, with Calhoun County, is projected to increase in population to 1990. In 1970, these two counties had just over 50 percent of the population of the region.

There are 209 active and 78 inactive RN's in the region. Over one-third of the active RN's are 50 years of age or older while almost 57 percent are less than 50 years of age.



As shown in the data charts on the preceding page, the FTE-RN ratio is 146 per 100,000 population, which ranks eighteenth among the 21 regions. Under the optimum levels recommended by the Nursing Project, the target ratio for 1980 is 417 FTE-RN's per 100,000 population.

As shown above, there is a defliciency of RN's in hospitals and nursing homes. The region has a high aging index and there are 16,836 residents who are 65 years of age or older.

The region has not had a program for the education of registered nurses. In September of 1974, final approval was granted Victoria College to initiate an ADN program and the first students will be enrolled in-1975. The program will not graduate its first class until 1977. Surveys of the Nursing Project show that most of the nursing students from this region who go to other regions for their education do not intend to return here to practice.

The region has six LVN programs in five of the counties in the region and the lack of an RN program is shown in the high number of these graduates working in hospitals and nursing homes.

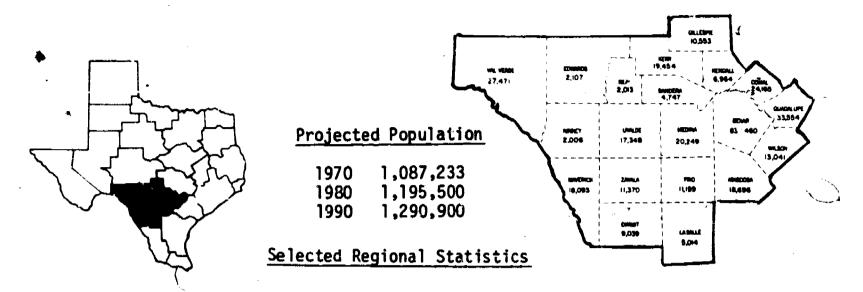
Under the optimum levels of professional nurses recommended by the Nursing Project, the region will need to acquire 388 additional RNLs beyond those provided through the existing supply pattern. It is anticipated that the new ADN program at Victoria will make a substantial contribution to this number.

With the new program already approved, the Nursing Project submits the following recommendations to improve the quality of nursing care and provide equcational improvement for nurses within the region:

- 1. The new ADN program at Victoria College emphasize recruitment of qualified LVN's and persons with prior nursing education or experience into the ADN program, especially during the first few years of its operation.
- 2. Emphasis be placed upon continuing education for the LVN's in the region.

REGION XVIII: ALAMO

County Population: 1970



FTE-RN's

imployed in	1972-73:	2,402
Need to add		2,420

Ratio RN's/100,000 in 1973: 208
Ratio RN's/100,000 by 1980: 348

RN Educational Information, 1973

Type <u>Program</u>	<u>No</u> .	Enroll.	No. of Seniors	
BSN	2	517	169	
ADN	1	∷243	78	
Dip.	1	114,	49	
TOTAL	'4	874	296	

LVN Data

Active LVN's in 1972:	2,597
Ratio LVN's/106,000 in 1972:	225
Number of LVN programs:	

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's		o Beds of
Hospi tals	36	8,412	1,665	1,827	1 to 5	1 to 4
Nursing Homes	62	5,495	176	390	1 to 31	1 to 14

As in most of the large geographic regions of the state, the Alamo region has one dominant county with over 76 percent of the region's population. The 20 counties in Region XVIII include Bexar County (San Antonio) whose population in 1970 was over 830,000 and is projected to grow to almost one million and the region's population will increase to 1.3 million by 1990. Seven of the 20 counties are to experience a decline in population by 1990. This is the largest geographic region and is located in the southwestern part of the state, with its western edge along the Rio Grande.

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There are 2,660 active and 1,188 inactive RN's in the region and most of them are in Bexar County. FTE-RN's total 2,402 and over 64 percent (1,665) of them are employed in hospitals. The FTE-RN's in the region total out to 208 per 100,000, which runks seventh among the 21 regions. The ratio for optimum levels of RN's for 1980 is 348, as shown above. With the existing supply pattern remaining stable, the region will need only 221 additional RN's beyond—those expected to be in the region by 1980.

As displayed above, the Alamo region has 36 hospitals, 18 of them in Bexar County. They have 8,412 beds and employ 1,665 RN's and 1,827 LVN's. There are 62 nursing homes in the region and 33 of them are in Bexar County. They employ 176 RN's and 390 LVN's for the 5,495 nursing home beds. The high aging index is reflected in the large number of nursing homes and there are 93,311 persons in the region who are 65 years of age or older.

San Antonio has extensive and complex medical and health education resources. There are two BSN programs for professional nurses, one at The University of Texas School of Nursing and the other is at Incarnate Word College. A third professional route is a diploma program at Baptist Memorial Hospital. In addition to these programs, there is an ADN program offered at San Antonio College. Combined enrollments of these four programs in 1973 was 874 and 296 were seniors.

There are eleven LVN programs in the region in various locations. One of these, located at St. Philip's College in San Antonio, reported 1973 enrollment of 286 students.

There appears to be no problem of supply of RN's in the metropolitan area of this region and the general recommendations on clinical experience in rural settings and continuing education for LVN's should lead to meeting the needs of the region. Upon adoption of the optimum ratios, the registered nursing programs would need to increase enrollments so as to produce the additional 221 RN's needed by 1980.

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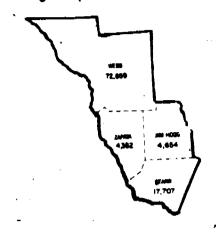
REGION XIX: SOUTH TEXAS

County Population: 1970



Projected Population

1970	103,065
1980	134,100
1990 -	157,400



Selected Regional Statistics

FTE-RN's

Employed in 1972-73:	106 195
Total RN's needed by 1980:	286
Ratio RN's/100,000 in 1973:	101
Ratio RN's/100,000 by 1980:	213

RN Educational Information, 1973

Type Program	<u>No</u> .	Enroll.	No. of Seniors	
BSN	-	-	-	
ADN	1	58	26	
Dip.	-	-	• `	
TOTAL	1	58	26	

LVN Data

Active LVN's in 1972:	178
Ratio LVN's/100,000 in 1972	: 169
Number of LVN programs:	

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LYN's		o Beds of LVN's
Hospi tals	2	258	48	1118	1 to 5	1 to 2
Nursing Homes	3	266	3	22	1 to 88	1 to 12

The South Texas Region is made up of four counties along the Rio Grande in Southwest Texas. Almost 71 percent of the 1970 population of over 103,000 was in Webb County. Most of the region's projected growth to 1990 is expected to occur in Webb County. Laredo, in Webb County, the principal city in the area, is an international port of entry from Mexico and there is a strong Mexican-American cultural influence throughout the region as over 50 percent of the population is Mexican-American.





There are 112 active and 28 inactive RN's in the region with FTE-RN's totaling 106. There are only two hospitals in the region and they have a total of 258 beds. They employ 48 RN's and 118 LVN's. The FTE-RN ratio of 101 to 100,000 population is the lowest of the 21 regions and is attributable, in part, to lack of employment opportunities.

There are three nursing homes in the region, all in Laredo, with a total of 266 beds. These homes employ three RN's and 22 LVN's. The region has a low aging index and there are only 8,181 persons 65 years of age or older.

Region XIX has one program for registered nurses and one LVN program, both at Laredo Junior College. Enrollment in the RN program in 1973 was 58 students. Courses at the BSN level have been brought into the Laredo area during the past year by The University of Texas Nursing School at San Antonio but the number of students seeking nursing courses beyond the ADN level has been minimal.

In a region having minimal health care facilities, the lowest ratio of RN's to population of any region, and limited employment opportunities for nurses, the unusual condition of meeting the optimum ratios of the Nursing Project can be met and exceeded under the existing supply pattern. This is illustrated in that the supply pattern now in operation (including the ADN program at Laredo Junior College) will, by 1980, produce 63 more nurses than are needed to meet the optimum requirements. The need for faculty improvement courses can be provided through continuing education which is a general recommendation for most regions presented elsewhere in this report. Work toward the baccalaureate degree, currently being provided by The University of Texas on a temporary basis, can be provided through Texas A&I University at Laredo which has an upper level BSN program on its Corpus Christi campus.



REGION XX: COASTAL BEND



Projected Population

1970 433,822 1980 478,200 1990 520,200 MC MALLEN LINE OM MEZ MET/USID
1,095 SAST 22,737 9,994

DUMA WELLS MAJOCIA
11,722 MILES MILES
33,038 MISCOIA
11,722 MILES MISCOIA
33,038 MISCOIA
11,722 MILES MISCOIA
33,796
35,796
378

County Population: 1970

Selected Regional Statistics

FTE-RN's

Employed in 1972-73: 667
Need to add by 1980: 1,040

Total RN's needed by 1980: 1,537

Ratio RN's/100,000 in 1973: 152
Ratio RN's/100,000 by 1980: 330

LVN Data

Active LVN's in 1972: 1,364
Ratio LVN's/100,000 in 1972: 311
Number of LVN programs: 2

Ri Educational Information, 1973

Type Program	No.	Enroll.	No. of <u>Seniors</u>
BSN	*	_	-
ADN	1	140	60
Dip.	-	-	-
TOTAL	1	140	60

*An upper level BSN program was approved in 1974 for Texas A&I University at Corpus Christi

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's	_	o Beds of LVN's
Hospitals	21	2,919	448	963	1 to 7	1 to 3
Nursing Homes	27	2,351	26	134	1 to 90	1 to 18

Located on the lower Texas coast, the 13 counties of Region XX had a 1970 population of almost 434,000 with about 55 percent of it in Nueces County, which also is the location of Corpus Christi, largest city in the region. Seven of the counties are projected to decline in population by 1990, but the remaining six are projected to increase with the greatest amount of growth in Nueces County.

The region has a blend of large areas that are sparsely populated and the urban concentration of population and health care facilities found throughout most regions of the state.



There are many excellent health care facilities in Corpus Christi. There are 21 hospitals in the region and four of those which are in Corpus Christi have 500 or more beds. As shown above, the hospitals employ 448 RN's and 963 LVN's while the 27 nursing homes employ only 26 RN's and 134 LVN's. Nine of the 27 nursing homes are in Corpus Christi.

The aging index for the region is low, with seven counties below the state average. In 1970, there were 31,345 persons resident in the region who were 65 years of age or older.

There are 737 active and 268 inactive RN's in the region and the FTE-RN count is 557. Nearly 63 percent of the nurs s in the region are less than 50 years of age.

The current FTE-RN ratio to population is 152 per 100,000, which is seventeenth among the 21 regions. In order to meet the optimum ratios of the Nursing Project, the region will need, by 1980, some 336 more RN's than the region is expected to have under the existing supply system.

There is one registered nurse program in the region, an ADN program at Del Mar College. This program had 140 students enrolled in 1973. A new upper level BSN program was recently approved for Texas A&I University at Corpus Christi.

As in the other two regions where this type program has been established, it is expected to cause more ADN graduates to remain in the region to seek the BSN and practice locally, thereby increasing the total RN count, and also to improve the quality of health care. There are two LVN programs in the region, one of them at Del Mar College whose enrollment in 1973 was 120 students.

The Nursing Project recommends:

- 1. That the general recommendations on continuing education and rural clinical experience for nursing students be given high priority in Region XX.
- 2. That the upper level BSN program at Texas A&I University at Corpus Christi provide upper level courses to RN's in the Region XIX as the need for such courses is demonstrated. These courses should be under the administrative jurisdiction and control of the BSN program in Corpus Christi and facilities may be used, under appropriate arrangement, with Texas A&I University at Laredo or Laredo Junior College.



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REGION XXI: LOWER RIO GRANDE VALLEY

County Population: 1970



Projected Population

1970	337,473
1980	297,300
1990	282,500



Selected Regional Statistics

FTE-RN's

Employed in 1972-73: Need to add by 1980:	366 ⁻ 509
Total RN's needed by 1980: _	761
Ratio RN's/100,000 in 1973:	105
Ratio RN's/100,000 by 1980:	256

RN	Educational	Information,	<u> 1973</u>

Type <u>Program</u>	No.	Enroll.	No. of Seniors	
BSN	-	· -	_	
ADN	2	127	49	
Dip.	-	-	-	
TOTAL	2	127	49	

LVN Data

Active LVN's in 1972: _		620
Ratio LVN's/100,000 in T	972:	178
Number of LVN programs:		5

Hospital and Nursing Home Information

Institution	No.	Beds		Nurses LVN's	Ratios t RN's	o Beds of LVN's
Hospitals	12	1,133	178	361	1 to 6	1 to 3
Nursing Homes	16	1,455	34	124	1 to 43	1 to 12

Region XXI is a three county area in extreme south Texas whose population is over 50 percent Mexican-American and whose economy is based largely on agricultural products. Brownsvi.le, in Cameron County, is an international port of entry. In 1970, Hidalgo County had almost 54 percent of the population of the region and Cameron County had almost 42 percent. The region's population in 1970 was 337,473 and is projected to decline sharply to 1980, and have a slower decline to 1990.

The aging index is far below the state average; there are large families in the region which contributes to the population.

As shown above, there are 12 hospitals in the Lower Rio Grande Valley region which employ 178 RN's and 361 LVN's. The 12 hospitals have 1,133 beds. There are 16 nursing homes with 1,455 beds and they employ 24 RN's and 124 LVN's. Public health is emphasized in this region and 45 RN's and 25 LVN's are employed in this activity.

Throughout the three counties there are 405 active and 156 inactive RN's and the FTE-RN count is 366. Some 55 percent (223) of the RN's are less than 50 years of age while almost 40 percent (160) are over 50.

For several years the only professional nurse program in the lower valley was an ADN program at Pan American University at Edinburg. Enrollment in that program in 1973 was 127 students. A second ADN program, approved in September of 1974 for Texas Southmost College in Brownsville, is expected to accept students within the next year. This new program should make a substantial contribution to professional nurse needs in this region.

The current FTE-RN ratio to population is 105 per 100,000, which ranks twentieth among the 21 regions. In order to meet the optimum number of RN's adopted by the Nursing Project, the region, by 1980, will be required to have an additional 509 RN's in addition to those being produced in the existing program. The optimum level for FTE-RN's by 1980 is 256 per 100,000 population. With two professional nurse programs in the region, this level can be reached with existing resources and supply patterns.

The Nursing Project recommends that:

- 1. The continuing education recommendations of the Nursing Project be given priority in the lower valley, especially for LVN's.
- 2. That the ADN programs at Pan American University and Texas Southmost College monitor their enrollments to avoid a potential oversupply until additional employment opportunities are available.



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CHAPTER VI

A COOPERATIVE APPROACH FOR MEETING NURSING NEEDS IN TEXAS

The establishment of new professional nursing programs in the publicly supported sector of higher education comes under the statutory responsibility of the Board of Nurse Examiners for the State of Texas and also either the Coordinating Board or the Texas Education Agency. Programs in the public community colleges are funded through the Texas Education Agency and those in state senior institutions must have approval of the Coordinating Board. Programs in the private colleges and universities are not within the purview of either the Coordinating Board or the Texas Education Agency but the Board of Nurse Examiners does have jurisdiction.

Licensed Vocational Nurse programs are under the legal jurisdiction of the Board of Vocational Nurse Examiners and, in a publicly supported community college, the Texas Education Agency has funding, and therefore approval or disapproval authority.

While there is informal cooperation among these several licensing and funding agencies, there is no formal mechanism for coordination of nursing education programs, either professional or vocational, that involves all of the agencies. The level of cooperative effort varies from time to time and there is very little inter-agency exchange of information related to the quality of nursing programs. Exchange of such information is of importance to all agencies which either license the graduates, monitor the quality elements of the programs, or have approval and disapproval responsibility under Texas statutes.

A significant first step toward effective planning and coordinating nursing education in this state will require that the agencies having statutory responsibility over nursing programs have mutual access to information related to nursing needs, quality status of existing programs, and other vital information. In addition, decisions regarding nursing programs should be made on the basis of mutually acceptable criteria and should reflect progress toward specific quals.

This cooperation can take place without violation of the function or statutory responsibility of any agency because each of them must, in the carrying out of its pressional and legal responsibility, be finally subject to its own statute.

So that the state can move toward a more carefully coordinated system of nursing education in this state, the Nursing Project Council submits the following:

RECOMMENDATION:

A COMMITTEE BE ESTABLISHED, COMPOSED OF STAFF REPRESENTATIVES FROM THE BOARD OF NURSE EXAMINERS, THE BOARD OF VOCATIONAL NURSE EXAMINERS, THE COORDINATING BOARD, TEXAS COLLEGE AND UNIVERSITY SYSTEM, AND THE TEXAS EDUCATION AGENCY. THIS COMMITTEE WOULD REPRESENT THE AGENCY HEADS IN COORDINATING



THE IMPLEMENTATION OF THE RECOMMENDATIONS OF THE NURSING PROJECT. THE COMMITTEE SHOULD EMPHASIZE THE IMPROVEMENT OF EDUCATIONAL QUALIFICATIONS AND CLINICAL COMPETENCIES OF FACULTY IN PROFESSIONAL NURSING PROGRAMS.

Having taken the position that the most urgent need in nursing at this time is to improve the educational qualifications of nursing faculties, the Nursing Project submits the following:

- RECOMMENDATION: A. IMMEDIATE PRIORITY SHOULD BE GIVEN TO GRADUATE EDUCA-TION FOR FACULTY MEMBERS IN PROFESSIONAL NURSING PROGRAMS.
 - B. EXPANSION OF EXISTING PROGRAMS AND APPROVAL OF NEW PROGRAMS SHOULD BE CONTINGENT UPON THE AVAILABILITY OF QUALIFIED FACULTY AND ADEQUATE CLINICAL FACILITIES.

The Council, aware of the increasing number of new graduates and licensees each year, believes the present number of professional nursing programs in most regions is adequate to produce the number of registered nurses needed in the state; however, increases in enrollments will need to occur in some programs to meet the optimum ratios recommended by the Nursing Project. The recommendations for increased enrollments and graduates and for more rural clinical experience for students will lead toward meeting part of the need; the maldistribution of professional nurses will not be solved until job opportunities become attractive enough in all areas of the state to cause RN's to want to practice in the non-urban areas.

Coordination of Continuing Education

The nursing profession recognizes the need for its practitioners to engage in a life-long learning process in order to maintain competence in a world of constantly expanding knowledge. With recent legislation in several states requiring evidence of continuing education for re-licensure, the urgency of making continuing education readily available to all nurses has been recognized.

A nationwide study of continuing education in nursing, published by the American Nurses Association in 1972, pointed out that numerous statewide studies had identified several problems that must be solved if continuing education needs in nursing are going to be met. Among the problems listed were the following:

- a. The need for educational institutions and health agencies and organizations to assume a greater responsibility for providing continuing education.
- b. The need to find ways to make continuing education available in rural areas or isolated professional locations.
- c. The need to minimize unnecessary duplication.
- d. The need for interdisciplinary programs.
- e. The need for continuing education opportunities which can assist in upward career mobility.



The primary interest in continuing education by the Nursing Project was to recommend a mechanism which would provide the funds and the structure to accomplish the needed coordination of efforts within the state. The University of Texas Systemwide School of Nursing and Texas Woman's University College of Nursing were charged with the responsibility of statewide coordination of continuing education by the Coordinating Board in 1967. Although these two schools have made steady progress in this area, their available resources are inadequate for meeting the total needs of the state in the area of coordination under the present funding procedures.

In order to broaden the base of responsibility and provide additional resources in this area, it is recommended that:

RECOMMENDATION: THE COORDINATING BOARD DELEGATE JOINT RESPONSIBILITY FOR THE STATEWIDE COORDINATION OF CONTINUING EDUCATION FOR NURSING TO ALL STATE UNIVERSITIES OPERATING BACCALAUREATE NURSING PROGRAMS.

RECOMMENDATION: THE COORDINATING FUNCTIONS OF THE DESIGNATED UNIVERSITIES SHOULD INCLUDE THE FOLLOWING:

- A. PROVISION OF A MECHANISM FOR PRIVATE COLLEGES AND UNIVERSITIES AND COMMUNITY COLLEGES OPERATING NURSING PROGRAMS TO HAVE A VOICE IN STATEWIOZ PLANNING DECISIONS FOR CONTINUING EDUCATION IN NURSING.
- B. IDENTIFICATION OF SPECIFIC CONTINUING EDUCATION NEEDS ON A LOCAL AND REGIONAL BASIS.
- C. INVOLVEMENT OF APPROPRIATE INDIVIDUALS, AGENCIES, INSTITUTIONS, AND ORGANIZATIONS IN PLANNING TO MEET NEEDS WITH PARTICULAR EMPHASIS ON INVOLVEMENT AT THE LOCAL LEVEL.
- D. LONG-RANGE PLANNING OF STATEWIDE CONTINUING EDUCA-TION OFFERINGS TO INSURE REDUCTION OF FRAGMENTATION AND DUPLICATION IN AVAILABLE PROGRAMS.
- E. PROVIDE A CLEARINGHOUSE FOR CONTINUING EDUCATION PROGRAMS AVAILABLE TO NURSES.
- F. PROVIDE AN INFORMATION DISSEMINATION CENTER FOR 1)
 PRINTING OF INFORMATION ABOUT PROGRAM OFFERINGS,
 AND 2) RESPONDING TO INQUIRIES CONCERNING AVAILABLE
 HARDWARE AND SOFTWARE IN THE STATE.
- G. PROVIDE EVALUATION OF THE COURSES OFFERED IN CONTINUING EDUCATION IN ORDER TO IMPROVE THE QUALITY OF CONTINUING EDUCATION AND TO ASSURE THAT THE NEEDS OF PRACTICING NURSES ARE BEING MET.

RECOMMENDATION:

FUNDS BE APPROPRIATED TO THE COORDINATING BOARD FOR THE COORDINATION OF CONTINUING EDUCATION IN NURSING; SUCH FUNDS TO BE DISTRIBUTED TO THE DISIGNATED UNIVERSITIES RESPONSIBLE FOR COORDINATION ACCORDING TO THE FOLLOWING CRITERIA:

- THE COORDINATING BOARD AND IDENTIFIED UNIVERSITIES JOINTLY DEVELOP A PLAN TO ACCOMPLISH THE FUNCTIONS LISTED IN ITEMS A-G ON PAGE 123, AND DETERMINE THE - SPECIFIC AREAS OF RESPONSIBILITY TO BE ASSUMED BY EACH INSTITUTION, AND SUBMIT THE PLAN, WITH SPECIF-IC COSTS FOR EACH UNIVERSITY, TO THE COORDINATING BOARD.
- CONTINUED FUNDING BE DEPENDENT ON EVIDENCE OF ACHIEVEMENT IN THE SPECIFIED AREAS OF COORDINATION.

Coordination of Off-Campus Courses

Because nursing practice usually requires that the nurse remain in one location and, as in hospitals, be subject to shift rotation, the ability for most active nurses to travel to distant locations to participate in educational programs is limited. The continuing education programs offered both on, and offcampus by educational institutions, and the in-service training programs made available by employers have provided much needed improvement in the ability of nurses, but there are needs which are not being uniformly met across the state in nursing education.

The Nursing Project has identified substantial interest on the part of LVN's and RN's in furthering their nursing skills and in the quality of educational preparation. We also observed that several nursing programs were offering courses in off-campus locations, where local nurses had shown an interest in taking such courses.

So that nurses throughout the state can be provided the opportunity to improve the quality of their nursing abilities and to take courses in nursing that would apply to a higher degree, the Nursing Project concluded that the state should be divided into regions so that nursing programs could provide the necessary courses on a carefully planned, non-duplicatory basis which would permit maximum utilization of nursing education resources in the offcampus settings.

RECOMMENDATION: THE COORDINATING BOARD ESTABLISH REGIONAL SENIOR COLLEGE AND UNIVERSITY COUNCILS, FOR THE PURPOSE OF INSURING COORDINATION OF OFF-CAMPUS NURSING COURSES OFFERED THROUGHOUT THE STATE.

THE RESPONSIBILITIES OF SUCH COUNCILS TO BE:

- TO MAKE RECOMMENDATIONS TO THE COOPDINATING BOARD ON REQUESTS BY COLLEGES OR UNIVERSITIES WITHIN THE REGION TO OFFER OFF-CAMPUS COURSES.
 - TO MAKE RECOMMENDATIONS TO THE COORDINATING BOARD ON REQUESTS BY COLLEGES OR UNIVERSITIES IN OTHER REGIONS WHO WISH TO OFFER COURSES IN THE REGION..

- C. PREPARE AND IMPLEMENT CRITERIA FOR EXCELLENCE IN CONDUCT OF OFF-CAMPUS COURSES.
- D. TO INSURE THAT OFF-CAMPUS COURSES MEET A NEED WHICH CANNOT BE MET BY A COLLEGE OR UNIVERSITY IN THE AREA WHERE THE COURSES ARE, TO BE TAUGHT.
- E. TO FACILITATE INTER-INSTITUTIONAL COOPERATION IN THE CONDUCT OF OFF-CAMPUS COURSES AND TO ASSURE THAT EACH COLLEGE OR UNIVERSITY IN THE REGION HAS A RECORD IN ADVANCE OF THE COURSES AND LOCATIONS PLANNED IN THE REGION.

DEFINITION OF TERMS

Associate Degree Program in Nursing

A program leading to an associate degree in nursing conducted by an educational unit in nursing within the structure of a junior or community college or university.

The purpose of an associate degree program in nursing is to prepare practitioners of nursing for licensure and employment in positions which require giving direct nursing care to patients in a hospital, or similar community agency.

Baccalaureate Program in Nursing

A program leading to a baccalaureate degree in nursing conducted by an educational unit in nursing (department, division, school or college) which is a part of a senior college or university.

The purpose of a baccalaureate program in nursing is to prepare professional nurse practitioners. The graduates have the potential for assuming leadership roles as well as a foundation for entrance into a graduate program in nursing.

Behavioral Objectives

Statements which describe what the learner will be able to do once learning has occurred.

<u>Collaborate</u>

Cooperate as a peer.

Conceptual Framework

A statement of combined faculty thinking about society, the learner, the nature of nursing practice, program objectives, and curriculum evaluation. A framework containing the philosophical and theoretical background fundamental to the design of the education program, created by/faculty, to enable them to make consistent decisions about the curriculum.

Clinical Laboratory Experience

Planned learning experience which involves direct contact with patients/ clients under the guidance of faculty.

Clinical Nurse Specialists

Nurses who are primarily clinicians with a high degree of knowledge, skill and competence in a specialized area of nursing. These are made directly available to the public through the provision of nursing care to clients and indirectly available through guidance and planning of care with other nursing personnel. Clinical nurse specialists hold a master's degree in nursing preferably with an emphasis in clinical nu sing.



Clinical Nursing Practice

Performance of nursing duties by an RN or LVN in a job setting which involves direct contact with patients/clients.

Challenge Examination

A test taken by a student for the purpose of obtaining credit in a course before completing the course or without enrolling in the course.

Continuing Education in Nursing

Planned learning experiences beyond a basic nursing educational program. These experiences are designed to promote the development of knowledge, skills, and attitudes for the enhancement of nursing practice, thus improving health care to the public.

Credit, Transfer

Semester credit hours earned in one institution which transfer and apply toward degree requirements in another institution.

Curriculum

A program of courses fulfilling the requirements for a certificate, diploma, or degree in a particular field of study.

Multiple Entry-Exit Curriculum

A program of courses fulfilling the requirements for the nurse assistant, vocational nurse, associate degree nurses and baccalaureate degree nurse arranged in a logical sequence to allow for vertical mobility of students.

Diploma Program

A program leading to a diploma in nursing conducted by a single purpose school under the control of a hospital. The hospital which conducts an educational program in nursing shall be general in type and accredited by the Joint Commission on Accreditation of Hospitals.

The purpose of a diploma program in nursing is to prepare a nurse practitioner who is qualified to assume a beginning position in a hospital or similar community agency. Given opportunity and time, the graduate will be capable of directing nursing care for both individual patients and groups of patients.

Distributive Nursing

Nursing practice directed primarily toward health maintenance and disease prevention. Provision of distributive nursing care occurs most frequently in non-acute settings.

Episodic Nursing

Nursing practice which is essentially directed toward the curative and restorative aspects of acute or chronic health problems. Such practice is usually provided in a hospital or in-patient facility.

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Levels of Practice

Variations in the scope of nursing knowledge and skills which the nurse is capable of applying to the delivery of patient care as a result of her educational preparation.

Professional Level of Practice

Implies the ability of the practitioner to utilize theories and principles from many sources to develop effective approaches to the management and delivery of nursing care. The professional practitioner is capable of exercising independent judgment in nursing care decisions related to health care problems ranging from simple to complex. Professional practice necessitates a broad general education base for which a baccalaureate degree in nursing is considered a minimum requirement.

Technical Level of Practice

Implies the ability of the practitioner to function within the framework of existing patterns of practice in the delivery of nursing care to patients with common, recurring health problems. Technical practice requires the exercise of skill and judgment in nursing care but at a level which should be under the supervision of a professional individual. The educational preparation for technical practice is a two-year program leading to the associate degree in nursing.

Nurse Clinicians

Have well-developed competencies in utilizing a broad range of cues. These cues are used for prescribing and implementing both direct and indirect nursing care and for articulating nursing therapies with other planned therapies. Nurse clinicians demonstrate expertise in nursing practice and insure ongoing development of expertise through clinical experience and continuing education. Generally minimal preparation for this role is the baccalaureate degree.

Nurse Practitioners

Have advanced skills in the assessment of the physical and psycho-social, health-illness status of individuals, families or groups in a variety of settings through health and development history taking and physical examination. They are prepared for these special skills by formal continuing education which adheres to ANA approved guidelines, or in a baccalaureate nursing programs.

Nursing Process

A systematic approach to the delivery of patient care which requires the nurse to assess needs, develop a plan of action based on assessment, implement the plan, and evaluate the results of nursing actions.

Primary Health Care

Giving health care to individuals or groups at an initial point in their illness in order to prevent serious illness or to maintain the individual's health status. The focus is primarily on prevention of illness, maintenance of well-

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ness, and dealing with common, recurrent problems.

Primary Nursing

Provision of nursing services based on the concept of total responsibility and accountability of nursing care for the patient vested in one nurse. Primary nursing means that each patient has one nurse who is responsible for planning and evaluating his nursing care even though she does not actually give all care.

Professional Nursing Program

A two, three, or four year curriculum which prepares the student to become licensed as a registered nurse.

Service Area

The geographic area in which most of the graduates of a nursing program seek employment.

SMSA

Refers to Standard Metropolitan Statistical Area and consists of one or more central cities with 50,000 or more population surrounded by contiguous areas economically allied to them. There were 24 SMSA's in Texas in 1971.

Upper Division Nursing Major

A four-year program leading to a baccalaureate degree in which general education courses are taken during the freshman and sophmore years and nursing courses are begun in the junior year.

Upper Level Institutions

A college or university which offers courses at the junior and senior levels only.



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APPENDIX A

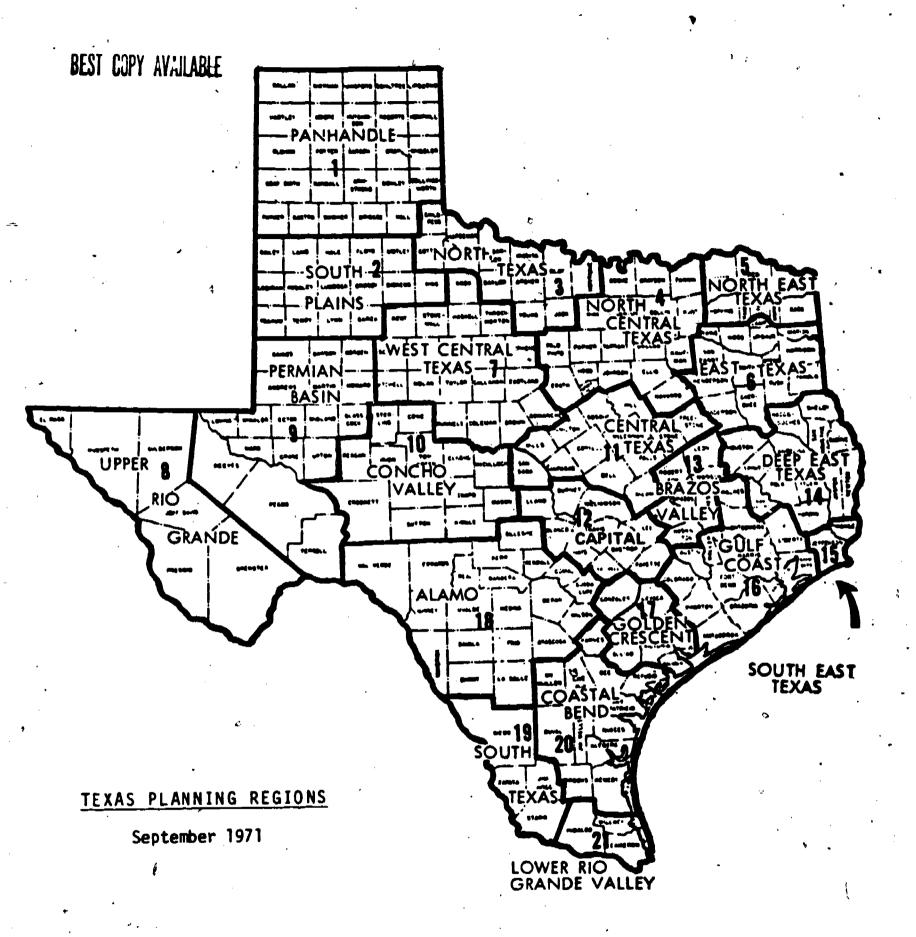
STATISTICAL DATA BY REGION

In this attachment we have included critical data for each region which has provided the statistical base for this report. The data on pages 147 and 148 show the ratios of types of nurses and physicians to population, the current and projected population, the percent of each region's population over 65 years of age, and the aging index for each region.

On these same pages we have presented in concise region-to-region format, the RN and LVN data, showing activity levels and percent working in the various employment settings.

The second category of statistical data, shown on pages 149 through 169, gives detailed information on activity status, age, level of educational preparation, and field of employment for RN's in 1971-72. These pages also include the projected number of RN's to 1980 on two levels: one under the current, or status quo rate of production, and the other under the optimum ratios adopted by the Nursing Project. For example, at the bottom of each page, we have shown current ratio of RN's per 100,000 population and below that, the optimum ratios for 1980.





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TEXAS STATE PLANNING REGIONS

BEST COPY AVAILABLE

	PLANNING REGIONS	ADM's POP.	DIPLOMA RN'S POP.	BSH'S POP.	NON- FED N.D.'S POP:	PIRECT PT. CARE M.D.'S POP-
1	Panhand I a	17	215	16	o 78.4	72.7
3.	South Plains	8	150	14	82.7	76.9
3	North Texas	18	160	13	95.5	87.5
4	North Central Texas	14	172	42	128.1	113.1
5	North East Texas	39	110	16	83.6	78.1
6	East Texas	14	126	16	87.6	80.5
7	West Centrel Texas	6	157	12	79.9	70.9
Ì	Upper Rio Grande	5	194	17	90.7	81.7
9	Permian Basin	30	119	11	76.6	72.6
IÕ	Concho Valley	31	184	16	96.7	ار
11	Central Texas	25	181	22	105.6	94.8
12	Capital	11	196	46	123.4	22.9
13	Brazos Valley	15	116	34	64.9	58.7
14	Deep East Texas	11	89	12	58.2	54.1
15	South East Texas	5	198	-18	101.6	96.5
16	Gulf Coast	21	185	57	159.5	137.7
17	Golden Crescent	11	126	15	80.2	73.0
18	Alamo	14	167	38	122.7	100.0
19	South Texas	21	63	19	52.2	48.2
30	Coastal Bend	_ 21	121 >	15	96.4	88.5
21	Lower Rio Grande	• •	87	15 💉	71.4	63.1
-	STATE	16	165	34		-
		11	12	13	14	15

THESE STATE PLANNING REGIONS

	PLANNING REGIONS	CURR. / TOT. POP.	PROJ . POP . 1980	PROJ. POP. 1990	% POP. OVER 65	AGINE
12345678910112131456171819281	Panhandla South Plains Morth Taxas Morth Central Taxas Morth East Taxas Most Central Taxas Most Valley Central Taxas Central Mosos Valley Moso East Taxas South East Taxas Mulf Coast Molden Grescent Alamo South Taxas Guestal Bend Lawar Rie Brande	330.3 327.8 212.5 2636.4 202.2 436.1 268.0 379.3 304.3 120.9 428.2 446.6 129.5 245.8 315.9 2305.1 126.0 1124.3 99.6 420.4 337.5	362.8 418.3 212.4 3147.3 205.6 451.6 245.0 357.0 125.2 429.5 485.3 127.4 276.8 352.3 2821.9 125.8 1228.0 136.1	395.0 467.3 212.4 3802.7 193.0 453.4 226.0 573.5 383.2 116.2 433.5 544.5 126.2 305.7 379.2 3473.9 125.9 1316.4 157.4 511.6	11.09 10.34 17.64 13.48 16.51 15.34 (18.07 8.85 7.02 14.64 18.17 16.86 16.79 14.36 7.20 9.92 12.95 13.00 9.75 9.13 8.23	33.9 29.8 60.9 43.7 54.7 59.3 63.8 23.5 18.2 47.0 66.9 59.3 94.2 42.9 19.5 30.0 39.1 36.4 26.1

	PLANNING REGIONS	TOT. RM's: POP.#	ACT. RH's: POP.	RN FTE: POP.	INACT. RH's: POP.	RN's ACT.: INACT.	ACT. RN SMSA PDP.	RM NCH- SMSA POP.	TOT. LVN's: POP.	ACT. LVN's: POP.	LVN FTE: POP.	LVN's ACT: INACT.	ACT. NI's
1	Panhandle	343	259	236	84	3.07	376	142	300	249	221	4.92	1.04
2	South Plains	240	182	171	58	3.12_		103	356	307	278	6.34	- 59
3	North Texas	279	208	193 211	71	2.92		132	387	331	290	5.90	. 63
Ā	North Central Texas	331	239		92	2.67	<u> 233</u> "	* 137	277	232	205	5.12	1.03
Š	Morth East Texas	226	174	161	52	. 3.3字		153	351	295	261	5 . 33	- 59
Ğ	East Texas	232	165	153	67	2.45	240	123	435	359	312	4.71	. 46
7	West Central Texas	249	183	167	66	2.80_	225	135	512	441	387	6.21	- 42
À	Upper Rio Grande	302	223	202	79	2 .802	22212	. 95	157	128	115	4.50	1.74
9	Permian Besin	228	168	153	60	2.81	100	* 147	372	309	274	4.85	.54
١ŏ	Concho Valley	338	243	221	95	2.56	314	155	463	389	344	5.32	.63
ii	Central Texas	332	243	221	89	2.73	278	210	349	291	254	5.01	. 84
12	Capital	379	268	236	111	2.40	318	125	241	200	176	4.80	1.34
13	Brazos Valley	255	176	155	7 9	2.23	210	106	233	194	171	5.02	. 91
iš	Deep East Texas	173	121	109	52	2.32_		118	380	307	271	4.24	\ <u>39</u>
15	South Eas? Texas	322	236	208	86	2.743	91228	•	336	276	241	4.61	386
ić	Gulf Coast	378	278	255 146	100	2.77	<u> </u>	* 126	273	229	200	5.15	1.21
17	Golden Crescent	225	154		61	2.68	-	163	530	431	376	4.36	. 38
iá	Alamo	334	231	206	103	2.25	231	156	264	225	206	5.75	1.03
13	South Texas	133	106	101	27	4.00_	115	41	199	169	157	5.56	. 63
20	Coastal Bend	229	168	152	51	2.75	22) 66	142	369	311	301	5.39	. 54
21	Lower Rio Grande	161	116	105	45	2.60_	<u> </u>	** 96	203	178	164	7.05	.65
•	STATE	312	214		85				303		224		
	Column Number	1	2	3	•	5	6	7	8	,	10	11	12

*More than one SMSA

TEXAS STATE PLANNING REGIONS ."

	PLANNING REGIONS	MURS. MOME BEDS: POP.	RN'S IN HSG. HOME	E LYN'S IN NSG. HOME	HOSP BEDS: POP	RM'S IN HOSP.	HOSP. BED: RH'S In HOSP.	E LYN'S	RN'S	R LVN'S IN OFFICE	RR IN P.H
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Upper Rio Grande Permian Basin Concho Valley Central Texas Capita! Brazos Valley Ocap East Texas South East Texas Gulf Coast Golden Crascent Alamo South Texas Coastal Band	938.5 720.9 1120.6 131.8 310.0 942.6 789.8 633.5 653.5 559.3 368.7 296.9 775.5 446.5 277.2	4.37 3.60 5.23 5.65 4.55 6.81 4.55 6.23 6.23 4.74 4.97 2.62 2.77 8.13 6.48 3.53	14.81 11.23 15.84 17.19 26.74 20.85 24.63 9.52 16.49 24.45 25.39 17.73 12.30 16.69 18.40 15.02	476.5 393.3 507.7 358.7 473.7 433.1 547.8 411.3 435.4 444.0 315.3 335.9 473.8 492.9 477.8 333.2 254.1	65.36 64.16 67.54 63.84 60.73 62.53 71.15 66.40 65.77 64.26 71.19 64.34 62.93 61.59 55.10 66.04 61.72 62.41 42.86 60.79	3.5 4.4 5.7 3.9 3.57 2.54 3.8 4.5 4.5 4.5	66.55 65.44 58.41 61.53 58.47 60.18 59.41 65.73 72.18 69.94 58.33 54.25 65.06 68.28 61.57 70.35 64.29	10.47 5.73 3.49 8.25 4.80 5.31 6.72 6.12 10.00 9.84 4.62 10.34 5.30 7.59 7.25 5.74 5.28	10.39 12.97 8.48 8.35 7.48 9.55 6.40 7.21 12.03 6.13 7.00 8.22 10.16 6.78 6.60 8.72 8.38 4.51 7.87	2.99 7.53 6.10 3.57 3.39 5.99 4.35 5.66 4.04 6.23 3.01 8.61 5.60 4.30 6.54 3.38 4.31 6.22 18.75
21	Lower Rio Grands	432.6	8.40	20.00	· 224.0	43.95 / 5	4.1	58.23 7	3.46	12.42	11.36

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ACTIVITY S	STATUS	*	AGE DI	19 AGE DISTRIBUTION	71-72	RN LICENSURE DAN HIGHEST	HIGHEST EDUCATIONAL PREPARATION	AL_PREPAI	RATION		FIELD OF	EMPLOYMENT		
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							Local Gr	aduates	Graduates Retained	473	386	2.54		
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1971-72 RN LICENSURE DATA

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HIGHEST EDUCATIONAL PREPARATION	No Degree 4 BSN Bacc. Other MSN Master's Other Ph. D. Incomplete 1 TOTAL 6	PROJECTED R Local Graduates Regional Retention Local Graduates R Local Graduates R Inflow Total New Graduat Activity Rate TOTAL Projected Additional Active RN's by 1980	1 + Attrition
34	20.62 18.99 28.97 17.02 9.49 100.00	No. of Addi- tional RN's Required to Achieve (FTE) Optimum Values 6 17 6 17 60 22	esent Additional Active RN's RN's RN's RN's
AGE DISTRIBUTION	20 - 29 126 30 - 39 116 40 - 49 177 50 - 59 104 60 + 58 Incomplete 30 TOTAL 611	DETERMINATION OF DEMAND FOR 19.75 BASED ON ADOPTED RATIOS Loursertly Required to Required	Number of Present RN's Re- Number quired by of Activ 1980 - RN's
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1971-72 RN LICENSURE DATA

ACTIVITY STATUS	TATUS	34	AGE DI	AGE DISTRIBUTION		HIGHEST EDUCATIONAL PREPARATION	IONAL PREPAI	RATION X	FIELD OF EMPLOYMENT	MPLOYMENT	a-t
Active	459	74.51		80	17.43	the Degree	307	66.88	Hospital	310	67.54
Inactive	_ 157 _	25.49	30 - 39	103	22.44	BSN	34	7.41	Ę	₹	5.23
ACTIVA: Full-+4me	363	79 97		21	24.40	Bacc. Uther	2 a	7.61	Sch. of Msq.	77	7.7
15-30 Hrs/Jk	, , , , ,	8 8	+	, <u>r</u>	11.98	Master's Other	o m	. 65	Public Health	8	6.10
Less 15 Hrs/Wk	ਲ	7.41	Incomplete			Ph. 0.	0	0.00	School Nurse	ο.	1.96
Incomplete	æ <u>ç</u>	7.7	TOTAL	459	100.00	Incomplete	86.	20.20	Industrial Nurse	_ <u>_</u>	25.
	A C	3.3				4	A C	3.3	Other	9-;	22.
1	1	I	!						Incomplete TOTAL	459	30.00
DETERMINATION	N OF DEMAN	60 FUR RM*	DETERMINATION OF DEMAND FOR RN'S BASED ON ADOPTED RATIOS	PTED RATI	T 201	i t	l	ŀ	i i	ı	, RF
	•			~	No. of Addi-		PROJECTED	RI SUPPLY	PROJECTED RU SUPPLY PATTERN PRESENT	- 1980	91 (
,		Currently			Required to				0 40	BSN	JUPY
	•	(FTE)	Achieve (FiE) Optimum Values	- U ,	Achieve (Fit) Optimum Values	Local	Local Graduates		533		AVA
6 - 24			15.1			Regio	X Regional Retention Rate	ion Rate	69.		ILAB
			96			Local		Retained	367		NLE.
26 26 26 26 26 26 26 26 26 26 26 26 26 2			70	-		+ Inflow	+ 漢 '		4 27	23	
TOTAL HOSPITALS		278	528		250	Total	_ Total New Graduates	ates	4 394	23	
School Murses		; o z	<u> </u>		<u> </u>	Activ	Activity Rate		76. 76.	96 .	
		25	2) at 4		362	TOTAL	Frojected	9			
SUB-TOTAL CATEGORIES Other	RIES +	314	₹ 9		487	20.00 S. NS	RN's by 1980	V	4 + 385	+ 22 +	ŧ
TOTAL			•								
, .	RN's/100,000		Number of RN's Re- qu'red by	Present Number of Active		Additional RV's Ace	•	Total Addi- tional RN's Required	Projected RN Supply by	Surplu	
	Population	·	1980	- KE	•	Required + Attrition	tion .	by 1980	. 1980	(Deficit)	듸
Status Quo Optimum Level	193		410 858	\$ \$	448	Of 101		101 549	£1.	310 (38)	
,											

1971-72 RN LICENSURE DATA

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ACTIVITY STATUS	ATUS	•	AGE DISTRIBUTION	RIBUTION	8	HIGHEST EDUC	HIGHEST EDUCATIONAL PREPARATION	ARATION Y	FIELD OF EMPLOYMENT		ENT	
	1	4			4							
40+40	אטב א	A5 24	20 - 29	1 281	21,90	No Degree	3,674	58.27	Hospital	4,025	9	
Inactive	2,411	27.66	•	1,396	22.14	BSH	1,150	18.24		122		3.00 3.76
Active]	•	40 - 49	1,490	23.63	Bacc. Other	940	2,32		3.5		2 2
	4,825	76.53	1	1,187	13.83	.	5	78.7		22.		3.57
15-30 Hrs/Wk	929	14.73	+ 09	551	3.74	Master's Uther		- œ	Cotol Marco	37		3.92
Less 15 Ars/Wk	9	유:	Incomplete	9 5	4.76 20	ra. U.	7	18.10	-			 89.
Incomplete	906	. 5	וחואר	cor :	97.00	Incompared TOTAL	6,305	100.00	Office Nurse			3.25
4 2	. 363	3					•		Other	12		2.7
	··,								incomplete TOTAL	6,305		8.0
DETERMINATION	OF DEMAND	FO. 3	DETERMINATION OF DEMAND FOR RN'S BASED ON ADOPTED RATIOS	_ ED RAT105	ا ا	1	1	I	,			
		•		` 2	7774 4		PPOJECTE	PROJECTED BY SUBBLY PATTERN	PATTERM PRESENT	NT - 1980		BE
	Š	100	100 to 00		- LDOY YOU		TRWECT.	2011				ST
	Š	Currently			Required to		٠		9	3	_	CO
	<u></u>	ployed (FTE)	Achieve (FTE)	_	eve (FTE) man Values	, ,	Local Graduates					PY
Toestesle							×					A
5 mospiles 6 - 24 beds			65			Re	Regional Retention Rate	ition Rate				VAII
7 25 - 49 beds 7 50 - 99 beds			717				Local Graduates Retained	s Retained	35 17	1754 16	1628	LABI
- 299			1682			٠	+ ;				61.	<u>E</u>
- 499			804 804			<u> </u>	Int row		- -	<u>`</u>	2	
TOTAL HOSPITALS		3542	5115		573	10	Total New Graduates	luates	119 19	1934 23	2340	
Mursing Home Nurses School Nurses		328 328	1065 502		147	Ac	X Activity Rate		96. 2496.	9672 .92	9242	
Office Nurses		459	296		137			•				
-		249	442		193 307	¥3	TOTAL Projected	9				•
Public Mealth Murses	1155	2029	527	(43	3218	ž &	RN's by 1980	2	115 + 18	1871 + 2	2163 * 4	4149
	*	536 5565										
		À										
		*	Number of	Present				Total Addi-	Pro			
	PK* c / 100 000		RN's Re-	Number of Artive	•	Additional RN's	Aoe	tional RN's Required		ŝ	Surplus	
	Population		•		•	+	Attrition -	by 1980	1980	<u>.</u>	(Deficit)	
Status Ouo	112		6643	5265	•	1075	1144	2219	4149	-5	1930 (1249)	
Optimum Level	312		9819	5565	-		<u>\$</u>	0676	•	•	!	

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	17/1/61

ACTIVITY STATUS	ratus #	34	AGE DI	AGE DISTRIBUTION	> 4	HIGHEST ED	HIGHEST EDUCATIONAL	AL PREPARATION ₽ %	ATION X	Œ	ELD OF E	FIELD OF EMPLOYMENT	
Active Inactive Active: Active: Full-time 15-30 Hrs/kk Less 15 Hrs/wk Incomplete	354 295 35 354	76.96 23.04 9.89 9.89 1.69 100.00	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete TOTAL	65 22 38 354 354	19.49 19.49 22.88 21.19 10.73 6.21	No Degree BSN Bacc. Other MSN Master's Ot Ph.B. Incomplete	ree Ither s Other	215 32 4 4 4 0 96 354	60.73 9.04 1.13 1.13 0.00 27.12 100.00	Hospital Nursing Ho Sch. of Ns Private Du Public Hea School Nur Industrial Office Nur Other	Home NSQ. Duty Health Nurse ial Nurse	215 20 23 7 7 12 23 22 17	5.65 5.65 6.50 1.98 1.98 6.50 6.50 1.98
DETERMINATION OF DEMAND FOR RN's Currently Employed Employed Employed Employed FTE) Hospitals 6 - 24 beds 25 - 49 beds 100 - 299 beds 100 - 299 beds 300 - 499 beds 500 + beds 500 + beds TOTAL HOSPITALS Nursing Nome Nurses School Nurses Office Nurses Private Duty Nurses Private Duty Nurses Private Duty Nurses Private Duty Categories Sub-TOTAL CATEGORIES Other TOTAL 3255	Ro. of DEMAND	AND FOR RN's Currently Employed (FTE) 18 22 15 11 264 4 61 325	BASED ON ADOPTED RATIOS No. of Rt's tiona Required to Requi Achieve (FTE) Achie 227 75 82 227 152 33 32 40 844	ACHIGA AC	Mo. of Addi- tional RN's Required to Achieve (FTE) Optinum Values 147 17 17 27 29 580		PROJECT Local Graduat Regional Rete Local Graduat Inflow Inflow Activity Rate TOTAL Project Additional Ac	PROJECTED Ris SUPPL Local Graduates Regional Retention Rate Local Graduates Retained Inflow Total Hew Graduates Activity Rate TOTAL Projected Additional Active RN's by 1980	Rus SUPPLY Rus SUPPLY Retained Retained	PROJECTED Ris SUPPLY PATTERN Graduates al Retention Rate Graduates Retained ty Rate Ty Rate Projected omal Active y 1980 5	- PRESENT - 1 AD 426 (.37) (.71) 377 13 389 .97	22 22 + 20 + 20	BEST COPY AVAILABLE
Status Quo Optimum Level	Population 161 417		RN's Pequired by 1980 - 331	Present Number of Active JAN's 325 325	•	Additional RN's Required + 6 532	Age Attrition 75	•	Tota: Addi- tional RN's Required by 1980 81 607	Project RN Supply - 1980 402	Projected RN Supply by 1980 402 402	Surplus (Deficit) 321 (205)	lus (2112)

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1.25	ACTIVITY STATUS		**	ÁGE DISI	AGE DISTRIBUTION	5-8	HIGHEST	HIGHEST EDUCATIONAL PREPARATION	PREPARA	NO *		FIELD OF E	EMPLOYMENT	1
1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	ictive inactive	1	71.26		128 1 4 9	17.44	No Degre		4 56	62.13 11.85	3 5,	tome	459 50	62.53
Marcaple 10 10 10 10 10 10 10 1	Active: Full-time		78.47		176 144	23.98 19.62	Bacc. Ut	Je z	<u>5</u> %	٠ %.%	5 Z	Juty.	33 25	. e. e.
	至,		10.35	60 + 750mm]ete	8 2	1.3	Master's Pl. D	Other.		Z, 6		ealth irse	4 4	
DETERMINATION OF DEMAND FOR RNY's MASED ON ADOPTED RATIOS No. of RNY's Inches RNY's No. of RNY's No.		•	388 2-8	TOTAL	? 8 8	100.00	Incomple TOTAL			23.43	. =		3 - 5	2.18 5.31
PROJECTED RI SUPPLY PATTERN PRESENT In the supply projected Risk of Richard Rate Projected Risk of Richard Rate Projected Risk of Richard Rate Projected Rate Pr	<i>7</i> .							ı				·	250	100.00 100.00 100.00
Ho. of RN's No. of RN's tional RN's	DETERMINATION	N OF DEPAND	-5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	's BASED ON ADOP'	TED RATIOS	} 	I	I	ì		ľ			
Currently Required to Employed Achieve (FTE) Required to Employed Achieve (FTE) Achieve					No. 0	₹		P.R0	VECTED R	H SUPPLY	PATTERN			BES
The color of the			of RM's	No. of Re's Required to		₽ 2 ₽,					ai		20	st ci
15			loyed TE)	Achieve (FTE Optimum Value	- 0			Local Gra	duates		302			UPY
19	* 22			02				x Regional	Retentia	n Rate	.573	•		AVAI
0 - 299 beds 0 - 499 beds	~ x			133					iduates R	etained	175			TYDL
10	- 230 - 490 - 490			88 '				Inflow			.	75	8	L
ting Nome Nurses 44 374 330 Activity Rate 37 .97 .97 .97 ce Nurses 46 84 38 Activity Rate .97 .97 .97 ce Nurses 45 86 44 Additional Active RW's by 1980 RW's Prysent RW's Re- Number of RW's Re- Number Additional RW's Re- RW's RW's RW's RW's RW's RW's RW's RW's	O + Total R	-	Ę	1105	9	10.		Total Hew	ı Graduat	es	180		8	
Number of Present Number of Number	ing Home o) Nurses		3 4 ;	37.	m ·	စ္က జ		Activity	Rate		.97		76 .	
Number of Present Additional Total Additional RN's Re- Number Additional Age Required Supply by RN's/100,000 quired by of Active RN's Required + Attrition - by 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1	Norses Perses Health		35 4 2 5 59 2 5 5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	=	88 3 6		TOTAL Pro Additions RN's by 1	ojected ni Active 1980		175	+	+	. 391
Number of Present Additional Total Additional RN's RN tional RN's RN's RN's RN's RN's RN's RN's RN's	PT TOTAL	+	655							£				
s Quo 153 691 655 36 155 191 and Level 411 1983 655 155 155 1343		M's/100,00	8 _l	Number of NW's Re- quired by 1980		Addit Fan		Age	•	nal RN's equired by 1980	Proj	ected RN Ily by 980	Sur	Surplus (Deficit)
		15.		1883	655 655	£221	မာ ဆ	155 155		191 1343		391 391		200 (952)

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1971-72 RA LICENSURE DATA

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ACTIVITY STATUS	ATUS X	ı	AGE DIS	AGE DISTRIBUTION	, se	HIGHEST ED	HIGHEST EDUCATIONAL PREPARATION	REPARATION		FIELD OF EMPLOYMENT	F EMPL(JYMENT #	94
Active Inactive Active	506 73 . UB1 _ 26	73.65 26.35	20 - 23 30 - 33 40 - 33	<u> </u>	17.98 19.96	to Degree BSN Bacc. Other	352	2 69.57 3 8.50 2.31	Hospita Nursing	al g Home f Nsq.		360 23 12	71.15 4.55 2.37
Full-time 15-30 Hrs/4k		79.84 12.06	65 - 59 + 09	21.2	22.13 14.03	MSN Master's Other			7.3	ᇒᆂ		22	2.57
Less 15 Hrs/Wk Incomplete	₹^	1.38	Incomplete TOTAL	2003	5.93 100.00	Ph.D. Incomplete	0 6				Š	g0;	6.32 6.32 8.83 8.83 8.83 8.83 8.83 8.83 8.83 8
		8				7 O	કે	90.00	Other Incomplete TOTAL	aurse lete		<u> </u>	0.00 100.00 100.00
OETERMINATION	6	- S S S	DEMAND FOR RN'S BASED ON ADOPTED RATIOS	_ Ted-ratio	- SC	I	1	f	1	i	l .	1	}
	(į	•	Š	3		PROJE	CTED RN SUP	PROJECTED RIJ SUPPLY PATTERN	PRESENT		1980	BES
i ď	ō Ē	t y		•	tional RN's Required to		;		al	8		NS.	r co
	(FTE)	 1	Optimum Values	- 0,		•	Local Graduates	ates	2	293			PY
3 .		*	13		•		x Regional Re	Regional Retention Rate		(-		AVAI
4 S		٠	<u>2</u>			-	Local Gradu	Graduates Retained		144			LABL
200 - 299 beds 300 - 499 beds			285 285				Inflow		•	30		2	E.
4 55 55	33	10.0	- 699		334	•	Total New Graduates	iraduates		54 30		2	
Nursing Home Nurses School Nurses	38.5	N 60 6			- 92 *		Activity Rate	ţ	•	76. 76	~	.93	
Office Murses Private Duty Murses Public Health Murses SUB-TOTAL CATEGORIES Cther TOTAL	MES + 4520 134		13.55 ± 58		929	•	TOTAL Projected Additional Acti RN's by 1980	ected Active 80	-	62 + 691	, +	# Oh	187
•	PN's/100,000 Population	. - - ·	Number of RN's Re- quired by 1980	Present- Number of Active	•	Additional RN's Required + A	Age Attrition	Total Additional RN' Required by 1980	1 50 1	Projected RN Supply by 1980	•	Surplus (Deficit)	
Status Quo Optimum Lavel	167 -	,	426 1030	469		(43) 561	121 121	2 88		187 187		103	•
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1971-72	-

ACTIVITY STATUS	Tus *	AGE DISTRIBUTION	RIBUTION		HIGHEST EDUCATIONAL	AL PREPARATION	110N	1313	LD OF EN	FIELD OF EMPLOYMENT	3- 4
Active Inactive Active: Active: Full-time 15-30 Hrs/Wk Less 15 Hrs/Wk Incomplete TOTAL	866 73.70 309 2.26.30 705 81.41 90 10.39 59 6.81 12 1.39 866 100.00	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete TOTAL	181 162 212 200 73 38 866	0.00 3.4.48 3.00 0.00 1.33 1.33	No Degree BSN Bacc. Other MSN Master's Other Ph.D. Incomplete	212 885 111 0 66	70.67 9.82 1.85 1.73 1.27 0.00 14.67	Hospital Nursing Home Sch. of Nsg. Private Duty Public Health School Nurse Industrial Nu Office Nurse Other	Se Surse	575 18 33 23 49 49 7 7 7 85 85 85 86	66.40 2.08 3.58 9.82 6.12 100.00
.	DETERMINATION OF DEMAND FOR RN'S No. of RN'S Currently Employed (FTE) S 24 beds 49 beds	N'S BASED ON ADOPTED RATIOS No. of RW'S tions Required to Required to Required to Achieve (FTE) Achieve (FTE) 20 20 30	ED RATIOS No. of Additional RN's Required to Achieve (FTE Optimum Value	of Addi- nal RN's luired to leve (FTE) mum Values	* * *	PROJECTED RN SUPPI Local Graduates Regional Retention Rate	PROJECTED RN SUPPLY PATTERN Graduates al Retention Rate .7	1 2 0	PRESENT - <u>AD</u> 292 .60*	_	BEST COPY AVAILABL
299 499 1AL HO 1 Home	16 16 82	37.2 385 37.3 37. 89.	363	8-6 1	Local Graduate Inflow Total Hew Gra Activity Rate	es dua	Retained tes	43 9 52 .97	175 5 180	537 5 542 .94	Ļ
OCTICE MURSES Private Duty Nurses Public Health Nurses SUB-TOTAL CATEGORIES Other TOTAL	15 47 15 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47 18 47	250 2031	(-4 ⊻ &	م م م	TOTAL PA Additto RN's by	TOTAL Projected Additional Active RN's by 1980	•	50 ⁺ 174 ⁺ 509 *Estimate based on State Average	174 t	+ 509 . erage	733
	Population	Number of RN's Re- quired by	Present Number of Active RN's	Additional RN's Required	Age + Attrition	•	Total Addi- tional RN's Required by 1980	Projected RN Supply by	ted by "	Surplus (Deficit)	_र ञ
Status Quo Optimum Level	302	935 1468	786	149	173		322 855	733		41 1 (122)	

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				6	1971-72 RH LI	ICENSURE DATA	o				
ACTIVITY STATUS	ATUS	34	AGE DIST	DISTRIBUTION	74	HIGHEST EDUCATIONAL PREPARATION	NAL PREPAR	ATION	FIELD OF	FIELD OF EMPLOYMENT	54
Active Inactive Active: Full-time 15-30 Hrs/Wk Less 15 Hrs/Wk	520 185 185 133 133	73.76 26.24 82.12 10.38 6.35	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete 101AL	48 96 170 125 55 56 50	9.23 32.69 10.58 5.00	Ho Degree BSN Bacc. Other MSN Master's Other Ph.D.	325 41 11 3 2 2	62.50 7.88 2.12 2.12 38 .38 .19	Hospital Nursing Home Sch. of Nsq. Private Duty Public Health School Nurse Industrial Nurse	₩	65.77 3.08 9.04 9.04 194
)TAL	250	100.00	1	1	1	T0TAL	250	100.00	Office Nurse Other Incomplete TOTAL	2627	1.92 1.92 100.00
C. DETERMINATION	N OF BEN	ND FOR RN's	DETERMINATION OF DEMAND FOR RN'S BASED ON ADOPTED RATIOS	TED RATIO	4		PPOJECTED	MATTERN BU SUBBLY PATTERN	PATTERN PRESENT	1980	BEST
114	Č.	o. of RN's Currently			~ ~ ~		. אמרכור		0 A0		COPY
•	_	Employed (FTE)	Achieve (FTE) Optimum Values	- 0,	Achieve (FTE) Optimum Values	Logal	Lotal Graduates		502		AV.
tal5	~ `		*			Regtor	Regional Retention Rate	ion Rate	. 682		ILVBI
9 8;		δ,	<u>157</u>			Local	Graduates Retained	Setained	344		Г
- 1 2 2 2 3 3 3	•		3. 2.			Inflow	. 12 4		13 27	8	
		306	533		227	Total	Total New Graduates	ates	13 371	36	
Nursing Home Nurses School Nurses		∓ 2 i	325		22 6	Activ	Activity Rate		76. 76.	.94	
Office Nurses Private Duty Nurses Public Health Nurses SUB-TOTAL CATEGORIES Other TOTAL	RIES	\$ 2 8 8 7 E	£ \$ 15 88	•	38 = 5	TOTAL Additi	TOTAL Projected Additional Active RN's by 1980	9	13 + 360	*	. 407
ι	RM's/100,000 Population		Rumber of RN's Re- quired by 1980	Present Number of Active RN's	•	Additional RM's Attrition		Total Addi- tional RN's Required by 1980	Projected RN Supply by	Surplus (Deficit)	lus c1t)
Status Quo Optimum Level	27 22	153 276	546 985	424	vo.	72 11	711	189	407	(2,2)	218 (221)

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REGION 10 1971-72 RH LICENSURE DATA

· Attactor	CYATHE	:	PACE DIC	ACE DISTRIBUTION		HICHECT ENICATIONAL PREPARATION	MAI PREPAR	11 ON	FIFID OF EMPLOYMENT	PPL OVNENT	
	2014	ı	nde oto	MASON ACON	. 24			34			14
Active		S		9	16.07	No Degree	194	, 63.61		196	64.26
Inactive	83 - STI	28.07	t	•	14.10	BSH	53	9.51	5	19	6.23
Active:			•	11	25,25	Bacc. Other	.	1.97	Driven or Asq.	<u>~</u> :	4.26
15-30 Krs/Ak		81.64	50 + 56 60 +	2:	24.92	Master's Other	- c	£,3	Public Health	<u> </u>	6.23
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 10	<u> </u>	Incomplete	35	. 56.39 2 20 2	Ph. D.	4 C	80	Y	12	3.93
Incomplete	•	; E	TOTAL	3 2	97.5 100 001	Incomplete	73	23.93	Industrial Nurse	_	.33
TOTAL	305 100.00	8		3	3	TOTAL	305	100.00	Office Murse Other	ල -	<u>چ</u> چ
					•			. *	Incomplete TOTAL	v	33
1		' ;	1 70 4154		i	1	I	ł		SI S	<u> </u>
CE LEMENA: 10	N OF DEFEND P	S 52 X	DETERMINATION OF DETWAY FOR MY'S BASED ON AUGUST KATTOS	IEU KAI 103				,			EST
		•	,	~	f Add1-		PROJECTED	PROJECTED RII SUPPLY PATTERN	ATTERN PRESENT	9861 -	C
,	No. of EN' Currently	of RY's rently	No. of Ri's Required to		₹ •		~c		0 A0	BSN	OPY
	Employ (FTE)	ployed (FTE)	Achieve (FTE) Optimum Values	.) Achieve es Optimum	ve (FTE) m Values	Local	Graduates		545		AVA
/ Hospitals			. •	•		x Regional	x nal Retention Rate	on Rate	586		ILAI
5		•	3 6			•					BLI
8	,		62			Local	Graduates	Retained	319		E
100 - 299 beds 300 - 499 beds			· 2/2	-		Inflow	. 1		5	13	•
TOTAL HOSPITALS	. 17	صِ	398	8	22	Total	* Hew Graduates	tes	5 328	13	
		~ ~	% TZ		61	Activ	x Activity Rate		76.	76 .	
_	. ~	نت ا	2	•	-1-						
Private Duty Nurses Public Health Nurses	•	229	82 23 23	*	∞ ⊶ 6	TOTAL Additi RW's t	TOTAL Projected Additional Active RN's by 1980	e e	+	+ 12	335
TAL	+	ナゴ			1					!	
v		:	•	•			Ļ	7000	And a si cond		
	Population	_ ,	Number of RN's Re- quired by 1980	Present Number of Active	Additional RN's Required	onal Age s Age treet to a	•	tional RN's Required by 1980	Supply by	Surplus (Deficit)	۲ <u>۵</u>
Scatus Quo Obtimum Lavel	221		276 580	276	, 0 EVE	8 8		8 <u>5</u>	335	247 (56)	
	}		3	•	3	3	•	;	}		

ACTIVITY STATUS	TUS	AGE DISTRIBUTION	RIBUTION X	HIGHEST ED	HIGHEST EDUCATIONAL PREPARATION	ARATION X	FIELD OF EMPLOYMENT	PLOYMENT
Active:	1,062 73.19	20 - 29	186 17.9		645	60.73	Hospital	95/
Inactive	ı	•	7			12.43	δ,	2,
Active:		•				3:		2
Full-time		50 - 59	241 22.(₹6.	e i	5 2
15-30 Hrs/VK	113 10.64	+ 09		6 Master's Other	ther 8	.75		23
Less 15 Mrs/MR	71 6.69	incomplete				50.	•	9
Incomplete		TOTAL	7,062 100.0	00 Incomplete		23.45		<u> </u>
TOTAL	00.001 290.00			TOTAL	1,062	100.00	Office Nurse	₹.
	₩.		•				orner incomplete TOTAL	- 56 1.062
	OF DEMAND FOR BY	DETERMINATION OF DEMAND FOR RN's RASED ON ADOPTED RATIOS	ED RATIOS	1	i	1	1	!
			,			3	***************************************	
	•	;		•	ZKMECIE	PRINELIEU MI SUPPLY PALIEM	PALLEM EXESENI -	3
	No. of RN's Currently		tional RK's Required to	w G		,	0 40	BSN
	Employed		Achieve	FTE)	•			Ì
	(TE)	Optimen Values	Optimum V	alues	Local Graduates	•	1152	375
25		S			Regional Retention Rate	tion Rate	(.70)(.259)	. 553
25 - 49 beds 50 - 99 beds		137			Local Graduates	Graduates Retained	- 618	207
• •		309		•	Inflor		. 2	63
500 + beds	678	, 936 936	258		Total New Graduates	uates	5 636	270
ž	19	321	260		X			2
	9	72	E 4		Activity Kate		76.	5
Private Murses Private Duty Rurses Public Health Rurses SUB-TOTAL CATEGORIES Other	+	69 87 1571	50 57		TOTAL Projected Additional Active RN's by 1980	e ^ ~	+ 419 + 5	. 254
		* 4	Present Number	Additional	•	Total Addi- tional RN's- Becuired	Projected RN Supp'y by	Suro
•	Population	1960		+	Attrition .	by 1980	1980	(Deficit)
Status Quo	122	949	296	(81)	247	529	918	4

REGION 12 1971-72 RH LICENSURE DATA

1.00 20 - 29 333 28.11 40 Degree 705 57.79 Hotopital 45 50 50 50 40 50 50 50 50 50 50 50 50 50 50 50 50 50	ACTIVITY STATUS		<i>(</i> **	AGE 01ST	AGE DISTRIBUTION	34	HIGHEST EDUC	HIGHEST EDUCATIONAL PREPARATION	ATION *	FIELD OF EMPLOYNENT	HPLOYMENT	34
Figure F	9 5 E 8 8		0.09 0.09 0.09 0.09 0.09 0.09	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete TOTAL	343 250 229 224 128 1,220		No Degree BSN Bacc. Other MSN Master's Oth Ph. D. Incomplete TOTAL	705 203 34 36 19 7 7 216 1,220	57.79 16.64 2.79 2.95 1.56 17.70 100.00	ital " of Nsq. stc Duty ic Health of Nurse strial Nurse molete	785 45 63 20 105 10 93 1,220	4 w w - 7 4 . v . v . v . v . v . v . v . v . v .
No. of Mys No.	DETERMINATION	OF DEMAND	FOR RN's	BASED ON ADOP1	_ TEO RATIOS	1	1 -	9	ŀ	1	I	. 8
No. of Nat. 8 No. of Nat. 8 tional Rivis			·	٠	-	₽		PROJECTED	RIL SUPPLY	;		EST
The continue of the continue		Gura	f RN's ently	_ ē		そっこ	,				BSK	COPY
12 13 14 15 15 15 15 15 15 15		3	16.5		O ,	- -	2	cal Graduates	7	420	1859	(· AV
199 beds 348 348 348 349 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 929 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924 924	24	,		12		٠.	Re	gional Retenti *	on Rate	60	05.	AILA
Murses 172 117 126 174 176 174 175 174 175 175 174 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 1		:		\$ \$			2		Retained	340	929	BLE
Nurses 15 1704 1706 1707 1705 1707 1705 1707 1705 1707 1705 1707 1705 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707 1707	667			2/1			ย	flow _	•		126	•
Number of Present RN's 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980	TOTAL HOSPITALS		\$\$	706	216		5	tal Kew Gradua	. Sets	,	1055	
## 15 71 56 TOTAL Projected ## 1281 289 -9- Additional Active ## 1281 289 -9- Additional Active ## 1281 289 -9- Additional Active ## 1281 289			500	79 6	2	. m š	Ac	tivity Rate	•	•	\$6.	
Number of Present Additional RN's Re- Number Additional RN's Re- Number RN's Age High Supply by Population 1980 - 1976 69 240 309 1461 286 1388 1076 312 240 552 1461	te Duty I C Health UB-TOTAL	+	25 88 82 2 20 84 25 88 25 28	77 89 1281	`&`i`&	,, d.a.	AA A	nal Projected ditional Activ is by 1980	é	•	* 266 +	3
236 1145 1076 69 240 309 1461 1 286 1388, 1076 312 240 552 1461 1 €	•	RN's/100,00 Population		mber of N's Re- ifred by		Add to	•	<i>2</i>	otal Addi- Ional RN's Required by 1980	Projected RN Supply by	Surplu (Defici	
	Stalus Quo Optimum Level	236 286		1145 . 1388.	1076 1076	3.6	. 88 2	240 240	309 552	1461	1152	•

REG10N 13

1971-72 RH LICENSURE DATA

ACTIVITY STATUS	STATUS	**	AGE DIS	AGE DISTRIBUTION	34		I LOCALIONAL PACTAMATION	,	, A		,	-	*
Active Inactive Active: Full-time 15-30 Hrs/Wk Less 15 Hrs/Wk Incomplete	232 104 176 1 232 1	69.05 30.95 75.86 17.24 6.47 100.00	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete TOTAL	23.2 23.2 23.2 23.2 23.2	30.17 18.53 19.40 18.97 8.19 4.74	No begree BSN Bacc. Other MSS Master's Ot Ph.D. Incomplete TOTAL	gree Other r's Other plete	127. 44. 66. 74. 74. 75.	54.74 18.97 2.59 2.59 0.00 20.26 100.80	Hospital Nursing Home Sch. of Nsg. Private Duty Public Healt School Nurse Industrial N Office Nurse Other Incomplete	Home NSq. Duty Health Kurse Nurse	232 0 245 232 0 245 245 255 255 255 255 255 255 255 255	62.93 3.55 4.25 6.00 10.00 10.00 10.00
DETERMINATION	ON OF DEMAND	AND FOR RN's o. of RN's Currently	41	TED RATIC	A Par	<i>.</i>		NECTED R	PROJECTED R4 SUPPLY PATTERN	` _A	PRESENT -	1980 NSI	BEST C
Mospitals 6 - 24 beds 25 - 49 beds 50 - 99 beds	57	e loyed (FTE)	Achteve (FTE) Optimum Values 59 46		Achieve (FTE)		Local Graduates Regional Retent Local Graduates	Local Graduates Regional Retention Race Local Graduates Retained	n Race etained		•	- -	OPY AVAILAB
			179	:	8 2		Inflow Total Ke	Inflow Total New Graduates		6 6	72	\$ \$	LE
25.52.2 25.52.2 25.52.2	urses Murses CATEGORIES +	55205F	23 23 353		2		Activity Rate TOTAL Projected Additional Acti RM's by 1980	r Rate Tojected 7		. 6	76.	2	130
TOTAL	M's/100,000 Population	1	Rumber of RW's Re- quired by 1980	Present Number of Active	•.	Additional RW's Regulired	Age Attrition	• • •	Total Addi- tional RN's Required by 1980	Projected RN Supply by 1980	cted by By	Surplus (Deficit)	୍ ଅ
Štatus Quo Optimum Level	155	ſ	197	202		(2)	= = =		ಸ್ತ	پ خصو	330	96	

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	ACTIVATY SI	STATUS	34	AGE D	AGE DISTRIBUTION	24	HIGHEST	HIGHEST EDUCATIONAL PREPARATION	PREPARAT	W *		FIELD OF EMPLOYMENT	MPLOYMENT	. 94
Active Inactive Active: Full-10-30-30-30-30-30-30-30-30-30-30-30-30-30	ve tive: Tull-time 15-30 Hrs/Wk Less 15 Hrs/Wk Incomplete	302 - L30 - 231 35 12 302 1	69.91 30.09 76.49 11.59 3.57 100.00	20 - 29 3 - 39 4 - 49 5 - 59 63 + Ivomplete TOTA:	33 30 30 30 30 30	18.87 23.18 20.53 18.54 12.91 5.96	No Degree BSN Bacc. Other MSN Master's Other Ph. D. Incomplete TOTAL	er Other	187 31 302 1	61.92 2.98 2.98 66 0.00 23.18	g ethotage	Home NSQ. Duty Health Nursc Nurse Nurse	86 24 25 25 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	61.59 4.97 4.30 10.26 5.30 0.00 4.97
i .	CETERMINATION	N OF DEMAND	FOR RN's	DETERMINATION OF DEMAND FOR RN'S BASED ON ADOPTED RATIOS	- OPTED RATI	' so	1	i	1	1	1	1	20°	9.0 <u>0</u>
* ** 0 * \$. Ser	o. of RN's Currently Employed	No. of RN's Required to Achieve (FTE				88	JECTED R	PROJECTED RU SUPPLY PATTERN	PATTERW	PRESENT AD	- 1980 BSN	BEST COF
Hospitals	a)s - 24 bods	7	(FIE)	Optimum Va	Velues Opt	Optimum Values	zi	Local Graduates x Rectonal Retention Rate	duates Retentio	n Rate		284		YA Y
	49 beds			121 66				Local Grac	Graduates Re	Retained		133		AILABI
88				237				Inflow			Ξ	=	11	LE
다. 1	TOTAL HOSPITALS		691	477		308		Total New	New Graduates	es	_	147	17	
School S	Nursing Home Nurses School Nurses		* R :	5.4.6		<u> </u>		Activity 1	Rate		.8810	.8810	1116.	
Private Public Succession 10	Private Duty Nurses Public Health Nurses SUB-TOTAL CATEGORIES Other	KIES +	267	788 788 788		524 524	•	TOTAL Projected Additional Active RN's by 1980	ojected al Active 1980		. 01	+ 130	<u>.</u>	- 155
		RN's/100,000 Population	a 1	Number of RN's Re- quired by 1980	Present Number of Active RN's		Additional RN's Required +	Age Attrition	15 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Addi- tional RN's Required by 1980	Project Projec	Projected RN Supply by 1980	Surplus (Deficit)	us <u>it)</u>
Status Quo Optimum Le	Status Quo Optimum Level	109 312		302 864	267		35 597	19	•	102		155 155	53 (509)	

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C LEVEL D	UTCUECT ENICATIONAL DOCDADATION	ACE DISTOIDUTION	ACTIVITY CTATIC
	1971-72 RN LICENSURE DATA	1971-	
	•		
	REGION 15		

				197	1971-72 RN LT	RI LICENSURE DATA	« !		٠			ı	
ACTIVITY STATUS	STATUS		AGE DIS	AGE DISTRIBUTION	34	HIGHEST E	DUCAT I ONAL	HIGHEST EDUCATIONAL PREPARATION	,	LIELLO	FIELD OF EMPLOYMENT	OVMENT	34
Active Inactive Active: Active: Full-time 15-30 Hrs/Wk Less 15 Hrs/Wk Incomplete TOTAL	764 – 227 – 583 – 91 – 91 – 764 – 764 – – – – – – – – – – – – – – – – – – –	73.39 26.61 76.31 10.47 1.31	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete TOTAL	123 137 229 162 67 46 764	29.97 29.97 21.20 21.20 3.77 6.02	Ho Begree BSN Bacc. Other MSN Master's Other Ph.D. Incomplete	ja +	504 65.97 67 8.77 10 1.31 5 .65 4 .52 1 1.13 173 22.64 764 100.00	l	Hospital Nursing Home Sch. of Nsg. Private Duty Public Health School Nurse Industrial Nu Office Nurse Incomplete TOTAL	e type e e e e e e e e e e e e e e e e e e	2522 88222	25.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
5	ON OF DEPAND	AND FOR RN's Currently Employed (FTE)	DETERMINATION OF DEMAND FOR RN'S BASED ON ADOPTED RATIOS No. of RN's No. of RN's tional Currently Required to Req	No. of tional Requires (c) Achieve	f Addi- 11 RN's ired to ve (FTE)		PROJECTED Local Graduates Regional Retent Local Graduates	PROJECTED RN SUPPLY PATTERN Local Graduates Regional Retention Rate Local Graduates Retained	PLY PATI	. <u>5</u> 69 69	•	08 NS	BEST COPY AVAILABLE
[turses Murses CATEGORIES	378 18 52 32 47 674 674	565 - 582 - 64 - 64 - 63 - 64 - 65 - 64 - 65 - 64 - 64 - 64 - 64 - 64 - 64 - 64 - 64	66 87 13 E	133 19 19 181	· · · · · · · · · · · · · · · · · · ·	inflow Total New Graduates Activity Rate TOTAL Projected Additional Active RN's by 1980	ew Graduates / Rate Ojected al Active 980	na te bas	5 23* 74 167* .97 .97 . 72 + 162* + 72 + 162* +	23* 167* .97 162* +	55 49 55 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	583
Status Quo Optimum Level	Population 208 434		Number of RN's Re- quired by 1980 733 1529	Present Number of Active RN's 674 674	Additional RN's Required 59 855	+	Age Attrition 148 148	Total Additional RN' Required by 1986	Mddi- RN's 886 - 37	Projected RN Supply by 1980 289 289		Surplus (Deficit) 82 (714)	~

BEST	COPY	AVAIL	AB	
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Active Active Inactive Active Full-time 15-30 Hrs/Wk Less 15 Hrs/Wk Incomplete TOTAL 6,6	5, 191 894 465 5, 607	73.44 26.56 78.57 13.53 7.04 100.00	AGE DISTRIBUTION 20 - 29	RIBUTION X 1,530 23 1,530 23 1,613 24 1,144 17 478 7 312 4 6,607 100		HIGHEST EDUCATIONAL PREPARATION HIGHEST EDUCATIONAL PREPARATION 16 Ho Degree 3,570 54 16 BSH 1,378 20 11 BSH 1,27 1 12 Haster's Other 75 1 12 Ph. D. 4 10 Incomplete 1,293 19	3.570 1.378 1.27 127 75 1.293 6.607	54.03 20.86 2.42 1.92 19.57	Hospital Hospital Nursing Home Sch. of Nsq. Private Duty Public Health School Nurse Industrial Nurse Office Nurse A79	4,363 183 220 336 223 223 223 479	* 30.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5
1	ı	. 1	l •I	,	1	1	i		Incomplete TOTAL	141 6, <u>6</u> 07	2.13 1 <u>0</u> 0.00

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DETERM	DETERMINATION OF DEMAND FOR RN'S BASED ON ADOPTED RATIOS	1's BASED ON ADOPT	ED RATIOS						
					PROJECTED RII SUPPLY PATTERN PRESENT - 1980	Y PATTERN	PRESENT -	1980	
	No. of RW Currently	Required to	Required to			Ol	8	BSN	
	EMPIONEG (FTE)	1			Local Graduates				
- 24	s ;	16			Regional Retention Rate				
	os os os os	4 03			Local Graduates Retained		2340	1558	
300 - 499 beds	sp sp	0/05 914 914			inflow	301	88	532	
500 + De TOTAL HOSP	ALS	6744	2851 424		Total New Graduates	301	2438	2090	
School Nurses Office Nurses		474 635	288		Activity Rate	8/96.	9678	.9264	
Private Duty Nurses Public Health Nurse SUB-TOTAL CATEG Other	Nurses 224 Nurses 224 CATEGORIES 5421 + 478 5899	9287 9287	237 3866		Additional Active	162	291 + 2359 +	1936 *4586	.4586
,	RN's/100,000 Population	Number of RW's Re- quired by o	Present Additional Number Additional Of Active RN's RN's	+ +	Total Addi- tional RN's Age Required Attrition = by 1980	i- Projected 's RN Supply by	cted v y by 80	Surplus (Deficit)	. FS
		1	•		1	i			

2239 (1909)

4586 4586

2347 6495

1050 1050

1297 5445

5899 5899

7196 11344

255 **4**02

Status Quo Optimum Level

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REG10N 17

1971-72 RN LICENSURE DATA

ACTIVITY STATUS	STATUS	**	AGE DIS	AGE DISTRIBUTION	>4	HIGHEST EDUCATIONAL PREPARATION # x	ATIONAL PREPA	ARATION X	FIELD OF	FIELD OF EMPLOYMENT	Ħ
Active Inactive Active: Full-time 15-30 Hrs/Wk Less 15 Hrs/Wk Incomplete	209 - 78 - 162 30 16 1	72.82 27.18 77.51 14.35 7.66 100.00	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete TOTAL	23 32 45 45 26 19 209	11.00 15.31 30.62 21.53 12.44 9.09	No Degree BSM Bacc. Other MSN Master's Other Pt. D. Incomplete TOTAL	134 255 5 0 1 209	64.11 11.96 2.39 0.00 21.05 100.00	Hospital Nursing Home Sch. of Nsg. Private Duty Public Health School Nurse Industrial Nurse Office Nurse Incomplete	129 77 6 9 9 7 7 7 20	61.72 8.13 3.35 2.87 2.87 4.31 8.61 8.61 0.00 1.91
Hospitals 6 - 24 beds 25 - 49 beds 50 - 99 beds 100 - 299 beds 300 - 499 beds 300 - 499 beds 500 + beds 500 + beds 500 + beds For Horses For Horses Office Murses Private Duty Nurses Private Duty Nurses Stubil Health Murses Stubil Health Murses Stubil Health Murses Stubil Health Murses	ds d	AND FOR RN's Currently Employed (FTE) 116 116 118 4 8 186 186	DETERMINATION OF DEMAND FOR RN'S BASED ON ADOPTED RATIOS No. of RN'S No. of RN'S tions Currently Required to Req	TED RATIOS No. of Ad tional Required Required Achieve (218 229 22 7 19 20 365	of Addi- al RN's ired to eve (FTE) um Values 79 22 7 7 19 20 365	NAT A T T T TAKE	PROJECTED Ris SUPP Local Graduates * Regional Retention Rate Local Graduates Retaine Inflow Total New Graduates Activity Rate TOTAL Projected Additional Active RN's by 1980	PROJECTED RNI SUPPLY PATTERN Graduates Graduates Retained Ity Rate Projected Ional Active	PATTERN PRESENT 0 A0 5 5 5 5 97 5 + 5	- 1980 -	BEST COPY AVAILABLE
Status Quo Optimum Level	RN's/100,000 Fopulation 146 417		Ruther of Guits Re- quired by 1980 184 525	Present Number of Active RN's 186 186	Additi RN' Regut (2)	ona] +	Age Attrition = 49	fotal Addi- tional RN's Required by 1980 47	Projected RN Supply by 1980	Surplus (Deficit) (24) (365)	" ⊐ ~

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1971-72 RN LICENS JRE DATA

ACTIVITY STATUS	TATUS	34	AGE DIST	AGE DISTRIBUTION	. 24	HIGHEST EDUCATIONAL PREPARATION	IL PREPARAT	10 ×	FIEL	FIELD OF EMP	EMPLOYMENT	×
يو ا	2,668 2,136 316 316 31 2,668	69.19 30.81 80.06 11.84 6.93 1.16	20 - 29 30 - 39 40 - 49 50 - 59 60 \top Incomplete TOTAL	529 560 636 552 273 118	19.83 20.99 23.84 20.69 10.23 4.42 100.00	No Degree BSV Bacc. Other MSV Master's Other Ph.D. Incomplete TOTAL	1,600 468 59 49 33 453 2,668	59.97 17.54 2.21 1.84 1.24 16.98	Hospital Nursing Home Sch. of Nsg. Private Duty Public Health School Nurse Industrial Nu Office Nurse Incomplete	ا الله الله الله الله الله الله الله ال	1,665 176 128 118 163 33 33 2,668	62.41 6.22 6.22 6.11 1.24 5.28 5.28 5.28 100.00
DETERMINATION OF DEMAND FOR	DN OF DEMAN	D FOR RN	RN'S BASED ON ADOPTED RATIOS	TEO RATIOS	l		l	· !	¥			BI
	, a	Ī	4	No. of Addi	Addi-	2	PROJECTED RIX SUPPLY PATTERN	SUPPLY P		PRESENT -	1980	EST
	<u>;</u> 3'	Currently			5 - C				OI	P	BSN	COP
•		Employed (FTE)	Achieve (FIE) Optimum Values	S Optimum Val	e (FIE) m Values	Local	Graduates		464	804	1782	/A Y
tals = 24			12			Regional	1 Retention Rate	n Rate	.875	.869	(095.)(605.)	IAILA S
•, i •, i •, i			121 121			Local	Graduates Retained	etained	406	669	935	BLE
- 299 - 4 99	•		808 805			Inflow			35	63	166	
500 + beds TOTAL HOSPITALS	١	1494	599 2717		1223	Total W	Total New Graduates	Š	438	762	1101	
Nursing Home Nurses School Nurses	\	157	366 216	,	21.5 21.5	X Activity Rate	y Rate		.97	.97	7 6.	
Office Nurses Private Duty Nurses Public Health Nurses SUB-TOTAL CATEGORIES	SORIES	126 188 155 2174	223 171 2115 3915	'	14 52 85 3 14 52 85 3	TOTAL Project Additional Ac RN's by 1980	TOTAL Projected Additional Active KN's by 1980		452+	739 +	1035 *	2199
Other	.	228 2402		,								
,	RN's/100,000 Population		Number of RN's Re- quired by	Present Number of Active RN's	Addit Pa Pegu	Additional Age RN's Age Required + Attrition		Total Addi- tional RN's Required by 1980	Projected RN Supply by 1980	ر و و ا م و	Surplus (Deficit)	·
Status Quo Optimum Level	208 348	& &	2554 4273	2402 2402	- 32	152 549 1871 549		701 2420	2199 2199	4	1498 (221)	

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•			1971-72	72 RN LICINSURE DATA	URE DATA					
ACTIVITY STATUS	TATUS X	AGE DIST	AGE DISTRIBUTION	₩	HIGHEST EDUCATION	EDUCATIONAL PREPARATION	VTION %	FIELD OF EMPLOYMENT	PLOYMENT	>4
Active	112 80.00 - 28 - 20.00	20 - 29 30 - 39			Degree)	61 23	54.46 20.54	Hospital Nursing Home	8 €. [42.86 2.68 9.83
	100 89.29	 	72	S T S	MSN WSN	m (m (888	vate	- 0 ;	90.5
15-30 Hrs/WK	7.14		on ⊲	 	Master's utner Ph. D.	o c	88	School Nurse	23	2. 2. 2.
7	3 2.68	TOTAL	112	8	Incomplete TOTAL	22 112	19.65 19.00	Industrial Nurse Office Nurse	000	6 6 8 8 8
	.		1	I	ı	1	i	Incomplete TOTAL	921	10.5 10.00 10.00
DETERMINATION		OF DEHAND FORMAN'S BASED ON ADOPTED RATIOS	TED RATIOS	l	I	•				
		:	No. of	Addi-		PROJECTED 6	PROJECTED RIS SUPPLY PATTERN	PATTERN PRESENT -	1980	BES
·	Ho. of RN's Currently	s No. of Require	tional Require					<u>0</u>	SS	T C
	FTE)	Achieve (FIE) Optimum Values	Achieve (F	Values	Local	Graduates	•	298)PY
:als - 24		7	•		Region	Regional Retention Rate	on Rate			AVAI
25 - 49 50 - 99		1 1 7			Local	Graduates Retained	Retained	229		LABI
- 299 - 499		= '	٠.		Inflow			5	23	E
500 + Deds TOTAL HOSPITALS	•	124	81		Total	Total New Graduates	tes	5 238	23	, b ,
	22			<u>.</u>	Activity	ty Rate		16. 76.	76 .	
Office Murses Private Duty Murses Public Health Murses		25.25	3. 15.		TOTAL Proje	Projected tional Active	د د	+		626
other TOTAL	+ 18 106		3 1	·					1	3
	RW's/100,000 Population	Number of RW's Re- quired by 1980	Present Number of Active	Additional RN's Regulred	al Age de Attrition		Total Addi- tional RN's Required by 1980	Projected RN Supply by	Surplus (Deficit)	lus (11)
Status Quo Optimum Level	101 213	135 286	9 8	29 180	77	மம ்	44 195	258 258	214	
										•

0
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5

				1971-72	줊	LICENSURE DATA	3				
,	ACTIVITY STATUS	TATUS	AGE DISTRIBUTION	RIBUTION X		RIGHEST EDUC	HIGHEST EDUCATIONAL PREPARATION	NRATION X	FIELD OF EMPLOYMENT	EMPLOYMEN	**
	Active Inactive Active: Full-time 15-30 Hrs/Wk Less 15 Hrs/Will Incomplete	737 73.33 268 26.67 596 80.87 89 12.08 38 5.16 14 1.90 737 100.00	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete TOTAL	131 148 149 149 28 737	17.77 20.08 25.10 20.22 13.03 3.80	No Degree BSN Bacc. Other MSN Master's Other Incomplete TOTAL	472 71 17 17 5 165 7	64.04 9.63 2.33 95 10.00	Hospital Nursing Home Sch. of Nsq. Private Duty Public Health School Nurse Industrial Nurse	448 33 33 50 50 66 66 66	60 64 64 64 64 64 64 64 64 64 64 64 64 64
571	1	1	1 8	1	i	i	1	1	Incomplete TOTAL	737	3.53 100.00 1
	DETERMINATIO	DETERNINATION OF DEMAND FOR KN'S BASED ON ADOPTED MAILUS NO. 0	'S BASED ON ADOPT	4	-ippi			PROJECTED RI SUPPLY PATTERN	PATTERN PRESENT	- 1980	BES
	. •	No. of RW's Currently Employed (FTE)	Required to Achieve (FTE)	tional Require Achieve Optimum	RN's ed to (FTE) Values	ند	Local Graduates		<u>0</u> A0	BSN	T COPY
168 1	Hospital 6 - 25 - 50 -		24 43 167			æ 7	x Regional Retention Rate Local Graduates Retaine	ial Retention Rate Graduates Retained	.808		AVAILAB
73	100 - 299 300 - 499	•	234 188			=	inflow		5 153	32	LE
	500 + Deds TOTAL HOSPITALS Murcips Home Nurses	4 02	36 20 20 20 20 20 20 20 20 20 20 20 20 20	504		<u>-</u>	Total New Graduates x	uates	2 690	4 6.	
	School Nurses Office Nurses	37.	67	333		ď.	Activity Rate		76. 76.	7 6.	
•		+	1390	798	1	F 4 22	TOTAL Projected Additional Active RN's by 1980	9	699 + 9	% & +	- 704
	ç	RN's/100,000 Population	Number of RN's Re- quired by 1980	Present Number of Active RN's	Additional RN's Required	+	Age Attrition =	Total Addi- tional RN's Required by 1980	Projected RN Supply by	Sur (Def	Surplus (Deficit)
	Status Quo Optimum Level	152 330	708 1537	657 667	41 870		170 170	. 211 . 1040	704	ਰ ਲ	493 (336)

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REGION 21 1971-72 RII LICENSURE DATA

ACTIVITY STATUS	ATUS x	ı	AGE DIS	AGE DISTRIBUTION	24	H IGHEST 6	HIGHEST EDUCATIONAL PREPARATION	PREPARAT	NO. %	H	FIELD OF EMPLOYMENT	PLOYMENT #	**
Active Inactive Active: Active: Full-time 15-30 Hrs/Wk Less 15 Hrs/Wk Incomplete	405 72 156 – 27 326 80 39 9 32 7 405 100	72.19 27.81 80.49 9.63 7.90 100.00	20 - 29 30 - 39 40 - 49 50 - 59 60 + Incomplete TOTAL	42 85 96 93 67 67 605	10.37 20.99 23.70 22.96 16.54 5.43 100.00	Ho Degree BSH Bacc. Othe MSN Master's O Ph.D. Incomplete TOTAL	er Other	226 55 66 108 405	55.80 13.58 1.98 0.00 26.67	Hospital Nursing Home Sch. of Nsg. Private Duty Public Healt School Nurse Industrial N Office Nurse Other Incomplete	Home Nsg. Duty Health Nurse Nurse	34 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	43.95 8.40 8.40 11.36 19.01 3.46 3.70
DETERMINATION OF DEMAND FOR RN'S	OF DEMAND FI	OR RN's	BASED ON ADOPTED RATIOS	PTED RATIO	رم ا								
	No. of RN' Currently	of RN's Trently	a)	No.	\$ 5 5°,		PRO	JECTED RH	PROJECTED RH SUPPLY PATTERN	ATTERN	PRESENT .	1980 BSN	
	ERPTOYEG (FTE)	E %	Optimum Values	ues Optimum	eve (rit) num Values		Local Graduates	duates			019		
ta ls - 24			14				Regional F	Retention Rate	Rate		.80		
25 - 49 beds 50 - 99 beds 100 - 299 beds		اس <u>د</u> م	53 49		•		Local Grad	Graduates Re	Retained		488		
- 499							Inflow			S	2	4	
TOTAL HOSPITALS	Ξ.	99	516		356	•	Total New Graduates	Graduate	Ş	S	493	· =	
School Nurses	,,,,,,	5 5 5	78 78	ì	3.25		Activity Rate	Rate		.97	76.	.	
Office nurses Private Outy Murses Public Health Nurses SUB-TOTAL CATEGORIES Other	•	32 33 4 4 2	864	e e e	24 24 530	,	TOTAL Projected Additional Active RN's by 1980	jected 1 Active 980		ru.	+ 478 +		522
	RN's/100,000 Population		Number of RN's Re- quired by	Present Number of 'Active	• "	Additional RN's Required +	Age Attrition	Total tfona Requ	Total Addi- tional RN's Required by 1980	F, oject RN Supply - 1980	F.ojected RN Supply by 1980	Surplus (Deficit)	, r
Status Quo Optimum Level	105	·	312 761	366 366	•	(54) 395	114		98 208	,	522 522	462	
						-							

APPENDIX B



SURVEY OF MOBILITY AND UTILIZATION PATTERNS OF PROFESSIONAL MUNSES

THE CHORDINATING SCARD HUPSING PROJECT	fallowing graduation.
1. SEX:(1) Male	Position City County bloke
3. AGE:(6) Divorced	12. Bets of orployment 13. Bets of resignation Reach Year
5. Bid you complete a Vocational Hursing program before enrolling in an R.W.	thath Year 10. Here you a master of the 4-mad Perces at this time?(1)Yes(2)Ne
4. Inmber of children program?	
(1) Yee (2) No	25. Was this position as
6. In the spaces provided, please indicate the year of graduation from each type	16. Announ for resignation
of program which you have completed. In the speces on the right, please indicate your major and exhapt attended.	(Abautta
In jor to Herotong Fronton Toot (Check if YEF) Scho Penn State	City County State
(1) Alexandr 12	18. Date of employment 19. Sate of resignation South Year
(7)Assesticts 11	\$0. Here you a master of the Armed Porces of this time?(1)Tes(2)No
(3) Annual Lourente 19	21. Not this position in(1) An Institutional setting
(%) Restore 19	(3) A Public Health or Community Agency (3) Other (openity)
	25. Interest for restignation
7. Since graduation from your first nutsing progress, approximately how many years have you been active in sureing? Tears	23. Please provide the fullowing information for the years indicated. Per Each For Each What Was the Dunber of Please Liet dere You En-
8. That is the highest educational level you plan to attain?	Por Each For Each What Was the Doubler of Pleasa List Ware You En- Tout In- Year, Approximate Months In Hy Nomber retired in A disacted, List All Pop. of Each Which You the Type of Mursing Pro-
(3) Beccalauroete(5) Pa.B	Reston In to Which Time of Your 1. Full-Time 1 .Institution the Vac?
(2) Associate Degree(5) Restarie	Which You Soulded Resided Resided 2. Fert-Time 2. Community 1. Dipleme 2.A.D. 3. Injection 2.0fd.on 3.850
9. So you plan to obtain the degree indicated above in Herying?	2.0ffsee 3.85H 6.0thur3.Postor's 3.Postorate
10. What is your process position?	1972
(1) Administrator or Assistant(5) Head Mures or desistant	1972
(5) Communitation(6) Commontal Duty of Staff	1971
(3) Supervisor of Assistant (7) Other friedre Specify)	1970
——————————————————————————————————————	1900 [2
t in the second	
25. If you exercised "Its" to the previous question, pieces specify the major estagories of extinition for which you full improposati. 1. 2. 2. 3. Be you feel that your hasis mursing advication has avovided you with "bills or grillite which, for any resear, you are currently unable in apply in your processes of mersing? (1) Yes (2) No 27. If you answered the previous question "Yes", pinces specify what these wassed abilities are. 28. What factors do you feel contribute to the lock of utilization of those oblition? 29. What factors do you feel contribute to the lock of utilization of those oblition? 20. The poor surrent position, ore you amaged is any unique or innevering ways of providing improved health eare? (1) Toe (2) No 31. If "Boo", please emplain. 32. Given a choice would you prefer to practice to a (1) Surrel acting (less than 3000 persone) (2) When contring (3000	Notice of the classified in each category. Design to be classified in each category.
ar thre partent) 23. In the setum on the <u>left</u> , please place a check in the space of the job setting in which you now work. In the setum to the <u>right</u> , place place a check baside the setting in which you would mare <u>like</u> to work if given a choice.	40. Moved you be more likely to extend C-E equives if they were developed epocifically few graduates of your particular type of meroing program? (AD, diploma, Mas) (1) Too(2) No(3) University.
PREFERENCE JOS SETTING PREFERENCE JOS SETTING	THE THE PART WAS INSTITUTED.
(1) Small heapitel (25-100 belo) (2) Nedian heapitel (100-100 belo) (3) Large medical enter (4) Shorring home (5) Surplus place (6) Shorring home (7) Large medical enter (8) Shorring home (9) Summity health setting (9) Summity health setting (9) Shorring home (9) Shorring home (9) Shorring health, VMA, etc.) (9) Shorring health, VMA, etc.) (9) Shorring health, VMA, etc.) (7) Shorring health, VMA, etc.) (8) Shorring health, VMA, etc.) (9) Shorring health, VMA, etc.)	

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Role Age ` Single Herried Ulderd, Diversed	So they you required to do a polif-evaluation of your emblement of apolific objectives?
	100; No
	6. This asserts: (chuck all that apply)
that is your closelfication? ist year student jrd year student ist year student jrd year student ist year student	o. Is unit organized within a logical conceptual framework b. Is framework with little apparent continuity from one unit to the mest a. Specifically builds on anomicope d. Could be expectly offertive if offered in enotion competed of the corriculum
and exempling ability of the faculty to the library and effected facilities to the aboresteristics of the students themselves. Since this study com-	a. Has 8 clearly enderstand reason for being required at this portioner time in the program (explain)
doc legisde such a broad range of factors, we are limiting our questions primarily to the <u>curriculus spatent and its presentation</u> , in responding to the questions please use the following statement as the definition of smrtiming.	7. The student receives information on sions topics, leb satignments, pas-1 a. For the gastine course at the beginning of the course
The term quericulum, as used in this study, refers to the sources of the study of sweles which lead to a diplost of a degree. This	6. For each unit, just before the unit begins 6. On a mostly busin
definition includes the philosophy of the school, organizational framework and come entropy mathematical processors of course content, relationship	a. Other (specify)
of objectives to clinical experiences and evaluation procedures. The definition, on stated, deep not apply to the quality of the facilities	a. 'Are followed executy so echeduled if or all possible
within which the presentation of the curricolum essure nor to tile erecentials or abilities of the faculty or students.	b. Are frequently standed unexpectedly without extense matification. The flat is also as the request of a majority of statutes.
COURSE TITLE	9. Quarte contents 4
to does this course have clearly defined, specific objectives for:	e. Apode to sever series in less details b. Reeds to cover fewer tapics in greater detail c. in detiafactory at is
e. The course as a whole Yed No b. Each major unit Yed No d. Each discorress session Yes No	10. In this course are there capies which are not 'saluded, but which, you fast, should have been?
d. Each etinical experience Yes 40	Too to if You, places specify
\$	and the state of t
Beveloped entirely by faculty before the course begins B. Given to the students as the course progresses Beveloped energy by faculty and students	Butting descenting to votations of speciffs unditions tigm, symptom and maintain transment of speciffs unditions time to give care and perform cartain programmes A belonded sumination of a, b, and c Other (appetly)
3. The student is espected to develop his own objectives for clinical experience in addition to those established in the course dutiling.	18. In this source, if knowledge of specific espects of biology, eleministry, populating, or sociology from provious near-sureing educate in required to expect this element:
to you receive an individual evaluation of your achievement of	6. The course repeats the information by The information is not represent, but the statume to proposable for 18
monthic objectives by a faculty member?	
-I-	
13. Same of the content is this enurse has been preceding in other <u>apriles</u> sources.	28- Supervision in the clinical tecting in this owner falls into which of the following compariso?
Yes to (Please specify topics:	a. An instructor is in the impeliate area at all times D. An instructor is not slueys in the area but is evaliable
No. The <u>dest frament</u> teaching author used in this course is:	an doll, by paging, att. d. Supervision is primarily by area stoff with page clinical conference with instructor d. Other
b. Group discussion c. Procentacions by admission	2. (valuation of your clinical performance in this course is bound and
d. Amile-visual madio (tapes, flies, sildes, Y.V.)	Place a church in the box for all that apply.)
f. Team teaching g. Other (apacify)	Written executed moves beet by instructor Supervision of instructor wishest supervising describetanism Substing of entireprenant of a list of aposities enjoustance which form team observed by an evaluator
15. The teaching method which is most offestive for so is this type of source is:	thick have been observed by an evaluator threshal potions early plan the state of
16. Analis essignments for this enurse utilizes	Die the provious question pipese rank this choices you nade extending
	to which factors have the greatest unight in descripting alleign)
d. Bibliography reference only	So the gest framewally used method of evaluation of theory in this attitude
7. Albi lagraphy references for this source:	e. Written objective tests
a. Are up to date with some references from Journals in the	- A. Arab companions
poet sin ophics of references mare than 4 or 5 years old	d. Classroom participation on Special Projects (specify)
9	Me Took laute to this environ
S. Clinical lab apparlaness are released to theory being currently	a. Are directly rotated to equalific expensives by Often explicates what you feel are clear detail
presented in class.	
B. Clinical superioses is sufficient in length to asster pressures and	
apply sheary under realistic conditions.	
in olicital experience do you fact would increme the device?	

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1. Is your proctice:(1) sole(2) partnership(3) group (number of physiciens)	78.	in your office. In Column 17, please ingo that you you'd arefer and could now employ
		CUMBITLY EMPLOY PREFER TO EMPLOY
22. Type of prectice or specialty / 22. Type of prectice or specialty / 23. Number of years in active prectice (e.g., <u> 5</u> or <u>0 6</u>)		(a) per
4. County in which you practice		(b) Lie
5. Papulation of the toun in which you practice:		(c) R.N
(1) loss than 5,000 (4) 100,000 - 259,999		(d) R.H
(1) less then 9,000 (4) 100,000 - 299,999 (2) 5,330 - 49,999 (5) 300,000 - 499,999 (6) 300,000 or more		(e) R.N
6. Number of bods in each of the nospite's in which you most frequently practice:		(f) R.K
((a) (b) (c) (p.g., 1 2 2 or 0 2 4)	13.	Within the past two years, have you employ has had no provisus experience as an R.N.?
7. that is the everage number of hours per uses that you normally spend in the baselest (e.g., 100 or 0.7.3)		(1) yes (2) no
8. If you are currently intologe in any of the following ectivities for have been within the past top years), please place a creek (/) in the blank to the left		If you answered "no", please skip to quest
of each option which applies:	1.0	questions 14 and 15. That type of professional program had the
(1) teach classes for professional nursing students on a regular besis (2) feach classes for R.K.'s on a regular basis	•••	
(3) member of a consistence to extension local or statewide need for nurses (4) on board or advisory committee of a school of nursing (5) member of a committee concerned with nursing education (other than		(1) Diplome(3)(2) Associate Degree(4)
apries 4) amount of a latera or local committee concerns with the utilization	15.	Wes it necessary for you to teach the new should have been learned in nursing school
ef nurses (7) other (please specify)		If "yes", please specify
9. What are the major functions of the nursing staff currently employed	16.	Do you test that graduates of any particul A.D.M., or B.S.M.) make better nurses, in
in your efficient		types of programs?
		(1) yès (2) no
		if "yes", please specify the type of progr of that type of program are different.
io. Do you personally interview the nurses to be employed in your office?(1) yes(2) no		
ii. Mas you employ a Registered Nurse in your attice, do you verify her license with		
the Board of Hurse Examiners?	17.	Do you pay a salary differential for education you employ in your efficient
(1) yes (2) es		(1) yes (2) no
•		
18. If your magnitud patients are assumed to a professional nursing student relief than a staff side, L.V.N., or film, do you feel you should be notified?	25,	Plause indicate which type of 7.5. graduate of the following areas. If you foll that
(1) yes(2) ne		well, check more than one circle (②).
19. What are the dest important characteristics or qualifications which who look for:		A.D. DIP B.S. OPINION
IN AN OFFICE HURSE IN A ALASE ON A HOSPITAL DIVISION	/	(a) giving good :
· · · · · · · · · · · · · · · · · · ·	ſ	O O O (b) managing * p
	<i>.</i>	(c) recognizing require after
		O O O (a) coping with
(v)		O O O (ol providing pa
 What are the major functions which should be expected of nurses with sech of the following educational levels: 		O O O (1) smargancy st
IN A PHYSICIAN'S OFFICE IN A HOSPITAL SETTING		O O O (g) other (please
, (a) L.Y.M	26.	Do you feel that some hospitals and/or nur nursing care than othersT
(P) R.M A.O.		(1) yes (2) no
E E Callet A.M Diploma		if "yes", pieces since a check in The Sire below which is a significant factor in the
		(a) availability of motorn faci
(a) R.H Nester's		(a) many emperiposed nurses (re
3. Do you usually know the oducational level of R.H.'s with whom you frequently users in the hospital setting?(1) you(2) no		(c) philosophy and administrati
if you ensured "mg" to the stove,		O(d) also of partient divisions
(2) depon't mane any difference		(a) higher educational level of
22. Should number be required to have a specified amount of continuing education in order to renow their license?		O(f) lower rate of Job turnover
(1) yes (2) 40		(g) evaluability of intensive C
25. So you provide job release time with pay for murses in your effice to attend gestinging education progress?		(h) other (places specify)
(1) yee (2) no		New, in quarties 25, places rank those for
The the second second second and second second second second by		their importance in influencing nursing 64
having & course together which emphasized collaboration in empine patient		black to the right of your "exected circle
<u>UC</u>	'5	178
Provided by ERIC		

12.	in your effice. That you <u>would</u> g	in <u>Column II</u> , plan refer and could now	per of hurses in each cetagory noise indicate the number in each cat employ if they were graitable.	erployed
	CURRENTLY EFFLOY	PREFER TO EMPLOY		
		`	(a) persons without formal nursing	- odutation
			(b) Licensed Vocetional Nurse	
			(c) R.N Diploma graduate	
			(d) R.H Associate Degree gradue	i to
		— .—	(e) R.N Baccelaureere graduate	
		,	(f) R.K Moster's Degree or Hum tioner propuration	a Praeti-
13.	has had no pravi	nus experience as a	enplayed a new graduate in your a R.N.?	iffice who
	(1) yes		<i>F</i>	
	oustions 14 and		p question (6. 17 "yes", places (Mover
14.	that type of pre-	leeslanel program h	ed the new graduate completed?	
	(1) Diplom	ito Dograe	(3) Secceleureets (4) Don't know	,
15.	Was It necessary	for you to teach t	 ne new greduate any skills which y	
		specify	school? (1) yes	(2) 🖚
i 6.	Do you test that	graduates of any p	erticular <u>type</u> of R.H. program (Di es, in general, then graduater of	
•	(i) yes	(2) no		
		specify the type o	t program and explain in what ways	graduates
				·
17.	Do you pay a said when you employ		r educational level to the Registe	rad Norton
	(1) yes	•		
25,			raduate you feet is most effective. That several categories function	
	well, check more	than one strain (That suverel categories function).	-
	A.D. DIP B.S.	MO GPINION	-	
,	000		good physical care and performin	g trapt-
	000	· ·	procedures	
	200	· ^ ·	ing a patient core division Nizing changes in patients' quadit	lens shirt
			e attention	·
	$\tilde{\lambda}$	(e) cospin	with emotional needs of patients	ans families
	888		sing patient teaching	
	δ	× .	oncy situations	
	000	O .	(a) a saint been la more ann ann	
	nursing care that		for nursing himes in your eree pro	
	(1) yes	(2) no		
	if "yes", please	since a check in I	ng <u>circle</u> ((()) to the left of each in the institution which provide	k aptigk botter apro.
	\sim		n facilities and aquipment	
	Ξ		ues (regardiese et educational los	wi)
			istrative ability of director of A	wrsing
		irvice iso of patient divi	. Jana	1
	X —	ighar aducational i		. '
	×—	puer rate of Job tu		•
	<u></u>	*	naive care units with specially to	banle
	·	ursing staff		
	· · · · · ·	ther (places spec) (Anaton which was checked sect	reine to
			sing care, with "I" being the meat a year checked and place the number	

7.	Please ladicate by placing a check in the circle ((()) if you approve or disapprove of using R.M. is in physicians! offices to perform the following functions:							31. To your browledge, is there e shartege of R.H.'s in your		
	-	SW YOM	'	¥-	,		1	, ,		If "yes", (s) what type R.N. Is in greatest demand? (f
	Ŏ	Ŏ	(a) ta	no reci 11 h	istories					
	Q	Q	(b) da	_health scn	maning proc	codures			Γ	(b) what go you feel would be the most effective we
	0	0		wasel with painter						nursing shortage in your eres?
	0	0		ifor patient pportive of				would de ith problems		
	0	0	ça di	te tors vis tients' sta scuss nome ariga, etc.	tus such a	s diet, d	ressing cha	nges, 8P's,	Ŀ	32. What charges do you 'eet are needed in nursing improve the quality of professional nursing pr
	0	0		neugt group stectosies,						
.				g petients er with a X				needs to an		The staff of the Nursing Project realizes that it is impossible to
	(1) 1			ine oplems would	you consid	der for r	referral? _	*	-	rent issues of nursing education and utilization patterns in a que type. If you have opinions or suggestions about nursing topics th ically mentioned or if you wish to eleborate on topics that are in
				<u> </u>						appreciate your comments.
Ð.	in the char type of R.I	rt below K. gradu	, please ste you f	indicate by	piecing a propered	check in	the circle in the job s	(()) which settings list	ed.	•
		9	perating Rom	Emergency Room	intensive Care		inservice Equation	Physicians' Office		
	4	.	(<u></u>		Ö	(a)	· (°)	Ö		
	Appeciate	Lagree	\tilde{c}	ă	$\stackrel{\sim}{\sim}$	ŏ	ŏ	Ŏ	7	
	Diploma Bapcalaura	ate	ŏ	ŏ	ŏ	ŏ	ŏ	Ŏ		
J 4-	in your re	gi€i, is	it more	difficult 1	to fiel R.N	. 205:11	ons in :			
	(i)	hanp i Til I	•		(3) other			,	-	•
	(2)	physici e	ne' offi	ces	<u></u>				_	• • • • • • • • • • • • • • • • • • •
						~				

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SURVEY OF LICENSED VOCATIONAL NURSES Conducted by THE COORDINATING BOARD - NURSING PROJECT

Places place a check (A) in the appropriate blank.	(2) Nursing Home Steff 7
t. Sem:(1) Male 5. Location of L.Y.M. program from which you graduated.	(3) Office Nurse
2. Marital Status:	 Please check each of the statements which in L.Y.N. program.
(1) Single County State Do Not the	(1) To find out if I liked nursing
(2) Married 6. Year of graduation	(2) Only type of nursing evaluation in
(4) Olverand 7. Wille in your L.Y.N. progress did you receive	(3) des not familler with other types
3. Age: (1) Yes (2) No	(4) Old not went to spend more than o
4. Number of children under 2. 8 loan? (1) Yes (2) No (2) No (2) No (2) No (3) 8 scholership?	(5) Other (please explain)
,	14. Are you currently enrolled in an R.N. prog
·	(1) Yes If "yes", what type?
•	
	(2) No
	. 2
	•
List your reasons for deciding to enter on R.M. program.	19. Have you ever been required to be charge n
CIST YOU TOURS TO SECTION TO SHIRL FOR THE PARTY OF THE P	hospital or nursing home for an entire shi
Why did you choose this particular type of R.N. progress	in your present position?(i) Y
may are you choose this particular type of him. program	In other positions? (1) Y
An an annual and the section of the base 11 May 17 May	if "yes", on what shift(s) have you been I
19. Are you <u>currently</u> enrolled in a college program of any type?(1)Yes(2)Mo	(1) Days (2) Evenings
If "yes", please specify	20. Did your L.V.N. program provide you with t
16. If you are not currently enrolled in a college, please indicate which of the fellowing choices best describes your present educational plans.	act as a feam feeder or charge nurse?
(1) No further formal educational programs	(1) Yes (2) No
(2) Plan to enter on R.N. progrem to obtain a <u>Dipigne</u> (3 yrs.)	If you assured "no", do you feel that L.Y competencies?
(3) Plan to enter an R.M. program to obtain an <u>Associate Degree</u> (2 yrs.)	(1) Yes (2) No
(4) Plan to enter an R.N. program to obtain a <u>Backetors Degree</u> (4 yrs.)	21. Please check the two inservice or continui
(5) Plan to enter a Junior College but not major in nursing	of <u>aroutest</u> benefit to you. (Check no mor
(6) Plan to enter a University but not major in nursing	(1) New equipment and procedures
(Other (piece specify)	(2) Nore about actions of drugs _
17. that is your present general education level?	(3) Now to be a tigan leader
Years of High School completed (circle the appropriate number of years) 1 2 3	d (d) Nore exercise or physicially about diseases
Did you receive a diplome by	22. In your present job, do you work with any
(I) completing 4 years of High School?	education in other countries?
(2) passing the G.E.O.Y	(1) Yes (2) No
Years of Callege comp. ted (circle the appropriate number of years) 1 2 3	23. Are there factors which would prevent you attractive job offer in enother geographic
The that is the highest educational level you plan to attain?	30 alles from your current restances
(1) High School Diploms(5) Masters Degree	24. On you feel that there is a shartuge of L. the larger cities and towns in the state!
(2) Diplom in Norsing(6) Distorate	
	25. Which of the following programs do you for L.V.M.fat (with all programs having noting
(4) Beasslaureete Segree	(1) Heapital Operated(3) :
	(2) Public Spheri (4)

۵.				
	Type of L.V.N. program from which you gruduated	7.	Are you currently	
	(1) Public School Program		(1) active?	
	(2) Hospital Operated		(2) Inactivat	
	(3) Junior College		(3) retired?	
	(4) Quelified based on com- pletion of 2 years in	. 10.	If <u>ective</u> , how long h employed	ave you been .
	en R.N. programme		(a) In your present p	05 T 00 1 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
	(5) Other (please specify)		(b) In your previous	position?776.
	<u> </u>		(c) total years of an	ployment es en
11.,	What is your <u>present</u> field of emp	l cymen t	1	
	(1) Hospital	_	(4) Private Duty	
	(2) Nursing Home		(5) Other (please s	pacify)
	(3) Office Nurse		\ <u> </u>	
12.	in the space beside each type of experience you have had in that p area, write "0".	job, ple og ítion.	ese write the number o . If you have never w	of years of bried in the
	(1) Hospital Staff	_	(4) Private Duty	•
	(2) Nursing Home Staff	' _	(5) Other (please :	pacify)
	(3) Office Nurse			
13.	Please check each of the statemen L.Y.N. program.	ts which	n influenced your deci	sion to enter en
	(1) To find out if I liked	nursing		•
	(2) Only type of nursing ev	el lable	In my community	
	(3) das not familiar with o	ther ty	pes of nursing program	•
	(4) Old not went to spend #	ore the	n one yeer in school	
	(5) Other (please explain)		<u> </u>	
14.	Are you currently enrolled in an	R,N. pr	ogram of any type?	
	(1) Yes If "yes", w	het typ	e?(1) Diploma	
	(2) No		(2) Associate	
			(3) Buccelou	reate
	41"	2		
				_1_1
. 19.	Have you ever been required to be			ALBIAN IN A
	hospital or nursing home for an o	entire s		
	In your present position?		Yes (2) Mo	
	In your present position?	(1)	Yes (2) No	
	In your present position?	(II (II	Yes (2) No	i that apply)
	In your present position? In other positions? If "yes", on what shift(s) have y	(1) (1) you bear	Yes (2) No	
30.	In your present position? In other positions? If "yes", on what shift(s) have y	(f) you been Even! you w!!!	Yes(2) No In charge? (check at igs(5) At	ghte
20.	In your present position? In other positions? If "yes", on what shift(s) have y	(f) you been Even! you w!!!	Yes(2) No In charge? (check at igs(5) At	ghte
20.	In your present position? In other positions? If "yes", on what shift(s) have y (1) Days(2) Did your L.V.N. program provide act as a team leader or charge in (1) Yes(2) No	(f) you beer Even!r you w!!!	Yes(2) No in charge? (check of igs(5) at the knowledge and ski	nhte He needed tu
20 .	In your present position? In other positions? If "yes", on what shift(s) have y	(f) you beer Even!r you w!!!	Yes(2) No in charge? (check of igs(5) at the knowledge and ski	nhte He needed tu
20 .	In your present position? In other positions? If "yes", on what shift(s) have y (1) Days(2) Did your L.V.M. program provide y act as a team leader or charge in (1) Yes(2) No If you answered "no", do you fee	(f) you beer Even!r you w!!!	Yes(2) No in charge? (check of igs(5) at the knowledge and ski	nhte He needed tu
	In your present position? In other positions? If "yes", on what shift(s) have y (1) Days(2) Did your L.V.M. program provide y act as a team leader or charge in (1) Yes(2) No If you asswered "no", do you fee competencies?	(1) you been you will ursel . I that I	Yes(2) No In charge? (check at igs(3) At the knowledge and ekiY.N. programs should wing education program	nite Its needed to provide these which would be
	In your present position? In other positions? If "yes", on what shift(s) have y (1) Days(2) Did your L.V.M. program provide y act as a teem leader or charge no (1) Yes(2) No If you answered "no", do you fee competencies? (1) Yes(2) No Please check the two inservice of	(1) row bear Even ir you with ir that i	Yes(2) No In charge? (check at igs(3) At I the knowledge and skiY.N. programs should wing education program ove then two responses	photo meson to provide meson to which would be
	In your present position? In other positions? If "yes", on what shift(s) have your (1) Days	(1) rou beer pou with urse? I that I r contin	Yes(2) No i in charge? (check all igs(3) All i the knowledge and ekiY.N. programs shouldY.N. programs should	provide mase se union would be
	In your present position? In other positions? If "yes", on what shift(s) have your care as a team leader or charge met care charge met care as a team leader or charge met care	(1) row bear Even ir you with urse? i that i r contin eck no i adures drugs	Yes(2) No in charge? (check of igs(3) Al ithe knowledge and ekiY.N. programs should wing education program wore than two responses(5) Meel th need(6) Meel th need(6) Meel th ineed(9) Meel th need	provide these so which would be the in the community alless a pathnice
	In your present position? In other positions? If "yes", on what shift(s) have your care as a team leader or charge met care charge met care as a team leader or charge met care	(1) row bear Even ir you with urse? i that i r contin eck no i adures drugs	Yes(2) No in charge? (check of igs(3) Al ithe knowledge and ekiY.N. programs should wing education program wore than two responses(5) Meel th need(6) Meel th need(6) Meel th ineed(9) Meel th need	provide these so which would be the in the community alless a pathnice
21.	In your present position? In other positions? If "yes", on what shift(s) have yet. (1) Days	(1) rou beer (1) Even ir you with urpe? . I thet i r contin eck no i edures drugs	Yes(2) No i in charge? (check all igs(3) All i the knowledge and ekiY.N. programs shouldY.N. programs sho	provide these is which would be in the designity affects a path sixt
21.	In your present position? In other positions? If "yes", on what shift(s) have your care as a team leader or charge met care charge met care as a team leader or charge met care	(1) rou beer (1) Even ir you with urpe? . I thet i r contin eck no i edures drugs	Yes(2) No i in charge? (check all igs(3) All i the knowledge and ekiY.N. programs shouldY.N. programs sho	provide these is which would be in the designity affects a path sixt
21.	In your present position? In other positions? If "yes", on what shift(a) have yet. (1) Days	(1) row beer Even ir Even ir row with row with a	Yes(2) No in charge? (check of in charge? (check of ings(3) All the knowledge and ski the knowledge and ski the knowledge and ski the knowledge and ski the knowledge(5) Neel th need(6) Neel th need(7) Word managery nurses who received	the needed to provide these to which would be in in the descripty affects a participal that fall.
21.	In your present position? In other positions? If "yes", on what shift(s) have your can be a shadown act as a team leader or charge me campatencies? (1) Yes	(1) rou beer (1) Evenir rou with r contin ect no i edures drugs r uith a event y geograp	Yes(2) No i in charge? (check all igs(3) All i the knowledge and ski .Y.N. programs should wing education program bore than two responses (5) Meel th need (6) How I i inser(7) Word manage try nurses who recolved	provide more growide more to which would be (a) (a) in the community to effects a pathnixt (ment
21.	In your present position? In other positions? If "yes", on what shift(s) have yell to be a stan leader or charge not as a team leader of you assured "no", do you fee competencies? (1) Yes	(1) rou beer (1) rou beer pou with r contli eck no i eck no	Yes(2) No in charge? (check all igs(3) All if the knowledge and ekil if the knowled	provide these se which would be in the community actions a partition main R.H.
21.	In your present position? In other positions? If "yes", on what shift(s) have yell act as a team leader or charge me can a steem leader or charge me can also be a steem leader of the steem lea	(1) rou beer (1) rou beer pou with r contli eck no i eck no	Yes(2) No in charge? (check all igs(3) All if the knowledge and ekil if the knowled	provide these se which would be in the community actions a partition main R.H.
22.	In your present position? In other positions? If "yes", on what shift(s) have yell to be a stan leader or charge not as a team leader of you assured "no", do you fee competencies? (1) Yes	(1) row beer (1) Even ir you with r contil eck no i edures drugs r logy with a event y- geograp encor tage of the state	Yes(2) No in charge? (check at igs(3) At ithe knowledge and ekt is the knowledge and ekt in the knowledge and in the ext in the ext of the ext in the ext of the ext of the ext in the ext of the ext of the ext in the ext of the ext of the ext of the ext in the ext of	provide more se which would be in the assembly affects a partitive ment Their R.H. (1) Yes (2) to (1) Yes (1) Yes (1) Yes (1) Yes
22.	In your present position? In other positions? If "yes", on what shift(s) have your care, on what shift(s) have you care as a team leader or charge not as a team leader or charge not care as a team leader or charge not care as a team leader or charge not go you fee competencies? (1) Yes (2) No If you answered "no", do you fee competencies? (1) Yee (2) No Please check the two inservice of gravies? benefit to you. (Characters to you. (Characters to you. (Characters to go you early should be a team leader (3) How to be a team leader (4) Hore energy or physical about diseases. In your present job, do you work education in other countries? (1) Yes (2) No Are there factors which would prattractive job offer in another 30 alice from your curront reside. On you feel that there is a short the larger cities and forms in the larger cities and cities an	(1) rou beer (1) Fron beer (2) Even in rou with r contil eck no i edures drugs r logy with a event y geograp most tage of he state de yeu wing no	Yes(2) No i in charge? (check all igs(3) All i the knowledge and ekil in the knowle	provide more se which would be in the assembly affects a partitive ment Their R.H. (1) Yes (2) to (1) Yes (1) Yes (1) Yes (1) Yes

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PLEASE CIRCLE THE HUNDER IN 1/2 (2014) THAT BEST INDICATES YOUR ATT), 22 (AARD EAGL OF THE STATEMENTS BY OK. PLEASE OD BEST EXIP ANY QUESTIONS.	Strongly Agree	***	Under 1 de d	Disagree	Strongly Disagree
	<u></u>		<u>۔</u>	4	<u>.</u>
a. I an esticited with my present job.	- 3	2	3	4	5
b. I am fully utilizing my capabilities.	1	2	3	4	3
G. The selecy i receive is satisfactory for the job i have.	٠,	2	3	4	,
 I receive adequate recognition and credit for the work I do. 	1	2	3	4	,
e. i think that i am capacis of functioning at a higher level now if i were allowed to assume other responsibilities.	1	2	3	4	5
f. I believe that I am quelified to function as a feat leader or charge nurse.	1	2	· 3	4	5
g. I believe that L.Y.N.'s do everything that R.N.'s de	. 1	2	3	4	5
B. The selectes of L.V.N.'s should be closer to those R.M.'s receive.	1	. 2	3	4	,
 I feel that I have hed to assume responsistiffies and perform functions to: which I am not prepared. 	1	2	3	4	5
 Mara L.V.N.'s would enter college R.M. program if they received some automatic college credit for tweir L V.N. preparation. 	1	2	3	•	,
8. Breductes of L.V.N. programs which are not incorted in colleges or universities should not receive quilege credit when they entur on R.N. program.	1	2	3	4	5
8. Graduates of gay L.Y.M. program should receive some automatic sollings credit when they enroll in an S.M. program.	1	. 2	>	4	5

	(1) K changes	(6) More leadership experience
	(2) Longer program	(7) Shorter program
	(3) More classroom work	(8) Hore clinical asperiences dutaid:
	(4) Hore clinical experience	(9) Other (please explain)
	(5) Should be more on a coilege level (such as a community coilege)	
26.	Do you think that current health or Y.N.'s in specific jeb settings?	are dulivery trends will affect the meed for
	(1) Yes	
	CALL IN THE CALL IN TAR . The Control	. — — — — — — — — — — — — — — — — — — —
	(2) No) exp(010)
ZV.	A, student who attends college for linears of credit. How many sensates	12 sonths could earn approximately 42 semester r hours of college credit do you think an i. program when she enters on R.H. program?
ZV.	A, student who attends college for linears of credit. How many sensates	12 months could earn approximately 42 semester hours of college credit do you think an
2 9.	A, student who attends college for lifours of credit. Now many sensets: L.V.N. should receive for her L.V.R.	12 months could earn approximately 42 serester hours of college credit do you think an
2 9.	A student who ettends college for hours of credit. How many sensetes L.V.N. should receive for her L.V.R. credit hours	12 months could earn approximately 42 serester hours of college credit do you think an
29.	A student who ettends college for hours of credit. How many sensetes L.V.N. should receive for her L.V.R. credit hours	12 months could earn approximately 42 semester hours of college credit do you think an

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	(Clty) (County) (State) (Year)
1. Sex:	It. In what city and county era you living while attending this school?
2. Aprital Status:	(Clty) (County) (State)
1. Single 2. Married	12. Where were you living at the time you applied for admission to this
3. Apr	nursing gragram?
4. Name of Hursing School you are presently extending?	(Elty) (County) (State)
S. Please check the type of program you are attending and your year of	13. What is the approximate distance from this school to the city listed in the previous question?miles (if same city put '9")
attendance. 1. Biploma 3. Associate Dagree	19. What is the name of your hometown or permanent residence?
- lst Year - lst Year - 2nd Year	(City) (State)
2. Saccalaureata A. Graduate	15. What is the approximate population of your hometown?
Ist Year Ist Year Ist Year Ist Year	1 Less than 1,000
3rd Year 3rd Year	2. 1.000 to 2.499 3. 2.500 to 4.995 4. 5,000 to 9.999
6. What is your expected datc of graduation: (month) (year)	5 10,000 to 24,999 6 25,000 to 49,999
7. Are you a	7. S0,000 to 99,999 8. 100,000 to 249,999
Full time student (!2 or more semester hours) Part time student (less than 12 semester hours)	9 250,000 to 499,999 10 500,000 to 999,999
8. Do you:	11 1,500,000 or more 12 0e not know
Commute from outside the city limits Live on compus or in the city where the school is located	16. Be you have family responsibilities that would prevent you from ettending a school in another geographic area?
9. If you commute, what is the approximate distance from your residence to campus?	1. fes 2. No
1, 0 - 9 miles 	17. Is this school the closest R.H. program of any type to where you
3, 20 - 29 miles 4, 30 - 39 miles	were living when you applied for admission?
5. to - t9 miles 6. 50 miles or more	1. Yes 3. No 3. No 3. Bo not know
	3. 80 NOT WHOM
-1-	-2-
18. Why sid you choose to enter this particular type / logram? (Dipluma, A.D., or Baccaleurea.e)	24. If yes, what type of assistance is applicable to you?
4. 20.00.00	1. Scholarships 2. Army Student Assistance Programs
19. New many schools of nursing did you investigate before choosing this school?	3. Mavy Student Assistance Programs 4. Air Force Sponsored Program
	5. Nurse Trainmenties for R.N.'a 6. Government Student Loans
28. New did you first obtain information about this school?	7. Other Type Loan B. State Stipend
1. You requested information. 2. The school SENT YOU information. 3. You received information through a Carears Program.	25. Hes a member of your family ever attended this institution?
6. Other (plasse specify)	
21. Please indicate those factors that influenced your choice of this	36. If yes, in:
particular school. (Plaase check in the boa)	1. Bursing
	2. Another Major (specify) 27. Prior to admission to this school of nursing did you have any experience
3. Length of the program.	certification, or Icansure in a health field?
4. Availability of part-time work.	1. Yes '2. No
	28. If yes, in which of the following fields:
6. Reputation of the program.	1. Velunteer work
7. Eulturel or entertallment advantages of the city.	2. Armed Fercas 3. Future Hurse Club 4. Technicism Seculation (seculfu)
8. Recommended by friends or countelors.	5. Licensed Vecational Murse - program attended 6. Nurses Alde
9. Availability of theilangs came or credit ellowed for recognition of prior hyrolog experience.	7. Ordarly
10. Transferability of credits from other institutions.	9. Other (please specify)
11. Family member on active duty at nearby military installation.	29. Do you hold a degree in a field other than mursing?
13. Other. Please specify]. Yes (please specify)
	30. Are you interested in working in one of the following areas of empanded nurse practice? Yes No if yes, places indicate:
22. How place rank, in order of importance, those factors which you checked in the share question. Use "i" for the most important factor. Flace the support in the blank to the left of the "checked" box. Remamber, rank only	1. Padiatric Burse Prostitioner
these factors for which you checked the hos.	2 : Family Hurse Practitioner 3. School Hurse Practitioner 6. Clinical Specialist (places specify)
23. Was year chains of a nursing enhant influenced by the evaluability of financial essistence?	6. Clinical Specialist (places specify) 5. Other (place specify)
1. Yes 2. 80	179
	182

	New many institutions of higher education have you attended other than the BE one in which you are currently enrolled?	0000	AVAILABLE
31.	has many institutions of higher education have you attended other than the	st wri	New, please rank in order of importance those factors which you chacked in
32.	- Treate its the institutions ottonged and indicate the duration of attendance.	•	the above question. The "!" for the most important factor; "2" for the second most important, etc. Please place the number in the blank to the laft of the "checked" box. Rank only those items for which you checked
	List the most recent school first. Length of Ting in Attendance Rome of institution helor Loss than I year 2 years 3 years		the box.
	Rome of institucion holor Less than year years years years	₩.	In what area of nursing-practics would you like to work the year fallewing your graduation?
	- 0 0 0 0		- }, Smell hospitel (25 - 100 beds) 2. Medium size hospitel (100 - 300 beds)
			3. Large medical center b. Bursing home
33.	Hore you changed your major?		5. School of Nutholing 6. Private duty
	1. Yes. From what?		7. Public Mealth (Escapt & below)
	At the change of your major require a change of institutions?		3. Industrial Nurse 10. Office Nurse for a Physician or Dentit
 .			11. Armed Forces 12. Other (places specify)
		41.	. Why is this area of practice your preference?
35.	Where do you expect to prectice the first year fellowing your graduation?		
	(City) (County) (State)	42.	. Would you prefer to practice in a:
16 .	thould you accept amployment in a location other than the one indicated		Prodominantly rural area
•	In the previous question?		2. Predominantly urban eros.
	1. 7es 2. No. Pigese state reeson:	43.	. What is the highest educational level you hope to obtain?
37.	If yes,		1. Diplome 2. Associate Degree 3. Bacceloureate
	i. In emother region of the state		4. Master's
	2. In another nearby state 3. In any state		. Which of the cereer petterns fisted below best metches your present plans?
36.	If yes, places indicate, by a check in the box, the factors that would	•	t to proceice nursing full-time for the rest of my work life.
	influence your selection of the alternate location.		2. To practice nursing full-time before I have a family, then stop
	2. Opportunity to work in a large medical center		3. To practice nursing full-time before I have a family, then fire- time while relains the children.
			A. To practice nursing full-time before I have a family, stop work while children are in school, then resume my career. 5. To work part-time only, for the rest of my work life.
			A. Be not elen to erectice nursing.
	5. Cultural or enterteinment adventages	Ar	7. Other:
		**	provide your name in the space below.
			- 6-
	SECTION IS TO BE COMPLETED ONLY BY THOSE STUDENTS WHO ARE ALREADY R.M. 'S		
-	ARE MORKING ON EITHER A BACCALAUREATE DEGREE OR A CRADUATE DEGREE		•
46.	What was your initial level of professional preparation?		
	1. Biplome 2. Associate Degree		
4.	3. Baccolourante Bane of institution where your initial pursing education was received?		
47.	Top		
	City County State		•
44.	Why did you choose this type of program?		, .
49.	that $I_{\alpha,\gamma our}$ are of graduate specialization within nursing? (if double major space check both)		
	2. Clinical Specialist (specify area)		
	2. Education 3. Administration		•
_	t. Other (specify)		
75 .	le what states are you presently licensed?		
	1.		(
	1.		·
EI.	More you employed as an R.M. Immediately prior to your entering this		
-	propert		
	1. Yes 2. #e		
# .			
	What departments have you had as an A.H.?		
. ==-	1. Small hespital (25 - 160 hods) 2. Radium hospital (100 300 hods)		
	1. Small hospital (25 - 160 bads) 2. Radium hospital (100 300 bads) 3. Large Radical Conter 4. Hersing HOme		
	7. Small hospital (25 - 160 hads) 3. Radium hospital (160 300 hads) 3. Large Medical Conter 4. Bursing Mome 5. School of Hursing 6. Private Buty		
	1. Small hospital (25 - 160 bads) 2. Radium hospital (100 - 306 bads) 3. Large Redical Center 4. Horsing HOme 5. School of Horsing 6. Private Buty 7. Public Health (emcept 8) 8. School Myrse		
	1. Small hospital (25 - 160 bads) 2. Redius hospital (100 - 300 bads) 3. Large Redical Conter 4. Hersing Höme 5. School of Hursing 6. Private Buty 7. Public Health (emcept 8) 8. School Hurse 9. Industrial/Hurse 10. Office Hursing (Physician or Bentist)		
	i. Small hospital (25 - 160 hods) 3. Radium hospital (100 300 hods) 3. Large Medical Conter 4. Bursing Mome 5. School of Horsing 6. Private Buty 7. Public Health (encept 8) 8. School hurse 9. Industrial place 10. Office North (Physician or Sentist) 11. Armod Forach 12. Other (pleede specify)	180	183

SURVEY OF WILLIAMION PATTERNS OF

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	PART 1	7	you have has in each category.
1.	SEX: (1) Mole 2. AEE		Months of Experience in This Position in This Mospital Other Nospitals
			1. StaffRN or LVM
3.	Please Indicate <u>all nursing</u> programs from which you	have <u>CRADUATED</u> .	2. Need Nurse
	Year of Fragram Graduation School Name	State Please do not use.	3. Clinical Specialist
(1)	LVII 19		4. Inservice Educator
(2)	Diploma 19	اموموما	5. Mursing Service Director -or Assistant Director
(3)	Associate 19		6. Other (specify)
(4)	Baccalauraate 19		Pin the above question, please place a circle around the number of the
(5)	Resters 19		category which indicates your current position.
(6)	Doctorate 19		9. What is the specific job title of your present position?
٨.	Nave you earned any additic all non nursing degree(s	17(1) Yes(2) No	 To whom does the <u>hospital</u> indicate you are responsible? (Position title(s) only; no names)
	if yas, please specify	-	
5.	are you currently enrolled in any nursing program leading to a diplome or a degree?	(1) Yes(2) to	II. What is the title of the person who ectually supervises your work?
	If "Yes", type of program:(1) Diplome	(3) O.S.H.	
	(2) A.D.	(h) Eraduata	12. What is the title of the person whom you think should supervise your work?
	Nave you take's any courses for credit while MOT enri	ol led	
•.	in a specific program leading to a diplome or dagre	(1) Yes(2) No	13. Are you employed:
,	if you ensured the last question "Yes", what was y	our primery reason	(2) 10-30 RFS/MC (4) Un Cart; Only
,.	for taking this/these course(s)? Check one.		14. What le your usual shift? (1) Days only (4) Rozute ell shifts
	(1) To up-date nursing skills(3) Ev or abilities(3)	entuelly hope to ply to a degree	(2) Evenings only(5) Rotate days & evenings
	(2) Required by employer(4) Ot	-	(3) Hights only (6) Other (specify)
			· ·
•	•	3	.
_		(-A' A	Continued from page 3
15.	which of the following categories applies to your s		No. Munichs of Experience No. Months of Experience
	(1) Work in the same location on a permanent b	45'1	in This Specialty in This in This Specialty in Hospital Other Hospitals
	(2) Work PRN on a floating basis		(19) Padlatrics (19)
	(3) Other (specify)		(20) Psychiatry (20)
16	Pleasz complete thi fullowing chart indicating you as a nurse in each of the areas listed.	r hoshitel experience	(21) Rediction therapy (21)
	No. Months of Experience	Nu. Months of Experience	(22) Recovery room (72)
	in This Specialty in This Moaritel	in This Specialty in Other Hospitair	(23) Rehabilitation unit
(61) Burn unit	(01)	(74) Respiratory care unit
) Clinic	(02)	(25) Surgicel (General) (25)
•) Coronery care unit	(03)	(26) Surgical ICU (26)
) Dielysis unit	(04)	(27) Urolegy (27)
(0) Emergency room	(05)	(28) Other (specify) (28)
(0	i) fm/ocrime-Metabolic	(06)	,
(0)	7) Synecology	(07)	ain the question above, please place a circle around the number(s) of the specialty or unit(s) where you are currently working.
(0	3) Eer, Nose, Throat	(o\$)	<u> </u>
(0) Lebor & Delivery room	(e01	17. Joes your area have a clark to perform non-nursing duties?(1) Yes(2)
(10)) Medical (Canaral)	'0)	18. If yes, please indicate on the chart below the times when a clark is an duty.
(1) Medical ICU	(11)	Shift (1) 7 Days/Mr. (2) Mon-Fri (3) Mone (4) Other (specify)
(1	t) Neurology	(12)	(1) Days
()) Nursery	(13)	(2) Evenings
()	h) Post Pertum wilt	(14)	(3) Nights
(1	5) Oncology	(15)	
(1	5) Ophthaleology	(16)	19. On your unit does the clark (check all that apply)
	7) Operating room	(17)	(1) Mork only on your unit (3) Nork a full shift
(1		(10)	(2) Mark on two or more units(4) Mark part of a shift

ERIC

Continued on page 4

	IF YOU DO NOT PRACTICE TEAM MIRS!	ME, PLEASE MIP TO G	EST:00 26.	25. In my area the primary consideration for making patient ass (Please check only one)	Ignments is:
**	Ploase place a check in the appro	oriete column for em	sh shife.	(1) Patient location (a group of beds or rooms togethe	er)
•••	Principle of the control of the control		doquato Jopanda em	(2) Patient diagraphs	
	Team Hursing 4s procticed: (1) Deity	stafi 2) Man-Fri (3) eval		(3) Amount of core required	
	0			(4) Type of oducational background of personnel	
	on the day shift or the evening shift		·	(5) Other (specify)	
	on the night shift			Company	
	l act as team leader:				
21.	(1) Whenever I am on duty	,		IF MURSING CARE PLANS ARE NOT USED IN YOUR AREA, PLEASE SK	IP TO QUESTION 30.
	(2) I elternate with other	unif murans reculari	•		
	(3) Only if I am the only i			26. Mursing care plans are kept up to date and are used orgularly in my area(1) Yes(2) No
	(4) Other (specify)			- Together y the my order	
				27. Nursing care plans in my ered ére:	
27.	Team_conferences (petient care o			(1) A part of the treatment and modication hardes	v
	(1) Delly(3) Non			(2) A separate harden or file	
	(2) Weekly (4) New		L do	28. Notations on nursing care plans in my eras are made by	
23.	When team conferences are held,	i act as conference :	leaser:	(i) A.H.'s only	
	(1) Whenever I am on duty			(2) R.H.'s and L.Y.H.'s only	
•	(2) Only when I am team les			(3) A epocific nurse (title)/	
	(3) if I have been essigned		mterio)	(4) All members of the nursing stoff (including oldes	and studenta)
	(4) If the conference is al	mut my patient			
	(5) Never			29. I make notations on nursing care plans	
24.	i meka patiant cara assignments:	1		(i) On all the patients I am assigned to	
	(i) Only when I am team les		Hever	(2) Only on the most complax or critical patients	
	(2) Boily - but not as too			(3) Any patient in the area when need Indicates (4) I would like to make notations but saldom have ti	<u> </u>
	•			:	-
				(5) Names	
J			•		

			_		
	•		7		• .
	•				
30.	in Column I below, please place	a check in the box r	mext to the title	 in Column A below, please pirce a check in the box next to which you have used to communicate suggested organizations 	
-	of each person to whom you have increase the efficiency of hosp	personal in communica	ited suggestions to	Improve delivery of patient care.	
*	care for all patients.			in Column 8, please place a check in the box next to each you have used to communicate suggestions for improving co	
	in Column II, piesce <u>piace a ch</u> person to whom <u>you have persona</u>	lly communicated, sum	pestions for improving	potients.	
	cere for specific nationts bese	d on their <u>individue</u>	needs.	Column A	Column B
. •		Column I	Column II	(I)Core Plans	
		Suggestions for Organizational	Suggestions to Improve Core	(2)Shift Report	
		or Procedurel	for Specific Patients	(3) Patient or Team Conferences	
_		Changes		(4)Personal talks with individuals	
١.	Team Rember	_ <u></u>	2 —	(5)Written reports or suggestions	
2.	Team Leader	<u> </u>	<u> </u>	to sporific persons	LJ
3.	Head Nurse	□	<u> </u>	(6)As Member of a Committee	O
٨.	Supervisor	<u> </u>	│ □		
5.	Clinical Specialist		D	Now, in Column A above, please rank in order of frequency	
6.	Birector of Mursing Service	—	D	of communication which you checked. We "I" for the most method. Piece the number in the blank to the right of the	
7.	Physician	O	D	Amember, rank <u>only</u> those which you checked!	
₽.	Hospital Administrator			New, please rank the bones cheshed in Column 8 in the same	I Banker.
7.	Head of enother Hosp. Dept.	·			
10.	Employee of another Pept.		l o		
11.	Other (specify)			You have finished Part I. Please turn the page and comple	ito Port
_				•	
	Maw, in Column I obove, please	rank in order of fro kad. Web "I" for th	quency or contact the e most frequently con-		

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PART 11

pe (each Activity, please circ	ie the	epp r	opriate	L & P Suga	ise in	each o	t has	four	columns.					At the tof gradui						
												i	Did y	ou do	did you	feel	Heve ye	•			
	`			At the of grad		į.		l				1	this	while	prepared	to 1	done th	15 #3	Have	YOU !	بحجل
								ĺ				1	YOU =		do this		a lices	sed	this	in y	- -
				did you		Move 1		i			12.	(Continued)	stude	nt	Independe	ently	LYN or	R.III		ent é	
				prepare	e to		this os			dete .		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1(2)		(2)				(2)	
				do this		a lice			s in			ACTIVITIES		No			Yes			149	
	j	studen	t _	Indepen						position	_		.,,,,		- ''-						4
		-m	(2)	(i)	(2)	(i)	(2)	101	(2)	(3) Not		Change inner track			ł		i		1		
	ACTIVITIES	Yes		Ves 1	No	Yes	No	Yes	No	Applicable	14								l		_
•								ī				tube cannule	Tes	No.	Yes	1 00	Yes	itto	Yes	MD.	
	Personally communicate					1		ł		-		i			ŀ		l.		1		
	suggestions for pro-			1		•		1			15	Eive by by mot			i .		ŀ		1		
	cadural changes to	i '		I		l		i				or canule	Yes	No	Yes	No i	Yes	No -	Yes	No	
	administration.	Yes	No	701	No	Yes	No	Yes		MA					1						
	Aministration.	,		''''		L	_	1	_	•••	16	Elve IPPS trestments	Yes	No	Yes	No	Yes	100	Yes	No	M
								ł				1		_	1				· .		
	Participate in nursing	V		Yes	Mo	Yes		7	-		* 17	Ressenger trips to					1		1		
	er hospitel committees	Yes	No	1	440	,,,,	_	1	_	-		phormocy, control supply-	Yes	No	Yes	No	Yes		Yes		
				I		l l		1									l '''	_	1		
	Initiate teaching or			1		l		ŀ			18	Order supplies for a			i		l		ì		
	heelth maintenance					ł		1			••	whole division or area	Yes	No	Yes	No	Yes	No	Yes	-	
	emesures for patients			ł		ı		1					,	_	,	_		_	1		_
	or families/(l.e. breest			i		i		1				M		ile .	Yes	No.	Yes	No	Yes	-	
	self exam; ennual check			1		1		l	-		19	Housekeeping tosks	Yes	-	1	-	, ,,,	-	1,00	-	-
	ups, immunizations, etc.)	Yes	No	Yes	No	Yes	Mo	Yes		MA.					t _		١		L	_	
				l		í		1	,		20	Ambulate patients	Yes	No	Tes	No	Yes	No	Yes	100	
•	Sive IM or tubcutaneous			Í		1		1				3			ı				1		
	injections	Yes	No	Yes	No	Yes	No	Yes	He	MA	21	Perform possive range			1		•		1		_
	• • •					1		1				of motion :	Yes	No	Yes	No	Yes	No	Yes	No	
	Prepare & room for			ŀ		1		1							1		1		l		
	a new admission	Yes	No	Yes	No	Yes	No	Yes	No	ina.	22	Insert wrethrel			Į.				l		
	•			1		1	•	ì				cethaters	Yes	Ho.	Yes	No	Yes	No	Yes	Mo	
	MIE 1.V. Solutions	Ves	No	Ves	No	Yes	No	705	No	MA					1	_	ł				
•								Ι' -			23	Irrigate folloy			ľ	•			ł		
	Stort 1.V.s			i		ŀ		1				catheters	Yes	No	Tes	No	Yes	No	Yes	No	•
,	(venesuncture)	Yes	No	Yes	No.	Yes	Min	Yes	Mo	35							l		1		
	(adubbanezora)	'		'		"		1			24	irrigate colostomy	Yes	ito	Yes	No	Yes	Ne	Yes	No	
_	Ammye 1.V. needles	Yes	Mo	701	No	Yes	No	1400	No	100					1		•		1		
•	MEMBYS 1.4. NOTCHES	'**	-	1 '*'		'**	-	1			25	Develop and execute			1		1		1		
_	m 4 4 144	l		1		1		1				patient care plans	Yes	No	Yes	No	l vee	No	701	No.	
-	Make rounds with	منوا	-	Yes	No	Yes	No	Yes	No.	MA		Parameter Promo			1		1		1		
	physicians	Yes	-	745	-	1 ***		'"	-	-	24	Include nursing core	i		I		1		1		
_					-	1	N.	Yes	-	and.		objectives on care plans	Yes	No	Yes	No	Yes	No	Yes	No.	
•	Act as team leader	Yes	No	Yes	No	Yes	Mo	***	_			selection on case himse			1		'''		1	_	
	_			1.		l	M .	1			••	Develop written home core			1		1		1		
1	Conduct team conferences	Yes	No	Yes	No	Yes	No	705	No		47		l		1		I		1		
	*	I				1		1				plan with patient to be		M-	1	No	Yes	No	Yes	-	
!	Subtion traches vie	[1		ł		1				discharged	Tes	No	Yee	-	1 188	-	1,00	-	•
	trach tube	Yes	Mo	Yes	-	Yes	No.	Yes	No	₩			l		i	•			L.,	44-	
	•	I		1		i		1			20	Chert vital signs	Ve s	· 100	Yes	lia	Yes	No	705	-	•
3	Orophoryngeal suction	Yes	Mo	Yes	No	749	No	Yes	No.	MA.			i _		1 _		l .		L		
4	- · · •	•		•		•		-			29	Apply seeks or compresses	Tes	He	Yes	No	Yes		100	100	•

					At the t of gredu did you	ation	Mave v	•			. *					At the ti-	tion	. '				
,	ı z .		this .	mile ce a st	prepared do this independ	to	done t	his as nsed - AN	this			32.	_	this t you w stude	mile re e nt	did you f prepared do this independe	to ntly	Have you done to a licer LVN or	his es nsed RN	this pres		
		ACTIVITIES	705	No	Yes	Mo	Yes	Mo	Ves		Applicable		ACTIVITIES	()) Yes	(2) No	(1) Yes	¥9	(i) Yes	Ho Ho			ppi icable
3	11	Food patients by mouth	Yes	Mo	Yes	No	707	Mo	Yes	P 5		44	Teke EKGs	Yes	No	Yes	No	Yes	No	Yes	•	₩.
3	12	Food patients by N/G or gastrostomy tube	Yes	No	Yes	No	Ves	100	701	lle	•	45	Read EKS:	Yes	No	Yes	No	Yes	No	Yes	Ne	mA.
3	13	Make patient referrals	705	No	Yes	No	Yes	No	Yes	No ,	. **	46	Munitor patient's heart activity	Yes	No	Yes	40	Yes	-	Yes	He	**
3	J A	Teke e patient's physical history	Yes	No	Yes	No	700	40	Yes	I	M	47	Defibrillete petient	Tes	No	Yes	K >	Yes	No	Ves	No.	MA .
3	5	Vake a patient's psycho- social history	Yes	No	Yes	No	Yes	No	Yes	No	**	48	Perform cardio-pulmonary resuscitation by self or with 1 other person	Yes	No	Yes	No	7.0	No.	Yes	Ro .	MA
1)	Place e patient on e hypothermis machine	Yes	Mp	Yes	Me	705	No	Yes	-	#	49	Take a nursing history	Ťes	No	Yee	No	Yes	•	708	•	
. 1	37	Operato renal dialysis equipment	Yes	Mc	[' Yes	No	705	No.	700	No	MA	50	Eveluate job performance of personnel in written reports	Tes	No	Yee	les.	Yes	No	Ves	No	M
1)	Monitor central veneus pressure	Yes	W	Yes	No	Yee	N	Yee	No	•		Counsel with orployees about their job performance	Yes		. 700		Yes	No	Yes		#A
1	"	Set up and monitor chest dreinage bottles	708	No	Yee	No	Yes	No	Yes	Ma	•	52	Set up traction apparatud		He	Yes	Ne	Vec		Tes	No.	
	60	Braw blood samples	Yes	Mp	Yes	Mo	Yes	Max.	Yee	· (b)		53	Take vital signs	Yes	*	Tes	No	Yes	-	Ves.	-	*
:	N I	Develop teaching plans and conduct classes for arough of patients (such			} 1					đ		54	Test urine for super, and account	Yes	No	Yes	i in	700	•	Yes	120	*
		es distetice, mestectomy pts. etc.)	Yes	No	Ves	•	700	Mac	700	•	#A	55	Measure specific gravity of urino	Yes	-	Yes	140	Yes	100	700	*• ,	•
4	42	Bevelop and implement a teaching plan for										56	Massure Intcha s autput	101	No	700	No	700	*	Yes	No.	100
		individual patients	Yes	Ma	Yee	No	700	No	Y **	***		57	Make nursing diagnoses	700	-	Yes	-	Yes	-	700	***	*
,	43	Make patient care essign- ments for a group 6) nursing personnel	٧.,	-	Yes	I	702	-	700	•	uÅ.	58	Write cursing orders on chart	700	-	700	May	Yes	•	700	100	E.
<u>I</u> C							•	8			183	59	Establish priorities for nursing core	700		700	•	700		700	7	

	•	1	1	At the t		1		1		
		Did ye		of gradu		Nave y	-			
		this :		prepared			his es			dame
		704 4	PF# 0	do this		a lice			in	
p.	(Centinued)	studer		Independ	ently)		(2)		(2)	posteion (3) tot
	ACTIVITIES	(1) Yes	(2) No	(1) Ves	No	Yes	Neo	Yes		App I last
	Change drassings	Ve.	100	Yes	in.	Yes	-	Ven		mA.
61	Remove sutures and shin clips	700	-	Yes	No	Yes	No	704	No	MA
42	Pass maso-gastric tubes	Yes	Ho	Yes	Ho	Yes	#iq	Yes	-	•
63	Remove meso-gestric tuke	* 705	Hip.	Ves	No	Yes	No	Yes	Ne	MA
44	Transcribe doctors order	* Yes	Mp	Yes	No	Y**	No	Yes	No	WA.
65	Pess Hiller-Abbett tubes	Ves	No	Yes	М	Yes	No	Yes	No	MA
"	Assave Miller-Abbett tubes	¥ 6 \$	No	Ves	No	700	No	Yes	No	MA
47	Sive erel, rectel, sublingual medicine	Yes	Mo	Yes	No	700	No	Yes	No	MA
68	Give an enema	Yes	No	Ves	No	Yes	30	Yes	40	MA
69	Elve a douche	700	Mo	Yes	No	Yes	Ho	Yes	No	MA
70	Transport patients	705	Mo	Yes	No	Yes	Mo	Ves	No	WA.
71	Clerical duties	705	No	Yes	Мо	Ves	Mo	Yes	Mp	HA.
72	Yeach grutch wolking	744	No	Ve*	No	Yes	No	701	Ho	IMA
73	Apply and racd skin tes	1 s Vas	No	Yes	Ho	700	No	Vet	No.	•
74	Agely ACE or pressure bandages	700	lie	Yes	No	Yes	No	Yes	No	MA.
75		Yès	No.	Yes	-	Yes	-	Yes	100	MA.
76	Change so 11mm	Yes	-	Yes	tto	Yes	Me	Yes	-	MA.
	3,								:	5
*	40. Assuming a normal orientation to the unique espects of a particular institution or agency, do you believe current professional nursing education has adequately prepared the new graduate of the following programs to function in beginning positions:									
	a. Dipiema b. Associata Pagrad - c. Batcalauroata	r		=:) Yes) Yes	=) in		
41	the educational propa affectively in the jet	retion	of nu	ous quest rses woul	ion, i d ensi	mhet si ble the	pocific un to f	chen unct l	900 (90 (E	n 17-3
i	Diplams:			•						
	Assaciate Bagrae:									
1										

	·	mpou han it.	k independently advated?
	1	<u>1)</u> Yee	2)46
	2.	<u></u>	2)=
	3.		2)110
	4	1) Yes	2)40
	5	<u>)</u> Yes	<u>2)</u> tto
ж.	For questions 36 - 38 please answer on El (L.V.N. on R.N.). If you are an R.N. who the basis of your first job as an <u>R.N</u> .	he basis of your o was once an L.	current <u>License</u> V.N., enuit un
	In your first position as a licensed nur- perform procedures or essume responsibil- had not prepared you?[1] Yes	icies for which	require you to your education
35.	If you answered "yes" to the previous que of activities for which you felt unprepa	astion, please : red.	pocify the types
36.	Bo you feel that your basic nursing educ or ebilities which <u>could</u> be utilized in for some reason you are unable to apply? (1) Yes(2) No	your present por	ind was with skill Sizion but which
37. ● r	If you answered the above question "yes" abilities are.	, please spacif	y what these would
38.	What factors do you fact contribute to t abilities?	he lack of util	ization of those
39.	What specifice changes in your present justilize your nursing abilities to a great	ob situation wa ter degrae?	uld <u>anoble you</u> to

33. If you work in a specialized area (such as 0.R., labor and delivery, etc.) please list procedures specific to your are. In which beginning curses should be competent.

THAME	TOU	for.	TOUR	PART	'ICIPATION.



	Standar demiteratur		•	'					_	
	3 SECTION	1.1	:		in '	This	Course	Cour se		r Nursis This Cur
ı. •	Sen: (1) male (2) female				1 Yes	Z No	3 Not Appl 1 -		1	10 10
3.	Merital Status: (1) single (2) married (3) widowed, di		(2) Diploma	(6) The student is expected to develop his own objectives for clinical lab in addition to those in the course outline.	_	_	cable	•		'—
\$.	Type of nursing program:(1) Be (3) As Are you a:(2) Licensed Vocation	ie Ional Hurse		(7) Students receive an individual evaluation of their achievement of specific objectives by a faculty number.	:	_	_			_
	. What is your current grade-point avera . What is the title and course number o		scale?	(8) Students are required to do a self-evaluation of their achiev ment of specific ofjectives.	~ .	_	-		_	_
₽.	. Does this course have a clinical lab?	7 (1) yes	(2) no	(9) All course content is organized around a unifying cheme.	' –					- .
9.	For each question below, please check the appropriate answer in both Column A and Column B. The aption in Column A. "Not Appli-	COLUMN A In This Course	COLUMN 8 In Most Other Nursing Courses in This Cur- riculum	(10) Course content is primarily based on units for each major body system. (11) Course content i based on the	_	_	_~		-	_
	cable", is primarily for questions about clinical experience if your present course does not have a clinical lab.	l Z 3 Yes No Hot Appli- cable	1 Z Yes No.	nursing "process" (12) Course content effectively builds on specific knowledge obtained in pre-nursing course			_	•	-	_
	(1) Objectives are reviewed in class at the beginning of the course. (2) Objectives are referred to frequently by the instructor	-	<u></u>	and/or previous nursing course (13) Course content is primarily or genized around types of proble (such as "mobility", "exchange of O ₂ ", "metabolism").		_	_			_
٢	and releted to the material buing presented. (3) The course objectives are helpful in knowing what to			(14) Course content is organized in modules that allow the student to choose his own sequence and		_	· -		_	
	study for on tests. (4) Course Objectives are help- ful in preparing for daily classroom assignments.			his own pace. (15) The course bibliography contains fournal references as recent a six months or less.		_	· -		_	
	(5) Course objectives are help- ful in preparing for daily clinical lab assignments.		 	(16) The course bibliography has a majority of references more the four or five years old.	MAR		. ' <u></u>		_`	. <u>-</u>

			COLUM	M A	COLUMN 8
		Im	This	Course	In Mist Other Nursing Courses in This Cur- riculum
		1 Yes	Z No	3 Not Appli- cable	1 Z Yes Mo
(17)	The bibliography contains a variety of references from publications that are nos strictly mursing ar medicine.	_	_	_	<u></u>
(18)	Clinical experience is sufficient in length to master most technica procedures.				
(19)	Clinical experience provides adequate opportunity to apply nursing theory under realistic conditions.		_	_	
(20)	Clinical experience in the hospital is provided on all three shifts.		_		·
(21)	Clinical experiences are <u>usually</u> related to theory being currently presented in ass.	<u>,</u>	<u> </u>	<u></u>	
(22)	In clinical lab, the student is accepted by the regular staff as a member of the nursing team.	_			
(23)	Students may choose an arms of clinical assignment (mpd-sury division, OS-Gym. Pedi, etc.) if the area can provide experiences to meet the objectives of the charms.				
		_	. —	_	

SECTION 11

For each question below place a check (w) in Column A next to gach option which applies to this course. In Column B please check the one option which would best must your learning needs.

10.	The objectives for this course are:		COLUMN 8 (My Preference)
	(1) Given to the student for the entire course at the beginning of the course.		
	(2) Given to the students at the beginning of each unit.	•	<u> </u>
	(3) to "loped cooperatively by faculty and students.		
11.	Students receive information on class topics. clinical lab areas and reading assignments:	` 	
	(1) For the entire course at the beginning	-	
	of the course. (2) For each unit, just before the unit		
	begins.		
	(3) On a weekly basis. (4) On an irregular basis.		
	(5) Other (please specify)	-	
12.	Reading assignments for this course utilize:		
-	(1) One major textbook		
	(2) Several textbooks (3) No regular textbook		·
	(4) Bibliographic references only		=
	(5) Other (please specify)	_	
13.	The most frequer by used method of evaluation of theory in courts is:		
	(1) Written objective tests (multiple choice, true-false, etc.)		
	(2) Written esser tests		
	(3) Oral examinacions	· ·	



14.	COLUMN A COLUMN B (This Course) (My Preference) Supervision in the clinical setting in this	17. In Column A, please rank the following topics exceeding to the amount of time devoted to them in this course. In Column B, rank them RANK NAMK in the order you would prefer. (This Course) (My Preference
	course falls into which of the following categories? (1) An instructor is in the immediate area at all times. (2) An instructor is not always in the area but is available on sell by paging, etc. (3) Supervision is primerily by area staff with post clinical conference with an imstructor. (4) Other (please specify)	(1) Mursing assessment, planning and evaluation (2) Signs, symptoms and medical treatment of specific conditions (3) How to give physical care and perform certain procedures (4) How to meet the psycho-social needs of patients (5) Other (please specify)
••		
15.	If a student has difficulty with portions of course content, what resources are available to him?	SECTION III
	(1) Tutoring sessions with an instructor on request. (2) Tutoring sessions with another student. (3) Learning resource center with audiovisual aids and a faculty member available. (4) Group study sessions on a regular basis. (5) Special remedial program for specific learning problems. (6) Other (please specify)	In each of the questions below, please place a check (r') next to the appropriate eption. 18. In clinical labs, patient assignments are made: (1) by the students, with faculty approval (2) by faculty (3) by staff of the clinical unit (4) other
	(b) other (prese size(1))	19. In this course, what opportunities are available to those students who wish to pursue a special interest or who have the desire to do more than meet the minimum requirements of the course? (Check (v) all options that apply.)
16.	Please indicate which of the following teaching methods are used most frequently in this course by placing a "1" next to the method hased most often, "2" in the next most frequent	(1) An honors program based on certain requirements (2) Optional seminars or other class sessions open to any class member (3) Optional reading lists, projects, written papers (4) Other (Please specify)
ı	method, etc. In Column B, rank the methods RANK RANK according to your preference. (This Course) (My Preference)	20. Does your current curriculum provide any of the following:
	(1) Lecture (2) Group discussion (3) Presentations by students	
	(4) Audio-visual media (tapes, films, slides, T.V.) (5) Independent study (6) Team teaching (7) Other (please specify)	(2) An independent study course in which the student sets his own objectives (3) A choice of clinical lab settings for portions of regular courses (4) Any course taken with medical students or allied health students (please list course title and number)
źì	7 . In this course, schedules and classroom topics: (Check (#) all that pply.)	
-	(1) are followed exactly as scheduled if at all possible (2) are frequently changed enempectedly without advance notification (3) may be changed at the request of a majority of students (4) can be adjusted to take advantage of unempected learning opportunities	÷ •
22	. In according to a stated on knowledge of physiology, micro, chemistry, psy- chology, or sectology which you have covered in <u>non-nursing</u> courses:	•
	(1) the sing instructor repeats the material in class (7) the terial is not repeated but the student is responsible for the ling it (3) School review materials or assignments are provided (4) other (please specify)	
21). In the nursing courses which you have taken in this program is there repetition of same types of content from course to course?	
	If you answered the previous question "yes", what are the general categories of information witch are repeated?	
24	Evaluation of your clinical performance in this course is based on: (place a check in the box (*) for all that apply.)	
	(1) written anecdotal notes kept by instructor (2) general opinion of instructor without supporting documentation (3) rating of achievement of a list of specific objectives (4) graded patient care plan (5) self-evaluation (6) verbal reports to instructor from staff working in the area where you were assigned	•
•	In the previous question please specify) In the previous question please rank the choices you made according to which factors you feel have the greatest weight in determining clinical evaluation. Such poly those factors you checked. Place the rank in the black to the left of the box.	°6
Ħ	i. What grade do you expect to receive in this course?	
	i. What changes, if any, would you like to see made in your present curriculum?	•