DOCUMENT RESUME

ED 105 123

CE 003 383

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The Area Resource File: A Manpower Planning and

Research Tool.

INSTÎTUTION

Health Resources Administration (DHEW/PHS), Bethesda,

Md. Bureau of Health Resources Development.

REPORT NO

DHEW-HRA-75-5

PUB DATE NOTE

Apr 74 63p.

EDRS PRICE

MF-\$0.76 HC-\$3.32 PLUS POSTAGE

DESCRIPTORS

Data Bases; *Health Facilities; *Health Personnel; *Information Sources; Resc rce Materials; *Tables

(Data)

IDENTIFIERS

*Area Resource File; ARF; Kentucky; Missouri

ABS TRACT

The computerized data file, the Area kesource File (ARF), was originally used in determining locations of nationwide Health Education Centers (AHEC). It has been more recently employed in general and comparative geographic statistical analysis of health resources in counties throughout the country. This aid contains seven general categories of data: county identification defined by several Federal agencies; demographic (census); economic (households, and recipients, total personal income, distribution of personal income); training (Schools, enrollment, graduates); health manpower; health facilities (general and special hospitals), and health status (total, infant, and disease mortality, births). It then provides four types of output: basic profile (table 1), shortages (tables 2 and 3), man power-population ratio (tables 4 and 5) and ranking (table 6). The six tables also illustrate several of the seven categories: the surveys of selected measures of health manpower, facilities, and education by health areas (for Kentucky only), existing and needed optometrists and podiatrists per population base, active non-Federal M.D.'s, D.D.S.'s and their ratio (for Missouri only), the total number of podiatrists, and AHEC health rankings for selected measures of health manpower (for Kentucky only). The ARF form and user documentation are appended. (JB)

Monographs and Data for Health Resources Planning

THE AREA RESOURCE FILE



A MANPOWER PLANNING AND RESEARCH TOOL

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DHEW Publication No (HRA) 75-5

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service Health Resources Administration

Bureau of Health Resources Development Resource Analysis Staff/OBD

April 1974





PREFACE

The Division of Manpower Intelligence (DMI) of the Bureau of Health Resources Development, Health Resources Administration, has developed a computerized data file that brings together many disparate data elements useful in the analysis of health manpower on a geographic basis. This file, called the Area Resource File (ARF), was originally developed and is being maintained primarily as an analytical tool for DMI and the Bureau of Health Resources Development However, it has also proved to have many other uses and to be valuable to a wide variety of organizations and individuals concerned with health manpower and resource analysis. This report was prepared in the Manpower Resources and Requirements Branch of the Division of Manpower Intelligence by Wilbert Williams under the supervision of Howard V. Stambler.



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INTRODUCTION

The Division of Manpower Intelligence (DMI) was created in the fall of 1970 to provide the then Bureau of Health Manpower Education (BHME), now the Bureau of Health Resources Development, with a single focal point for health manpower and resource analysis. At that time, the Carnegie Commission on Higher Education had just published its report, Higher Education and the Nation's Health, which called for a program to establish over 100 Area Health Education Centers (AHEC's) in different areas of the Nation. Congress was showing considerable interest in the AHEC concept and, since legislative authority for the program was expected to be assigned to the Bureau of Health Manpower Education, DMI began to prepare analytical tools to assist in an orderly, data-based development of the program. Although the Carnegie Commission's report listed potential locations for these AHEC's, it emphasized that the designated locations were based only upon cursory analysis, and that the final locations should be cnosen on the tasis of comparable statistical evidence of the need for such centers. As a result, the first major focus of BHME and DMI was to prepare a basis for determining the locations of these This, along with the fact that development of a general purpose area data file had already received a high DMI priority, prompted the commitment of resources to the creation of what is now known as the Arga Resource File (ARF).

The Manpower Resources and Requirements Branch of DMI, which was concerned with the collection, development, and interpretation of data on manpower resources and requirements as they relate to the education and training of health manpower, began intensive development of the Area Resource File in the spring of 1971. Although fewer resources were able to be devoted to ARF than had been hoped, work on the file moved ahead rapidly and it became operational in late 1971.

The initial use of the ARF was largely in the identification of the geographic distribution of and the need for educational programs. As time passed, however, the needs of DMI and other users led to its growing use as a tool for general statistical analysis of health resources in specific geographic areas. Although the ultimate value of ARF may very well be in its use as a basis for comparative geographic analysis across area lines and for wide scale, easily accessable manipulation of comparative data, its value as a tool for specific area analysis has become relatively widely recognized. This report was prepared as an aid to current and potential users.

Overview of the ARF Organization

The ARF was originally developed using counties as the base geographic unit. This choice of base unit partially reflected constraints of time for the period of file development. Even without such constraints, however, use of



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other geographic bases would not have been feasible or as useful. Very little data are available, for example, for areas smaller than counties (and even that from only once-a-decade Census data). Without extensive data development, such a file based upon sub-county units would have had only very limited usefulness and would have been out-of-date very quickly. On the other hand, basic units larger than the county are too rigid and inflexible in use. Furthermore, county data were generally more current, more often updated, and more readily available. Thus, the decision was made to base the file largely upon county data.

One ARF departure from the standard use of counties as described in Federal Information Processing Standards (FIPS) was the merging of the independent cities of Virginia back into their original counties and the recoding of the independent cities in other States. These independent cities have been created over a number of years and are still in the process of being created. When past data exist only for a composite city-county area, it would have been extremely difficult to break it into its smaller components. Since the concept of the independent city is largely related to fiscal matters, it was believed that the city could reasonably be grouped with the adjoining county for purposes of manpower analysis. In addition, such a grouping could avoid the abandonment of a number of useful data items for counties that were not available for independent cities. A further consideration was the potentially recurrent problem of having to make data base revisions each time fiscal advantages lead to the creation of a new independent city. While this departure from FIPS was regretted, it was deemed essential.

Initially, data for Alaska and Hawaii were entered on a State, rather than on a county level, due to definitional problems. The Hawaii problem has since been resolved and county data for Hawaii will be included in the ARF. Problems with the Alaska data remain, however. Census data is organized by Election Districts in Alaska, with much of the available health manpower data organized by the four Judicial Districts of Alaska. Since the two sets of districts are incompatible, county level data for Alaska has not been incorporated in the ARF.

The Structure and Content of ARF

The Area Resource File's collection of health care resources and supply and socio-economic data include only those data sets available for all counties in the U.S.

These are seven general categories of data in the ARF:

- (1) county identification
- (2) demographic
- (3) economic
- (4) training
- (5) health manpower
- (6) health facilities
- (7) health status



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The types of data in the seven broad categories are described below, with a detailed listing of data elements of ARF presented in Appendix A, with the user documentation description of the data presented in Appendix B.

County Identification

Although the ARF contains a single basic county identification code, there are a number of other county combination designations in the ARF, which permit a variety or further analyses. The major county identification in the ARF is the Federal Information Processing Standards (FIPS) county codes as described in FIPS Publication No. 6 dated June 15, 1970, and published by the National Bureau of Standards, U.S. Department of Commerce. The specific county codes used in the ARF are also FIPS, although, as indicated earlier, certain independent cities have been recoded and no county codes have been entered for Alaska. County codes for Havaíi will be added in the luture. The independent cities of Virginia have been recoded into their original counties because much of the data in the file is by county and thus cannot be separated into county and independent city segments.

There are also several county-group identifiers on the Area Resource File that provide different ways of grouping counties for purposes of analysis, although they are restricted to those which group whole-county units. The county-group identifiers on ARF at present time are: (1) The State Economic Area and Economic Subregion as established by the U.S. Bureau of the Census, U.S. Department of Commerce; (2) The Federal Regions as established by the Office of Management and Budget; (3) FIPS Standard Metropolitan Statistical Areas; (4) Office of Business Economics' Economic Areas; (5) Ranally Major and Minor Trading Areas; and (6) DMI Place Size Codes.

State Economic Areas (SEA's) and Economic Subregions are delineated by the Bureau of the Census and are relatively homogeneous subdivisions of States. They consist of single counties which have similar economic and social characteristics. The boundaries of the SEA's have been drawn in such a manner that each State is divided into a relatively few segments, with each having comparable significant characteristics which serve to distinguish it from adjoining SEA's. In 1970, there were 510 SEA's. These SEA's differ from Standard Metropolitan Statistical Areas (SMSA's) in that every county in the U.S. is a part of an SEA and SEA's do not cross State lines. Similarly, the Economic Subregions are combinations of SEA's. Although these areas cross State lines, they still preserve to a great extent the homogeneous nature of SEA's. There were 121 Economic Subregions in 1970.

Standard Metropolitan Statistical Areas (SMSA's) are the standard FIPS categories as defined by the Bureau of the Budget and published in Census Bureau-OMB publication dated May 1, 1973. Except in the New England States, an SMSA is a county or a group of contiguous counties which contain at least one city of 50,000 population or more, or twin



cities with a combined population of at least 50,000. In addition to the county or counties containing such a city (or cities), contiguous counties are included in an SMSA if, according to certain criteria, they are socially and economically integrated with the central city.

In New England, instead of counties, SMSA's are defined with towns and cities as base units. This was not deemed to be suitable for analytical purposes, since it is based upon areas smaller than counties, and thus the ARF uses metropolitan State Economic Areas instead of SMSA's.

OBE Economic Areas have been designated by the Bureau of Economic Analysis, Regional Economic Division. These economic areas are based on the nodal/functional area concept. That is, to each urban center are attached the surrounding county units in which economic activity is focused directly or indirectly on the nodal center. Each economic area combines the place of residence and place of work of employees as nearly as possible as that there is a minimum of commuting from home to work across economic area boundaries. All counties are included in some economic area.

Federal Regions are delineated by a Federal Assistance Review team composed of representatives from various Federal agencies under the direction of the Office of Management and Budget. These regions were established primarily for the administration of the various Federal programs. There are ten such regions and they are organized as follows:

Region

Member States

I.	Boston R.C.	Maine, Vermont Mass., Conn., R.I., N.H.
II.	New York R.O.	N.Y., N.J., Puerto Rico, Virgin Islands
III.	Philadelphia R.O.	Penn., Del., D.C., Maryland, Va., W.Va.
IV.	Atlanta R.O.	Ala., Fla., Ga., Dy., Miss., N.C., S.C.,
		Tenn.
V.	Chicago R.O.	Ill., Ind., Minn., Mich., Ohio, Wisconsin
VI.	Dallas R.O.	Arkansas, N.M., Okla., Texas, Louisiana
VII.	Kansas City R.O.	Iowa, Kansas, Missouri, Nebraska
VIII.	Denver R.O.	Colo., Montana, N.D., S.D., Utah, Wyoming
IX.	San Francisco R.O.	Ariz., Calif., Hawaii, Nev., Trust Terr.
х.	Seattle R.O.	Alaska, Idaho, Oregon, Washington

Ranally Major and Minor Areas are areas in which code numbers have been assigned to the fifty major trading areas by an alphabetical listing in the "Trading Area Manual, a supplemental to the Ranally Trading Area Map of the United States," copyright 1963 by Rand, McNally and Company.



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The Ranally Minor Area Codes were established from a trading area map developed by Rand, McNally and Company. There are 494 such areas, which are indicated by numbers keved to an alphabetical list at the bottom of their map.

DMI Place Sizes groupings in the ARF, based a two digit code. have been developed by DMI for each county on the ARF. For SMSA counties. this code represents the population of the SMSA in which the county is located. For non-SMSA counties, this code represents the population of the county. These codes have been assigned as follows:

	Place size (1970 Census)	Place size code
SMSASMSASMSASMSASMSA	500,000 - 999,000 250,000 - 499,000 100,000 - 249,000	11 21 31 41 51
Non-me	tropolitan areas (1970 Cens	us) Place size code
NONMET	50,000 plus 25,000 - 49,999	2 3
NONMET	10,000 - 24,999 5,000 - 9,999	4 5

Under 4.999

Comprehensive Health Planning Areas

NONMET.....

NONMET.....

DMI has assigned a four digit numerical code to each Comprehensive Health Planning (GHP)-area as defined by the U.S. Comprehensive Health Planning Service, although there are a few exceptions for areas that are composed of parts of counties. These CHP areas are listed in DHEW Publication No. (HRA)74-14, 001. The DMI exceptions to these areas are listed in the DMI Area Resource File User's Documentation presented later in this report.

Professional Standards Review Organization Areas

DMI has assigned a four digit numerical code to each proposed Professional Standards Review Organization (PSRO) area as designated by the Secretary, These areas were delineated for the purpose of defining geographical areas over which each PSRO, whose function is to monitor the quality of health care, will have jurisdiction. The PSRO areas presently on ARF are those as listed in the Federal Register dated December 20, 1973, with a few exceptions as listed in the DMI Area Resource File User's Documentation.



Demographic Data

The Area Resource File contains a set of demographic data elements selected by DMI as providing the most essential analytical input. These data largely cover county population estimates, classified by a variety of important characteristics. Because of the need to provide comparable data for all counties, most of the data are drawn from the 1970 Decennial Census. A few total population estimates are also provided for earlier Census years.

The list below indicates the specific demographic data elements contained in the ARF for each county:

1970 Census Population--Total Resident Population

1970 Census Total Resident Population by Race (White, Black, and Other)

1970 Census Total Resident Population by Age and Sex

1970 Census Total Resident Urban Population

1960 Census Total Resident Population

1950 Census Total Resident Population

1940 Census Total Resident Population

Economic Data

As with demographic data, the potential amount of economic data that could have been incorporated into the ARF was virtually limitless. In order to provide a manageable file, however, it was necessary to limit the ARF economic data to those elements deemed to be most critical to area health resource analysis. Although there are literally hundreds of other data elements that could have been included, those that have been placed in the file in practice have been found to be among the most analytically valuable for health manpower area analysis. Should time and resources permit, these may be changed or revised in the future.

The economic data elements included in the ARF are listed below:

Total Personal Income from the 1970 Census
Distribution of Personal Income for Families and Unrelated Individuals
Total Personal Income from the 1960 Census
Total Personal Income from the 1950 Census
The Number of Households from the 1970 Census
The Number of Families Receiving Aid to Families with Dependent
Children Income According to the Social and Rehabilitation Service

Health Manpower Data

The health manpower data elements contained in the ARF are obviously the most critical of all the elements that would be needed for meaningful analysis. Unfortunately, only limited data on health manpower are available by county, and much of what exists is not current. In most cases, such data are based on earlier surveys conducted of licensed manpower



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only. Furthermore, many of these data sets refer, not to active hearth manpower, but rather to total licensed manpower.

Because of the variety of sources from which this information was drawn and the resulting variety of dates, definitions, and coverage, the health manpower data in ARF should be used with extreme caution, and with continuing explicit reference to the detailed user documentation (presented in Appendix A) which explains the data sources in detail. It is important to note, however, that currently ongoing intensive data collection efforts within HRA, both in the National Center for Health Statistics and the Bureau of Health Resources Development, should provide substantially improved, expanded, and more current manpower data within the next year or so. For example, new data on the number of RN's and Podiatrists are expected to be available shortly.

The health manpower data currently available in the ARF are listed below:

Active Non-Federal M.D.'s for 1940, 1950, 1969, 1970, and 1971
1971 Osteopaths by: Total, Primary Patient Care, Active Non-Federal
Total Dentists for 1968 and Licensed Dentists for 1971
Patient-Care Optometrists for 1968, Licensed Optometrists for 1972,
and Active Optometrists for 1968
Active Pharmacists for 1966
Total Podiatrists for 1966
Total Veterinarians for 1967
Active RN's for 1966
Employed LPN's for 1967

Hospital Data

In order to provide meaningful comparative statistics for evaluation of area health resources, the ARF contains a wide variety of hospital data. These include not only gross statistics on the number and type of hospitals, but also selected data on hospital utilization, such as beds, patient days, and services offered.

In many ways, this segment of the file contains perhaps the most complete data set of all the categories and provides a basic capability for many types of analysis. However, as with other data categories, the hospital data are not completely current, although more current data are continuously hecoming available.

The hospital data currently in the ARF are listed below:

Number of General Hospitals
Number of Special Hospitals
Distribution of General Hospitals by Number of Beds
Hospital Employment by Type of Hospital for the Following Occupations:
M.D.'s, D.D.S.'s, Interns and Residents (M.D.'s and D.D.S.'s), Other
Trainees, RN's, LPN's



Number of Outpatient Visits to General Hospitals for 1970

Number of Clinic Outpatient Visits to General Hospitals for 1970

Number of Outpatient Visits to Special Hospitals for 1970

Number of Inpatient Days in General Hospitals for 1970

Number of Outpatient Visits to General Hospitals for 1969

Number of Inpatient Days in General Hospitals for 1969

Distribution of General Hospitals by Types of Service as Listed in the Hospital Guide issue plus some Services from Previous Years Distribution of General Hospitals by Utilization in 1970

Distribution of General Hospitals by Number of Services Offered in 1970

Total Hospital Expenditures

Number of General Hospitals by Type of Emergency Services

Training Data

Although the ARF was developed with only minimal emphasis on education and training data, this aspect of the file has been closely evaluated by DMI staff with the aim of substantially expanding and updating these data. Currently the file contains data on schools, graduates, and enrollments for a large number of occupations, as well as information on related training, such as residency programs. As the date of publication of this report, the entire training file was being reevaluated and updated. Nevertheless, the training data currently in the file can provide substantial insights into county resource availability, both when viewed by themselves and in conjunction with other data.

The training data on the ARF cover number of schools, enrollments and graduates in medical schools, dental schools, nursing, optometry, pharmacy, podiatry, veterinary medicine, osteopathy, and dental auxiliary.

Health Status and Vital Statistics Data

The final data set contained in the ARF is this small but essential category. The amount of available data of this kind is voluminous, and it was necessary in developing the ARF to select only a few of the most assential major elements for inclusion. As a result, those elements included were generally chosen to reflect only the more generally accepted measures which could be clearly quantified on a county basis and which were believed to be most clearly related to manpower and hospital data. These data now in the ARF have proved to be very useful, although this is not meant to imply that other data elements of this type would not have been equally useful. The data elements on health status and vital statistics are shown below:

Total Mortality Infant Mortality Infectious and Parasitic Diseases Mortality Number of Births in Hospitals Total Number of Births



In summary, the ARF contains selected sets of data elements in broad categories that were deemed by DMI to be useful in the analysis of area health resources, taking into account the considerations spelled out at earlier points in this discussion. Readers of this report and users of the ARF are cordially invited to make comments and to offer suggestions as to what other data elements and categories might be more useful and which specific data might be added to the file.

Basic ARF Outputs

Since its inception, the Area Resource File has been used largely to provide four basic types of standard output, although a wide variety of other uses can and, have been made of it on a number of occasion. The four major outputs are: (1) the Basic ARF Area Profile; (2) the Shortage Output; (3) the Manpower-Population Ratio-Output; and (4) the Ranking Profile.

Basic Area Profile from ARF provides a compact data profile of a particular area or set of county-based areas, which serves to bring together in one simple print-out the major data on an area. This profile has proved to be an extremely valuable summary to users, primarily as a starting point for area analysis. (A sample tabulation of the Basic ARF Profile is shown in Table 1.) Such a tabulation can be relatively easily prepared for any county, State, or group of counties, as well as for the OBE areas, Ranally Areas, or SMSA's, described earlier. Not only can the data be provided for the individual counties comprising such groupings, but totals for any of these groupings can also be easily provided.

The Shortage Output reflects an identification of counties or groups of counties that are relatively less well off than others in terms of manpower/population ratios. In this type of standard print-out, ratios of manpower to population are developed on a county basis and than compared to some pre-determined standard, which can be an "ideal" ratio, an "average" ratio or some other pre-determined standard ratio. The comparison provided by the case the indicates to what extent a "shortage" or "surplus" exists (as compared with the standard ratio), and what numbers of manpower would be needed to bring the existing ratio in line with that pre-determined standard.

Although such simplified analytical print-outs obviously do not answer all the questions about the relative manpower situation in different areas, they do provide the beginning point on which further analysis and study can be based.

Table 2 provides an example of this type of potential output. In this example, for Kentucky counties, the resident population and number of optometrists are shown, along with the number of optometrists that would be needed to meet the various pre-determined standards indicated. In this way, it can be determined whether or not the particular county has an adequate or inadequate supply according to those standards. Table 3 presents similar information for a small group of SMSA's in the field of podiatry.

The Manpower-Population Ratio Output is one major type of useful analytical output from the ARF that presents a standard simple listing of population, manpower, and manpower-population ratios by county or other groupings. Table 4 provides an example of such a print-out, indicating the number of M.D.'s and D.O.'s per 100,000 population in counties in Missouri. Table 5 provides a similar presentation, showing podiatrists per 100,000 population classified by size of SMSA's.

The Ranking Output derives from a ranking program which provides the capability for ranking selected geographic areas (county or otherwise) on the basis of 36 variables, or ratios of variables contained in the ARF. In this output, all counties in a State, or all States in the U.S. are ranked numerically in either ascending or descending order. For example, a print-out can be provided which ranks physician/population ratios in each county in the U.S., starting with the lowest ratio in any county and proceeding through all counties to the county with the highest ratio. Another meaningful standard print-out of this type provides, for selected data elements in a State, that State 's numerical ranking vis-a-vis other States in the U.S. Thus, on a single page of output, one can identify how a particular area ranks on each of a number of variables. Table 6 provides an example of such a print-out, in which the State of Kentucky is compared to all other States, with the State's ranking provided for a variety of measures, such as population, rural population, non-white population, nurse/population ratio, residencies, and other measures. Such a tabulation provides at a glance an indication of the relative standing of the State in many critical areas, and can serve as the basis for extended further analysis.

SELECTED MEASURES OF HEALTH MANPOWER, FACILITIES, AND EDUCATION, BY HEALTH AREA

05,'2/73

KENTUCKY STATE:

NUMBER OF COUNTIES 120 NUMBER, SMSA COUNTIES 8 TOTAL LAND AREA 39858	120 8 858	POPULAT NUMBER % RURAL POPULAT 1970 PO	TON (COOS) HOUSEHOLDS POPULATION/SQUARI	POPULATION (000S)	3215.9 820.7 53.0 83.0		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	KHITE 92.4 BLACK 7.5 OTHER 0.1	4 N -		
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nistelpytron of Senfall Hospi	ITALS RY SI	HOSPITALS BY SERVICES OFFERED: NUMBER OF SERVICES:		-4 5-14 43 48	0-4 5-14 15-24 25 + 43 48 16 1	+ =		

OUTPATIENT VISITATION POPE

/13000 PNP. 9001

GENERAL MARTALITY ...

INÉANT MORTALITY ...

2.5

4054585 126390 -1

REFERRAL ONLY..

45

BASIC UNIT.....

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MINOR DEPARTHENT.

16

LEVEL THE PHENGENCY CEDVICE: MAJOR DEPLATHENT ..

2687273 83562

SELECTED MEASURES OF HEALTH MANPOWER, FACILITIES, AND EDUCATION, BY HEALTH AREA

LISTING OF THE COUNTIES INCLUDED IN THE HEALTH AREA

SWAN YTNIICO	41816	ירא און ואטאס.	1405		COUNTY NAME	STATE	RANALLY NO.	TYPE
			•			:		ט יין יין יין
	>	24-269	RUPAL CC.		ALL:N	∑	765-47	יים אומיים
× 1 01 0	7 3	,	ر د د		9ALL 4RD	¥	54-334	
ANDERS IN			3-14012		ядтн	¥	54-546	RUKAL CU.
Naaku	. ∶				3NOOR	¥	08-086	SMSA CO.
1136	×	11-7-10			200	X	05-198	SMSA CO.
anijaar.	> >	596-96			2030	¥	108-279	RURAL CO.
a Jyr e	¥	070-70	- W- W- W- W-		00 C C V 1 NO 1 O C C	¥	24-259	RURAL CO.
age ATHITT	> ¥	076-76	Rija ki		0111 CO	¥	754-057	RURAL CO.
91)[> ×	24-253	S'JA AL Fr.	~	24.00	<u> </u>	26-33	SH. NON-M.
LAL DWELL	≻ ¥	561-76	E NON E		י אורוואאז	<u> </u>	74-334	RURAL CO.
i Japony J	> ¥	400-00	CASA CO.		הארואר. היה בה	2 >	001-30	
7 A88011	¥	24-249			TAKITK	- >	27-105	
7000	> ¥	54-25	SURAL CT.	,	CHRISTIAN	- >	21-12	RITRAL CO.
, 10 V	¥	670-72	-A-NON -MS			2	981-76	
• 1. K.	*	096-96	RIJEAL CO.		COLTTENDEN	<u> </u>		200
ONE south	Ş	150-76	RUPAL CO.		74VF55	¥ :	200.10	100 140110
TOMOROUS ACT	· >	154-76			きししいエエ	∑	861-60	
	> *	22-364	Ľ		FAYFTTE	¥	657-57	- CO - TO - CO
111-52	. >	01c=00			61 ባሃቦ	×	861-50	KUKAL CO.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- >	036.76	MINON NO		FULTON	¥	282-58	RUKAL CU.
N T T N T C S	- X	700-00	מין עטיים		GARRARD	¥	54-546	RURAL CO.
GALLATIN	≻ 3	2 C C C C C C C C C C C C C C C C C C C	- C - 14 014 0		GRAVES	¥	24-334	_
TABAT	<u>}</u>	C - K			24400	¥	54-259	
40 A Y SON	≻	0=6-76	: ہے		7 JO 07 4 77	×	24-332	
dilla ast	>	d	N-NCN XV		1000 TO 1000 T	×	21-267	
MAROIN	≻ ¥	24-259	- F - F - F - F - F - F - F - F - F - F		1	>	24-259	RURAL CO.
NUSIASVH	>	6: 6-76	AH CON-M		- 741	>	24-259	RURAL CO.
NO SOUCH	¥	26-136	CMCA CO.		- XX-11	- > -	24-135	_
HITKMAY	¥	24-334			NN MAN	· >	24-259	SNSA. CO.
147KS04	¥	650-70	SURAL CO.		JEFFER SUN	2 3	05-108	RURAL CO.
NINVOU	¥	67c-52	CM NOV-M		NDSHUC	23	072-76	RURAL CO.
NCLNIA	> Y	ソセーロイ	CMC D CO.		11074	- >	24-250	RURAL CO.
, , , , , , , , , , , , , , , , , , ,	¥	21-247	RUPAL CO.		LAPUE	- >	801-90	PITE AL CO.
. 130119	>	71-147			LAWRENCE	23	21-287	
	¥	676-76			ובלרוב	23	192-17	PILE AL CO.
* CITCHUS	>	180-10			LFWIS	- X	166-96	BILB AL CO.
2 (0) 71 -	>	576-76	۵۱۵ مرر ر		LIVINGSTON	2 3	766-76	PILIBAL CO.
Ne de	≻	25-057	- NON : WY		λυ λ 1	- >	26-250	9 5
711 11 11 11 11	>	54-334	・メークしとしじし		MC TRFARY	23	6.2-76	2
77417	>	26-33			MADISON	- >	652-52	N-NON-WS
NI DECTOR	>	P. C. L. 2 A			MARION	23	627-20	
LIVES CHALL	¥	25-136	יט זי אטפ		MARTIN	2 3	24-250	BIIRAI CO.
NCSCR	>	23-279	_		MEADE	23	672-43	
TO THE POST	*	676-76			ME ACTIF	2 3	743-43	BITRAL CO.
はいしていたはず	>	7447	RURAL CO.		A LA CALL	¥ \$	160-42	3 5
>00500F2C2	¥	576-76	MINON WY		NORGAN	Į ?	616-76	
A-IHI ENGES	>	26-33	RURAL CO.		NEL SON	֝֞֝֝֝֝֝֝֝֝֝֝֟֝֝֝֝֟֝ ֚	102142 ·	DITON CO.
	>	24-249	RUPAL CO.		UIHU	¥	200142	- 00
21 SHAH	· >	24-250	QUAL CO.		OWEN	→ :	56-52	KUKAL CO.
> 1	` `	24-249	PUPAL FO.		PENDLETON	<u> </u>	080-80	3 5
	>	24-249	SW. NON-W.		PIKE	∑	604-40	•
	· >	570-70	ه ۱۵ مر دن.		PULASKI	×	22	• E SON • ES
	•	•						

Table 2

INDIE COPTOMETEISTS PER POPULATION RASE AND THE AGOITIONAL NUMBER VEFOED TO PEET THE PROPOSES RATIO: BY COUNTY

KENTUCKY					<u>a</u>	OPOSED	RATIOS			
COUNTY NAME		NUMBER OF	1 1 1 1 1	-	1 PFR	-	1 PEP	1 PCP	1 PER	1 PFR
	11,000.5)	OPTOMETRISTS	. 15,000 PDP	16,500 POP	18,000 POP	19,500 POP	21,000 POP	22,500 pnp	24,000 POP	25,500 POP
ANAIR	13	-	-		-		,			
ALL FN		-	; -	•					ו •	6.1
ANDFRSON	. 0		•				0 .	٠	٠	2.0
AALLAAD	ď	٠ ,	2				•	٠		•
RARREN	, 00	. ~	· -		2 0	٠	ζ-	۰ د د	٠ د د	٠
BAZA.	6	C	0	0			• -	• `	•	0.0
Reit	15	: •3	0.		, ,	•		٠	•	٠
ROONE		^	0.0		• 7	٠	• `	۰.	٠	>• <
ลาปุกกก	0	-	α .	· c			7 -	· ·		٠.
AUYD		. 0	# C	• •		*	- C	7.0	, ;	
8071.6	21	~	. 4			ά			•	•
8F ACK FN		. 0	0.0	0		ے د				
AREATHITT	14		•	•	2.5		•	٠		; ;
BR FCK I NR 1 DGF	15	-	1.0						0 4	
BULLITI	**	0	0.0	0.0"	0.04		*0.0			
RUTLFR	10			0.0	•					
CALDWELL	13		2.2						2 4	٠
CALLUHAY	28			•	•		, 4			9 4
CAMPRELL	49	æ,	1.0		•		7.	- ر ن د		٠
CARL I SLF	ທ					3.6	α			
CARROLL,	c	_	1.7	1.9	, ,			2.4		- 0
CARTER	°2	_		8.0	0	• -			0 · ·) · ·
CASEY	13	_	1:1	1.2		• •	•			,,
CHRISTIAN	3,6	• •	0				0 4	1.6	٠,٠	٠.
CLĄRK	54	٠,		1.3	1.4			α.		-
ርኒ ል.ሃ	81.	-	8.0	8.0					٠.	1.7
CI INTON	œ	c	0.0	•	•				• [n (
CRITTENDEN	o	_	1.7		•		•	•	9 0	
CUMBFRLAND	7	0	0.0		0.0	0 0		•		
DAVIESS	42	c	1.7	8.	•					•
FOMONSON	0	c		0.0			0.0) c
FLLIOTT	•	C	0.0	0.0	0.0	0.0	0.0	•	0.0	
#5T1L	£.,		1.1	٠	•	1.5	1.6	1.7		1.9
7-10-4-	174	_	•	o	٠	0.7* 1	0.8* 1	٠	6.0	1.0
20.00	= ;	. ح	•	0.0	0.0	٠	0.0	•	•	0.0
	36	_	0.4* 1	0.44 1	0.5	0.5	0.5	•	9.0	0.7
TARMAL IN	36	m	1.3	٠	1.5	٠	8.1	1.9	2.0	2.2
rut 1134	10	~	5.9	3.2	3.5	•	4.1	•	4.7	5.0
CASSASS	7 '	0	0.0	0.0	0.0	•	•	•	•	0.0
CAKKAKU	6	_	 	1.7	1.9	•	•		2.5	2.7
12841	C	0	0.0	0.0	0.0	-		0.0	٠	0.0
SKAVTS SDAVES	31	47	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3
20 T 10 C	` ·	۷.	1.8	5.0	2.1	2.3	2.5	2.7	2.9	
N L S V O	0.		1.4	1.6	1.7	•	2.0	2.1	2.3	٠

^{*} SHORTAGE COUNTY: NUMBER TO THE RIGHT OF THE * IS THE NUMBER OF ADDITIONAL CPTOMETRISTS . NEFOED TO MAKE THE COUNTY A MON-SHOPTAGE AREA

Table 2 (cont.2)

11-16-72 Optometrists der population base and the additional number neford to meet the proposen ratio: by county

					۵.	PROPOSED	RATIOS				
KENTUCKY COUNTY NAME	THENT	NIMBER OF	1 958	1 PFR	1 PEP	1 PEP	1 PER	1 PER	1 PFR		
	POPULATION	OPTOMET	15,000 PGP	14,500 POP	18,000 POP	19,400 POP	21,000 POP	22,50C POP	24,000 POP	25,400 POP	
	r c	7	7.6	9.0	3.7		3.8	٥٠,	4.3	4	
CKEENUE	r h					0.0	0.0	0.0	0.0	٠	
HANCOCK	78	٠, ٨	0.34		0.4# 2	ပ်		0.5* 1	•	*9.0	
77 045	7.4	۰ ۸	. 60	8.0	σ	-	1.1	1.2	1.2	1.3	
HADOT COM		-	0.0	1.1	1.2	1.3	1.4	1.5		1.8	
HARK I SUN	7.	٠,	2.1	2.3	2.5	2.7	3.0	3.2	٠	3.6	
NC20BOKEN	36	ן פי	1.2		1.5	1.6	1.7	1.8	٠	2.1	
HENDERSON	? =	C	0.0	0.0	0.0	o.0	0.0	o•c	0.0	0.0	
244	. ~	, c	0.0	C.C	0.0	0.0	0.0	0.0	•	٥.0	
HICKSIN AUDITOR	380		2.3	2.5	2.8	3.0	3.3	3.5	٠	0.4	
IACKSON	e S		1.5		1.8	4.9	2.1	2.2		S .	`
NOS	695	4	7 *6°0	6.0	1.0	1:1	1.2	1.3		٠٠,	
FINENSAMI	_	~	1.7	1.8	2.0	2.2	٠	2.5	7.2	6.2	
NUSNHUT	8.		1.7	1. 8	2.0	2.2	7.4	2.5			
KFNTON	129	_	1.1	٠	1.3	7.5	. 9.1	100	•	٠	
KNOTT	15		o•c	0.0	0.0	0.	٠	0.0	٠. د	٠	
KNOX	5 2		9.0	9.0	7.0	စ ဖ ပီ .	æ (· ·		٠,٠	
LARUE			1.4	1.5	9.1	٠	٠ • •		· · · ·	•	
LAUREL	27		1.0	1.2	F. 3	· ·	•	, r		٠ • •	
LAWRFNCF			٠	٠٠,	٠.	r c	•	• •			
LFE			٠	0.0		٠					
LESLIE	7.		٠	, c	10	ء د د		0	• •		
LETCHFR			0 0	- 0		0 0	0.0	0.0	0.0	0.0	
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z				ء ڏ ڏ		0.0	0.0	0.0	0.0	•	
רואכטריי.	- a		•		0.0	0.0	0.0	0.0	•	0.0	
				. 5	1.6	1.7	1.9	2.0	2 • 2	2•3	
	· •			0.0	0.0	٥.٥	0.0	0.0	0.0	٠·٥	
NEW CRACKEN	88		1.5	1.7	1.9	2.0	2.1	, 2 •3	٠	5.6	
MC CREARY	13		0.0	0.0	0.0	0.0	0.0	0.0		0.0	
	,		0.0	0.0	0.0	٠ د د	0.0	0.0	٠		
MADISON	63	ن ک	1.7	1.9	2.1	2.0	* 0	•••	0 0	0.0	
MAGOFF IN			200		0.0	٠.		· "		1.5	
MARION	17		2 4 8	· ·	2.	7 6 7	2.0	2.2	2.3	2.5	
MAKSHALL	·		•			0.0	0.0	010		0.0	
AAK- IN			9		3.1	, e	3.6	3.0		7.4	
100 to 1				1 0.01	0.0	0.0	0.0	0.0		0.0	
	7		0.0	0.0	0.0		0.0	0.0	•	0.0	
MERCER.	91		1.8	2 • 0	2.2	5.4	5.6	2.8	•	3.1	
METCALFF	æ		0.0	0.0	0.0	•	0.0	0.0	•	٥,٠	
MONROF	13		1.2	1.4	٠,٠	1.6	æ 1		•	1 • 7	
4 ONT GOMFRY	51	- -	6	1.0		2:1.	 	÷ (•	o 4	
MORGAN		-	1.4	1.6	١: ١	۲۰۱	2.0	3.,	•		

OF ADDITIONAL OPTOMETRISTS * SHORTAGE COUNTY: NUMBER TO THE RIGHT OF THF * IS THE NUMBER NEFDED TO MAKE THE COUNTY A NON-SHORTAGE AREA

ERIC Full Text Provided by ERIC

11-16-77 OPTOMETRISTS MED PAPULATION BASE AND THE ADDITIONAL NUMBER NEEDED TO MEET THE PROPOSED RATIO: BY COUNTY

COUNTY NAME	PESTOENT POPULATION (1,000'S)	NIMBER OF OPTOMETRISTS	15,000 Prip	16+530 POP	18,600 18,600 PAP	19,500 Pop	21,000 POP	1 PER 22,500 POP	1 PFR 24,900 PUP	1 PER 25,500 POP
Sough In in	, ,	ſ	•	•		`				5
וויינרי וויינר	· \	• 1	•	?•.	<u>.</u>	•		•	•	•
MELSON TO THE	23	^	1.2	1.4	٠.	1.6	1.7	6.1	2.0	2•1
NICHOLAS	7	c	0.0	0.0	0.0	0.0	0.0	0.0	٥.	0.0
OHIO	6.7	^	1.6	1.7	1.9	2.0	2.2	2.4	2.5	2.7
በኒ ፀዛልሓ	5	c	0.0	0.0	0.0	0.0	ئ	0.0	0.0	0.0
OWEN	80	ت	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OWSLFY	r	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
PENDLETON	30	_	1.5	1.6	8	6.1	2.1	2 • 2	2.4	2 - 5
ргаст	26	٠	1.7	1.9	2.1	2.2	2.4	2. k	2.8	5.9
PIKE	41	~	0.4* 2		9.5¢	0.6×	9.0	0.7	1 20	9.0
PNWFLL	æ	c		ن	0.0	0.0	0.0	0.0	0.0	0.0
PULASKI >	35	4	1.7	1.8		•	2.3	2.5	•	2.8
RUBERTSON	^	c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUCKSASTLF	12	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROWAN	. 17	_	a. C.	6.0	0:-	1:1	. 2.1	1.3	1.4	1.5
RUSSFLL	11	c.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCOTT	8-		8.5	6.0	1.0	1.0	1.1	1.2	1.3	1.4
SHFLBY	c:		0.7	ر. ۶	0	1.0	1.1	1.1	1.2	1.3
NUSAWIS	£ i	_	1:1	1.2	1.3	1.5	1.6	1.7	1.8	1.9
SPENCER	æ	0	0,0	0.0	0.0	0.0	٥.	ت د	0.0	0.0
TAYLAR	1.1	~	5.6	5.8	3.1	3.4	3.6	3.9	4.2	4.4
1100	11	ර	0.0	0.0	0.0	, o • o	0.0	0.0	0.0	0.0
TR 166	C	-	1.7	1.9	2.0	2.2	7.4	5.6	2.1	5.9
TRIMALE	r	c	٠	0.0	0.0	0.0	٠ ٥•٥	٥•٥	٠	0.0
UNION	71	-•	6.0	١٠٠	1.1	1.2	1.3	1.4	1.5	1.6
KAKRFN	57	ç	1.5	1.7	8.1	2.0	2.1	2.3	٠	
WA SHINGTON	11		1.4	1.5	1.6	1.8	1.9	2.1	٠	•
WAYNE	71	≂	1.0	1.1	1.2	1.3	1.4	٠.	1.6	1.7
WFASTER	13		1.1	1.2	1.3	1.4	1.5	1.6	•	1.9
	,	æ	a.:	5.0	2.2	5.4	2.6	2.8	5.9	3.1
WOLFE	4	c	ري	٥. د	0.0	0.0	0.0	0.0	٠	٥.
HOODFORD	14	_	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
TOTAL SI	SHORTAGE COUNTIES NUMBER SHORT	519	σ	œ	4	5	4	m		6
			20	13	o	7	ď	7	4	C

~_%, *



^{*} SHORTAGE COUNTY: NUMBER TO THE KIGHT OF THE * IS THE NUMBER OF ADDITIONAL OPTCMETRISTS NEEDED TO MAKE THE COUNTY A NON-SHOKTAGE AREA

POSTATATATS OF POPULATEN PASE AND THE ADDITIONAL NUMBER NEEDED TO MEET THE PROPUSED RATIO: BY SMSA AND COUNTY PREPRISED RATIOS 21-71-61

	PER 0,000 POP	2.86.2	.0 .0 .4* 1 .1*-67 .3 .5	7*- 7*- 0 0	.7 .7*-13 0	22.7	0.0
,	1 PER 1 45,000 50 POP	w	.6 * .9 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	6.6 8 0 8 0 8 0	2.4-12 2 0 0	2.00 2.00 2.4. 0 0	0.0 1.5 1.3*- 4 0
•	1 PER 40,000 POP	3.3 2.1 0.6* 5	0.5* 5 0.0 0.3* 1 1.7*-53	3.04- 7	2.1*-11 2.1*-11 0	0.9 0.0 4.9 2.1*- 6 0	0.0 1.3 1.2*- 3 0
•	1 PER 35,000 POP	2.9 1.8 0.5* 7	0.5* 6 0.0* 1 0.3* 2 1.5*-43	2.6*- 7 0 °	1.9*-10 0.00	0.8 0.0* 1 4.3 1.9* 5	0.0* 1 1.1 1.0*- 1
	1 PER 30,000 POP	2.5 1.6 0.4* 11 1.3	0.4* 9 0.0* 1 0.2* 2 1.3*-29	2.2*4.6	1.6*- 8 0.00	0.7 0.0* 1 3.7 1.6* 4	0.0* 1: 1.0 0.9* 1
	1 PFR 25,000 PUP	2.1 1.3 0.4* 15	0.3* 12 0.0* 1 0.2* 3 1.0*-10	1.8*- 5 0	1.3 1.3*- 6 0	0.6* 1 0.0* 1 3.1 1.3* 3	0.0* 1 0.8* 2 0.7* 3
	1 PER 20,000 POP	1.6 1.0 0.3* 22 0.9* 1	0.2* 17 0.0* 1 0.1* 4 0.8* 19 45	1.5 1.5*- 4 0	1.04- 2	0.4* 2 0.0* 1 2.0* 1 1.0* 1	0.0* 1 0.6* 5 0.6* 7 0.6* 7
	15,000 POP	1.2 ° 0.34 6 0.24 33 0.54 6	0.2% 25 0.0% 2 0.1% 6 0.6% 66 0.6% 66	1.1 = 2	0.8 4 4 0.8 4 4	0.3* 3 0.0* 2 1.8 0.8* 2 5	0.0# 2 0.5# 11 0.4# 13
	NG. OF. POOTATRISTS	28 11 13	124	20	119	. 108	122
	FESTORNI PHP [1.0061S]	756.6 522.8 660.5 285.2	487.7 487.7 37.1 111.0 2.860.9	132.9	348.8 348.8	80.8 37.5 64.1 182.4	38.6 350.8 389.4
	STATE ABYR.	۲ M کا د کا کا کا کا کا	VA VA VA VA	10a NTIES	FLA MTIES	ОН У ч V У ч V	KAN KAN MI 1FS
	COUNTY NAME	THE PLANT OF A LICE OF LAND OF	FATERS TO THE STATE OF THE STATE OF THE STATE OF THE SHORTES TOTAL SHORTES TOTAL NUMBER SHORT	HAZO REACK HÄMK SMSA TÖTAL TYTAL SHERTABE COUNTIES TOTAL NUMBER SHUKT	1940 PAL4 REACH SMSA TOTAL TOTAL SHINTASE COUNTIES TOTAL NUM3EP SHORT	9909 AFLWONT MARSHALL CHIC SWSA TOTAL TOTAL SHGRTAGE COUNTIFS TOTAL NUMBER SHORT	0040 BUTLFR S-DGHICK S-WSA TOTAL TOTAL SHORTAGE COUNTIFS TOTAL NUMBER SHORT
	1505	τ π λ		رد <u>ر</u> به	0>64	6000	0040

* SHORTAGE COUNTY: NUMBER TO THE RIGHT OF THE * IS THE NUMBER OF ADDITIONAL PODIATRISYS NEFOED TO MAKE THE COUNTY A NON-SHORTAGE AREA



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S. D.C	
M.D. 15. D.	THE PARTY OF THE PARTY OF THE PARTY OF THE
ACTIVE NON-PEDERAL M.D. S. D.C	2
IVE NON-F	
AC T	

R 8.8	STATE NAWE COUNTY NAME	1970 CENSUS POPULATION (COTES)	SCIIVE NOW-FEDFRAL M.D.*S (1970)	M.D. S PER 120,000 POPULATION	ASTIVE VSN-FEDERAL 0.0.15 (1971)	D.D. S PER 190.000 POPULATION
11.9	MISSOURI #ausertanareser ADAIR		4	& ,		302
7. 9.7	NORFW	11.9	٣	\$\$	ပ	0
19.6 8 41 6 6 8 10.4 6.5 8 2 10.4 6 5.8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			4	£7		=
H B.8	UORAIN	25.3	14	v v	ω	32
16.4 6 58 2 15.4 7 45 2 9.7 2 21 3 81.0 0 0 1 81.0 394 474 45 81.0 93 99	APRY	19.6	œ	41		د
R 8.8	ARTON	10.4	,	85	^	c
8.8 0 0 0 1 81.0 394 474 4 87.0 96 110 10 33.5 34 107 2 83.5 34 107 2	ATES	15.4	1	45		. <u>m</u>
81.0 394 472 4 81.0 394 472 4 87.0 96 110 · 10 33.5 36 107 2 8.3 3 36 20	FYTOV	7.6	~	1,	er	31
81.0 394 474 4 87.0 94 110 · 10 33.5 35 107 2 8.3 3 36 24 93 9	nli Inger	8.8	c	C	-	. 11
87.0 96 110 · 10 33.5 34 107 2 8.3 3 36 2	JOVE	81.0	394	717	4	¥
3.5 34 107 2 8.3 3 36 2 25.8 24 93 9	UCHANAN	87.0	96	110		12
8.3 3 36 2 25.8 24 03 9	JTLFR	33.5	36	107	۰.	ۍ .
25.8 24 03 9	ALAWFLE	φ. 	ĸ	36	~	24
	CALLAWAY	25.8			6	35

ACTIVE NON-FFDEPAL M.D.'S, D.D.'S AND W.D. - D.O. POPULATION PATIOS
BY COUNTY F.D. THE STATE OF MISSOURI

		BY COUNTY FOR THE STATE OF MISSOURI	F STATE OF 41	SSOURI	
	1070 CENSUS PAPULATION	ACTIVE NON-FEDFBAL	M.D. 'S PER 100,000 POPULATION	ACTIVE NON-FEDERAL	0.0.15 PER 101.200 PUPULATION
STATE NAME COUNTY NAME					
415501P1		/			
	13.1	,	57	v	c
CAPF GIOAPJEAU	7.67	ሆ ሂ	111	· · · · · · · · · · · · · · · · · · · ·	Ł
CARROLL .	12.6		. 28	/ 's	. 32
CARTER	3.9	c	c	احم	52
CASS	3.94.	~	18	9	15
CFDAR	7° 6	**		m	32
CHARITON	11.0	~	18	۳	. ,
CHRISTIAN	15.1	1	٢		92
CLARK	8.2	Û	٥		12
CLAY	123.4	. 97	37	7	\$
CL INTON	12.4	ur ,	۷,	٣	52
כחרפ	46.2	. 83	115	30	43
COOPER	14.7	σ	61	~ ·	14
CRAWFIRD	14.8	e	56	1	~

01-04-73

Table 4 (cont.3)

ACTIVE NON-FEDFRAL M.D.'S, D.D.'S AND 4.U. - D.O. POPULATION RAILOS

- 01.0	1 1111	
TOU VENT		
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ULV LOL COU.		
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STATE NAME CUUNTY NAME	1970 CENSUS PRIPILATION (FOCES)	ACTIVE NON-FFDERAL M.D.'S (1973)	M.D.15 PFR 100,000 PUPULATION	ACTIVE NON-FEDERAL D.n.'S (1971)	D.O. 1 PER 104,00C POPULATION
MISSOURT	.	m	, 77		° .
DALLAS	0.01	-	10	r	30
NAVIESS	9.4	•	3,4	2	5 2
DE KALA	7.3	c	ć	٣	7
DENT	11.4	٣	36	~	18
ัחפעה	6.2	~	23		11
DUNKL IN	13.7	18	Ę		m
FP ANKL I'N	1.53	12	38	4	۲
GASCOVADE	11.8	~	51	4	99
GENTRY	8.0	N	3.8	-	24
GRFFNF	152.9	207	5£1	16	11
GRUNDY	11.8	4	12	o	c
HARR 150N	10.2	ĸ	66	4	07
HFNRY	18.4	~	86	œ	77

11-04-1s

Table 2 (cont.4)

ACTIVE MON-FEDERAL M.D.'S, D.O.'S AND M.D. - D.O. POPULATION RATIOS

STATE NAME FOUNTY NAME	1970 CENSUS POPULATION (F08+S)	Artive win-Ferreal	M.D. 1S PER 1 TO CO PAPULATION	ACTIVE NOV-FEDEZAL 0.0.15 (1971)	L.C. 15 PER In enc POPULATION
MISSOJRI ARRENGESESSESSESSESSESSESSESSESSESSESSESSESSE	4 • n	c	c	- C	22
אטו ז	9.9	2	J٤	~	ć,
НОЧАВЭ	10.5	v	44		e e
HUMEII	73.6	o	3.8	-	ĸ
ופיזא	4.6	4	45	٥	c
JACKSON	654.6	066	151	164	۶,
JASPER	79.8	0,	ø. 6.	23	600
JFFFFRAN	1.5.2	<i>د</i> د	21	4	Ł
NUSNHUF	1.25	14	41	v	14
KNI)X	5.7	۸,	35	4	02
LACLEDE	19.9	œ	04	~	61
LAFAYETTE	26.6	14	53		38
LAWRENCE	3.4.5	17	8	£	25
LFWIS	11.0	1	c	٣	7.2

② .

25

J

Table 4 (cont.5)

ACTIVE NON-FEDERAL M.D. 15. D.D. 18 AND M.D. - D.D. POPULATION RATING

STATE NAME FOUNTY NAME	1970 CENSUS PYPIILATION (CODIS)	ACTIVE NOW-FEDERAL M.D.* S (137)	M.P.15 PFA 1 C.O.O.O PHPULATION	Artive 5,34-FERF2AL 0,0,15 (1971)	0.0.15 PFR 100.000 P! PULATION
HISSOUR!	6.8	4	~	ď	α.
1 INA	15.1	4	۲,	ď	· EE
LIVINGSTON	15.1	•	, ,	3	۶,
MC DONALD	17.3	0	e.	•	54
MAGON	15.4	4	, 24	œ	9,6
HAĄISON	٠ .	r	×	4	1.7
MARIFS	۸.8	c	c	۸.	6 د
4AR J NV	28.1	23	82	æ	23
MFRCF2	6.	c	c	۳	₹
YILLER .	15.0	~	13	₹	70
Iddississim	16.6	e	1.8	w.	٥٤
HONITEAU	10.8	ĸ	** 97	~	<u>\$</u>
MONROF	9.5	^	23	۳	32
MONTGOMERY	11.0	^	<u>я</u>	ĸ	44.

26

Table 4 (cont.6)

ACTIVE NON-FEDEPAL M.D.'S. D.D.'S AND M.D. - D.D. POPULATION RATIOS

BY COUNTY FOR THE STATE OF MISSOURI

n1-04-73

,	1970 CENSUS POPULATION	ACTIVE NON-FEDERAL	M.D. + S P FR 100+000 PDP ULATION	ACTIVE YDN-FEDERAL D.O.'S (1971)	0.0.'S PER 100,000 PGPULATIÓN	•
STATE NAME COUNTY NAME .						هي ي
MISSOURT	10.1	ſr.	96	o	50	•
NEW MADRID	23.4	œ	34	2	` `	مخ
NEWTON	32.9	, 01	30	60	2 ዓ	,
NDDAWAY	22.5		31	2	٥	
ORFISON	9.5	Ċ	22	m	32	
OS A G E	11.0	0	c	2	118	
OZARK	. 9	c c	c	4	. 59	
PEHISCOT	26.3	, 01	38		4	,
РЕЯЯҰ	14.4	9	62	٥	ο,	
PFTTIS	34.0	28	82	Æ	54	
PHELPS .	29.5	01	34	m	10	
PIKE	16.9	T	\$9	r.	18	
PLATTE	32.1	ĸ	5.	1	m	,
POLK	15.4	•	39	2	13	

3 B

	ACTIVE NON-F	EGERAL M.D. 'S, D.N. '	A STATE OF W	ACTIVE NON-FEDERAL H.D.'S, D.O.'S AND M.D D.O. PODULATION RATIOS	<u>\u01</u>	
ATE YAME Unty name	1970 CENSUS POPILATION (COMS)	ACTIVE HUN-FEDERAL M.D.'S (1970)	M.D.15 PFR 130,000 POPULATION	ACTIVE VON-FEDEWAL D.O.'S (1197!)	D.O. 45 PER 15.700 PIPULATION	
SSDURT Kererhegerere Laski	r, 2, 7	v	Sin.	, , , , , , , , , , , , , , , , , , ,		
TNAS	5.9	c	E"	4	. 89	
11 \$	7.8	, C	ပ	٧	92	
Ha 100h	22.4	O H	59	æ	35	
	17.6	ĸ	28	~	12	
ראיזן אַכ	6.1	0	c	, 	91 %	
J. EY	8 • 6		10	~	12/	
CHARLES	٥٠٤٥	46	69	\$	7	
CLAIR	7.6	9	62	_{end}	٤١٠	
FRANCOIS	34.8	28	, ,	13	35	
ריייוז	951.3	250 American	v v	. 2	J	
רטחוצ נונג	622.3	2524	905	85	13	
GENEVIEVE	12.8	· m	23	0	, O	
INF	24.6	19	7.7		4	

Table 4 (cont.8)

. 01-04-73		Table 4 (cont.8)	8)			
	ACTIVE NON-F	ACTIVE NON-FED" BALCOUNTY FOR THE STATE OF MISSOURL BY.COUNTY FOR THE STATE OF MISSOURL	S AND M.D	D.O. POPULATION RAT	301	
STATE NAME COUNTY NAME	1970 CENSUS PRPULATION (000'S)	SCTIVE NON-FEGERAL M.D.'S (1974)	M.D. S PER 100,000 POPULATION	ACTIVE NON-FEDERAL D.O.1S (1971)	0.0.'S PER 100.030 PRPULATION	•
MISSAURT ************************************	۲.,	c	o	м	49	
SCOTLAND	5.5	С	°	m	55	
SCOTT	33.2	75.	72	pet.	.	
SHAŅMUN	7.2	c	o	~	28	
SHEI.8Y	7.9	e 4	13	4	50	
STNDDARD	75.7	v	19	œ	32	,
STOVF	o •	4	9	o	0	
SULLIVAN	7.6	-	۲۱	٧.	9,2	
TANEY	13.0	œ	29		~	
TFXAS	18.3	ĸ	14	. 2	11	
VERNON	19.0		В	vr	27	
WARREN	4.6	2	, 21	-	61	
WASHINGTON	15.1	4	92	2	14	
WAYNE	. 8	•	12	m	35	

01-04-73	ACTIVE NON-F	Table 4 (cont.9) ACTIVE NON-FFDEPAL 4.D.'S, D.O.'S AND 4.D D.O. POPULATION PATIOS BY COUNTY FOR THE STATE DE 4155OURT	9) 15 AND 4.0	3.0. POPULATION PAT	<u>sor</u>
STATE NAME County name	1970 CENSUS POPILATION (COO'S)	ACTIVE NUN-FEDERAL M.D. 15 (1970)	M.D.15 PFR 100,000 PDPULATION	ACTIVE MON-FEDERAL D.J.'S (1971)	0.n.'S BER 10C.090 PUPULATION
MISSOUPI enteectenter WEGSTER	15.5		ř.	~	13
WORTH	3.6	**	. 50	1	د د
4416HT	13.6	^	1,5	r	36
TOTALS	0.4674.0	5541	121.1	765	16.4

Table 5
TOTAL PODIATRISTS BY SIZE OF SMSA

SMSA CODE	TOTAL POPULATION (100s)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
U.S. TOTAL	1438491	7321	. 5
5600	115719	1178	10
4480	70320	317	5
1600	69791	612	9
6160	48180	463	10
2160	42000	170	4
1120	33755	350 _.	10
7360	31 0 9 6	259	8
8840	28609	124	4
6 2 80	24013	122	5
7040	23629	97	- 4
0720	20705	52	3
1680	20640	195	9
, · 3360	19852	45	2
5640	18566	130	7
5120	18136	50	. 3
1920	15560	41	3
7600	14218	34	2
0360	14204	40	3
5080	14036	69	5
O520	13902	28	2
1640	13849	51	4
6040	13587	86	6
, 7320	13578	47	, 3
1280	13490	62	5
5000	12679	68	5
3760	12541	29	2
2080	12274	54	4
6780	11432	31	3



TOTAL PODIATRISTS BY SIZE OF SMSA

SMSA CODE	TOTAL POPULATION (100%)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
3460	11095	34	, 3
7400	10647	43	4
5560	10458	22	2
8280	10126	42	· 4
6440	10095	24	2
6200	967.6	34	4
1840 .	9161	49	5
6840	8827	38	4
7240 -	8640	4.5	2
· 2000	8502	40	5
. 4520	8266	29	4
3280	8167	59	7
6920	8005	` 22	3
:160	7928	75	9
4920	7702	16	2
6480	7685	58	8
3320	7684	6	1
2800	7620	22	3
5480	7449	57	8
1000	7391	7	1
0160	7221	29	4
8400	. 6925	35	5
5720	6808	12	2
0080	6794	34	5
5880	6408	18	3 `
9240	6379	39	6
8160	6366	22	3
2960 _	6333	18	3
2680	6202	28	, 5
3640	6094	44	7
3120	6039	16	3



Table 5 (cont. 3)

TOTAL PODIATRISTS BY SIZE OF SMSA

SMSA CODE	TOTAL POPULATION (100s)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
5460	5839 .	19	3
8000	5830	43	7
7160	5576	18	3
0240	5438	26	5
5360	5410	5	1
5920	5401	20	4
3000	5393	17	3
9320	5359	36	7
6760	5336	9	2
3600	5288	11	2
9160		20	4
2640	4964	13	3
8560	4768	17	4
4410	4594	23	5
2480	4444	21	5
5960	4280	12	3
2840	4130	8	2
8200	4110	9	2
3240	4106	24	6
/ 1520	4094	8	2
3840	4001	10	3
9040	3894	12	3
4040	3785	10	3
6000	3766	8	2
5160	3766	4	1
1320	3722	15	4
1960	3627	24	, 7
2320	3594	7	2
8520	3517	11	3
8960	3488	19	6
9120	3424	21	6
•			



Table 5 (cont. 4) TOTAL PODIATRISTS BY SIZE OF SMSA

SMSA CODE	TOTAL POPULATION (100s)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
6120	3421	20	6
8680	3405	8	2
1200	3333	29	9
928 G	3295	16	5
0680	3291	7	2
4400 ′	3231	8	3
1760	3228	1	0
4000	3196	13	4
0840	3160	-5	2
0200	3157	16	5
1560	3049	5	2
8480	3040	20	7
1440	3039	7	2
0960	3026	13 .	4
0380	3003	2	1
3160	2994	2	1
6680	2964	21 .	7
0640	2957	7	2
7680	2946	5	2
5680	2921	34	12
4720	2903	11	4
8120	2902	6	2
7840	2875	11	4
2120	2862	14	5
0760	2852	4	1
1880	2849	7	3
2760	2805	14	5
7800	2801	15	5
0460	2770	9	3
4120	2732	6	2
6880	2721	13	5



Table 5 (cont. 5)

TOTAL PODIATRISTS BY SIZE OF SMSA

SMSA CODE	TOTAL POPULATION (100s)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
2240	2654	6	2
7480	2643	. 13	5
2360	263.7	13	5
3680	2627	7	3
3560	2589	3	1
4440	2569	12	5
3400	2537 .	15	6
0600	2534	8 .	3
7120	2500	8	3
8720	2492	11	5
6080	2430	2	1
1800	2387	6	3
1720	2359	9	4
0440	2342	4	2
7560	2341	14	6
2440	2328	8	3
4900	2299	3	1
6640	2284	4	2
3440	2282	2	1
3980	2272	5	2
3200	2263	6	3
4760	2240	12	5
6460	2223	10	5
6960	2198	8	` 4
2400	2134	5	2 ,
2560	2121	3	1
4680	2063	4	2
7500	2048	14	7
3720	2016	6	3
5240	2013	1 ,	1
5170	1945	6	3



(31)

Table 5 (cont. 6)

TOTAL PODIATRISTS BY SIZE OF SMSA

SMSA CODE	TOTAL POPULATION (100s)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
6400	1924	9	5
2280	1904	3	2
7520	1878	3	2
7080	1867	6	3
9000	1824	10	6
4880	1816	1	1
6800	1813	3	2
4600	1793	7	4
8320	1750	3	2
0560	1750	19	11
4280	1744	7	4
7820	1737	1	1
4320	1713	8	, 5
6600	, 1708	6	4
2920	1698	1	1
2020	1695	4	. 3
4360	1680	6	4
8080	1656	` 10	6
1400	1632	6	4
1360	1632	11	7
7880	1613	21	13
2720	1603	3	2 .
3810	1597	2	1
3080	1583	6	4
5320	1574	5	3
7960	1572	12	8
8440	1553	5	3
7920	1529	4	3
6320	1495	1-1	8
2790	1484	1	1
8800	1476	5	4



32)

Table 5 (cont. 7)

TOTAL PODIATRISTS BY SIZE OF SMSA

SMSA CODE	TOTAL POPULATION (100s)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
		2	1
3960	1454		2
9260	1451	3	2
0480	1450	3	5
0320	1444	7	
6020	1439	6	4
3520	1433	3 ·	2
0780	1421	5	4
1240	1404	2	1
0400	1385	6	5
6520	1377	4	3
0280	1 354	7	5
0920	1345	1	1
8920	1329	10	8
4800	1300	4	3
5280	1293	3	3
9080	1277	6	5
5840	1262	5	4
2040	1251	6	5
7485	1237	5	4
4640	1232	2	2
8760	1214	6	5
6720	1210	12	10
7510	1203	8	7
2520	1202	2	2
6560	1183	5	5
0220	1181	1	1
3800	1179	7 .	6
2630	1175	1	1
0809	1174	5	5
7720	1161	6	5
8600	1160	3	3



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(33)

TOTAL PODIATRISTS BY SIZE OF SMSA

		•	
SMSA CODE	TOTAL POPULATION (100s)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
5200	1155	2	2
0040	1139	3	3
6140	1136	4 -	I _b
9140	1132	5	5
1080	1123	5	5
3880	1098	0	0
3920	1093	5	5
4200	1081	\$	2
9200	1073	5	2
2700	1053	4	4
2900	1047	2	2
1040	1045	5	5
8240	1030	2	2
2335	1016	7	7
8350	1013	1	1
8640	972	3	3
7760	952	6	7
2880	941	1	1
6470	933	2	ż
5800	918	2	2
2200	906	5	6 ,
0120	896	3	4
0880	874	3	4
7000	870	4	5
5240	853	1	1
6820	841	4	5
7640	833	2	3
3040	819	4	5
1740	810	2	3
3870	805	5	6
5990	793	3	4



34)

Table 5 (cont. 9)

TOTAL PODIATRISTS BY SIZE OF SMSA

SMSA CODE	TOTAL POPULATION (100s)	TOTAL PODIATRISTS (1968)	PODIATRISTS/100000 POPULATION
4080	730	0	0
7200	711	2	3
5040	655	6	10
1260	580	1	2



AHEC HEALTH AREA RANKING FOR SELECTED MEASUMES OF HEALTH HANPONER

SIATE NAMF: KENTUCKY

DE MOGRAPHIC MEASURES:

29 RANK 36 RANK # NONHHITE POPULATION. * POP GROWTH SINCE 60.. 36 RANK 21 RANK LAND AREA.... 20 KANK 27 KANK 20P./SQ.MILE.. 19 KANK 1 RANK POPULATION...

ECONOMIC MEASURES:

T INCOME GROWTH SINCE 60.. 39 RANK 11 RANK # HHDS WITH INCOME OF \$10,000. 43 RANK 7 RANK INCOME/CAPITA..

24 RANK

HANDUHER MEASURES:

39 RANK 41 RANK PHYSICIANS/100000 POP.. DENTISTS/1000000 POP...

42 RANK 42 RANK NURSES (RN)/100000 POP... NURSES (LPN)/100000 POP...

NURSES(RN)/100 HOSP. REDS ... TOTAL NURSES/100 HOSP. BEDS..

40 RANK 43 RANK

HEALTH ECHICATION MEASURES:

14 RANK 6 RANK MD ENROLLMENT/100000 PDP...
DDS ENROLLMENT/100000 POP...

TOTAL NURSING ENROLLMENT/100000 POP...
AUXIALIARY PROGRAMS/1000 MO.......
NO.AUXIALIARY PROGRAMS/100000 POP....

NO. RESIDENCIES OFFERED/100000 POP.

7 RANK

NO. INTERNSHIPS OFFERED/100000 POP..

36 RANK

27 RANK 20 RANK

<

HUSPITAL RESOURCE MEASURES:

x HOSP. UNDER 70% UTIL.....

x HOSP. UNDER 70% UTIL.....

x HOSP. OVER 80% UTIL.....

x HOSP. WITH 15 + SERVICES..

TOTAL NO. SERVICES/100000 POP.. AVERAGE NO. SERVICES/HOSPITAL.. 42 RANK 22 RANK 17 RANK 42 RANK

NO. OUTPATIENT VISITS ..

20 RANK

OUTPATIENT VISITS/100000 POP..

33 RANK 30 RANK

25 RANK

BIRTHS IN HOSPITAL .. 18 RANK

36 RANK

VITAL STATISTIC MEASURES

14 RANK HORTALITY/100000 POP.

INFANT MORTALITY/100 BIRTHS..

.40

APPENDIX A:



כטו -נטו		CHARACTER1ST ICS	SOURCE	YR DATA	DATE DN
			•		
7-3	TIDE CIAIR COF	1110 010	DERIVED FROM GSA	1968	
4-6	MOD FIPS COUNTY CODE	INDEPENDENT CITIES RECODED	FROM	1968	27,73
۲-۲	STATE ECGNOMIC APEA CCOF				4777
9-11	CONOMIC SURREGION CODE	-	PUSIEU, GICS		6/73
12-15.	FFOFRAL REGION CODE	,	a contract		}
16-2	GSA 1967 STATE COE		00H,1-2	1961	
21-23	SSA 1967 COUNTY COL	-	DDH,6-8	1961	
24-42	STATE NAME	_			
43-46	STATE NAME ABBREV		004,3-5		
1 -12	COUNTY NAME	•	00H, 9-33		12/7
71-77			00H, 49=5G	1905	. 1779
13-75	RANALLY MINUR AREA CUF		00H; 51 - 53	1969	6/71:
76-73	HAE ECONOMIC AREA COE		DUM: 46-48		8/73
76-62	SMSA CD+	-		2	:
表现者中间的有效的			771 8000 001000	1960	12/71
84-40	AREA	NO UF SQUARE MI AS OF 1960		1970	9/72
(b=1c	CIIY SIZE CDF	11 01 VC-2	5	2	:
· · · · · · · · · · · · · · · · · · ·	í		SHOW AND TOT OUR GOO	1970	16/71
34-10	CENSUS 17C PUP	IN HUNDREUS	7-22	1969	9/71
101-156	dod ws	HUNDKEUS.	DUG BU DENCILO DE DUD	1970	12/01
167-111	CENSUS 170 HEUSEHLOS	HUNDKEUS	10 505110	1049	0/71
	SM HOUSEHLOS	IN HUNDREUS, 12/31/69	07147480	6061	:
- 日本社会大学院会会			TH COUNT	1970	8/73
173-174	US 170 UKBAN POP			1070	10/21
129-133	170 MALE POP - AGE C	IN HUNDREDS	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1070	10/21
134-148	CP - AGE		101 004	1976	10/71
133-143	1/J MALE PUP - AGE 3		AD TOT ON	1970	10/71
871-571	10 10 10 10 10 10 10 10 10 10 10 10 10 1		ADD TOT IN	1970	16/71
	170 MALE POP - MOT	TO HINDREDS	ADD TOT IN	1970	10/11
150=162	173 WALE POP - AGE	_	, ADD TOT IN	1970	10/11
1-641	17 FEMALE POP - AGE	_	ADD TOT IN	1970	10/11
164-173	MALE POP - AGE		TOT IN	1970	10/11
174-178	170 FEMALE FCP - AGE	_	ADD TOT IN	1 197C	10/11
179-183	170		ADD TOT IN	19.70	10/71
184-188	173 FEMALF POP - AGE	IN HUNDREDS	ADD TOT IN	1970	10/11
189-103	.70 MALE PGP - AGE		ADD TOT IN	1976	10/11
194-148	17C FEMALE POP - AGE	_	ADD TOT IN	1970	10/01
199-203	170 HALE POP - AGE	_	ADD TOT IN RANGE	1976	17/01
1 8.c->.2	.70 FFWALF POP -	_	, ADD TOT IN RANGE	1970	10//1
1 612-636		_	CENSUS COR	2/61	9//3
714-718	Pr.PULATICN ESTIMA	IN HUNDREDS	U.S. CENSUS, CUR PUP KEP	1341	21.13

¢.



10,-103	I NAME	CHARACTERISTICS	SCURCE	YR DATA	DATE ON
	dud alleg 32.	NH NG WAR	PCP,174-178	1670	16/71
1 555555	173 41 ACK	IN HUNDREDS	PGP,179-183	197C	10/11
235-238	170 UTHER		POP,184-158	1970	10/71
39-245	(;	_	DMI, 72-78	1940	11/71
744-742			DMI ,6-12	1950	11/11
255-259	CENSUS 160 FOP		DMI,51-57	1960	11/71
765-263	LANGE ANIMAL POP	IN THEUSANDS	AGR1,25-6C	5961	11/72
í		1	TWOOD ATA	1970	2/13
286-286	TOTAL TANDER SACO	٠ ب		1970	8/73
4004000	3-10-1	+ INRELATED 1		1976	8/73
746-377	INC. ONE	UNRELATED 1		1970	8/73
365-439	INCOME - \$800C-9	+ LNRELATED		197C	8/73
1 418-118	PERS INCOME = \$100CC +	+	4TH COUNT	1970	8/73
********	_			-	
331-337	CENSUS 159 INCOME		POSTED CCD8 '67	1960	12/71
33 4-344		USA	MI,13-2C	1950	11/11
	ACTIVE NON-FED 0.0.'S	TUTAL FCR '71	OSTE0.47,30 £ 79	1574	6/13
* * * * * * * * *	-			!	
354-356	1969 M.D. 18		PCSTED, AMA-DIST '69	1969	8/71
363-365	1471 M.D. 15	ACTIVE, NON-FEDERAL	AMA-DIST '7	1974	5/73
345-371	S-0-W 0961	ACTIVE, NON-FEDERAL	DMI ,67-71	1960	11/71
377-377	1945 1940	ACTIVE NON-FEDERAL	DMI +30-34	1950	11//1
	-		71 0 11 41 040	9701	1,771
304-304	GEN FRACE 3:0:'0	ACTIVE, NON-FEDERAL, '04	DOCTED AMA-DIST 170	1920	2/12
264-206	OAT THRITTO YOUNTED	INDER 64 VEAROR OF D	12/07	2.00	2//3
400-433			OSTEC: 19 & 40/41	1971	6/73
404-437		OR - 71)	1971	6/73
*****		•			
470-473	TOTAL DENTISTS	FOR .68	DDH, 72-75	1968	6/71
474-477	LICENSED DENTISTS	'71, EXCEPTIND '69, PA '68	DENTAL REGISTER	1971	16/72
	# JFFICE-PATIENT CARE UPTJM	ACTIVE, FOR 168 .	OPTOM TAPE,34 E 45-47	1968	11/72
558-563	1972 OPTOMETRISTS	ACT, NON-FED, W/EXCEPTION	POSTED, ST & CTY DIST OPTM	1972	12/72
496-591	ACT PHARMACISTS	ACTIVE, FDR '66		9961	5,71
502-507	TCTAL PODIATRISTS	TOTAL, FCR 168		1968	9/71
508-513	TOTAL VETERINARIANS	- 40 i	NCHS MAN 58-63	1967	9/71
514-519	ACTIVE REG NURSES			1566	9/71
526-527	THE TIC PRACE NORMEN	ACTIVE: FUK '0/	7 ~	1970	12/72
		HOSP	HOSP FILE, 19-20 & 77	1970	12/72
がいない					
534-535	I # INTERN PROG	APPRGVED DNLY	POSTED, DAIR	1971-72	5/71

	NAME	CHARACTERISTICS	SOURCE	YR DATA	DATE DN
		TOTAL	POSTED, DAIR	1971-72	17/6
538-539	# FAMILY MED PROGRAMS		POSTED, DAIR	1 197,1-72	9/71
540-541	# TOTERNAL MED PROGRAMS	_		197/1-72	9/71
542-543	PEDIATRICS PROGRAMS	_		1 197/1-72	9/11
544-545	# DB-GYN PROGRAMS			1971-72	9/71
546-550	INTERNSHIPS OFFERED	AGJUST FOR SHARED		1 197/1-72	12/6
551-555	RESIDENCIES OFFERED		POSTED, DAIR	197/1-72	9/71
****	_		,	1040	11/72
493-495	OPTOMETRISTS	ACTIVE, FOR '68	UPIUM IAPErsa s 45-47	0067 1	71/17
566-572	# GEN HOSPITAL BEDS	· -	HDSP FILE, 19-20 & 78-83	1970	12/72
573-570	A COPY HONDITAL BEDS		ယ	1970	12/72
587-581	FN HDSP . DCI -099		CCUNT HOSP FILE	1970	12/72
582-583	GEN HOSP, 100-199 BEDS	_	COSMI HOSP FILE	0761	12/72
584-585	200-299		HOSP	0261	12/12
586-587	HOSP.		HOSP	276	7//71
588-589	HDSP.	_	CCUNT HOSP RILE	0761	77/77
***				0.01	673
665-565	FULL TIME/M.D.'S	HOSP	HUSP FILE 118-125	1070	17.79
600-604	•	HOSE		1970	12/72
609-509	TERNS & RES (M.O.	HOSE		1970	12/72
610-614	TIME/OTHER TRAINEE	GEN HOSP ERFLOTAEN	FILE 136-14	1970	12/72
615-619		200		1970	12/72
620-624				1970	6/71
652-629		ב ה ה ה ה	1000 FILE 100	1970	6/71
630-634	TIME/D.D.S.	HOSE	G11E-126-12	1 270	12/72
635-639		SOH :	1 000 F1 C 120-129	0201	12/72
940-044	TIME/DIHER TRAIN	HOS S	C1-0C1*3713	1976	12/72
642-649		HOSE		0201	12/72
650-654		NON-GEN HOSP EMPLOTMEN	HOSP FILE 1142 - 147	1970	12/72
055-662	GEN HOSP DUTPAT VISITS		FILE 94-102	1670	12/72
663-670		(EMERGENCY)	HUNE FILE 10-103	1070	12/72
671-678	I SPEC HOSP DUTPAT VISITS	(NON-GENERAL)	FILE 119-20 G	21.5	7./71
***			71401	1047-48	12/6
684-685	I M.D. SCHDOLS		COUNTRAIN FILE	1907-00	6/71
. 686-687	D.D.S. SCHOOLS		2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1070-71	9/71
689-889	R.N. SCHOOLS		10 4 0 1	1976-71	6/71
169-069	L. P.N. SCHOOLS			1967-68	9/71
869-269	DPTDMETRY SCHOOLS		10 A 1 A	1968	17.
694-695	PHARMACY SCHOOLS		TRAIN	1967-68	72.6
269-969	POOLATRY SCHOOLS		TRAI	1968-70	9/71
669-869	I VEIEKINAKY SCHUULS				



ا ن		(k)	i	I scurce	I YR DATA	OATE ON
1			***************************************		7 1 1 1 1 1 1 1	
7	700-102	I MED AUXILIARY SCHÖCLS	_		_	1 9/71
7	703-774	1 DENTAL AUXILIARY SCHOOLS		TRAIN	197C-71	9/71
~ #	705-706 ** ******	0.0. SCHOOLS 		I COUNT TRAIN FILE	1967-68	17.76
7	713-716	1 9.0. ENROLLMI		COUNT TRAIN FILE	1907-08	12/6
7	717-720	M.D. FNROLLMI	_	TRAIN	1967-68	12/5
_	721-724	I D.D.S. FNROLLMI			1 197C-71	9/71
7	725-728	I R.N. ENROLLMI	_	TRAIN	1970-71	12/5
7	729-732	I L.P.A. ENRULLMT		TRAIN	1970-71	17/6
7	733-735	I OPTOMETRY ENROPIMI		I COUNT TRAIN FILE	1 1967-68	1 5/71
7	736-738	I PHARMACY ENROLLMI	_	TRAIN	1968	1 5/71
7	739-740	I PODIATRY ENRCLLMT	_	I COUNT TRAIN FILE	1967-68	1 5/71
7	741-744	I VETERINARY ENROLLMI	_	TRAIN	1 1568-70	1 9/71
7	745-748	I DENTAL AUX ENROLLMT	_	TRAIN	1 197C-71	1 5/71
7	749-752	I MED AUX PROG CAPACITY DATA	_	I COUNT TRAIN FILE	_	1 9/71
#	****		_		_	_
7	756-758	90	_	TRAIN	1968	17/6
7	159-161	OF M.D. SCHOCLS	_	TRAIN	1 1968	1 9/71
7	162-164	â			1571	1 5/71
~	165-767	č	. \	TRAIN	1970	12/6
7	168-770	Ü		TRAIN	1970	9/71
~ }	771-773		~		1968	9/71
_	174-776	0		TRAIN	1968	5/71
7	277-77	CF PODIATRY S		TRAIN	1968	9/71
7	780-782	S.		TRAIN FIL	1969	9/71
۱ م	783-785	OF DENTAL AUX		TRAIN FILE	1971	9/71
~ *	786-791 *******	AUPC RECIPIENTS		PUSIEU, NCSS REPURI A-8	0/61	1.76
_		I # UNIVERSITIES		COUNT CE TAPE	1970	17/7
ã	800-801			Ö	1970	7/71
αō	802-803	I #JR COLLEGES	_	I COUNT OF TAPE	1970	17/7
æ	804-808	I TOTAL MORTALITY	1 BY PLACE OF RESIDENCE	MGR1	1968	8/71
αÓ	809-813	I INFANT MORTALITY	I UNDER 1 YR CLD	. I NCHS MORT, 30-35	1968	1 8/71
8	814-818	I INFEC & PARAS MORTALITY	1 FOR CAUSES #C01-138		1968	8/71
80	819-826	I DUTPAT VIS TO GEN HOSP			1969	6/71
αö	827-831	1 BIRTHS IN HOSPITAL	_	I NCHS NATALITY 23-28	1968	17/7
80	832-836	I TOTAL BIRTHS	_		1568	17/71
æο	837-842	I ADPC RECIPIENTS		PCSTED, NCSS REPORT A-8	1 1972	4/73
œ	843-849	I INPAT DAYS IN CEN HOSP			1970	12/72
80	850-856	۵	I TOTAL, FOR '69	ī	1969	12/72
80	57-858	I # HOSP WITH INTENSIVE CARE	_	I HOSP FILE,155	1 1970-71	12/72





CD1 - CO1		CHARACTER I ST I CS	I SOURCE	I YR DATA I	DATE ON
					72/21
		•	1 HOSD ETTE-156	1 1970-71	
859-860	HOSP WITH INTENSIVE C		HOSP FILE-157	1 1670-71	12/72
861-862	HOSP WITH OPEN HEAK		1 1 1 1 1	1576-71	12/72
863-864	WITH POST-CP REC		HOSP FILE 169	1 1670-71	12/72
865-856	HOSP WITH PRE-MAIUK		FILE.	1 12-0751	12/72
867-868	JOSP WITH X-KAY INE			1 13-02-1	12/72
869-870	HOSP WITH COBACI TH		FILE.	197C-71	12/72
871-872	HOSP WITH RADIUM THE	•		1970-71	12/72
873-874	HOSP WITH RADIOISU INEKA		u.	1 197C-71	12/72
875-876	HOSP WITH HISTOR			1 1970-71	12/72
877-878	WITH ORGAN	•	FILE	1 1970-71	12/72
819-880	HOSP WITH BLUDG BAN			1570-71	12/72
881-882	HOSP WITH ELECTRO-E		F 1.E	1970-71	12/72
883-884	HOSP WITH		9114	1 1970-71	12/72
882-886	HUSP WITH UCCUPAL IN		u	197C-71	12/72
887-888	HOSP WITH INHALALION		FILE	1 1970-71	12/72
889-890	HOSP WITH FULL-LINE		F I Lie	1 12-0251	12/72
891-892	HUSP WITH PAKI-11ME		F 11.F	1 1969-70	12/72
893-894	HOSP WITH DENIAL SE		F11 F. 17	1 1970-71	12/72
895-896	HOSP WITH DIALYSIS-		. u	1570-71	12/72
864-168	HOSP WITH DIALYSIS-		. u	1 1970-71	12/72
839-900	HOSP WITH SELF CARE UNIT		ה ביני ה ביני	1 1670-71	12/72
901-905	HOSP W/PSYCH FOSTER			1976-71	12/72
903-904	HOSP WITH PSYCH INP		- u	1970-71	-
906-506	HOSP WITH PSYCH DUT		FILE . 18	1 1570-71	12/72
904-408	HOSP WITH PSYCH PAR			1 1970-71	12/72
909-91C	HOSP WITH PSYCH EME			1 1970-71	12/72
911-912	WITH SCCIAL WC			1970-71	12/72
913-914	HOSP WITH FAMILY PL		F11.6.1	1670-71	12/72
915-916	HOSP WITH EXIENDED			1 1970-71	12/72
917-918	HOSP WITH			1 1970-71	12/72
919-920	HOSP WITH KEHABIL U			197C-71	12/72
921-922				1 1970-71	12/72
923-924	HOSP WITH HOSPITAL			1 1970-71	12/72
925-926	OLC SCREANIZED	I AD 1 TO HADID SHARED PROG	D. DAI	1 1971-72	11/6
927-931	GEN MED KENIDENCIES	TO UNDIE SHARFO	DAI	1 1971-72	9/71
932-936	INIEKNAL MED KESIDENCIES	TO THE CHAPEO		1 1971-72	9/71
-94	PEDIAIRIC RESIDENCIES	TO DINDIES SHARED		1 1971-72	9/41
45-94	I UB & GYN KESIDENCIES	10000		1 1969	2/12
6-14	INCING COCKLION	I BEARY, BUT FOR THE STAFF	I ENDICOTT MEMO, 3/18/71	1 161	11/71
166-066	ו עבו הטאר מז יינטיי כאו ז				

יכר-כאר	NAME	CHARACTERISTICS	I source	I YR DATA	YR DATA DATE CN
	VET HGSP 8Y "GO" CAT 11	MOD CHGE IN FAC. STAFF	ENGICETT MEMU-3/18/71	1 1971	17/11
	I VET HOSP BY "60" CAT 111		I ENEICOTT MEMO.3/18/71	-1161	11/71
	I VET HUSP BY "GG" CAT IV		ENDICOTT MEMU, 3/18/71	1571	11/71
655-856	I VET HOSP BY "GO" CAT V		I ENDICOTT MEMU, 3/18/71	1571	11/71
	OIST GEN HOSP BY UD - 69% UTIL		I CCUNT HOSP FILE	1970	12/72
	1 DIST GEN HOSP BY 70 - 79% UTIL		I CCUNT HCSP FILE	1 1970	1 12/72
	1 01ST GEN HOSP BY 8C - 89% UTIL		I COUNT HESP FILE	1970	12/72
	I DIST GEN HOSP BY 9C+2 UTIL		I CCUNT HOSP FILE	1970	1 12/72
	1 DIST GEN HOSP RY OC - 04 SER		I CCUNT HCSP FILE	1970	12/72
	DIST GEN HOSP BY 05 - 14 SER		I CCUNT HCSP FILE	1970	12/72
	I DIST GEN HOSP BY 15 - 24 SER		I CCUNT HCSP FILE	1970	1 12/72
	I DIST GEN HOSP BY 25+ SERVICES		CCUNT HOSP FILE	1970	12/72
	I TOT HUSP EXPENDITURES	I FOR ALL HOSPITALS	I CCUNT HOSP FILE	1976	6/71
	I GEN HOSP/MAJOR EMERG SER		I HOSP TAPE, 301	1970	1 12/72
	I SEN HOSP (BASIC EMERG SER		I HCSP TAPE,302	1970	12/72
	I GEN HOSP/MINOR EMFRG SER		I HOSP TAPE, 3C3	1 1970	12/72
988-989	GEN HOSP/REFERRAL FMERG SER		1 HOSP TAPE, 304	1 197C	12/72
			_	_	_

CCLUMNS
BLANK
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SOURCES:

OGIGZ ZUA ≻⊃⊢≟	1969 CENSUS OF AGRICULTURE TAPE. CITY & COUNTY DATA BOOK. DIRECTORY OF APPROVED INTERSHIPS & RESIDENCIES, 1971-72. DIV OF OENTAL HEALTH TAPE. DIV OF OENTAL HEALTH TAPE. DIV OF OENTAL SARDS. GEOGRAPHIC IDENTIFICATION CODE SCHEME, U.S. DEPT. OF COMMERCE. SALES MANAGEMENT TAPE. 1971 AMERICAN OSTEOPATHIC ASSOC. TAPE. 1970 CENSUS OF POPULATION U.S. DEPT. COMMERCE, NUMBER OF INHABITANIS (6Y STATES). 1970 CENSUS FOURTH-COUNT POPULATION SUPMARY TAPE. STATE AND COUNTY DISTRIBUTION OF ACTIVE, NON-FEDERAL	иния пини инправ	AGRI CCOB CCOB CITY & CUUNTY DAIR CONTY CO
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1 1 1 1 1	999		5/73
_!	ч 1	1 15	5
	I RECORD LENGTH	BLOCKS12E	1 DATE: 9/73

APPENDIX B:

USER DOCUMENTATION

FOR THE

DMI AREA RESGURCE FILE (ARF)

AS OF JULY, 1973



ARF USER COCUMENTATION

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41)

1. CODES AND CLASSIFICATIONS

1-A) STATE AND COUNTY CODES:

FIPS STATE CODE:

THIS CODE WAS ESTABLISHED BY NATIONAL BUREAU OF STANDARDS, U.S. DERARTMENT OF COMMERCE IN 1968. IT IS STANDARD THROUGHOUT THE FEDERAL GOVERNMENT AND PUBLISHED IN "FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATION JUNE 15, 1970". THE BASIC STRUCTURE IS A SEQUENTIAL ASCENDING TWO DIGIT NUMBER, WITH SPACES FOR ALL POSSIBLE NEW STATES.

GSA 1967 STATE CODES:

THIS CODE PRECEDED FIPS. LIKE FIPS, THE BASIC STRUCTURE OF STATE CODES IS A SEQUENTIAL ASCENDING TWC-DICIT NUMBER; HJWEVER, NO SPACES ARE INCLUDED FOR ADDITIONS. ALASKA AND HAWAII ARE LISTED AS STATES 50 AND 51 RATHER THAN IN ALPHABETICAL GRDER. THE GSA - 1967 CODES ARE ON THE FILE FOR INDEXING ONLY.

MODIFIED FIPS COUNTY CODES:

THE FIPS CDUNTY CODES WERE ESTABLISHED BY NATIONAL BUREAU OF STANDARDS, U.S. DEPARTMENT OF COMMERCE IN 1968. IT IS STANDARD THROUGHGUT THE FEDERAL GOVERNMENT AND PUBLISHED IN "FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATION JUNE 15, 1970". THE BASIC STRUCTURE IS SEQUENTIAL, ASCENDING, THREE-DIGIT ODD NUMBERS.

THE COUNTY CODES USED IN THE AREA RESOURCE FILE ARE THOSE PUBLISHED IN FIPS FXCEPT THAT CERTAIN INDEPENDENT CITIES HAVE BEEN RECODED. NO COUNTY SCOES HAVE BEEN ENTERED FOR ALASKA AND HAWAII SINCE IT IS EXPECTED THAT IN ANALYSIS THEY WILL ALWAYS BE HANDLED IN THEIR ENTIRETY.

INDEPENDENT CITIES OF VIRGINIA WERE INCLUDED IN THEIR ORIGINAL COUNTIES BECAUSE MUCH OF THE DATA IN THE FILE WAS ONLY AVAILABLE FOR COUNTIES AND COULD NOT BE SEPARATED INTO COUNTY AND INDEPENDENT CITY SEGMENTS. THEREFORE, CITIES HAVE BEEN RECODED INTO COUNTIES IN ALL CASES FOR CONSISTENCY OF DATA. THE RECODINGS MADE BY DMI ARE AS FOLLOWS:

		DMI MCDIFIED	
		FIPS	FIPS
BALTIMORE ST. LOUIS CITY CARSON CITY (ORMSBY COUNTY)	MARYLAND MISSOURI NEVADA	007 191 025	510 510 510



(48)

ALLOCATION OF VIRGINIA INDEPENDENT CITIES TO COUNTIES

		DMI	
	ORIGINAL	MODIFIED	
CITY	COUNTIES	FIPS	FIPS
ALEXANDRIA	ARLINGTON	ó13	510
BRISTOL	WASHINGTON	191	520
BUENA VISTA	RGCKBRIDGE	163	53C
CHARLOTTESVILLE	ABLEMARLE	003	540
	NORFCLK	129*	550
CHESAPEAKE	NORFCER		
CLIFTON FORGE	ALLEGHANY	005	560
COLONIAL HEIGHTS	CHESTERFIELD	041	57C
COVINGTON	ALLEGHANY	005	580
DANVILLE	PITTSYLVANIA	143	590
EMPORI A	GREENSVILLE	081	595
CHECKIA			
FAIRFAX	FAIRFAX	059	600
FALLS CHURCH	FAIRFAX	059	61C
FRANKLIN	SOUTHAMPTON	175	620
FREDERICKSBURG	SPOTSYLVANIA	177	630
GALAX	GRAYSON	077	640
		05544	450
HAMPTON	ELIZABETH CITY	055**	65C
HARRISONBURG	ROCKINGHAM	165	660
HOPEWELL	PRINCE GEORGE	149	670
LEXINGTON	ROCKBRIDGE	163	678
LYNCHBURG	CAMPBELL	031	680
	HENRY	089	690
MARTINSVILLE		055**	70C
NEWPORT NEWS	ELIZABETH CITY NORFOLK	129*	71C
NORFOLK		195	720
NORTON	WISE	053	736
PETERSBURG	DINMIDDIE	093	150
DOCTOROUTU	NORFCLK	129*	740
PORTSMOUTH	MONTGOMERY	121	7.50
RADFORD	HENRICO	087	760
RICHMOND	RCANGKE	161	77C
ROANOKE	ROANGKE	161	775
SALEM	ROANGRE	101	
SOUTH BOSTON	HALIFAX	C83	780
STAUNTON	AUGUSTA	015	790
SUFFOLK	NANSEMOND	123	80C
VIRGINIA BEACH	NORFOLK	129*	810
WAYNESBORO	AUGUSTA	C15	820
MATINE SOUND			
WILLIAMSBURG	JAMES CITY	095	830
WINCHESTER	FREDERICK	069	840
ATHORE STEN			

*FIPS DOES NOT HAVE A CODE FOR NORFOLK SINCE IT IS NO LONGER A COUNTY. DMI HAS DESIGNATED A NORFOLK COUNTY TO INCLUDE THE INDEPENDENT CITIES WHICH NOW INCLUDE ALL OF THE PREVIOUS NORFOLK COUNTY.

**FIPS DOES NOT HAVE A COCE FOR ELIZABETH CITY SINCE IT IS NO LONGER A COUNTY.

DMI HAS DESIGNATED AN ELIZABETH CITY COUNTY TO INCLUDE THE INDEPENDENT CITIES WHICH
NOW INCLUDE ALL OF THE PREVIOUS ELIZABETH CITY COUNTY.





1-B) CITY SIZE CODE:

THIS IS AN ARBITRARY ASSIGNED CODE AND IT HAS THE FOLLOWING STRUCTURE:

EACH STANDARD METROPOLITAN STATISTICAL AREA MUST INCLUDE ONE CITY WITH 50,000 OR MORE INHABITANTS OR IWO ADJACENT CITIES WITH A COMBINED POPULATION OF 50,000 OR MORE. THE CENTRAL CITY MUST IDENTIFY WITH THE COUNTY IN WHICH IT IS LOCATED AS THE CENTRAL COUNTY.

	CENTRAL CITY SIZE (DECENNIAL)	CITY-SIZE CODE
SMSA	1+ MILLION	11
SMSA	506K - 999K	21
SMSA	250K - 499K	31
SMSA	100K - 249K	41
SMSA	UNDER 100K	51
	NON-METROPOLITAN AREAS (1970 CENSUS)	CITY-SIZE CODE
NONMET	50K+	02
NONMET	25K - 49.999	03
NONMET	10K - 24.999	04
NONMET	5K - 9.999	05
SASA	UNDER 4.999	06

THIS CODE WAS ESTABLISHED BY NATIONAL BUREAU OF STANDARDS, U.S. DEPARTMENT OF COMMERCE FIRST ISSUED IN 1949 AS STANDARD METROPOLITAN AREAS. THE SMSA CCDES WERE POSTED FROM "TITLES AND DEFINITIONS OF STANDARD METROPOLITAN STATISTICAL AREAS AS OF APRIL 27, 1973", PREPARED BY THE GEOGRAPHY DIVISION, BUREAU OF THE CENSUS, SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION, U.S. DEPARTMENT OF COMMERCE, MAY 1, 1973 -- WITH THE EXCEPTION OF THE SMSA CODES FOR THE NEW ENGLAND STATES AND TWO COUNTIES IN VIRGINIA. IN NEW ENGLAND, SMSA'S ARE DEFINED WITH THE TOWN INSTEAD OF THE COUNTY AS THE PRIMARY UNIT. IN ORDER TO USE COUNTY FIGURES FOR NEW ENGLAND IN THE SAME MANNER AS OTHER PARTS OF THE COUNTRY WITH RESPECT TO SMSA'S, WE HAVE USED THE NEW ENGLAND METROPOLITAN STATE ECGNOMIC AREAS INSTEAD OF SMSA'S. DEFINITIONS OF AND CODES FOR THESE AREAS FOLLOW:

0002 -	MAINE
	ANDROSCOGGIN COUNTY
C004 -	NEW LONDON, GROTON, NORWICH CONNECTIOUT
	NEW LONCON COUNTY



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1120 -	BOSTON, LAWRENCE, HAVERHILL, LCWELL MASSACHUSETTS
	ESSEX COUNTY MIDDLESEX COUNTY NOREGLE COUNTY SUFFCLE COUNTY
1160 -	BRIDGEPORT, STAMFORD, NORWALK, DANBURY CONNECTICUT
	FAIRFIELD COUNTY
1200 -	BRECKTON MASSACHUSETTS
	PLYMOUTH CCUNTY
2480 -	FALL KIVER, NEW BEDFORD MASSACHUSETTS
	BRISTCL CCUNTY
3280 -	HARTFORD, NEW BRITAIN, BRISTOL CONNECTICUT
	HARTFORD COUNTY
4760 -	MANCHESTER NEW HAMPSHIRE
	HILLSBORDUGH COUNTY
5480 -	NEW HAVEN, WATERBURY, MERIDEN CONNECTICUT
	NEW HAVEN COUNTY
6320 -	PITTSFIELD MASSACHUSETTS
	BERKSHIRE COUNTY
6400 -	PORTLAND MAINE
	CUMBERLAND COUNTY



6480 - PROVIDENCE, PAWTUCKET, WARWICK RHODE ISLAND

> BRISTOL COUNTY KENT COUNTY PROVIDENCE CCUNTY

8700 - SPRINGFIELD, CHICOPEE, HOLYOKE MASSACHUSETTS

HAMPSHIRE COUNTY HAMPTDEN COUNTY

9240 - WORCESTER, FITCHBURG, LEOMINSTER MASSACHUSETTS

WORCESTER COUNTY

VIRGINIA SMSA'S ARE:

6140 - PETERSBURG, HOPEWELL VIRGINIA

DINWIDDIE COUNTY HOPEWELL CITY PETERSBURT CITY PRINCE GEORGES COUNTY

6760 - RICHMOND VIRGINIA

> CHESTERFIELD COUNTY HANDVER COUNTY HENRICO COUNTY RICHMOND CITY

1-C) ECONOMIC AREA CODES

RANALLY MAJOR AREA CODE

DMI ASSIGNED CODE NUMBERS TO THE FIFTY MAJOR TRADING AREAS BY AN ALPHABETICAL LISTING IN THE "TRADING AREA MANJAL. A SUPPLEMENTAL TO THE RANALLY TRADING AREA MAP OF THE UNITED STATES". COPYRIGHT 1963 BY RAND MCNALLY & COMPANY.

RANALLY MINOR AREA CODE

THIS CODE WAS ESTABLISHED FROM A TRADING AREA MAP BY RAND MCNALLY & COMPANY. THERE ARE 494 BASIC TRADING AREAS. THESE ARE INDICATED BY NUMBERS KEYED TO THE ALPHABETICAL LIST AT THE BCTTOM OF THE MAP.



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OBE ECONOMIC AREA CODE

THIS CODE IS DELINEATED BY THE REGIONAL ECONOMICS DIVISION, OFFICE OF BUSINESS ECONOMICS, U.S. DEPARTMENT OF COMMERCE, REVISED JANUARY 1969. THE AREAS ARE NAMED FOR THE LARGEST SMSA GR, WHERE THERE IS NO SMSA, FOR THE LARGEST CITY. THIS ECONOMIC AREA MAP CONTAINS 173 AREAS THAT ARE INDICATED BY NUMBERS KEYED TO THE ALPHABETICAL LIST AT THE SIDES AND AT THE BOTTOM OF THIS MAP. IN CONTRAST TO OTHER ECONOMIC AREAS, THESE AREAS ARE PREDOMINANTLY BASED ON COMMUTING PATTERNS DERIVED FROM THE 1960 CENSUS PLACE-OF-WORK DATA (SEE "CENSUS WORKING PAPER #28" FOR FURTHER INFORMATION).

1-D) FEDERAL REGION CODES

THESE ARE THE CODES FOR THE 10 FEDERAL REGIONAL OFFICES. THE REGIONAL OFFICE AND STATES WITHIN EACH REGION ARE AS FOLLOWS:

- O1 = BOSTON' R.O. (MAINE, VERMONT, MASS., CONN., R.I., N.H.)
- 02 = NEW YORK R.O. (N.Y., N.J., PUERTO RICO, VIRGIN ISLANDS)
- 03 = PHILADELPHIA R.C. (PENN., DEL., D.C., MARYLAND, VA., W. VA.)
- 04 = ATLANTA R.O. (ALA., FLA., GEORGIA, KY., MISS., N.C., S.C., TENN.)
- 05 = CHICAGO R.O. (II.L., INDIANA, MINN., MICHIGAN, OHIO, WISCONSIN)
- 06 = DALLAS R.O. (ARKANSAS, N.M., OKLAHOMA, TEXAS, LOUISIANA)
- O7 = KANSAS CITY R.O. (IGWA, KANSAS, MISSOURI, NEBRASKA)
- O8 = DENVER R.O. (COLO., MONTANA, N.D., S.D., UTAH, WYOMING)
- 09 = SAN FRANCISCO R.O. (ARIZ., CALIF., HAWAII, NEV., TRUST TERRITORIES)
- 10 = SEATTLE R.O. (ALASKA, IDAHO, OREGON, WASHINGTON)

2. LAND AREA

LAND AREA IN SQUARE MILES COMES FROM "CCUNTY AND CITY DATA BOOK 1967", A STATISTICAL ABSTRACT SUPPLEMENT PUBLISHED BY BUREAU OF THE CENSUS, U.S. DEPARTMENT OF COMMERCE.

3. POPULATION ESTIMATES

CENSUS POPULATION COUNTS ARE PUBLISHED IN: "SIXTEENTH CENSUS OF THE U.S. 1940, POPULATION VOLUME I, NUMBER OF INHABITANTS"; "195C CENSUS OF POPULATION, VCLUME I, NUMBER OF INHABITANTS"; "CENSUS OF POPULATION 1960, THE EIGHTEENTH DECENNIAL CENSUS OF THE UNITED STATES"; AND "197O CENSUS OF POPULATION, U.S. DEPARTMENT OF COMMERCE PUBLICATION, NUMBER OF INHABITANTS (BY STATES)". THE SEX AND AGE DATA DO NOT NECESSARILY ADC TO TOTAL DUE TO EXCLUSION OF PERSONS OF UNKNOWN AGE. THE NUMBER OF HOUSEHOLDS ALSO COMES FROM THE 197O CENSUS.

URBAN POPULATION IS FROM THE 1970 CENSUS FOURTH-COUNT POPULATION SUMMARY TAPE.

TOTAL POPULATION AND NUMBER OF HOUSEHOLDS DATA PUBLISHED IN SALES MANAGEMENT'S ANNUAL "SURVEY OF BUYING POWER" FOR 1970 ARE KEPT ON THE FILE BUT ARE NOT USED IN TABULATIONS:



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4. LARGE ANIMAL POPULATION

LARGE ANIMAL POPULATION DATA ON THE NUMBER OF HOGS, CATTLE AND SHEEP ARE FROM THE 1969, CENSUS OF AGRICULTURE. THIS DATA IS PUBLISHED BY THE U.S. BUREAU OF THE CENSUS.

5. INCOME ESTIMATES

5-A) PERSONAL INCOME

PERSONAL INCOME DATA ARE A TOTAL OF AGGREGATE INCOME OF FAMILIES PLUS AGGREGATE INCOME OF UNRELAILD INDIVIDUALS 14 YEARS OLD AND OVER. THIS DATA WAS TALLIED FROM THE 1970 CENSUS FOURTH-COUNT POPULATION SUMMARY TAPE.

**NOTE: TOTALS DO NOT INCLUDE INCOME FOR INMATES OF INSTITUTIONS.

5-8) HOUSEHOLD INCOME LEVELS

DISTRIBUTION OF HOUSEHOLDS DATA, BY INCOME, ARE ALSO A TOTAL OF AGGREGATE INCOME OF FAMILIES, PLUS AGGREGATE INCOME OF UNRELATED INDIVIDUALS 14 YEARS OLD AND OVER. THIS DATA WAS ALSO TALLIED FROM THE 1970 CENSUS FOURTH-COUNT POPULATION SUMMARY TAPE.

**NOTE: TOTALS DO NOT INCLUDE INCOME FCR INMATES OF INSTITUTIONS.

, 5-C) AID TO DEPENDENT CHILDREN RECIPIENTS :

AID TO DEPENDENT CHILDREN DATA IS PUBLISHED IN NCSS REPORT A-8 (2/70) & (2/72), "RECIPIENTS OF PUBLIC ASSISTANCE MONEY PAYMENTS AND AMOUNTS OF SUCH PAYMENTS, BY PROGRAM. STATE AND COUNTY".

**NOTE: ADPC AMOUNTS FOR NEW YORK CITY WHICH IS COMPRISED OF THE BRONX, KINGS, JUEENS, NEW YORK AND RICHMOND COUNTIES, HAVE BEEN TOTALED INTO NEW YORK COUNTY. A BREAKDOWN OF AMOUNTS FOR EACH OF THE ABOVE COUNTIES IS NOT AVAILABLE.

6. HEALTH MANPOWER TRAINING DATA

HEALTH MANPOWER TRAINING CONSISTS OF THREE KINDS OF DATA: HEALTH OCCUPATION SCHOOLS BY PROGRAM TYPE, TOTAL ENROLLMENT, AND GRADUATES. THE DATA IS KEPT BY INDIVIDUAL PROGRAMS AND UNLESS STATED CTHERWISE IS AVAILABLE FOR THE THREE CATEGORIES, AND IS PUBLISHED IN "HEALTH RESOURCES STATISTICS, NCHS" WITH FEW EXCEPTIONS SPECIFICALLY SOURCED.



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6-A) INTERNS AND RESIDENCIES (M.O.):

INTERNSHIPS AND RESIDENCIES OFFERED ARE FOUND IN "DIRECTORY OF APPROVED INTERNSHIPS AND RESIDENCIES 1971 - 72". THESE INCLUDE ONLY PROGRAMS ACCREDITED BY THE AMA AND DATA ARE FOR POSITIONS OFFERED. FILLED POSITIONS ARE SUBSTANTIALLY FEWER, BUT INDIVIDUAL HOSPITAL DATA ARE NOT AVAILABLE. WHERE PROGRAMS WERE SHARED OR OFFERED BY A CONSORTIA, ALL COOPERATING HOSPITALS ARE CREDITED WITH A PROGRAM IN THAT SPECIALTY BUT THE PROGRAM IS COUNTED ONLY TO THE COUNT OF THE FIRST HOSPITAL LISTED. THE FAMILY MEDICINE SPECIALTY CATEGORY INCLUDES TWO AMA SPECIALTIES, THE FAMILY MEDICINE AND GENERAL PRACTICE SPECIALTIES. THE "TOTAL" FIGURE IS THE TOTAL FOR ALL RESIDENCIES, NOT JUST THE FOUR BROKEN OUT INDIVIDUALLY. THE CODING CRITERIA WERE:

- 1. INDEPENDENT PROGRAMS ARE ALWAYS REPORTED.
- 2. SHARED PROGRAMS ARE SHOWN AS SUCH WHEN THERE ARE NO INDEPENDENT PROGRAMS.
- 3. SHARED PROGRAMS ARE REPORTED IN AT LEAST ONE OF THE PARTICIPATING HOSPITALS, IF NECESSARY, AS AN ENLARGEMENT OF AN INDEPENDENT PROGRAM.
- 4. WHILE UNIVERSITY PROGRAMS ARE LUMPEC WITH THE UNIVERSITY HOSPITAL WHERE POSSIBLE, ALL OTHER NON-HOSPITAL RESIDENCIES ARE NOT INCLUDED.

INTERNS AND RESIDENCIES O.D.:

INTERNS AND RESIDENCIES APPROVED BY THE AGA FOR 1971 ARE FOUND IN "EDUCATIONAL SUPPLEMENT", JANUARY 1972 PUBLISHED BY THE OFFICE OF EDUCATION OF AMERICAN DSTEOPATHIC ASSOCIATION.

6-B) PROFESSIONAL SCHOOLS AND STUDENTS

MEDICAL SCHOOLS, ENROLLMENT AND GRADUATES:

MEDICAL SCHUDLS AND ENROLLMENT FOR 1967 - 68 AND GRADUATES FOR 1968 ARE FOUND IN "MEDICAL EDUCATION IN THE UNITED STATES 1969 - 1970", PUBLISHED BY THE AMERICAN MEDICAL ASSOCIATION.

OSTEOPATHIC SCHOOLS, ENROLLMENT AND GRACUATES:

OSTEOPATHIC SCHOOLS AND ENROLLMENT FOR 1967 - 68 AND GRADUATES FOR 1968 ARE FOUND IN "EDUCATIONAL SUPPLEMENT" CF JCURNAL OF THE AMERICAN OSTEOPATHIC ASSOCIATION JANUARY 1968 - 69.

DENTAL SCHOOLS, ENROLLMENT AND GRADUATES:

THE NUMBER OF DENTAL SCHOOLS AND THEIR ENROLLMENT FOR 1970 - 71 AND GRADUATES FOR 1971 ARE FOUND IN "ANNUAL REPORT ON DENTAL EDUCATION 1970 - 71" PUBLISHED BY AMERICAN DENTAL ASSOCIATION.



OPTOMETRY SCHOOLS, ENROLLMENT AND GRADUATES:

OPTOMETRY SCHOOLS AND THEIR ENROLLMENT FOR 1967 - 68 AND THE NUMBER OF GRADUATES IN 1968 ARE OBTAINED FROM AMERICAN OPTOMETRIC ASSOCIATION.

PHARMACY SCHOOLS, ENROLLMENT AND GRADUATES:

PHARMACY SCHOOLS ARE OBTAINED FROM AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY. ENROLLMENT FOR AND GRACUATES FOR 1968 ARE OBTAINED FROM AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY: AMERICAN JOURNAL OF PHARMACEUTICAL EDUCATION VOL. 33, NO. 1, FEBRUARY 1969.

PODIATRY SCHOOLS. ENROLLMENT AND GRADUATES:

PODIATRY SCHOOLS AND THEIR ENRCLLMENT FOR 1967 - 68 AND GRACUATES FOR 1968 ARE OBTAINED FROM AMERICAN ASSOCIATION OF COLLEGES OF PODIATRIC MEDICINE.

VETERINARY MEDICINE SCHOOLS. ENROLLMENTS AND GRADUATES:

VETERINARY SCHOOLS OF MEDICINE AND THEIR ENROLLMENT FOR 1968 - 70 AND GRADUATES FOR 1969 ARE OBTAINED FROM DEPARTMENT OF EDUCATION AND LICENSURE: J.A.V.M.A. 154 (5) CHICAGO. AMERICAN VETERINARY MEDICAL ASSOCIATION FEBRUARY 1970. ALSO PRIOR ANNUAL ISSUES FOR ENROLLMENT AND GRADUATES.

SCHOOLS OF NURSING - RN. ENROLLMENT AND GRADUATES:

THE SCHOOLS OF NURSING. RN AND THEIR ENROLLMENT FOR 1970 - 71 AND GRADUATES FOR 1970* ARE FOUND IN "STATE APPROVED SCHOOLS OF NURSING - RN 1971" PUBLISHED BY NATIONAL LEAGUE FOR NURSING RESEARCH AND STUDIES SERVICE.

SCHOOLS OF NURSING - LPN. ENROLLMENT AND GRADUATES:

THE SCHOOLS OF NURSING, LPN AND THEIR ENROLLMENT FOR 1970 - 71 AND GRADUATES FOR 1970* ARE FOUND IN "STATE APPROVED SCHOOLS OF NURSING LPN/LVN 1970" PUBLISHED BY NATIONAL LEAGUE FOR NURSING, RESEARCH AND DEVELOPMENT.

*1971 ESTIMATED GRACUATES AVAILABLE

MEDICAL AUXILIARY PROGRAMS:

THERE ARE A.M.A. APPROVED EDUCATIONAL PROGRAMS IN FIFTEEN ALLIED HEALTH PROFESSIONS. ENROLLMENT AND GRADUATES ARE ESTIMATES BASED ON PROGRAMS REPORTING. ONLY CAPACITY DATA IS AVAILABLE. THE PROGRAMS ARE: CERTIFIED LABORATORY ASSISTANT, CYTOTECHNOLOGISTS, HISTOLOGIC TECHNICIAN, INHALATION THERAPY TECHNICIAN, MEDICAL ASSISTANT, MEDICAL RECORD LIBRARIAN, MEDICAL RECORD TECHNICIAN, NUCLEAR MEDICINE TECHNOLOGIST, OCCUPATIONAL THERAPIST, ORTHOPOEDIC ASSISTANT, PHYSICAL THERAPIST, RADIOLOGIC TECHNOLOGIST, AND RADIATION THERAPY TECHNICIAN.



DENTAL AUXILIARY PROGRAMS:

DENTAL AUXILIARY SCHOOLS (HYGIENE, ASSISTING, LABORATORY TECHNOLOGY) ENROLLMENT AND GRADUATES ARE FOUND IN ANNUAL REPORT ON DENTAL AUXILIARY EDUCATION 1976/71 PUBLISHED BY AMERICAN DENTAL ASSOCIATION. COUNCIL ON DENTAL EDUCATION AND DENTAL STUDENTS REGISTER PUBLISHED BY A.D.A., COUNCIL ON DENTAL EDUCATION.

7. HIGHER EDUCATION DATA

UNIVERSITY, COLLEGE, AND JR. COLLEGE DATA IS PUBLISHED IN "HIGHER EDUCATION, EDUCATION DIRECTORY 1970 - 71", NATIONAL CENTER FOR EDUCATIONAL STATISTICS OF THE DEFICE OF EDUCATION.

8. HEALTH MANPOWER DATA

, DATA FOR MOST TYPES OF HEALTH MANPOWER IS FOUND IN "HEALTH MANPOWER. A CCUNTY AND METROPOLITAN AREA DATA BOOK", REPORTED BY THE NATIONAL CENTER FOR HEALTH STATISTICS.

8-A) PHYSICIANS

M.D. PHYSICIANS:

CURRENT 1971 M.O.'S AS WELL AS 1970 AND 1969 M.O.'S ARE FOUND IN "DISTRIBUTION OF PHYSICIANS IN THE UNITED STATES", CENTER FCR HEALTH SERVICES RESEARCH AND DEVELOPMENT PUBLISHED BY THE AMERICAN MEDICAL ASSOCIATION IN 1971, 1970 AND 1969. THE CURRENT ESTIMATE IS FOR ACTIVE NONFEDERAL PHYSICIANS (TOTAL NONFEDERAL LESS INACTIVE). GENERAL PRACTICE PHYSICIANS ARE THOSE IN AN GFFICE-BASE PATIENT CARE WITHOUT A SPECIALTY. ESTIMATES FOR 1960, 1949, AND 1940 COME FROM AMA PUNCH CAROS. AMA ESTIMATES HAVE BEEN USED RATHER THAN CENSUS ESTIMATES BECAUSE CENSUS ESTIMATES OCCASIONALLY INCLUDED INTERNS AND RESIDENTS AS WELL AS CHIROPRACTORS, DENTISTS, AND VETERINARIANS IN THE PHYSICIAN COUNTS WHEN ENUMERATORS FAILED TO PROPERLY DIFFERENTIATE THE RESPONSE OF "DOCTOR".

D.O. PHYSICIANS:

DATA ON THE NUMBER OF 1971, ACTIVE NONFEDERAL O.C'S IS FROM THE 1971 AMERICAN DSTEDPATHIC ASSOCIATION TAPE. THIS DATA INCLUDES: TOTAL ACTIVE NONFEDERAL O.O.'S, PRIMARY PATIENT CARE D.O.'S UNDER 65 YEARS GLO, PRIMARY PATIENT CARE D.O.'S OVER 65 YEARS OLD, AND TOTAL O.C. PHYSICIANS.

8-B) OTHER PROFESSIONAL MANPCWER

DENTISTS:

TOTAL CIVILIAN DENTISTS IS FROM THE AMERICAN DENTAL ASSOCIATION DIRECTORY DATA-FILE AS OF DECEMBER 31. 1968.

TOTAL DENTISTS FOR 1971 IS FROM THE DENTAL REGISTER OF THE STATE LICENSING BOARDS FOR ALL STATES EXCEPT PENNSYLVANIA AND INDIANA.



OPTOMETRISTS:

DATA ON THE CHARACTERISTICS OF 1968 ACTIVE OPTCMETRISTS IS FROM THE 1968 VISION AND EYE CARE MANPOWER SURVEY OF OPTOMETRISTS.

CURRENT DATA ON THE NUMBER OF 1972 CPTCMETRISTS IS FROM LISTS SUPPLIED BY THE AMERICAN OPTOMETRIC ASSOCIATION. COUNTY TOTALS ARE FOR ACTIVE NONFEDERAL OPTOMETRISTS FOR ALL STATES EXCEPT THE FOLLOWING:

PENNSYLVANIA -- COUNTY TOTALS ARE FOR ALL LICENSED OPTOMETRISTS.

CALIFORNIA, ILLINOIS, MICHIGAN, MISSOURI, NEW HAMPSHIRE, NEW YORK, AND OHIC -- COUNTY TOTALS ARE FOR LICENSED, NONFEDERAL OPTOMETRISTS.

PHARMACISTS:

DATA ON THE NUMBER OF 1966 ACTIVE PHARMACISTS IS FROM A SURVEY CONDUCTED BY THE NATIONAL ASSOCIATION OF BOARDS OF PHARMACY, IN COOPERATION WITH THE NATIONAL CENTER FOR HEALTH STATISTICS. THIS WAS A QUESTIONNAIRE SENT WITH A LICENSING RENEWAL FORM TO EACH PHARMACIST AT THE APPROPRIATE RENEWAL TIME. STATE DATA ON PHARMACY IS AVAILABLE IN "PHARMACY MANPOWER U.S. 1966".

PODIATRISTS:

DATA ON THE NUMBER OF 1968 TOTAL PODIATRISTS IS FROM UNPUBLISHED STATE LICENSING LISTS PROVIDED BY THE AMERICAN PODIATRY ASSOCIATION.

VETERINARIANS:

DATA ON THE NUMBER OF 1967 TOTAL VETERINARIANS WAS PROVIDED FROM MEMBERSHIP RECORDS OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION.

8-C) NURSES

R.N. 'S:

DATA ON THE NUMBER OF 1966 REGISTERED NURSES IS FROM THE 1966 INVENTORY OF REGISTERED NURSES CONDUCTED BY THE AMERICAN NURSES ASSOCIATION.

L.P.N. 'S:

DATA ON THE NUMBER OF 1967 LICENSED PRACTICAL NURSES IS FROM THE 1967 INVENTORY OF LICENSED PRACTICAL NURSES CONDUCTED BY THE AMERICAN NURSES ASSOCIATION.



9. HOSPITAL DATA

ALL HOSPITAL DATA (EXCEPT INTERN AND RESIDENT TRAINING) IS FROM AN ANNUAL SURVEY OF HOSPITALS REPORTING FOR A TWELVE MONTH PERIOD PREFERRABLY CCTOBER 1, 1969 THROUGH SEPTEMBER 30, 1970. THIS DATA HAS BEEN PUT ON A NCHS HOSPITAL FACILITY TAPE, AND HAS BEEN PUBLISHED IN THE "HOSPITAL GUIDE ISSUE". A COPY OF THE QUESTIONNAIRE USED IS PUBLISHED IN THE HOSPITAL GUIDE ISSUE.

TO BE REPORTED AS A HOSPITAL, AN INSTITUTION MUST HAVE AT LEAST SIX INPATIENT BEDS, CRIBS OR PEDIATRIC BASSINETS WHICH SHALL BE CONTINUALLY AVAILABLE FOR THE CARE OF PATIENTS.

9-A) HOSPITAL TYPE

GENERAL HOSPITALS:

GENERAL HOSPITALS ARE THOSE CODED "10-S" BY THE AMERICAN HOSPITAL ASSOCIATION.
THESE HOSPITALS PROVIDE NON-SPECIALIZED CARE, AND THE MAJORITY OF THEIR PATIENTS STAY
FOR FEWER THAN 3C DAYS.

NON-GENERAL HOSPITALS:

NON-GENERAL HOSPITALS ARE THOSE WHERE THE MAJORITY OF PATIENTS STAY MORE THAN 3C DAYS AND THOSE WHICH PROVIDE SPECIALIZED CARE; EXAMPLES ARE:

HOSPITAL UNIT OF AN INSTITUTION (PRISON, COLLEGE, MENTAL RETARDATION SCHOOL, PSYCHIATRIC, TUBERCULOSIS AND OTHER RESPIRATORY DISEASES, NARCOTIC ADDICTION, GERIATRIC, THATERNITY, REHABILITATION, CRTHCPEDIC, CHRONIC DISEASES AND OTHER SPECIALTIES). SERVICES ALSO COVER CHILDREN'S GENERAL HOSPITALS AND CHILDREN'S HOSPITAL UNIT OF AN INSTITUTION (PSYCHIATRIC, TUBERCULOSIS AND OTHER RESPIRATORY DISEASES, REHABILITATION, ORTHOPEDIC, CHRONIC DISEASES, MENTAL RETARDATION, EPILEPSY, AND ALCOHOLISM).

9-B) HOSPITAL EMPLOYMENT:

PERSONNEL COVERED ARE: M.O.'S, D.O.'S, INTERNS AND RESIDENTS, CTHER TRAINEES, R.N.'S, L.P.N.'S EMPLOYED IN GENERAL HOSPITALS AND IN NON-GENERAL HOSPITALS. IT IS SHOWN IN FULL TIME EQUIVALENTS (PART TIME IS COMPUTED AS 1/2 FULL TIME). THE "INTERN AND RESIDENT" FIGURE SHOWS THE NUMBER ACTUALLY EMPLOYED WHETHER OR NOT THE TRAINING PROGRAM IS ACCREDITED BY THE A.M.A. MOST OF THE NON-ACCREDITED POSITIONS—FILLED ARE BY FOREIGN MEDICAL GRADUATES WHO ARE MORE EMPLOYED THAN STUDENTS. HOWEVER, WHERE BOTH EMPLOYEES AND A.M.A. ACCREDITED INTERNS AND RESIDENT POSITIONS ARE REPORTED, THE EMPLOYMENT OFTEN SHOWS WHAT PROPORTION OF THE OFFERED POSITIONS ARE UNFILLED.

9-C1 OTHER DATA

OUTPATIENT VISITS:

OUTPATIENT UTILIZATION CONSISTS OF EMERGENCY VISITS, CLINIC VISITS (ORGANIZED OUTPATIENT DEPT.), REFERRED PATIENT VISITS, AND TOTAL VISITS. THERE IS ALSO AN OUTPATIENT RENAL DIALYSIS FACILITY.



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UTILIZATION: .

THE UTILIZATION RATE IS THE RESULT OF CIVIDING THE TOTAL PATIENT DAYS BY THE PRODUCT OF 365 TIMES THE NUMBER OF BEDS. THIS DIFFERS FROM THE FIGURE PUBLISHED IN THE "JAHA GUIDE ISSUE" IN THAT THE LATTER INCLUDES AN ADJUSTMENT FOR THE NUMBER OF OUTPATIENTS SEEN.

SERVICES (OR FACILITIES):

THE SERVICES ARE THOSE REPORTED BY GENERAL HOSPITALS. IN THE JAHA GUIDE ISSUE, THEY ARE TERMED "FACILITIES". UNFORTUNATELY, IN THE PAST, THE HOSPITALS HAVE TENDED TO CLAIM SUBSTANTIALLY MORE IN SERVICE THAN CAN BE REASONABLY ATTRIBUTED TO THEIR FACILITIES. WITH THE WORDING OF THE 197C HOSPITAL SURVEY, HOWEVER, THIS PROBLEM SHOULD BE MINIMIZED. THE SERVICES SECTION OF THE QUESTIONNAIRE IS AS FOLLOWS:

POST-OP RECOVERY ROOM INTENSIVE CARE UNIT INTENSIVE CARDIAC CARE UNIT	(A) QUESTIONAIRE CODE
INTENSIVE CARE UNIT	(8)
INTENSIVE CARDIAC CARE UNIT	(C)
OPEN HEART SURGERY FACILITIES	(D)
FT REGISTERED PHARMACIST	(E)
PT REGISTERED PHARMACIST	(F)
X-RAY THERAPY	(G)
COBALT THERAPY	(日)
RADIUM THERAPY	(I)
RADIOÎSOTOPE FACILITY	(J)
HISTOPATHOLOGY LAD	(K)
FT REGISTERED PHARMACIST PT REGISTERED PHARMACIST X-RAY THERAPY COBALT THERAPY RADIUM THERAPY RADIOISOTOPE FACILITY HISTOPATHOLOGY LAD ORGAN BANK BLOOD BANK ELECTROENCEPHALOGRAPHY INHALATION THERAPY CEPT	(L)
BLOOD BANK	(M)
ELECTROENCEPHALOGRAPHY	(N)
INHALATION THERAPY DEPT	(0)
INHALATION THERAPY DEPT PREMATURE NURSERY SELF CARE UNIT EXTENDED CARE UNIT INPATIENT RENAL DIALYSIS	(P)
SELF CARE UNIT	(a)
EXTENDED CARE UNIT	(R)
INPATIENT RENAL DIALYSIS	(\$)
OUTPATIENT RENAL DIALYSIS PHYSICAL THERAPY DEPT OCCUPATIONAL THERAPY DEPT	(T)
PHYSICAL THERAPY DEPT	(U)
OCCUPATIONAL THERAPY DEPT	(V)
REHABILIATION INPATIENT UNIT	(W)
REHABILITATION OUTPATIENT	
PSYCHIATRIC INPATIENT	
PSYCHIATRIC OUTPATIENT UNIT	
PSYCHIATRIC PART HOSP PROGRAM	
PSYCHIATRIC EMERGENCY SERVICES	
PSYCHIATRIC ENSTER & HOME CARE	(3)
SOCIAL WORK DEPT	(4)
FAMILY PLANNING SERVICE	(5)
HOME CARE DEPT	(6)
HOSPITAL AUXILIARY	(7)
ORGANIZED OUTPATIENT DEPT	(8)
SOCIAL WORK DEPT FAMILY PLANNING SERVICE HOME CARE DEPT HOSPITAL AUXILIARY ORGANIZED OUTPATIENT DEPT EMERGENCY SERVICE LEVEL	(9) - (12)
	177



(60)

10. VITAL STATISTICS DATA

VITAL STATISTICS DATA ON TOTAL MORTALITY BY PLACE OF RESIDENCE, INFANT MORTALITY - UNDER ONE YEAR OLD, AND MURTALITY FROM INFECTIOUS DISEASES WAS OBTAINED FROM THE 1968 NCHS MORTALITY TAPE.

NATALITY DATA WHICH INCLUDES TOTAL BIRTHS BY RESIDENCE AND BIRTHS IN HOSPITALS WAS OBTAINED FROM THE 1968 NCHS NATALITY TAPE.

11. CHANGES IN DEFINITION IN PAST YEAR



(61)