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MANPOWER RESOURCES IN HOSPITALS, 1966. SUMMARY REPORT OF A SURVEY.

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QUESTIONNAIRE RESPONSES FROM 5,369 (77 PERCENT) OF THE 6,993 HOSPITALS CONTACTED PROVIDED INFORMATION NEEDED FOR PLANNING EDUCATIONAL AND RECRUITMENT PROGRAMS. PERSONNEL IN ALL CATEGORIES EMPLOYED BY THE RESPONDING HOSPITALS TOTALED 1,750,545. PROJECTED ESTIMATES FOR ALL HOSPITALS, SHOWED 1,332,052 PROFESSIONAL AND TECHNICAL WORKERS EMPLOYED AND 257,217 ADDITIONAL PROFESSIONAL AND TECHNICAL WORKERS NEEDED. THE MOST URGENTLY NEEDED CATEGORIES WERE--(1) REGISTERED NURSES, (2) AIDES, ORDERLIES, AND ATTENDANTS, (3) LICENSED PRACTICAL NURSES, (4) MEDICAL TECHNOLOGISTS, AND (5) DIETICIANS. DETAILED DATA ON STAFFING AND CURRENT NEEDS AND ON MOST URGENT PERSONNEL NEEDS ARE PRESENTED IN FULL-PAGE TABLES FOR THE UNITED STATES, FOR EACH REGION, AND FOR STATES WITHIN EACH REGION. TABLES PRESENTING UTILIZATION CHARACTERISTICS OF RESPONDING HOSPITALS AND A SAMPLE QUESTIONNAIRE WITH INSTRUCTIONS ARE INCLUDED. (JK)

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**MANPOWER RESOURCES**  
*in hospitals – 1966*

Summary Report  
of a Survey  
Conducted by the  
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and the  
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# INTRODUCTION

Detailed information on staffing patterns and manpower needs in hospitals, especially with regard to technical personnel in the professional service departments, has been urgently needed as a basis for planning recruitment and educational programs throughout the nation. This publication is a summary report of a study conducted jointly by the U.S. Public Health Service and the American Hospital Association to obtain such information. Future reports will go into further detail concerning various aspects of the study.

Two sets of tables are included in this report. Data on staffing and current needs are presented first in the series of full-page tables titled "Personnel in Hospitals." These tables give data for the United States, for each region, and for states within each region, in geographic sequence. Data on "Most Urgent Personnel Needs" are then presented, also by region and state.

Utilization characteristics of the responding hospitals are summarized in Appendix A. The questionnaire and the instructions for completing the survey, which contained definitions developed jointly by the staffs of the Public Health Service and the American Hospital Association, are reproduced in Appendixes B and C.

## RESPONSE TO THE SURVEY

Joint planning for the survey began late in 1965. The questionnaire, with accompanying instructions and definitions, was mailed in April 1966 to the 6993 hospitals registered by the American Hospital Association. By August 1966, responses had been received from 5369 of these hospitals (77 per cent). An analysis of the responses is shown below.

CATEGORY	MAILED	RECEIVED	
		NUMBER	PER CENT
United States — total .....	6,993	5,342	76.4
By ownership			
Federal .....	430	402	93.5
Governmental nonfederal .....	2,011	1,543	76.7
Voluntary nonprofit .....	3,596	2,873	79.9
Proprietary for-profit .....	956	524	54.8
By service			
Short-term general .....	5,837	4,418	75.7
Long-term general .....	63	50	79.3
Psychiatric .....	500	404	80.8
Tuberculosis .....	175	149	85.1
Chronic-Convalescent .....	78	57	73.1
All other .....	340	264	77.6
By size			
Under 25 beds .....	612	385	62.9
25-49 .....	1,646	1,144	69.5
50-99 .....	1,727	1,259	72.9
100-199 .....	1,268	1,023	80.7
200-299 .....	663	573	86.4
300-399 .....	320	287	89.7
400-499 .....	181	161	89.0
500 and over .....	576	510	88.5

## PERSONNEL IN HOSPITALS

The tables on staffing and current needs include not only the actual data reported by the responding hospitals for the reporting week, April 17-23, 1966; but also Public Health Service estimates, in selected categories, for all registered hospitals. The categories shown represent a condensation of the 39 numbered categories on the questionnaire; subgroups have been eliminated, and four categories have been included in the totals for "all other professional and technical" rather than itemized separately. (The four categories are numbers 10, 11, 21, and 24: nuclear medicine technologists and technicians, nuclear medicine assistants, inhalation therapists, and medical librarians.)

The personnel counts represent individual persons, whether full-time or part-time; no full-time equivalents were calculated. A full-time employee was defined as one who regularly works 35 hours or more during a week; a part-time employee as one who works fewer than 35 hours per week.

Hospitals were requested to report each person in only one category; a person performing functions in more than one category was to be classified in the category which accounted for more than 50 per cent of his working time. For example, a professional nurse who worked 75 per cent of her time as a medical technologist would be counted in that category, rather than as a nurse.

The data given under the heading "Additional Needs" represent the sum of budgeted vacancies and the additional personnel needed to provide optimum care as of the reporting week (Section C of the questionnaire, Columns I and II).

The estimates for all registered hospitals were obtained by projecting the data for reporting hospitals in each state, by type of hospital, using the following classification:

1. Federal
2. Nonfederal psychiatric
3. Nonfederal long-term general and other special  
(including tuberculosis)
4. Nonfederal governmental short-term general and special
5. Voluntary nonprofit and proprietary for-profit short-term general and special

The projection factor used was the ratio of the average daily census in all registered hospitals of the specified type in a state to the census in the reporting hospitals of the same type.

## MOST URGENT PERSONNEL NEEDS

Hospitals were asked to list the five manpower needs they considered most urgent. They were not restricted to the personnel categories listed in the questionnaire; as a result, a number of additional categories were introduced. Three of these additions are reflected in the summary tabulation: administrators (Ala.); clinical psychologists (Del.); and physicians (N. Mex.).

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### UNITED STATES

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL</b> .....	.....	1,750,545	1,491,230	259,315	.....	.....
<b>All professional and technical—Total</b> .....	1,332,052	1,075,857	895,363	180,494	257,217	205,854
<b>Nursing service</b>						
Professional nurses.....	360,969	295,638	210,834	84,804	79,470	63,834
LPN's or vocational nurses.....	150,569	120,800	104,746	16,054	41,404	33,244
Surgical technical aide.....	17,623	14,563	12,902	1,661	3,913	3,231
Aides, orderlies, attendants.....	492,007	390,561	354,852	35,709	69,746	55,344
<b>Diagnostic services</b>						
Medical technologist.....	54,488	44,537	36,428	8,109	9,172	7,487
Laboratory assistants.....	14,623	11,883	9,511	2,372	2,492	2,006
Cytotechnologists.....	1,634	1,343	1,188	155	539	449
Histologic technicians.....	3,907	3,243	3,041	202	678	566
Electrocardiographic technicians.....	5,932	4,901	4,099	802	823	679
Electroencephalographic technicians.....	**	1,503	1,279	224	**	344
<b>Therapeutic services</b>						
Occupational therapists.....	4,059	3,178	2,854	324	2,271	1,771
Occupational therapy assistants.....	3,812	2,890	2,580	310	1,177	909
Physical therapists.....	8,470	6,565	5,245	1,320	2,846	2,260
Physical therapy assistants.....	5,246	4,267	3,697	570	1,092	864
Social workers.....	10,665	8,541	7,386	1,155	5,143	4,061
Social work assistants.....	1,467	1,184	1,010	174	516	438
Recreation therapists.....	3,807	2,965	2,662	303	1,603	1,144
Inhalation therapists.....	5,560	4,576	3,817	759	2,231	1,827
Speech pathologists and audiologists.....	1,155	919	649	270	544	422
<b>Radiology</b>						
Radiologic technologists.....	24,011	19,595	17,550	2,045	3,862	3,153
X-ray assistants.....	5,954	4,812	4,068	744	878	713
Radiation therapy technologists.....	**	979	925	54	**	226
Radiation therapy assistants.....	**	172	158	14	**	83
<b>Medical records</b>						
Medical record librarians.....	6,341	5,065	4,300	765	1,809	1,445
Medical record assistants.....	10,093	8,159	6,761	1,398	1,836	1,464
<b>Dietary</b>						
Dietitians.....	12,659	10,288	8,761	1,527	3,537	2,826
Food service managers.....	5,402	4,252	3,986	266	842	666
<b>Pharmacy</b>						
Pharmacists.....	9,437	7,717	5,938	1,779	1,872	1,514
Pharmacy assistants.....	5,630	4,646	3,483	1,163	946	778
<b>All other professional and technical</b>	106,532	86,115	70,653	15,462	15,975	12,106
<b>Other hospital personnel—Total</b> .....	.....	674,688	595,867	78,821	.....	.....
Food service workers.....	.....	181,837	147,682	34,155	.....	.....
Laundry.....	.....	46,444	43,712	2,732	.....	.....
Housekeeping.....	.....	121,613	112,815	8,798	.....	.....
Maintenance.....	.....	77,648	74,236	3,412	.....	.....
All other (includes management and all secretarial and clerical).....	.....	247,146	217,422	29,724	.....	.....

\*Estimates made by addition of states' figures.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## NEW ENGLAND

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	135,315	106,645	28,670	.....	.....
All professional and technical—Total.....	42,392	80,128	61,732	18,396	7,687	13,606
<b>Nursing service</b>						
Professional nurses.....	31,698	27,283	17,295	9,988	5,231	4,397
LPN's or vocational nurses.....	10,874	8,998	7,349	1,649	3,491	2,814
Surgical technical aide.....	946	845	752	93	183	162
Aides, orderlies, attendants.....	29,296	24,387	20,651	3,736	3,241	2,590
<b>Diagnostic services</b>						
Medical technologist.....	4,739	4,177	3,341	836	611	527
Laboratory assistants.....	1,397	1,203	908	295	155	135
Cytotechnologists.....	191	168	147	21	34	30
Histologic technicians.....	316	274	259	15	33	29
Electrocardiographic technicians.....	445	386	314	72	33	29
Electroencephalographic technicians.....	* *	123	101	22	* *	21
<b>Therapeutic services</b>						
Occupational therapists.....	313	248	221	27	229	180
Occupational therapy assistants.....	290	231	219	12	55	41
Physical therapists.....	626	523	436	87	221	179
Physical therapy assistants.....	229	190	164	26	60	51
Social workers.....	935	800	647	153	540	434
Social work assistants.....	111	97	83	14	48	39
Recreation therapists.....	233	188	169	19	81	64
Inhalation therapists.....	374	326	273	53	149	130
Speech pathologists and audiologists.....	84	68	50	18	36	29
<b>Radiology</b>						
Radiologic technologists.....	1,729	1,489	1,308	181	253	212
X-ray assistants.....	306	262	230	32	32	27
Radiation therapy technologists.....	* *	67	65	2	* *	22
Radiation therapy assistants.....	* *	5	5	0	* *	3
<b>Medical records</b>						
Medical record librarians.....	443	378	321	57	117	98
Medical record assistants.....	957	776	599	177	201	171
<b>Dietary</b>						
Dietitians.....	921	788	677	111	215	181
Food service managers.....	313	268	245	23	36	31
<b>Pharmacy</b>						
Pharmacists.....	560	481	407	74	105	87
Pharmacy assistants.....	317	280	185	95	41	37
<b>All other professional and technical</b>	5,741	4,819	4,311	508	1,211	856
<b>Other hospital personnel—Total.....</b>	.....	55,187	44,913	10,274	.....	.....
Food service workers.....	.....	13,982	9,920	4,062	.....	.....
Laundry.....	.....	3,201	3,023	178	.....	.....
Housekeeping.....	.....	10,280	8,452	1,828	.....	.....
Maintenance.....	.....	6,199	5,909	290	.....	.....
All other (includes management and all secretarial and clerical).....	.....	21,529	17,609	3,916	.....	.....

\*Estimates for division obtained by addition of states' figures.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## MAINE

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	9,381	7,873	1,508	.....	.....
All professional and technical—Total.....	6,571	5,837	4,854	983	948	829
Nursing service						
Professional nurses.....	2,250	1,949	1,401	548	277	238
LPN's or vocational nurses.....	419	365	297	68	158	138
Surgical technical aide.....	150	136	120	16	26	22
Aides, orderlies, attendants.....	2,340	2,128	1,938	190	118	107
Diagnostic services						
Medical technologist.....	241	208	176	32	56	48
Laboratory assistants.....	92	82	70	12	13	12
Cytotechnologists.....	**	6	4	2	**	3
Histologic technicians.....	**	9	8	1	**	2
Electrocardiographic technicians.....	40	34	27	7	4	4
Electroencephalographic technicians.....	**	10	7	3	**	2
Therapeutic services						
Occupational therapists.....	**	7	6	1	**	10
Occupational therapy assistants.....	34	33	33	0	3	3
Physical therapists.....	35	31	24	7	36	33
Physical therapy assistants.....	**	15	13	2	**	8
Social workers.....	49	46	44	2	31	28
Social work assistants.....	**	5	5	0	**	3
Recreation therapists.....	**	6	6	0	**	2
Inhalation therapists.....	**	9	7	2	**	7
Speech pathologists and audiologists.....	**	5	5	0	**	4
Radiology						
Radiologic technologists.....	155	135	125	10	37	31
X-ray assistants.....	26	23	21	2	3	3
Radiation therapy technologists.....	**	2	2	0	**	2
Radiation therapy assistants.....	**	0	0	0	**	0
Medical records						
Medical record librarians.....	51	44	28	16	12	10
Medical record assistants.....	90	80	64	16	24	22
Dietary						
Dietitians.....	65	56	48	8	25	22
Food service managers.....	43	37	31	6	7	6
Pharmacy						
Pharmacists.....	30	27	23	4	21	18
Pharmacy assistants.....	34	31	25	6	5	5
All other professional and technical	427	318	296	22	92	36
Other hospital personnel—Total.....	.....	3,544	3,019	525	.....	.....
Food service workers.....	.....	977	708	269	.....	.....
Laundry.....	.....	269	256	13	.....	.....
Housekeeping.....	.....	715	640	75	.....	.....
Maintenance.....	.....	470	454	16	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,113	961	152	.....	.....

\* Estimates, not made for all categories, are based on sample representing 93 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## NEW HAMPSHIRE

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	6,782	5,216	1,566	.....	.....
All professional and technical—Total.....	4,876	4,227	3,165	1,062	605	532
Nursing service						
Professional nurses.....	1,788	1,517	1,017	500	212	180
LPN's or vocational nurses.....	456	380	274	106	75	66
Surgical technical aide.....	49	40	33	7	2	2
Aides, orderlies, attendants.....	1,754	1,579	1,280	299	176	161
Diagnostic services						
Medical technologist.....	174	146	107	39	18	15
Laboratory assistants.....	34	28	20	8	2	2
Cytotechnologists.....	**	7	7	0	**	0
Histologic technicians.....	**	17	17	0	**	0
Electrocardiographic technicians.....	**	19	10	9	**	3
Electroencephalographic technicians.....	**	4	0	4	**	0
Therapeutic services						
Occupational therapists.....	**	10	8	2	**	12
Occupational therapy assistants.....	**	10	7	3	**	0
Physical therapists.....	**	18	13	5	**	9
Physical therapy assistants.....	**	9	9	0	**	5
Social workers.....	26	25	19	6	13	12
Social work assistants.....	**	2	2	0	**	1
Recreation therapists.....	**	8	2	6	**	2
Inhalation therapists.....	**	15	12	3	**	5
Speech pathologists and audiologists.....	**	1	0	1	**	1
Radiology						
Radiologic technologists.....	97	82	73	9	16	13
X-ray assistants.....	**	7	5	2	**	0
Radiation therapy technologists.....	**	3	2	1	**	1
Radiation therapy assistants.....	**	1	1	0	**	0
Medical records						
Medical record librarians.....	**	19	18	1	**	8
Medical record assistants.....	55	46	36	10	1	1
Dietary						
Dietitians.....	48	41	30	11	7	6
Food service managers.....	39	32	29	3	3	3
Pharmacy						
Pharmacists.....	**	19	13	6	**	5
Pharmacy assistants.....	**	15	10	5	**	3
All other professional and technical	356	127	111	16	80	15
Other hospital personnel—Total.....	.....	2,555	2,051	504	.....	.....
Food service workers.....	.....	661	462	199	.....	.....
Laundry.....	.....	194	172	22	.....	.....
Housekeeping.....	.....	539	423	116	.....	.....
Maintenance.....	.....	361	333	28	.....	.....
All other (includes management and all secretarial and clerical).....	.....	800	661	139	.....	.....

\* Estimates, not made for all categories, are based on sample representing 92 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## VERMONT

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	4,034	3,418	616	.....	.....
All professional and technical—Total.....	3,208	2,472	2,032	440	503	380
<b>Nursing service</b>						
Professional nurses.....	1,205	865	632	233	161	116
LPN's or vocational nurses.....	492	364	308	56	108	75
Surgical technical aide.....	25	18	16	2	13	9
Aides, orderlies, attendants.....	948	823	752	71	95	81
<b>Diagnostic services</b>						
Medical technologist.....	107	77	66	11	24	16
Laboratory assistants.....	47	33	19	14	5	4
Cytotechnologists.....	* *	3	2	1	* *	0
Histologic technicians.....	* *	5	5	0	* *	0
Electrocardiographic technicians.....	30	21	20	1	1	1
Electroencephalographic technicians.....	* *	3	2	1	* *	0
<b>Therapeutic services</b>						
Occupational therapists.....	* *	4	4	0	* *	5
Occupational therapy assistants.....	* *	9	8	1	* *	0
Physical therapists.....	* *	17	12	5	* *	3
Physical therapy assistants.....	* *	3	2	1	* *	5
Social workers.....	* *	13	12	1	* *	19
Social work assistants.....	* *	2	2	0	* *	0
Recreation therapists.....	* *	6	6	0	* *	3
Inhalation therapists.....	* *	6	5	1	* *	7
Speech pathologists and audiologists.....	* *	1	0	1	* *	2
<b>Radiology</b>						
Radiologic technologists.....	61	44	39	5	6	5
X-ray assistants.....	* *	10	7	3	* *	0
Radiation therapy technologists.....	* *	7	7	0	* *	0
Radiation therapy assistants.....	* *	0	0	0	* *	0
<b>Medical records</b>						
Medical record librarians.....	25	20	14	6	2	2
Medical record assistants.....	40	29	25	4	8	6
<b>Dietary</b>						
Dietitians.....	38	27	23	4	5	5
Food service managers.....	* *	11	10	1	* *	4
<b>Pharmacy</b>						
Pharmacists.....	* *	15	11	4	* *	2
Pharmacy assistants.....	* *	11	6	5	* *	2
All other professional and technical	190	25	17	8	75	8
<b>Other hospital personnel—Total.....</b>	.....	1,562	1,386	176	.....	.....
Food service workers.....	.....	444	344	100	.....	.....
Laundry.....	.....	118	113	5	.....	.....
Housekeeping.....	.....	269	241	28	.....	.....
Maintenance.....	.....	191	183	8	.....	.....
All other (includes management and all secretarial and clerical).....	.....	540	505	35	.....	.....

\* Estimates, not made for all categories, are based on sample representing 89 per cent of the average daily census in registered hospitals in this area.  
 \*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### MASSACHUSETTS

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	73,976	58,250	15,726	.....	.....
All professional and technical—Total.....	51,700	43,299	33,578	9,721	10,080	7,961
<b>Nursing service</b>						
Professional nurses.....	17,250	14,785	9,640	5,075	3,065	2,532
LPN's or vocational nurses.....	6,764	5,447	4,617	830	2,348	1,823
Surgical technical aide.....	451	404	372	32	68	61
Aides, orderlies, attendants.....	14,536	11,784	9,829	1,955	1,832	1,387
<b>Diagnostic services</b>						
Medical technologist.....	2,811	2,456	1,958	498	346	297
Laboratory assistants.....	998	861	630	231	112	95
Cytotechnologists.....	84	73	60	13	10	9
Histologic technicians.....	210	173	164	9	18	14
Electrocardiographic technicians.....	229	200	158	42	16	12
Electroencephalographic technicians.....	**	70	60	10	**	9
<b>Therapeutic services</b>						
Occupational therapists.....	205	162	144	18	135	100
Occupational therapy assistants.....	122	98	92	6	42	30
Physical therapists.....	344	288	236	52	97	73
Physical therapy assistants.....	112	92	79	13	26	20
Social workers.....	575	485	378	107	298	233
Social work assistants.....	60	51	45	6	8	6
Recreation therapists.....	128	105	96	9	47	36
Inhalation therapists.....	208	181	151	30	73	63
Speech pathologists and audiologists.....	49	40	32	8	17	13
<b>Radiology</b>						
Radiologic technologists.....	940	803	693	110	154	126
X-ray assistants.....	171	144	125	19	13	11
Radiation therapy technologists.....	**	26	26	**	**	14
Radiation therapy assistants.....	**	4	4	**	**	3
<b>Medical records</b>						
Medical record librarians.....	220	186	166	20	69	56
Medical record assistants.....	542	441	322	119	120	99
<b>Dietary</b>						
Dietitians.....	470	399	343	56	126	103
Food service managers.....	137	119	111	8	17	13
<b>Pharmacy</b>						
Pharmacists.....	330	280	236	44	60	47
Pharmacy assistants.....	170	150	95	55	24	20
<b>All other professional and technical</b>	3,593	2,992	2,716	276	939	656
<b>Other hospital personnel—Total.....</b>	.....	30,677	24,672	6,005	.....	.....
Food service workers.....	.....	7,818	5,375	2,443	.....	.....
Laundry.....	.....	1,522	1,422	100	.....	.....
Housekeeping.....	.....	5,643	4,580	1,063	.....	.....
Maintenance.....	.....	3,383	3,193	190	.....	.....
All other (includes management and all secretarial and clerical).....	.....	12,311	10,102	2,209	.....	.....

\* Estimates, not made for all categories, are based on sample representing 79 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### RHODE ISLAND

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	12,209	9,549	2,660	.....	.....
All professional and technical—Total.....	7,902	7,644	5,829	1,815	1,361	1,323
<b>Nursing service</b>						
Professional nurses.....	2,345	2,242	1,321	921	356	352
LPN's or vocational nurses.....	999	956	603	263	275	265
Surgical technical aide.....	78	75	56	19	37	35
Aides, orderlies, attendants.....	2,622	2,571	2,201	370	323	319
<b>Diagnostic services</b>						
Medical technologist.....	528	515	446	69	39	38
Laboratory assistants.....	32	31	28	3	14	14
Cytotechnologists.....	* *	21	20	1	* *	5
Histologic technicians.....	36	34	31	3	5	5
Electrocardiographic technicians.....	37	35	34	1	6	6
Electroencephalographic technicians.....	* *	9	8	1	* *	4
<b>Therapeutic services</b>						
Occupational therapists.....	* *	14	12	2	* *	20
Occupational therapy assistants.....	* *	4	4	0	* *	2
Physical therapists.....	44	43	37	6	28	27
Physical therapy assistants.....	* *	14	12	2	* *	7
Social workers.....	81	80	68	12	44	44
Social work assistants.....	* *	19	15	4	* *	17
Recreation therapists.....	* *	16	16	0	* *	8
Inhalation therapists.....	* *	13	9	4	* *	12
Speech pathologists and audiologists.....	* *	5	5	0	* *	3
<b>Radiology</b>						
Radiologic technologists.....	119	114	102	12	17	17
X-ray assistants.....	28	27	25	2	7	7
Radiation therapy technologists.....	* *	4	4	0	* *	2
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	38	36	28	8	10	10
Medical record assistants.....	83	79	65	14	27	26
<b>Dietary</b>						
Dietitians.....	74	71	63	8	14	14
Food service managers.....	* *	21	21	0	* *	2
<b>Pharmacy</b>						
Pharmacists.....	43	41	33	8	6	6
Pharmacy assistants.....	28	27	20	7	4	4
<b>All other professional and technical</b>	687	527	452	75	139	52
<b>Other hospital personnel—Total.....</b>	.....	4,565	3,720	845	.....	.....
Food service workers.....	.....	1,159	872	287	.....	.....
Laundry.....	.....	296	280	16	.....	.....
Housekeeping.....	.....	1,008	784	224	.....	.....
Maintenance.....	.....	488	471	17	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,614	1,313	301	.....	.....

\* Estimates, not made for all categories, are based on sample representing 98 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## CONNECTICUT

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	28,933	22,339	6,594	.....	.....
All professional and technical—Total.....	20,107	16,649	12,274	4,375	3,145	2,581
<b>Nursing service</b>						
Professional nurses.....	6,860	5,925	3,284	2,641	1,150	979
LPN's or vocational nurses.....	1,744	1,480	1,160	326	527	447
Surgical technical aide.....	193	172	155	17	37	33
Aides, orderlies, attendants.....	7,096	5,502	4,651	851	697	535
<b>Diagnostic services</b>						
Medical technologist.....	878	775	588	187	128	113
Laboratory assistants.....	194	168	141	27	9	8
Cytotechnologists.....	65	58	54	4	15	13
Histologic technicians.....	40	36	34	2	8	8
Electrocardiographic technicians.....	86	77	65	12	3	3
Electroencephalographic technicians.....	* *	27	24	3	* *	6
<b>Therapeutic services</b>						
Occupational therapists.....	73	51	47	4	46	33
Occupational therapy assistants.....	111	77	75	2	8	6
Physical therapists.....	159	126	114	12	46	34
Physical therapy assistants.....	71	57	49	8	8	6
Social workers.....	189	151	126	25	132	98
Social work assistants.....	* *	18	14	4	* *	12
Recreation therapists.....	69	47	43	4	19	13
Inhalation therapists.....	114	102	89	13	40	36
Speech pathologists and audiologists.....	* *	16	8	8	* *	5
<b>Radiology</b>						
Radiologic technologists.....	357	311	276	35	23	20
X-ray assistants.....	58	51	47	4	9	6
Radiation therapy technologists.....	* *	25	24	1	* *	3
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	86	73	67	6	15	12
Medical record assistants.....	127	101	87	14	21	17
<b>Dietary</b>						
Dietitians.....	226	194	170	24	38	31
Food service managers.....	58	48	43	5	3	3
<b>Pharmacy</b>						
Pharmacists.....	116	99	91	8	10	9
Pharmacy assistants.....	51	46	29	17	3	3
<b>All other professional and technical</b>	1,086	830	719	111	150	89
<b>Other hospital personnel—Total.....</b>	.....	12,284	10,065	2,219	.....	.....
Food service workers.....	.....	2,923	2,159	764	.....	.....
Laundry.....	.....	802	780	22	.....	.....
Housekeeping.....	.....	2,106	1,784	322	.....	.....
Maintenance.....	.....	1,306	1,275	31	.....	.....
All other (includes management and all secretarial and clerical).....	.....	5,147	4,067	1,080	.....	.....

\* Estimates, not made for all categories, are based on sample representing 76 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### MIDDLE ATLANTIC

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	389,719	329,004	60,715	.....	.....
All professional and technical—Total.....	291,846	237,400	193,394	44,006	63,110	49,923
<b>Nursing service</b>						
Professional nurses.....	79,907	67,297	46,775	20,522	21,878	17,380
LPN's or vocational nurses.....	29,844	24,443	20,436	4,007	9,975	8,120
Surgical technical aide.....	2,538	2,194	2,076	118	783	660
Aides, orderlies, attendants.....	105,051	81,174	76,614	4,560	15,993	12,246
<b>Diagnostic services</b>						
Medical technologist.....	11,018	9,274	7,703	1,571	2,031	1,692
Laboratory assistants.....	2,672	2,261	1,893	368	522	432
Cytotechnologists.....	386	334	296	38	171	146
Histologic technicians.....	879	746	706	40	214	181
Electrocardiographic technicians.....	1,312	1,124	926	198	197	158
Electroencephalographic technicians.....	* *	307	249	58	* *	96
<b>Therapeutic services</b>						
Occupational therapists.....	1,009	747	657	90	770	561
Occupational therapy assistants.....	1,394	983	893	90	420	293
Physical therapists.....	1,596	1,285	1,094	191	714	550
Physical therapy assistants.....	877	721	658	63	201	156
Social workers.....	2,793	2,194	1,921	273	1,727	1,327
Social work assistants.....	348	288	264	24	154	130
Recreation therapists.....	952	723	634	89	471	325
Inhalation therapists.....	976	836	691	145	454	374
Speech pathologists and audiologists.....	372	300	217	83	183	141
<b>Radiology</b>						
Radiologic technologists.....	4,694	3,945	3,565	380	964	809
X-ray assistants.....	1,124	950	839	111	230	192
Radiation therapy technologists.....	* *	279	264	15	* *	72
Radiation therapy assistants.....	* *	62	60	2	* *	39
<b>Medical records</b>						
Medical record librarians.....	1,005	829	753	76	312	250
Medical record assistants.....	1,535	1,292	1,136	156	324	264
<b>Dietary</b>						
Dietitians.....	2,848	2,326	2,112	214	827	661
Food service managers.....	644	536	526	10	121	102
<b>Pharmacy</b>						
Pharmacists.....	1,826	1,517	1,252	265	311	257
Pharmacy assistants.....	849	709	582	127	185	149
All other professional and technical	33,397	27,724	17,602	10,122	2,978	2,160
<b>Other hospital personnel—Total.....</b>	.....	152,319	135,610	16,709	.....	.....
Food service workers.....	.....	41,080	33,941	7,139	.....	.....
Laundry.....	.....	9,356	8,939	417	.....	.....
Housekeeping.....	.....	27,448	25,850	1,598	.....	.....
Maintenance.....	.....	20,273	19,190	1,083	.....	.....
All other (includes management and all secretarial and clerical).....	.....	54,162	47,690	6,472	.....	.....

\*Estimates for division obtained by addition of state figures.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## NEW YORK

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	199,832	175,439	24,393	.....	.....
All professional and technical—Total.....	158,768	119,801	103,691	16,110	36,284	26,276
<b>Nursing service</b>						
Professional nurses.....	38,953	30,650	22,320	8,330	12,290	9,091
LPN's or vocational nurses.....	17,446	13,371	11,433	1,938	5,565	4,199
Surgical technical aide.....	1,381	1,137	1,067	70	441	350
Aides, orderlies, attendants.....	66,203	47,750	45,408	2,342	9,318	6,543
<b>Diagnostic services</b>						
Medical technologist.....	6,417	5,159	4,305	854	1,227	971
Laboratory assistants.....	1,364	1,081	936	145	288	223
Cytotechnologists.....	195	163	146	17	85	67
Histologic technicians.....	509	410	397	13	118	94
Electrocardiographic technicians.....	662	534	456	78	120	91
Electroencephalographic technicians.....	* *	161	132	29	* *	48
<b>Therapeutic services</b>						
Occupational therapists.....	658	455	399	56	526	358
Occupational therapy assistants.....	874	564	483	81	249	150
Physical therapists.....	945	706	621	85	437	310
Physical therapy assistants.....	416	309	283	26	120	82
Social workers.....	1,918	1,450	1,254	196	1,278	948
Social work assistants.....	133	102	97	5	80	63
Recreation therapists.....	583	413	365	48	357	229
Inhalation therapists.....	449	355	324	31	220	163
Speech pathologists and audiologists.....	205	148	110	38	108	40
<b>Radiology</b>						
Radiologic technologists.....	2,615	2,084	1,813	271	603	479
X-ray assistants.....	593	470	432	38	133	104
Radiation therapy technologists.....	* *	140	129	11	* *	36
Radiation therapy assistants.....	* *	42	41	1	* *	16
<b>Medical records</b>						
Medical record librarians.....	574	440	400	40	188	139
Medical record assistants.....	788	616	550	66	194	149
<b>Dietary</b>						
Dietitians.....	1,837	1,421	1,312	109	532	141
Food service managers.....	276	214	211	3	54	41
<b>Pharmacy</b>						
Pharmacists.....	1,050	822	702	120	175	88
Pharmacy assistants.....	475	369	313	56	118	89
<b>All other professional and technical</b>	11,249	8,265	7,252	1,013	1,460	974
<b>Other hospital personnel—Total.....</b>	.....	80,031	71,748	8,283	.....	.....
Food service workers.....	.....	22,099	18,368	3,731	.....	.....
Laundry.....	.....	4,414	4,234	180	.....	.....
Housekeeping.....	.....	14,474	13,699	775	.....	.....
Maintenance.....	.....	11,123	10,455	668	.....	.....
All other (includes management and all secretarial and clerical).....	.....	27,921	24,992	2,929	.....	.....

\* Estimates, not made for all categories, are based on sample representing 71 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## NEW JERSEY

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	59,866	50,218	9,648	.....	.....
All professional and technical—Total.....	44,873	38,181	31,511	6,670	11,000	9,220
<b>Nursing service</b>						
Professional nurses.....	13,675	11,995	7,785	4,210	3,885	3,232
LPN's or vocational nurses.....	4,412	3,750	3,101	649	2,017	1,765
Surgical technical aide.....	363	331	312	19	94	86
Aides, orderlies, attendants.....	13,988	11,437	10,615	822	2,785	2,252
<b>Diagnostic services</b>						
Medical technologist.....	1,464	1,275	1,035	240	331	290
Laboratory assistants.....	322	282	231	51	78	68
Cytotechnologists.....	40	34	30	4	28	26
Histologic technicians.....	104	93	84	9	30	28
Electrocardiographic technicians.....	186	166	133	33	42	36
Electroencephalographic technicians.....	* *	50	38	12	* *	20
<b>Therapeutic services</b>						
Occupational therapists.....	97	78	64	14	107	84
Occupational therapy assistants.....	138	105	102	3	25	21
Physical therapists.....	247	208	160	48	121	97
Physical therapy assistants.....	127	106	97	9	17	15
Social workers.....	260	212	181	31	181	149
Social work assistants.....	95	78	68	10	21	19
Recreation therapists.....	85	69	65	4	28	23
Inhalation therapists.....	138	125	122	3	72	64
Speech pathologists and audiologists.....	48	41	26	15	27	22
<b>Radiology</b>						
Radiologic technologists.....	663	575	541	34	166	151
X-ray assistants.....	193	171	122	49	25	21
Radiation therapy technologists.....	* *	39	38	1	* *	16
Radiation therapy assistants.....	* *	2	2	0	* *	3
<b>Medical records</b>						
Medical record librarians.....	135	118	111	7	46	41
Medical record assistants.....	276	245	215	30	56	49
<b>Dietary</b>						
Dietitians.....	351	309	271	38	110	94
Food service managers.....	102	86	83	3	18	17
<b>Pharmacy</b>						
Pharmacists.....	244	214	172	42	48	43
Pharmacy assistants.....	113	99	82	17	37	32
<b>All other professional and technical</b>	7,007	5,888	5,625	263	605	456
<b>Other hospital personnel—Total.....</b>	.....	21,685	18,705	2,978	.....	.....
Food service workers.....	.....	5,759	4,790	969	.....	.....
Laundry.....	.....	1,327	1,269	58	.....	.....
Housekeeping.....	.....	3,965	3,616	349	.....	.....
Maintenance.....	.....	2,896	2,721	175	.....	.....
All other (includes management and all secretarial and clerical).....	.....	7,738	6,311	1,427	.....	.....

\* Estimates, not made for all categories, are based on sample representing 81 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## PENNSYLVANIA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	130,021	103,347	26,674	.....	.....
All professional and technical—Total.....	88,205	74,418	58,192	21,226	15,826	14,086
Nursing service						
Professional nurses.....	27,279	24,652	16,670	7,982	5,703	5,057
LPN's or vocational nurses.....	7,986	7,322	5,902	1,420	2,393	2,156
Surgical technical aide.....	794	726	697	29	248	224
Aides, orderlies, attendants.....	24,860	21,987	20,591	1,296	3,890	3,451
Diagnostic services						
Medical technologist.....	3,137	2,840	2,363	477	473	431
Laboratory assistants.....	986	898	726	172	156	141
Cytotechnologists.....	151	137	120	17	58	53
Histologic technicians.....	266	243	225	18	66	59
Electrocardiographic technicians.....	464	424	337	87	35	31
Electroencephalographic technicians.....	**	96	79	17	**	28
Therapeutic services						
Occupational therapists.....	254	214	194	20	137	119
Occupational therapy assistants.....	382	314	308	6	146	122
Physical therapists.....	404	371	313	58	156	143
Physical therapy assistants.....	334	306	278	28	64	59
Social workers.....	615	532	486	46	268	230
Social work assistants.....	120	108	99	9	53	48
Recreation therapists.....	284	241	204	37	86	73
Inhalation therapists.....	389	356	245	111	162	147
Speech pathologists and audiologists.....	119	111	81	30	48	44
Radiology						
Radiologic technologists.....	1,416	1,286	1,211	75	195	179
X-ray assistants.....	338	309	285	24	72	67
Radiation therapy technologists.....	**	100	97	3	**	20
Radiation therapy assistants.....	**	18	17	1	**	20
Medical records						
Medical record librarians.....	296	271	242	29	78	70
Medical record assistants.....	471	431	371	60	74	66
Dietary						
Dietitians.....	660	596	529	67	185	166
Food service managers.....	266	236	232	4	49	44
Pharmacy						
Pharmacists.....	532	481	378	103	88	80
Pharmacy assistants.....	261	241	187	54	30	28
All other professional and technical	15,141	13,571	4,725	8,846	913	730
Other hospital personnel—Total.....	.....	50,603	45,155	5,448	.....	.....
Food service workers.....	.....	13,222	10,783	2,439	.....	.....
Laundry.....	.....	3,615	3,436	179	.....	.....
Housekeeping.....	.....	9,009	8,535	474	.....	.....
Maintenance.....	.....	6,254	6,014	240	.....	.....
All other (includes management and all secretarial and clerical).....	.....	18,503	16,387	2,116	.....	.....

\* Estimates, not made for all categories, are based on sample representing 88 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### SOUTH ATLANTIC

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	226,616	206,084	20,532	.....	.....
All professional and technical—Total.....	172,252	137,303	122,946	14,357	34,516	27,822
<b>Nursing service</b>						
Professional nurses.....	46,239	36,862	29,390	7,472	11,433	9,042
LPN's or vocational nurses.....	20,345	15,797	14,345	1,452	5,132	4,058
Surgical technical aide.....	2,844	2,315	2,176	139	567	448
Aides, orderlies, attendants.....	66,567	52,997	50,541	2,456	8,533	6,991
<b>Diagnostic services</b>						
Medical technologist.....	6,994	5,628	4,910	718	1,459	1,180
Laboratory assistants.....	1,772	1,411	1,257	154	383	307
Cytotechnologists.....	257	200	179	21	84	66
Histologic technicians.....	610	499	474	25	110	88
Electrocardiographic technicians.....	788	637	563	74	125	103
Electroencephalographic technicians.....	**	179	163	16	**	64
<b>Therapeutic services</b>						
Occupational therapists.....	405	326	306	20	232	208
Occupational therapy assistants.....	412	322	304	18	185	163
Physical therapists.....	834	700	626	74	315	251
Physical therapy assistants.....	652	537	498	39	128	102
Social workers.....	1,075	884	840	44	468	388
Social work assistants.....	208	156	149	7	41	38
Recreation therapists.....	377	315	303	12	161	148
Inhalation therapists.....	654	533	470	63	292	236
Speech pathologists and audiologists.....	115	103	76	27	79	71
<b>Radiology</b>						
Radiologic technologists.....	3,182	2,551	2,357	194	609	489
X-ray assistants.....	688	552	488	64	103	83
Radiation therapy technologists.....	**	138	134	4	**	27
Radiation therapy assistants.....	**	26	24	2	**	7
<b>Medical records</b>						
Medical record librarians.....	812	635	588	47	237	184
Medical record assistants.....	1,522	1,170	1,055	115	272	208
<b>Dietary</b>						
Dietitians.....	1,553	1,239	1,136	103	454	352
Food service managers.....	743	579	564	15	95	76
<b>Pharmacy</b>						
Pharmacists.....	1,125	916	711	205	233	185
Pharmacy assistants.....	953	787	676	111	148	119
<b>All other professional and technical</b>	10,526	8,309	7,643	666	2,638	2,140
<b>Other hospital personnel—Total.....</b>	.....	89,313	83,138	6,175	.....	.....
Food service workers.....	.....	23,926	21,850	2,076	.....	.....
Laundry.....	.....	5,217	5,101	116	.....	.....
Housekeeping.....	.....	16,137	15,677	460	.....	.....
Maintenance.....	.....	9,901	9,660	241	.....	.....
All other (includes management and all secretarial and clerical).....	.....	34,132	30,850	3,282	.....	.....

\*Estimates for division obtained by addition of state figures adjusted for nonreporting psychiatric hospitals in Delaware and Georgia.

\*\*Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### DELAWARE

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	5,330	4,607	723	.....	.....
All professional and technical—Total.....	3,423	3,126	2,602	524	863	737
<b>Nursing service</b>						
Professional nurses.....	1,077	975	633	342	223	200
LPN's or vocational nurses.....	311	279	258	21	91	78
Surgical technical aide.....	38	35	35	0	9	5
Aides, orderlies, attendants.....	1,187	1,100	1,044	56	318	291
<b>Diagnostic services</b>						
Medical technologist.....	147	132	92	40	21	19
Laboratory assistants.....	36	34	27	7	6	4
Cytotechnologists.....	**	4	4	0	**	1
Histologic technicians.....	**	18	12	6	**	1
Electrocardiographic technicians.....	**	7	6	1	**	3
Electroencephalographic technicians.....	**	7	6	1	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	**	6	5	1	**	2
Occupational therapy assistants.....	**	15	15	0	**	6
Physical therapists.....	44	32	27	5	21	7
Physical therapy assistants.....	**	11	2	9	**	7
Social workers.....	**	15	15	0	**	10
Social work assistants.....	**	8	8	0	**	2
Recreation therapists.....	**	6	5	1	**	1
Inhalation therapists.....	**	15	13	2	**	4
Speech pathologists and audiologists.....	**	5	3	2	**	4
<b>Radiology</b>						
Radiologic technologists.....	62	57	53	4	17	11
X-ray assistants.....	**	16	14	2	**	2
Radiation therapy technologists.....	**	9	9	0	**	0
Radiation therapy assistants.....	**	0	0	0	**	0
<b>Medical records</b>						
Medical record librarians.....	**	14	14	0	**	5
Medical record assistants.....	**	13	13	0	**	2
<b>Dietary</b>						
Dietitians.....	**	23	20	3	**	4
Food service managers.....	**	11	10	1	**	2
<b>Pharmacy</b>						
Pharmacists.....	**	20	19	1	**	4
Pharmacy assistants.....	**	17	14	3	**	3
All other professional and technical	521	242	226	16	157	58
<b>Other hospital personnel—Total.....</b>	.....	2,204	2,005	199	.....	.....
Food service workers.....	.....	448	396	52	.....	.....
Laundry.....	.....	187	183	4	.....	.....
Housekeeping.....	.....	462	440	22	.....	.....
Maintenance.....	.....	264	248	16	.....	.....
All other (includes management and all secretarial and clerical).....	.....	843	738	105	.....	.....

\*Estimates, not made for all categories, are based on sample representing 67 per cent of the average daily census in registered hospitals in this area excluding a 1,618-bed psychiatric hospital from which no questionnaire was received.

\*\*Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### MARYLAND

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	33,841	30,527	3,314	.....	.....
All professional and technical—Total.....	25,746	19,741	17,279	2,462	4,911	3,937
<b>Nursing service</b>						
Professional nurses.....	6,767	4,955	3,510	1,445	1,517	1,157
LPN's or vocational nurses.....	2,852	2,014	1,836	178	699	560
Surgical technical aide.....	356	287	265	22	54	44
Aides, orderlies, attendants.....	9,655	7,850	7,586	264	1,335	1,122
<b>Diagnostic services</b>						
Medical technologist.....	1,088	819	670	149	246	193
Laboratory assistants.....	336	259	233	26	65	53
Cytotechnologists.....	63	46	41	5	23	17
Histologic technicians.....	111	83	75	8	15	12
Electrocardiographic technicians.....	114	85	75	10	16	13
Electroencephalographic technicians.....	* *	21	20	1	* *	9
<b>Therapeutic services</b>						
Occupational therapists.....	106	87	80	7	38	35
Occupational therapy assistants.....	109	91	86	5	15	14
Physical therapists.....	125	104	94	10	49	42
Physical therapy assistants.....	106	89	84	5	18	17
Social workers.....	323	266	242	24	109	92
Social work assistants.....	42	35	33	2	12	11
Recreation therapists.....	96	83	78	5	10	9
Inhalation therapists.....	92	66	59	7	35	27
Speech pathologists and audiologists.....	* *	12	9	3	* *	11
<b>Radiology</b>						
Radiologic technologists.....	453	346	303	43	100	79
X-ray assistants.....	95	75	68	7	11	9
Radiation therapy technologists.....	* *	33	32	1	* *	6
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	86	66	59	7	21	18
Medical record assistants.....	271	208	180	28	53	38
<b>Dietary</b>						
Dietitians.....	209	164	141	23	69	54
Food service managers.....	104	82	81	1	9	8
<b>Pharmacy</b>						
Pharmacists.....	178	141	113	28	29	23
Pharmacy assistants.....	140	114	101	13	14	12
All other professional and technical	1,869	1,260	1,125	135	349	252
<b>Other hospital personnel—Total.....</b>	.....	14,100	13,248	852	.....	.....
Food service workers.....	.....	3,907	3,576	331	.....	.....
Laundry.....	.....	725	706	19	.....	.....
Housekeeping.....	.....	2,564	2,472	92	.....	.....
Maintenance.....	.....	1,902	1,871	31	.....	.....
All other (includes management and all secretarial and clerical).....	.....	5,002	4,623	379	.....	.....

\* Estimates, not made for all categories, are based on sample representing 86 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### DISTRICT OF COLUMBIA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	18,200	16,914	1,286	.....	.....
All professional and technical—Total.....	11,421	10,914	9,888	1,026	2,367	2,305
<b>Nursing service</b>						
Professional nurses.....	2,971	2,801	2,411	390	1,064	1,035
LPN's or vocational nurses.....	1,634	1,538	1,230	308	205	192
Surgical technical aide.....	151	141	107	34	21	20
Aides, orderlies, attendants.....	3,958	3,827	3,740	87	359	352
<b>Diagnostic services</b>						
Medical technologist.....	615	579	489	90	93	86
Laboratory assistants.....	35	33	32	1	11	10
Cytotechnologists.....	**	12	10	2	**	0
Histologic technicians.....	60	58	58	0	3	3
Electrocardiographic technicians.....	43	41	35	6	6	6
Electroencephalographic technicians.....	**	18	18	0	**	5
<b>Therapeutic services</b>						
Occupational therapists.....	63	62	60	2	78	78
Occupational therapy assistants.....	**	21	21	0	**	57
Physical therapists.....	84	80	78	2	24	24
Physical therapy assistants.....	33	32	31	1	5	5
Social workers.....	126	124	121	3	63	63
Social work assistants.....	**	7	7	0	**	0
Recreation therapists.....	29	29	29	0	65	65
Inhalation therapists.....	44	41	39	2	8	8
Speech pathologists and audiologists.....	42	41	37	4	19	19
<b>Radiology</b>						
Radiologic technologists.....	183	173	152	21	20	20
X-ray assistants.....	42	38	36	2	2	2
Radiation therapy assistants.....	**	21	21	0	**	1
Radiation therapy assistants.....	**	2	2	0	**	0
<b>Medical records</b>						
Medical record librarians.....	35	34	33	1	10	8
Medical record assistants.....	47	45	42	3	6	6
<b>Dietary</b>						
Dietitians.....	101	97	94	3	16	15
Food service managers.....	**	19	19	0	**	1
<b>Pharmacy</b>						
Pharmacists.....	84	80	70	10	6	6
Pharmacy assistants.....	59	56	50	6	6	6
<b>All other professional and technical</b>	982	864	816	48	277	212
<b>Other hospital personnel—Total.....</b>	.....	7,286	7,026	260	.....	.....
Food service workers.....	.....	1,827	1,738	89	.....	.....
Laundry.....	.....	455	454	1	.....	.....
Housekeeping.....	.....	1,269	1,261	8	.....	.....
Maintenance.....	.....	993	981	12	.....	.....
All other (includes management and all secretarial and clerical).....	.....	2,742	2,592	150	.....	.....

\* Estimates, not made for all categories, are based on sample representing 98 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### VIRGINIA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	34,845	31,461	3,384	.....	.....
All professional and technical—Total.....	26,147	21,768	19,315	2,453	4,996	4,325
<b>Nursing service</b>						
Professional nurses.....	6,687	5,614	4,371	1,243	1,235	1,047
LPN's or vocational nurses.....	3,161	2,587	2,389	198	750	634
Surgical technical aide.....	363	289	278	11	85	69
Aides, orderlies, attendants.....	10,806	8,989	8,508	481	1,359	1,184
<b>Diagnostic services</b>						
Medical technologist.....	971	812	693	119	183	153
Laboratory assistants.....	214	173	150	23	56	45
Cytotechnologists.....	30	26	26	0	8	7
Histologic technicians.....	77	69	68	1	11	9
Electrocardiographic technicians.....	106	88	70	18	17	14
Electroencephalographic technicians.....		34	28	6		8
<b>Therapeutic services</b>						
Occupational therapists.....	49	44	40	4	15	15
Occupational therapy assistants.....	94	75	68	7	28	25
Physical therapists.....	139	119	101	18	36	32
Physical therapy assistants.....	125	102	97	5	27	24
Social workers.....	127	115	113	2	51	45
Social work assistants.....	36	28	26	2	6	6
Recreation therapists.....	55	51	50	1	31	31
Inhalation therapists.....	71	60	49	11	32	28
Speech pathologists and audiologists.....	**	9	8	1	**	10
<b>Radiology</b>						
Radiologic technologists.....	463	387	349	38	77	65
X-ray assistants.....	98	81	68	13	12	11
Radiation therapy technologists.....	**	11	10	1	**	2
Radiation therapy assistants.....	**	4	4	0	**	0
<b>Medical records</b>						
Medical record librarians.....	127	103	96	7	36	29
Medical record assistants.....	260	202	180	22	39	29
<b>Dietary</b>						
Dietitians.....	229	197	182	15	34	29
Food service managers.....	91	74	70	4	10	9
<b>Pharmacy</b>						
Pharmacists.....	159	136	85	51	30	26
Pharmacy assistants.....	166	133	105	28	42	30
<b>All other professional and technical</b>	1,443	1,156	1,033	123	786	709
<b>Other hospital personnel—Total.....</b>	.....	13,077	12,146	931	.....	.....
Food service workers.....	.....	3,781	3,425	356	.....	.....
Laundry.....	.....	756	745	12	.....	.....
Housekeeping.....	.....	2,278	2,179	99	.....	.....
Maintenance.....	.....	1,603	1,579	24	.....	.....
All other (includes management and all secretarial and clerical).....	.....	4,658	4,218	440	.....	.....

\* Estimates, not made for all categories, are based on sample representing 81 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## WEST VIRGINIA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	13,781	12,581	1,200	.....	.....
All professional and technical—Total.....	11,658	8,458	7,603	855	2,690	1,984
<b>Nursing service</b>						
Professional nurses.....	3,192	2,309	1,834	475	910	666
LPN's or vocational nurses.....	1,416	979	894	85	444	315
Surgical technical aide.....	195	143	135	8	74	54
Aides, orderlies, attendants.....	4,774	3,485	3,353	132	776	586
<b>Diagnostic services</b>						
Medical technologist.....	420	301	280	21	83	60
Laboratory assistants.....	149	107	98	9	24	17
Cytotechnologists.....	**	10	8	2	**	7
Histologic technicians.....	28	20	19	1	8	6
Electrocardiographic technicians.....	69	50	44	6	4	2
Electroencephalographic technicians.....	**	10	9	1	**	4
<b>Therapeutic services</b>						
Occupational therapists.....	**	12	12	0	**	11
Occupational therapy assistants.....	**	8	8	0	**	9
Physical therapists.....	51	38	37	1	30	21
Physical therapy assistants.....	27	20	17	3	8	6
Social workers.....	43	35	33	2	42	34
Social work assistants.....	**	6	6	0	**	2
Recreation therapists.....	**	16	15	1	**	7
Inhalation therapists.....	30	21	18	3	15	10
Speech pathologists and audiologists.....	**	10	7	3	**	5
<b>Radiology</b>						
Radiologic technologists.....	236	169	160	9	35	26
X-ray assistants.....	39	28	27	1	3	2
Radiation therapy technologists.....	**	6	6	0	**	0
Radiation therapy assistants.....	**	0	0	0	**	0
<b>Medical records</b>						
Medical record librarians.....	53	38	35	3	21	13
Medical record assistants.....	76	54	53	1	2	2
<b>Dietary</b>						
Dietitians.....	123	87	81	6	57	40
Food service managers.....	59	39	39	0	3	3
<b>Pharmacy</b>						
Pharmacists.....	54	41	36	5	10	7
Pharmacy assistants.....	50	38	32	6	4	3
All other professional and technical	574	378	307	71	137	66
<b>Other hospital personnel—Total.....</b>	.....	5,323	4,978	345	.....	.....
Food service workers.....	.....	1,459	1,292	167	.....	.....
Laundry.....	.....	420	409	11	.....	.....
Housekeeping.....	.....	902	878	24	.....	.....
Maintenance.....	.....	619	588	31	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,923	1,811	112	.....	.....

\* Estimates, not made for all categories, are based on sample representing 78 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## NORTH CAROLINA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	31,874	29,695	2,179	.....	.....
All professional and technical—Total.....	25,098	19,228	17,743	1,485	4,281	3,157
<b>Nursing service</b>						
Professional nurses.....	6,993	5,143	4,399	744	1,564	1,140
LPN's or vocational nurses.....	2,694	1,947	1,789	158	652	454
Surgical technical aide.....	407	305	295	9	87	59
Aides, orderlies, attendants.....	9,371	7,461	7,147	314	765	578
<b>Diagnostic services</b>						
Medical technologist.....	937	704	657	47	193	149
Laboratory assistants.....	271	208	190	18	45	33
Cytotechnologists.....	54	38	37	1	9	7
Histologic technicians.....	100	73	71	2	8	6
Electrocardiographic technicians.....	69	52	48	4	8	5
Electroencephalographic technicians.....		32	30	2		6
<b>Therapeutic services</b>						
Occupational therapists.....	40	38	37	1	8	7
Occupational therapy assistants.....	54	51	50	1	25	24
Physical therapists.....	127	98	86	12	54	42
Physical therapy assistants.....	93	72	63	9	12	10
Social workers.....	113	103	98	5	76	70
Social work assistants.....	**	6	6	0	**	1
Recreation therapists.....	62	61	59	2	18	18
Inhalation therapists.....	36	26	24	2	45	32
Speech pathologists and audiologists.....	**	9	4	5	**	9
<b>Radiology</b>						
Radiologic technologists.....	500	370	355	15	102	76
X-ray assistants.....	99	74	67	7	11	8
Radiation therapy technologists.....	**	11	11	0	**	9
Radiation therapy assistants.....	**	5	5	0	**	2
<b>Medical records</b>						
Medical record librarians.....	158	114	107	7	45	32
Medical record assistants.....	257	191	177	14	37	30
<b>Dietary</b>						
Dietitians.....	276	210	200	10	90	63
Food service managers.....	149	110	107	3	28	19
<b>Pharmacy</b>						
Pharmacists.....	140	102	78	24	46	34
Pharmacy assistants.....	134	103	91	12	17	13
<b>All other professional and technical</b>	1,964	1,511	1,454	57	336	221
<b>Other hospital personnel—Total.....</b>	.....	12,646	11,952	694	.....	.....
Food service workers.....	.....	3,590	3,220	370	.....	.....
Laundry.....	.....	701	688	13	.....	.....
Housekeeping.....	.....	2,335	2,278	57	.....	.....
Maintenance.....	.....	1,340	1,299	41	.....	.....
All other (includes management and all secretarial and clerical).....	.....	4,680	4,467	213	.....	.....

\* Estimates, not made for all categories, are based on sample representing 86 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## SOUTH CAROLINA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	16,885	14,588	2,297	.....	.....
All professional and technical—Total.....	11,941	9,898	8,942	956	2,831	2,362
<b>Nursing service</b>						
Professional nurses.....	3,193	2,598	2,114	484	1,020	831
LPN's or vocational nurses.....	1,349	1,059	986	73	416	326
Surgical technical aide.....	295	249	246	3	62	51
Aides, orderlies, attendants.....	4,683	3,966	3,728	238	754	672
<b>Diagnostic services</b>						
Medical technologist.....	400	320	287	33	85	71
Laboratory assistants.....	93	77	66	11	30	26
Cytotechnologists.....	**	15	13	2	**	4
Histologic technicians.....	27	21	20	1	2	2
Electrocardiographic technicians.....	43	36	30	6	11	10
Electroencephalographic technicians.....	**	10	10	0	**	2
<b>Therapeutic services</b>						
Occupational therapists.....	**	9	8	1	**	29
Occupational therapy assistants.....	**	10	10	0	**	14
Physical therapists.....	51	42	36	6	16	13
Physical therapy assistants.....	50	42	38	4	7	6
Social workers.....	52	51	50	1	16	15
Social work assistants.....	**	8	8	0	**	3
Recreation therapists.....	**	14	13	1	**	9
Inhalation therapists.....	35	28	25	3	27	21
Speech pathologists and audiologists.....	**	8	1	7	**	3
<b>Radiology</b>						
Radiologic technologists.....	194	160	154	6	24	21
X-ray assistants.....	33	27	23	4	13	13
Radiation therapy technologists.....	**	7	6	1	**	0
Radiation therapy assistants.....	**	2	2	0	**	2
<b>Medical records</b>						
Medical record librarians.....	65	52	49	3	12	11
Medical record assistants.....	103	87	78	9	18	15
<b>Dietary</b>						
Dietitians.....	94	77	71	6	34	27
Food service managers.....	54	45	43	2	5	5
<b>Pharmacy</b>						
Pharmacists.....	69	56	40	16	20	15
Pharmacy assistants.....	68	59	49	10	12	11
All other professional and technical	990	763	738	25	247	134
<b>Other hospital personnel—Total.....</b>	.....	6,987	5,646	1,341	.....	.....
Food service workers.....	.....	1,677	1,524	153	.....	.....
Laundry.....	.....	356	348	8	.....	.....
Housekeeping.....	.....	1,057	1,027	30	.....	.....
Maintenance.....	.....	679	655	24	.....	.....
All other (includes management and all secretarial and clerical).....	.....	3,218	2,092	1,126	.....	.....

\* Estimates, not made for all categories, are based on sample representing 90 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### GEORGIA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	26,666	24,545	2,121	.....	.....
All professional and technical—Total.....	19,174	15,959	14,451	1,508	5,373	4,460
<b>Nursing service</b>						
Professional nurses.....	4,792	3,956	3,271	685	1,921	1,536
LPN's or vocational nurses.....	2,387	1,943	1,827	116	531	429
Surgical technical aide.....	449	372	359	13	53	43
Aides, orderlies, attendants.....	7,196	6,020	5,729	291	1,630	1,413
<b>Diagnostic services</b>						
Medical technologist.....	1,004	827	720	107	210	169
Laboratory assistants.....	207	174	160	14	86	72
Cytotechnologists.....	25	20	17	3	10	8
Histologic technicians.....	83	69	67	2	25	20
Electrocardiographic technicians.....	108	88	79	9	24	20
Electroencephalographic technicians.....	**	18	17	1	**	10
<b>Therapeutic services</b>						
Occupational therapists.....	**	20	19	1	**	12
Occupational therapy assistants.....	**	16	13	3	**	6
Physical therapists.....	76	70	66	4	40	34
Physical therapy assistants.....	75	67	64	3	14	13
Social workers.....	78	72	68	4	34	31
Social work assistants.....	32	28	27	1	9	9
Recreation therapists.....	27	25	25	0	6	6
Inhalation therapists.....	96	76	62	14	41	33
Speech pathologists and audiologists.....	**	4	3	1	**	6
<b>Radiology</b>						
Radiologic technologists.....	443	365	349	16	94	76
X-ray assistants.....	106	86	74	12	19	17
Radiation therapy technologists.....	**	19	19	0	**	4
Radiation therapy assistants.....	**	3	2	1	**	0
<b>Medical records</b>						
Medical record librarians.....	89	74	69	5	27	22
Medical record assistants.....	220	181	160	21	46	38
<b>Dietary</b>						
Dietitians.....	201	172	156	16	77	61
Food service managers.....	120	98	96	2	8	6
<b>Pharmacy</b>						
Pharmacists.....	169	139	107	32	35	28
Pharmacy assistants.....	122	103	89	14	29	25
<b>All other professional and technical</b>	1,069	854	737	117	406	313
<b>Other hospital personnel—Total.....</b>	.....	10,707	10,094	613	.....	.....
Food service workers.....	.....	2,700	2,516	184	.....	.....
Laundry.....	.....	853	812	41	.....	.....
Housekeeping.....	.....	2,161	2,097	64	.....	.....
Maintenance.....	.....	916	899	17	.....	.....
All other (includes management and all secretarial and clerical).....	.....	4,077	3,770	307	.....	.....

\*Estimates, not made for all categories, are based on sample representing 49 per cent of the average daily census in registered hospitals in this area excluding a 12,000-bed psychiatric hospital from which no questionnaire was received.

\*\*Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## FLORIDA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	45,194	41,166	4,028	.....	.....
All professional and technical—Total.....	34,228	28,211	25,123	3,088	5,506	4,556
<b>Nursing service</b>						
Professional nurses.....	10,293	8,511	6,847	1,664	1,754	1,430
LPN's or vocational nurses.....	4,388	3,451	3,136	315	1,306	1,070
Surgical technical aide.....	578	494	455	39	122	103
Aides, orderlies, attendants.....	12,393	10,299	9,706	593	943	793
<b>Diagnostic services</b>						
Medical technologist.....	1,392	1,134	1,022	112	339	280
Laboratory assistants.....	420	346	301	45	56	47
Cytotechnologists.....	34	29	23	6	18	15
Histologic technicians.....	104	88	84	4	33	29
Electrocardiographic technicians.....	225	190	176	14	35	29
Electroencephalographic technicians.....	**	29	25	4	**	19
<b>Therapeutic services</b>						
Occupational therapists.....	72	48	45	3	21	19
Occupational therapy assistants.....	42	35	33	2	8	8
Physical therapists.....	134	117	101	16	43	36
Physical therapy assistants.....	118	102	94	8	17	14
Social workers.....	130	103	100	3	32	28
Social work assistants.....	54	30	28	2	4	4
Recreation therapists.....	31	30	29	1	4	4
Inhalation therapists.....	234	200	181	19	85	73
Speech pathologists and audiologists.....	**	5	4	1	**	4
<b>Radiology</b>						
Radiologic technologists.....	638	524	482	42	136	115
X-ray assistants.....	154	127	111	16	25	19
Radiation therapy technologists.....	**	21	20	1	**	5
Radiation therapy assistants.....	**	10	9	1	**	3
<b>Medical records</b>						
Medical record librarians.....	176	140	126	14	55	46
Medical record assistants.....	257	189	172	17	58	48
<b>Dietary</b>						
Dietitians.....	274	212	191	21	70	59
Food service managers.....	123	101	99	2	28	23
<b>Pharmacy</b>						
Pharmacists.....	243	201	163	38	50	42
Pharmacy assistants.....	188	164	145	19	18	16
<b>All other professional and technical</b>	1,533	1,281	1,215	66	246	175
<b>Other hospital personnel—Total.....</b>	.....	16,983	16,043	940	.....	.....
Food service workers.....	.....	4,537	4,163	374	.....	.....
Laundry.....	.....	763	756	7	.....	.....
Housekeeping.....	.....	3,109	3,045	64	.....	.....
Maintenance.....	.....	1,585	1,540	45	.....	.....
All other (includes management and all secretarial and clerical).....	.....	6,989	6,539	450	.....	.....

\* Estimates, not made for all categories, are based on sample representing 81 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## EAST NORTH CENTRAL

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	356,714	296,550	60,164	.....	.....
All professional and technical—Total.....	273,560	219,300	177,256	42,044	50,769	39,398
<b>Nursing service</b>						
Professional nurses.....	72,455	58,743	37,835	20,908	13,782	11,115
LPN's or vocational nurses.....	26,084	20,841	17,390	3,451	7,201	5,577
Surgical technical aide.....	3,215	2,661	2,336	325	768	627
Aides, orderlies, attendants.....	103,534	82,131	72,203	9,928	16,600	12,494
<b>Diagnostic services</b>						
Medical technologist.....	10,958	8,906	7,004	1,902	1,872	1,523
Laboratory assistants.....	3,212	2,577	1,982	595	622	476
Cytotechnologists.....	291	236	199	37	88	75
Histologic technicians.....	770	631	581	50	107	90
Electrocardiographic technicians.....	1,127	939	797	142	141	117
Electroencephalographic technicians.....	* *	322	281	41	* *	53
<b>Therapeutic services</b>						
Occupational therapists.....	943	730	652	78	401	305
Occupational therapy assistants.....	658	493	455	38	180	131
Physical therapists.....	2,319	1,579	1,122	457	537	432
Physical therapy assistants.....	1,358	1,098	946	152	286	217
Social workers.....	2,241	1,773	1,620	153	1,012	770
Social work assistants.....	170	140	116	24	72	63
Recreation therapists.....	1,166	847	794	53	525	311
Inhalation therapists.....	1,314	1,085	904	181	535	445
Speech pathologists and audiologists.....	241	168	126	42	127	80
<b>Radiology</b>						
Radiologic technologists.....	4,831	3,909	3,468	441	741	601
X-ray assistants.....	1,286	1,037	854	183	149	120
Radiation therapy technologists.....	* *	172	159	13	* *	43
Radiation therapy assistants.....	* *	23	21	2	* *	6
<b>Medical records</b>						
Medical record librarians.....	1,217	962	826	136	319	254
Medical record assistants.....	2,028	1,652	1,340	312	284	223
<b>Dietary</b>						
Dietitians.....	2,284	1,851	1,498	353	627	498
Food service managers.....	1,162	863	830	33	214	152
<b>Pharmacy</b>						
Pharmacists.....	2,005	1,626	1,234	392	413	331
Pharmacy assistants.....	1,140	941	676	265	140	115
All other professional and technical	25,551	20,364	19,007	1,357	3,026	2,154
<b>Other hospital personnel—Total.....</b>	.....	137,414	119,294	18,120	.....	.....
Food service workers.....	.....	37,512	29,361	8,151	.....	.....
Laundry.....	.....	11,542	10,754	788	.....	.....
Housekeeping.....	.....	24,877	22,973	1,904	.....	.....
Maintenance.....	.....	15,068	14,393	675	.....	.....
All other (includes management and all secretarial and clerical).....	.....	48,415	41,813	6,602	.....	.....

\*Estimates for division obtained by addition of state figures.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

See Introduction for methodology and for explanation of terms

## OHIO

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	87,379	74,003	13,376	.....	.....
All professional and technical—Total.....	62,582	52,766	43,228	9,538	9,214	7,832
<b>Nursing service</b>						
Professional nurses.....	18,275	15,183	9,930	5,253	3,031	2,536
LPN's or vocational nurses.....	7,909	6,609	5,549	1,060	1,329	1,114
Surgical technical aide.....	747	617	545	72	185	151
Aides, orderlies, attendants.....	22,444	19,245	17,680	1,565	2,516	2,189
<b>Diagnostic services</b>						
Medical technologist.....	2,651	2,208	1,671	537	407	339
Laboratory assistants.....	785	658	505	153	108	92
Cytotechnologists.....	74	61	52	9	20	18
Histologic technicians.....	182	151	138	13	17	15
Electrocardiographic technicians.....	258	215	186	29	28	24
Electroencephalographic technicians.....	* *	81	69	12	* *	9
<b>Therapeutic services</b>						
Occupational therapists.....	152	134	118	16	74	68
Occupational therapy assistants.....	153	138	135	3	32	29
Physical therapists.....	334	279	231	48	111	96
Physical therapy assistants.....	322	264	238	26	21	18
Social workers.....	493	433	388	45	221	196
Social work assistants.....	44	39	37	2	20	18
Recreation therapists.....	234	210	203	7	38	33
Inhalation therapists.....	280	225	198	27	65	55
Speech pathologists and audiologists.....	29	26	14	12	12	11
<b>Radiology</b>						
Radiologic technologists.....	1,169	974	851	123	129	110
X-ray assistants.....	279	230	205	25	16	14
Radiation therapy technologists.....	* *	50	46	4	* *	4
Radiation therapy assistants.....	* *	3	3	0	* *	0
<b>Medical records</b>						
Medical record librarians.....	217	182	162	20	67	57
Medical record assistants.....	574	483	421	62	40	35
<b>Dietary</b>						
Dietitians.....	572	480	405	75	136	116
Food service managers.....	323	237	224	13	43	38
<b>Pharmacy</b>						
Pharmacists.....	394	329	274	55	63	54
Pharmacy assistants.....	299	249	200	49	35	29
<b>All other professional and technical</b>	3,389	2,773	2,550	223	450	364
<b>Other hospital personnel—Total.....</b>	.....	34,613	30,775	3,838	.....	.....
Food service workers.....	.....	9,377	7,770	1,607	.....	.....
Laundry.....	.....	2,863	2,740	123	.....	.....
Housekeeping.....	.....	6,469	6,144	325	.....	.....
Maintenance.....	.....	3,776	3,639	137	.....	.....
All other (includes management and all secretarial and clerical).....	.....	12,128	10,482	1,646	.....	.....

\* Estimates, not made for all categories, are based on sample representing 87 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### INDIANA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	37,884	31,659	6,225	.....	.....
All professional and technical—Total.....	32,794	23,387	19,119	4,268	4,638	3,453
<b>Nursing service</b>						
Professional nurses.....	8,954	6,463	4,280	2,183	1,423	1,014
LPN's or vocational nurses.....	2,527	1,914	1,660	254	645	500
Surgical technical aide.....	454	367	340	27	111	80
Aides, orderlies, attendants.....	14,458	9,992	8,899	1,093	1,343	1,048
<b>Diagnostic services</b>						
Medical technologist.....	1,392	1,026	813	213	229	168
Laboratory assistants.....	409	287	219	68	62	38
Cytotechnologists.....	39	26	23	3	6	5
Histologic technicians.....	61	45	42	3	6	4
Electrocardiographic technicians.....	102	76	68	8	11	10
Electroencephalographic technicians.....	* *	30	30	0	* *	4
<b>Therapeutic services</b>						
Occupational therapists.....	62	40	33	7	31	22
Occupational therapy assistants.....	67	50	46	4	12	9
Physical therapists.....	140	100	82	18	45	32
Physical therapy assistants.....	171	135	122	13	16	13
Social workers.....	164	118	113	5	74	54
Social work assistants.....	* *	7	7	0	* *	3
Recreation therapists.....	150	109	102	7	29	23
Inhalation therapists.....	167	134	120	14	57	44
Speech pathologists and audiologists.....	* *	7	5	2	* *	6
<b>Radiology</b>						
Radiologic technologists.....	682	483	423	60	87	65
X-ray assistants.....	208	152	133	19	14	10
Radiation therapy technologists.....	* *	15	13	2	* *	5
Radiation therapy assistants.....	* *	3	2	1	* *	1
<b>Medical records</b>						
Medical record librarians.....	185	119	104	15	37	24
Medical record assistants.....	348	263	219	44	36	25
<b>Dietary</b>						
Dietitians.....	251	180	147	33	82	53
Food service managers.....	196	122	117	5	27	17
<b>Pharmacy</b>						
Pharmacists.....	257	179	127	52	48	36
Pharmacy assistants.....	156	120	92	28	8	6
All other professional and technical	1,194	825	738	87	199	134
<b>Other hospital personnel—Total.....</b>	.....	14,497	12,540	1,957	.....	.....
Food service workers.....	.....	3,978	3,093	885	.....	.....
Laundry.....	.....	1,204	1,084	120	.....	.....
Housekeeping.....	.....	2,586	2,351	235	.....	.....
Maintenance.....	.....	1,735	1,629	106	.....	.....
All other (includes management and all secretarial and clerical).....	.....	4,994	4,383	611	.....	.....

\* Estimates, not made for all categories, are based on sample representing 71 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

See Introduction for methodology and for explanation of terms

## ILLINOIS

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	119,874	102,069	17,805	.....	.....
All professional and technical—Total.....	95,286	74,088	62,194	11,894	18,338	12,619
Nursing service						
Professional nurses.....	23,569	19,003	12,734	6,269	4,462	3,460
LPN's or vocational nurses.....	6,393	4,677	4,225	452	2,548	1,721
Surgical technical aide.....	914	757	713	44	202	169
Aides, orderlies, attendants.....	32,808	24,811	21,926	2,885	6,349	3,966
Diagnostic services						
Medical technologist.....	3,696	2,975	2,410	565	536	423
Laboratory assistants.....	1,008	794	613	181	261	188
Cytotechnologists.....	94	79	64	15	26	20
Histologic technicians.....	274	225	208	17	46	38
Electrocardiographic technicians.....	394	328	278	50	50	41
Electroencephalographic technicians.....	* *	95	78	17	* *	21
Therapeutic services						
Occupational therapists.....	297	200	191	9	125	78
Occupational therapy assistants.....	281	182	169	13	52	27
Physical therapists.....	1,355	782	515	267	190	141
Physical therapy assistants.....	445	345	302	43	125	78
Social workers.....	929	687	659	28	439	293
Social work assistants.....	50	35	32	3	35	30
Recreation therapists.....	546	335	332	3	324	142
Inhalation therapists.....	531	445	385	60	223	184
Speech pathologists and audiologists.....	119	65	52	13	72	35
Radiology						
Radiologic technologists.....	1,533	1,239	1,127	112	234	187
X-ray assistants.....	399	326	257	69	49	38
Radiation therapy technologists.....	* *	53	48	5	* *	10
Radiation therapy assistants.....	* *	9	9	0	* *	2
Medical records						
Medical record librarians.....	413	326	291	35	97	74
Medical record assistants.....	512	410	349	61	129	98
Dietary						
Dietitians.....	772	611	508	103	198	152
Food service managers.....	282	207	200	7	83	47
Pharmacy						
Pharmacists.....	614	503	411	92	126	94
Pharmacy assistants.....	387	320	220	100	45	36
All other professional and technical	16,671	13,264	12,888	376	1,312	826
Other hospital personnel—Total.....	.....	45,786	39,875	5,911	.....	.....
Food service workers.....	.....	12,182	9,477	2,705	.....	.....
Laundry.....	.....	4,256	4,040	216	.....	.....
Housekeeping.....	.....	7,614	7,033	581	.....	.....
Maintenance.....	.....	5,256	5,014	242	.....	.....
All other (includes management and all secretarial and clerical).....	.....	16,478	14,311	2,167	.....	.....

\* Estimates, not made for all categories, are based on sample representing 78 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### MICHIGAN

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	72,343	60,792	11,551	.....	.....
All professional and technical—Total.....	54,602	44,684	36,043	8,641	13,125	10,833
<b>Nursing service</b>						
Professional nurses.....	13,526	10,956	6,870	4,086	3,250	2,691
LPN's or vocational nurses.....	6,905	5,605	4,535	1,070	1,853	1,522
Surgical technical aide.....	764	622	523	99	171	140
Aides, orderlies, attendants.....	21,644	17,815	16,107	1,708	4,703	3,896
<b>Diagnostic services</b>						
Medical technologist.....	2,104	1,712	1,387	325	414	341
Laboratory assistants.....	707	570	453	117	133	108
Cytotechnologists.....	56	45	40	5	24	23
Histologic technicians.....	172	138	127	11	22	19
Electrocardiographic technicians.....	264	224	197	27	41	32
Electroencephalographic technicians.....	* *	77	71	6	* *	16
<b>Therapeutic services</b>						
Occupational therapists.....	325	269	242	27	145	116
Occupational therapy assistants.....	81	65	61	4	54	43
Physical therapists.....	285	234	176	58	116	98
Physical therapy assistants.....	276	229	196	33	57	49
Social workers.....	506	412	347	65	222	182
Social work assistants.....	49	42	30	12	11	9
Recreation therapists.....	194	158	129	29	117	100
Inhalation therapists.....	195	156	129	27	118	97
Speech pathologists and audiologists.....	61	53	45	8	24	22
<b>Radiology</b>						
Radiologic technologists.....	917	747	679	68	223	179
X-ray assistants.....	298	241	199	42	49	41
Radiation therapy technologists.....	* *	38	37	1	* *	21
Radiation therapy assistants.....	* *	5	4	1	* *	3
<b>Medical records</b>						
Medical record librarians.....	235	189	157	32	74	61
Medical record assistants.....	414	337	252	85	53	42
<b>Dietary</b>						
Dietitians.....	398	327	265	62	146	121
Food service managers.....	225	180	178	2	42	34
<b>Pharmacy</b>						
Pharmacists.....	508	412	283	129	112	91
Pharmacy assistants.....	196	160	115	45	32	27
<b>All other professional and technical</b>	3,297	2,666	2,209	457	916	709
<b>Other hospital personnel—Total.....</b>	.....	27,658	24,749	2,909	.....	.....
Food service workers.....	.....	7,514	6,188	1,326	.....	.....
Laundry.....	.....	2,033	1,950	83	.....	.....
Housekeeping.....	.....	5,364	5,087	277	.....	.....
Maintenance.....	.....	2,927	2,832	95	.....	.....
All other (includes management and all secretarial and clerical).....	.....	9,820	8,692	1,128	.....	.....

\* Estimates, not made for all categories, are based on sample representing 83 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### WISCONSIN

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	39,234	28,027	11,207	.....	.....
All professional and technical—Total.....	28,296	24,374	16,672	7,702	5,454	4,661
<b>Nursing service</b>						
Professional nurses.....	8,131	7,138	4,021	3,117	1,616	1,414
LPN's or vocational nurses.....	2,350	2,036	1,421	615	826	720
Surgical technical aide.....	336	298	215	83	99	87
Aides, orderlies, attendants.....	12,180	10,268	7,591	2,677	1,689	1,395
<b>Diagnostic services</b>						
Medical technologist.....	1,115	985	723	262	286	252
Laboratory assistants.....	303	268	192	76	58	50
Cytotechnologists.....	28	25	20	5	9	9
Histologic technicians.....	81	72	66	6	16	14
Electrocardiographic technicians.....	109	96	68	28	11	10
Electroencephalographic technicians.....	**	39	33	6	**	3
<b>Therapeutic services</b>						
Occupational therapists.....	107	87	68	19	26	21
Occupational therapy assistants.....	76	58	44	14	30	23
Physical therapists.....	205	184	118	66	75	65
Physical therapy assistants.....	144	125	88	37	67	59
Social workers.....	149	123	113	10	56	45
Social work assistants.....	**	17	10	7	**	3
Recreation therapists.....	42	34	28	6	17	13
Inhalation therapists.....	141	125	72	53	72	65
Speech pathologists and audiologists.....	**	17	10	7	**	6
<b>Radiology</b>						
Radiologic technologists.....	530	466	388	78	68	60
X-ray assistants.....	102	88	60	28	21	17
Radiation therapy technologists.....	**	16	15	1	**	3
Radiation therapy assistants.....	**	3	3	0	**	0
<b>Medical records</b>						
Medical record librarians.....	167	146	112	34	44	38
Medical record assistants.....	180	159	99	60	26	23
<b>Dietary</b>						
Dietitians.....	291	253	173	80	65	56
Food service managers.....	136	117	111	6	19	16
<b>Pharmacy</b>						
Pharmacists.....	232	203	139	64	64	56
Pharmacy assistants.....	102	92	49	43	20	17
All other professional and technical	1,059	836	622	214	174	121
<b>Other hospital personnel—Total.....</b>	.....	14,860	11,355	3,505	.....	.....
Food service workers.....	.....	4,461	2,833	1,628	.....	.....
Laundry.....	.....	1,186	940	246	.....	.....
Housekeeping.....	.....	2,844	2,358	486	.....	.....
Maintenance.....	.....	1,374	1,279	95	.....	.....
All other (includes management and all secretarial and clerical).....	.....	4,995	3,945	1,050	.....	.....

\* Estimates, not made for all categories, are based on sample representing 81 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### EAST SOUTH CENTRAL

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	89,327	81,237	8,090	.....	.....
All professional and technical—Total.....	69,672	54,672	49,429	5,243	15,892	13,016
<b>Nursing service</b>						
Professional nurses.....	15,024	11,527	9,360	2,167	4,213	3,266
LPN's or vocational nurses.....	10,062	7,452	6,947	505	3,102	2,471
Surgical technical aide.....	1,325	1,036	970	66	331	260
Aides, orderlies, attendants.....	27,125	22,012	21,016	996	4,500	4,040
<b>Diagnostic services</b>						
Medical technologist.....	2,916	2,242	1,889	353	600	461
Laboratory assistants.....	862	610	499	111	164	122
Cytotechnologists.....	94	74	70	4	26	20
Histologic technicians.....	278	234	226	8	40	32
Electrocardiographic technicians.....	313	241	215	26	48	46
Electroencephalographic technicians.....	**	58	54	4	**	10
<b>Therapeutic services</b>						
Occupational therapists.....	98	86	78	8	71	55
Occupational therapy assistants.....	145	138	129	9	58	50
Physical therapists.....	283	218	182	36	141	108
Physical therapy assistants.....	268	213	192	21	69	56
Social workers.....	388	334	283	51	168	152
Social work assistants.....	78	71	57	14	41	34
Recreation therapists.....	118	109	96	13	53	50
Inhalation therapists.....	366	281	266	15	149	108
Speech pathologists and audicologists.....	**	15	13	2	**	9
<b>Radiology</b>						
Radiologic technologists.....	1,377	1,050	977	73	246	195
X-ray assistants.....	459	340	305	35	55	44
Radiation therapy technologists.....	**	35	35	0	**	12
Radiation therapy assistants.....	**	6	6	0	**	10
<b>Medical records</b>						
Medical record librarians.....	438	321	279	42	136	102
Medical record assistants.....	723	572	508	64	118	93
<b>Dietary</b>						
Dietitians.....	735	570	517	53	226	176
Food service managers.....	474	350	332	18	44	33
<b>Pharmacy</b>						
Pharmacists.....	473	364	299	65	119	94
Pharmacy assistants.....	390	309	238	71	50	43
All other professional and technical	4,860	3,804	3,391	413	1,124	864
<b>Other hospital personnel—Total.....</b>	.....	34,655	31,808	2,847	.....	.....
Food service workers.....	.....	9,817	8,077	1,740	.....	.....
Laundry.....	.....	2,306	2,232	74	.....	.....
Housekeeping.....	.....	6,409	6,240	169	.....	.....
Maintenance.....	.....	3,550	3,451	99	.....	.....
All other (includes management and all secretarial and clerical).....	.....	12,573	11,808	765	.....	.....

\*Estimates for division obtained by addition of state figures.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## KENTUCKY

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	25,422	21,972	3,450	.....	.....
All professional and technical—Total.....	17,987	14,918	13,039	1,879	3,254	2,720
<b>Nursing service</b>						
Professional nurses.....	4,382	3,534	2,701	833	829	665
LPN's or vocational nurses.....	1,894	1,539	1,396	143	1,010	834
Surgical technical aide.....	296	249	233	16	53	49
Aides, orderlies, attendants.....	7,332	6,156	5,761	395	630	551
<b>Diagnostic services</b>						
Medical technologist.....	812	667	527	140	98	83
Laboratory assistants.....	204	166	132	34	45	37
Cytotechnologists.....	**	20	19	1	**	3
Histologic technicians.....	122	115	114	1	4	4
Electrocardiographic technicians.....	95	77	64	13	13	17
Electroencephalographic technicians.....	**	13	12	1	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	29	26	23	3	15	12
Occupational therapy assistants.....	29	28	20	8	12	11
Physical therapists.....	70	57	42	15	26	21
Physical therapy assistants.....	58	46	39	7	15	13
Social workers.....	148	126	103	23	40	39
Social work assistants.....	**	18	17	1	**	10
Recreation therapists.....	29	26	17	9	7	6
Inhalation therapists.....	64	55	54	1	32	27
Speech pathologists and audiologists.....	**	3	3	0	**	1
<b>Radiology</b>						
Radiologic technologists.....	374	305	282	23	52	45
X-ray assistants.....	92	74	69	5	20	18
Radiation therapy technologists.....	**	9	9	0	**	0
Radiation therapy assistants.....	**	3	3	0	**	0
<b>Medical records</b>						
Medical record librarians.....	125	92	85	7	28	23
Medical record assistants.....	235	199	176	23	22	20
<b>Dietary</b>						
Dietitians.....	196	162	139	23	53	45
Food service managers.....	106	82	79	3	8	7
<b>Pharmacy</b>						
Pharmacists.....	112	95	77	18	29	25
Pharmacy assistants.....	104	88	71	17	16	14
<b>All other professional and technical</b>	1,079	888	772	116	197	136
<b>Other hospital personnel—Total.....</b>	.....	10,504	8,933	1,571	.....	.....
Food service workers.....	.....	3,384	2,169	1,215	.....	.....
Laundry.....	.....	662	633	29	.....	.....
Housekeeping.....	.....	1,697	1,646	51	.....	.....
Maintenance.....	.....	901	878	23	.....	.....
All other (includes management and all secretarial and clerical).....	.....	3,860	3,607	253	.....	.....

\* Estimates, not made for all categories, are based on sample representing 86 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## TENNESSEE

CATEGORY OF PERSONNEL	PRESENT STAFF*				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	29,360	26,992	2,368	.....	.....
All professional and technical—Total.....	23,613	18,358	16,728	1,630	5,346	4,366
<b>Nursing service</b>						
Professional nurses.....	4,473	3,410	2,811	599	1,608	1,275
LPN's or vocational nurses.....	4,040	2,987	2,769	218	923	728
Surgical technical aide.....	497	383	361	22	135	108
Aides, orderlies, attendants.....	5,814	7,139	6,907	232	1,305	1,130
<b>Diagnostic services</b>						
Medical technologist.....	1,034	792	677	115	249	194
Laboratory assistants.....	312	198	162	36	51	39
Cytotechnologists.....	44	33	31	2	16	12
Histologic technicians.....	83	64	61	3	22	17
Electrocardiographic technicians.....	101	76	68	8	17	15
Electroencephalographic technicians.....	**	22	20	2	**	2
<b>Therapeutic services</b>						
Occupational therapists.....	37	32	29	3	25	20
Occupational therapy assistants.....	37	34	33	1	22	20
Physical therapists.....	113	87	77	10	45	36
Physical therapy assistants.....	121	93	83	10	29	23
Social workers.....	131	110	102	8	60	56
Social work assistants.....	26	23	23	0	4	4
Recreation therapists.....	43	38	37	1	21	20
Inhalation therapists.....	218	167	158	9	62	43
Speech pathologists and audiologists.....	**	6	5	1	**	2
<b>Radiology</b>						
Radiologic technologists.....	455	341	316	25	82	65
X-ray assistants.....	130	95	88	7	11	9
Radiation therapy technologists.....	**	10	10	0	**	9
Radiation therapy assistants.....	**	2	2	0	**	1
<b>Medical records</b>						
Medical record librarians.....	130	100	83	17	44	32
Medical record assistants.....	245	190	174	16	46	37
<b>Dietary</b>						
Dietitians.....	239	183	173	10	69	55
Food service managers.....	170	127	115	12	16	12
<b>Pharmacy</b>						
Pharmacists.....	185	138	103	35	34	27
Pharmacy assistants.....	114	88	62	26	111	10
All other professional and technical	1,821	1,390	1,188	202	439	365
<b>Other hospital personnel—Total.....</b>	.....	11,002	10,264	738	.....	.....
Food service workers.....	.....	2,898	2,582	316	.....	.....
Laundry.....	.....	765	742	23	.....	.....
Housekeeping.....	.....	2,144	2,070	74	.....	.....
Maintenance.....	.....	1,169	1,131	38	.....	.....
All other (includes management and all secretarial and clerical).....	.....	4,026	3,739	287	.....	.....

\* Estimates, not made for all categories, are based on sample representing 87 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## ALABAMA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL.....</b>	.....	23,092	21,371	1,721	.....	.....
<b>All professional and technical—Total.....</b>	18,255	14,104	12,812	1,292	3,783	2,911
<b>Nursing service</b>						
Professional nurses.....	4,099	3,126	2,597	529	1,105	806
LPN's or vocational nurses.....	2,641	1,917	1,804	113	631	470
Surgical technical aide.....	364	284	257	27	83	59
Aides, orderlies, attendants.....	6,846	5,448	5,185	263	923	784
<b>Diagnostic services</b>						
Medical technologist.....	688	515	433	82	154	114
Laboratory assistants.....	284	207	170	37	41	29
Cytotechnologists.....	* *	15	14	1	* *	3
Histologic technicians.....	45	34	31	2	5	4
Electrocardiographic technicians.....	83	63	58	5	9	7
Electroencephalographic technicians.....	* *	17	16	1	* *	4
<b>Therapeutic services</b>						
Occupational therapists.....	* *	16	14	2	* *	12
Occupational therapy assistants.....	29	26	26	0	6	5
Physical therapists.....	62	47	39	8	49	36
Physical therapy assistants.....	65	54	51	3	17	14
Social workers.....	71	63	45	18	42	33
Social work assistants.....	25	25	12	13	5	5
Recreation therapists.....	* *	21	18	3	* *	17
Inhalation therapists.....	52	38	35	3	30	21
Speech pathologists and audiologists.....	* *	4	4	0	* *	5
<b>Radiology</b>						
Radiologic technologists.....	353	263	240	23	56	44
X-ray assistants.....	173	129	111	18	13	10
Radiation therapy technologists.....	* *	13	13	0	* *	1
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	113	82	68	14	45	34
Medical record assistants.....	168	133	111	22	42	30
<b>Dietary</b>						
Dietitians.....	200	153	138	15	64	47
Food service managers.....	112	83	80	3	15	11
<b>Pharmacy</b>						
Pharmacists.....	115	88	81	7	40	29
Pharmacy assistants.....	117	91	71	20	21	17
<b>All other professional and technical</b>	1,550	1,149	1,090	59	387	260
<b>Other hospital personnel—Total.....</b>	.....	8,988	8,559	429	.....	.....
Food service workers.....	.....	2,322	2,160	162	.....	.....
Laundry.....	.....	587	568	19	.....	.....
Housekeeping.....	.....	1,718	1,692	26	.....	.....
Maintenance.....	.....	985	959	26	.....	.....
All other (includes management and all secretarial and clerical).....	.....	3,376	3,180	196	.....	.....

\* Estimates, not made for all categories, are based on sample representing 89 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### MISSISSIPPI

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	11,453	10,902	551	.....	.....
All professional and technical—Total.....	9,817	7,292	6,850	442	3,509	3,019
<b>Nursing service</b>						
Professional nurses.....	2,070	1,457	1,251	206	671	520
LPN's or vocational nurses.....	1,487	1,009	978	81	538	439
Surgical technical aide.....	168	120	119	1	60	44
Aides, orderlies, attendants.....	4,133	3,269	3,163	106	1,642	1,575
<b>Diagnostic services</b>						
Medical technologist.....	382	268	252	16	99	70
Laboratory assistants.....	62	39	85	4	27	17
Cytotechnologists.....	**	6	6	0	**	2
Histologic technicians.....	28	21	20	1	9	7
Electrocardiographic technicians.....	34	25	25	0	9	7
Electroencephalographic technicians.....	**	6	6	0	**	3
<b>Therapeutic services</b>						
Occupational therapists.....	**	12	12	0	**	11
Occupational therapy assistants.....	50	50	50	0	18	14
Physical therapists.....	38	27	24	3	21	15
Physical therapy assistants.....	**	20	19	1	**	6
Social workers.....	38	35	33	2	26	24
Social work assistants.....	**	5	5	0	**	15
Recreation therapists.....	**	24	24	0	**	7
Inhalation therapists.....	32	21	19	2	25	17
Speech pathologists and audiologists.....	**	2	1	1	**	1
<b>Radiology</b>						
Radiologic technologists.....	195	141	139	2	56	41
X-ray assistants.....	64	42	37	5	11	7
Radiation therapy technologists.....	**	3	3	0	**	2
Radiation therapy assistants.....	**	1	1	0	**	6
<b>Medical records</b>						
Medical record librarians.....	70	47	43	4	19	13
Medical record assistants.....	75	50	47	3	8	6
<b>Dietary</b>						
Dietitians.....	100	72	67	5	40	29
Food service managers.....	86	58	58	0	5	3
<b>Pharmacy</b>						
Pharmacists.....	61	43	38	5	16	13
Pharmacy assistants.....	55	42	34	8	2	2
<b>All other professional and technical</b>	589	377	341	36	207	103
<b>Other hospital personnel—Total.....</b>	.....	4,161	4,052	109	.....	.....
Food service workers.....	.....	1,213	1,166	47	.....	.....
Laundry.....	.....	292	289	3	.....	.....
Housekeeping.....	.....	850	832	18	.....	.....
Maintenance.....	.....	495	483	12	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,311	1,282	29	.....	.....

\* Estimates, not made for all categories, are based on sample representing 85 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## WEST NORTH CENTRAL

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL</b> .....	.....	159,460	126,894	32,566	.....	.....
<b>All professional and technical—Total</b> .....	115,743	98,636	76,738	21,898	21,419	18,587
<b>Nursing service</b>						
Professional nurses.....	31,594	27,085	18,031	9,054	5,960	5,116
LPN's or vocational nurses.....	11,479	9,802	8,111	1,691	3,246	2,742
Surgical technical aide.....	1,842	1,574	1,329	245	311	275
Aides, orderlies, attendants.....	47,424	40,191	33,285	6,906	6,846	6,116
<b>Diagnostic services</b>						
Medical technologist.....	4,271	3,615	2,775	840	638	549
Laboratory assistants.....	1,404	1,170	807	363	166	144
Cytotechnologists.....	102	84	77	7	31	28
Histologic technicians.....	259	222	203	19	43	39
Electrocardiographic technicians.....	439	373	286	87	51	45
Electroencephalographic technicians.....	**	136	106	30	**	38
<b>Therapeutic services</b>						
Occupational therapists.....	381	328	303	25	233	202
Occupational therapy assistants.....	339	293	224	69	110	100
Physical therapists.....	662	572	429	143	275	229
Physical therapy assistants.....	556	478	383	95	96	81
Social workers.....	865	694	533	161	325	286
Social work assistants.....	118	95	72	23	27	25
Recreation therapists.....	383	330	274	56	125	108
Inhalation therapists.....	387	325	263	62	157	131
Speech pathologists and audiologists.....	93	78	64	14	34	30
<b>Radiology</b>						
Radiologic technologists.....	1,938	1,643	1,425	218	248	197
X-ray assistants.....	470	402	290	112	57	50
Radiation therapy technologists.....	**	52	48	4	**	12
Radiation therapy assistants.....	**	15	11	4	**	3
<b>Medical records</b>						
Medical record librarians.....	645	544	417	127	195	163
Medical record assistants.....	818	688	540	148	143	118
<b>Dietary</b>						
Dietitians.....	1,160	980	724	256	399	335
Food service managers.....	653	554	475	79	76	68
<b>Pharmacy</b>						
Pharmacists.....	781	678	508	170	175	149
Pharmacy assistants.....	473	405	248	157	70	62
<b>All other professional and technical</b>	6,207	5,230	4,497	733	1,382	1,146
<b>Other hospital personnel—Total</b> .....	.....	60,824	50,156	10,668	.....	.....
Food service workers.....	.....	17,472	12,588	4,884	.....	.....
Laundry.....	.....	5,140	4,468	672	.....	.....
Housekeeping.....	.....	10,865	9,540	1,325	.....	.....
Maintenance.....	.....	6,484	6,134	350	.....	.....
All other (includes management and all secretarial and clerical).....	.....	20,863	17,426	3,437	.....	.....

\*Estimates for division obtained by addition of state figures.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### MINNESOTA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL</b> .....	.....	41,752	30,576	11,176	.....	.....
<b>All professional and technical—Total</b> .....	28,598	26,819	19,338	7,481	6,746	6,420
<b>Nursing service</b>						
Professional nurses.....	9,203	8,692	5,620	3,072	1,674	1,581
LPN's or vocational nurses.....	3,527	3,340	2,380	960	807	762
Surgical technical aide.....	349	334	293	41	110	106
Aides, orderlies, attendants.....	9,988	9,247	7,058	2,189	2,707	2,602
<b>Diagnostic services</b>						
Medical technologist.....	1,059	999	716	283	161	151
Laboratory assistants.....	346	330	227	103	45	44
Cytotechnologists.....	**	22	20	2	**	12
Histologic technicians.....	51	49	47	2	16	16
Electrocardiographic technicians.....	88	84	50	34	11	11
Electroencephalographic technicians.....	**	49	36	13	**	16
<b>Therapeutic services</b>						
Occupational therapists.....	123	114	106	8	93	89
Occupational therapy assistants.....	70	66	45	21	36	35
Physical therapists.....	170	161	118	43	87	82
Physical therapy assistants.....	145	140	110	30	35	34
Social workers.....	200	174	125	49	65	61
Social work assistants.....	**	6	4	2	**	5
Recreation therapists.....	100	88	67	21	37	34
Inhalation therapists.....	53	51	40	11	21	20
Speech pathologists and audiologists.....	**	13	12	1	**	14
<b>Radiology</b>						
Radiologic technologists.....	489	460	384	76	53	50
X-ray assistants.....	102	96	62	34	10	10
Radiation therapy technologists.....	**	18	17	1	**	4
Radiation therapy assistants.....	**	3	3	0	**	0
<b>Medical records</b>						
Medical record librarians.....	151	141	91	50	53	50
Medical record assistants.....	112	103	70	33	29	27
<b>Dietary</b>						
Dietitians.....	302	285	197	88	109	102
Food service managers.....	167	153	134	19	24	24
<b>Pharmacy</b>						
Pharmacists.....	186	176	136	40	41	39
Pharmacy assistants.....	54	52	29	23	14	14
<b>All other professional and technical</b>	1,563	1,373	1,141	232	508	425
<b>Other hospital personnel—Total</b> .....	.....	14,933	11,238	3,695	.....	.....
Food service workers.....	.....	4,293	2,668	1,625	.....	.....
Laundry.....	.....	1,122	922	200	.....	.....
Housekeeping.....	.....	1,449	1,376	73	.....	.....
Maintenance.....	.....	5,037	3,780	1,257	.....	.....
All other (includes management and all secretarial and clerical).....	.....	663	646	17	.....	.....

\* Estimates, not made for all categories, are based on sample representing 83 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## IOWA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL</b> .....	.....	25,744	19,727	6,017	.....	.....
<b>Professional and technical—Total</b> .....	18,783	15,115	11,086	4,029	2,940	2,441
<b>Nursing service</b>						
Professional nurses.....	5,584	4,584	2,816	1,768	828	676
LPN's or vocational nurses.....	1,311	1,063	855	208	448	359
Surgical technical aide.....	432	365	275	90	61	52
Aides, orderlies, attendants.....	7,910	6,252	4,942	1,310	979	845
<b>Diagnostic services</b>						
Medical technologist.....	631	517	412	105	75	64
Laboratory assistants.....	146	118	82	36	22	17
Cytotechnologists.....	**	11	9	2	**	1
Histologic technicians.....	25	22	20	2	3	3
Electrocardiographic technicians.....	44	36	28	8	3	3
Electroencephalographic technicians.....	**	19	17	2	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	61	44	42	2	28	19
Occupational therapy assistants.....	65	43	31	12	3	2
Physical therapists.....	122	101	76	25	34	28
Physical therapy assistants.....	112	95	78	17	10	9
Social workers.....	143	106	82	24	61	50
Social work assistants.....	26	17	12	5	2	2
Recreation therapists.....	68	53	42	11	24	15
Inhalation therapists.....	51	41	36	5	16	12
Speech pathologists and audiologists.....	**	9	6	3	**	0
<b>Radiology</b>						
Radiologic technologists.....	315	260	218	42	24	19
X-ray assistants.....	70	60	43	17	3	3
Radiation therapy technologists.....	**	7	7	0	**	1
Radiation therapy assistants.....	**	2	0	2	**	0
<b>Medical records</b>						
Medical record librarians.....	93	74	59	15	22	18
Medical record assistants.....	172	140	107	33	28	22
<b>Dietary</b>						
Dietitians.....	174	142	98	44	47	39
Food service managers.....	101	83	68	15	10	9
<b>Pharmacy</b>						
Pharmacists.....	122	101	64	37	29	23
Pharmacy assistants.....	85	71	32	39	3	3
<b>All other professional and technical</b>	920	679	529	150	177	146
<b>Other hospital personnel—Total</b> .....	.....	10,629	8,641	1,988	.....	.....
Food service workers.....	.....	2,902	1,976	926	.....	.....
Laundry.....	.....	1,128	1,005	123	.....	.....
Housekeeping.....	.....	1,908	1,660	248	.....	.....
Maintenance.....	.....	1,212	1,129	83	.....	.....
All other (includes management and all secretarial and clerical).....	.....	3,479	2,871	608	.....	.....

- Estimates, not made for all categories, are based on sample representing 82 per cent of the average daily census in registered hospitals in this area.
- Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### MISSOURI

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	40,664	35,452	5,212	.....	.....
All professional and technical—Total.....	31,199	24,234	20,754	3,480	6,141	4,926
<b>Nursing service</b>						
Professional nurses.....	7,277	5,500	3,919	1,581	1,688	1,326
LPN's or vocational nurses.....	3,863	2,972	2,757	215	1,138	903
Surgical technical aide.....	450	338	301	37	67	52
Aides, orderlies, attendants.....	12,539	9,827	9,136	691	1,780	1,502
<b>Diagnostic services</b>						
Medical technologist.....	1,229	940	718	222	173	139
Laboratory assistants.....	512	370	245	125	34	27
Cytotechnologists.....	33	25	24	1	4	4
Histologic technicians.....	91	72	65	7	13	11
Electrocardiographic technicians.....	180	141	119	22	18	13
Electroencephalographic technicians.....	**	32	23	9	**	12
<b>Therapeutic services</b>						
Occupational therapists.....	95	80	71	9	59	47
Occupational therapy assistants.....	85	73	51	22	27	20
Physical therapists.....	177	144	112	32	56	36
Physical therapy assistants.....	121	95	73	22	27	19
Social workers.....	245	204	155	49	113	95
Social work assistants.....	49	38	33	5	14	12
Recreation therapists.....	77	67	48	19	29	25
Inhalation therapists.....	162	124	111	13	56	43
Speech pathologists and audiologists.....	41	34	29	5	11	10
<b>Radiology</b>						
Radiologic technologists.....	504	376	344	32	87	57
X-ray assistants.....	156	124	102	22	25	20
Radiation therapy technologists.....	**	16	14	2	**	2
Radiation therapy assistants.....	**	4	4	0	**	1
<b>Medical records</b>						
Medical record librarians.....	166	127	103	24	47	34
Medical record assistants.....	190	144	117	27	30	20
<b>Dietary</b>						
Dietitians.....	301	228	192	36	98	74
Food service managers.....	145	111	94	17	14	11
<b>Pharmacy</b>						
Pharmacists.....	230	184	140	44	32	23
Pharmacy assistants.....	161	126	74	52	18	15
<b>All other professional and technical</b>	2,120	1,718	1,580	138	483	373
<b>Other hospital personnel—Total.....</b>	.....	16,430	14,698	1,732	.....	.....
Food service workers.....	.....	4,404	3,665	739	.....	.....
Laundry.....	.....	1,119	1,067	52	.....	.....
Housekeeping.....	.....	2,843	2,744	99	.....	.....
Maintenance.....	.....	1,772	1,705	67	.....	.....
All other (includes management and all secretarial and clerical).....	.....	6,292	5,517	775	.....	.....

\* Estimates, not made for all categories, are based on sample representing 85 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### NORTH DAKOTA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	6,911	5,590	1,321	.....	.....
All professional and technical—Total.....	4,948	4,551	3,632	919	573	529
<b>Nursing service</b>						
Professional nurses.....	1,241	1,131	802	329	198	181
LPN's or vocational nurses.....	484	435	355	80	90	83
Surgical technical aide.....	66	61	56	5	10	9
Aides, orderlies, attendants.....	2,248	2,080	1,737	343	104	98
<b>Diagnostic services</b>						
Medical technologist.....	131	119	93	26	17	16
Laboratory assistants.....	47	43	28	15	4	4
Cytotechnologists.....	* *	1	1	0	* *	1
Histologic technicians.....	* *	6	5	1	* *	1
Electrocardiographic technicians.....	* *	10	8	2	* *	0
Electroencephalographic technicians.....	* *	1	1	0	* *	1
<b>Therapeutic services</b>						
Occupational therapists.....	* *	6	4	2	* *	8
Occupational therapy assistants.....	* *	7	7	0	* *	6
Physical therapists.....	* *	12	9	3	* *	10
Physical therapy assistants.....	* *	11	11	0	* *	1
Social workers.....	* *	18	18	0	* *	13
Social work assistants.....	* *	3	1	2	* *	0
Recreation therapists.....	* *	10	10	0	* *	7
Inhalation therapists.....	* *	5	2	3	* *	1
Speech pathologists and audiologists.....	0	0	0	0	0	0
<b>Radiology</b>						
Radiologic technologists.....	93	86	73	13	4	4
X-ray assistants.....	* *	16	9	7	* *	3
Radiation therapy technologists.....	* *	1	0	1	* *	1
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	32	29	19	10	13	12
Medical record assistants.....	40	37	25	12	9	8
<b>Dietary</b>						
Dietitians.....	45	41	33	8	16	14
Food service managers.....	44	41	34	7	5	5
<b>Pharmacy</b>						
Pharmacists.....	49	45	28	17	11	10
Pharmacy assistants.....	* *	18	15	3	* *	1
All other professional and technical	428	278	248	30	92	31
<b>Other hospital personnel—Total.....</b>	.....	2,360	1,958	402	.....	.....
Food service workers.....	.....	734	523	211	.....	.....
Laundry.....	.....	243	209	34	.....	.....
Housekeeping.....	.....	464	412	52	.....	.....
Maintenance.....	.....	270	258	12	.....	.....
All other (includes management and all secretarial and clerical).....	.....	649	556	93	.....	.....

\*Excluding a 135-Bed School Infirmary from which no questionnaire was received.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## SOUTH DAKOTA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	7,188	5,832	1,356	.....	.....
All professional and technical—Total.....	4,627	4,452	3,544	908	498	424
<b>Nursing service</b>						
Professional nurses.....	1,302	1,247	881	366	140	123
LPN's or vocational nurses.....	335	317	265	52	101	95
Surgical technical aide.....	96	91	69	22	8	8
Aides, orderlies, attendants.....	1,971	1,905	1,592	313	85	81
<b>Diagnostic services</b>						
Medical technologist.....	176	168	151	17	16	15
Laboratory assistants.....	30	28	21	7	5	5
Cytotechnologists.....	**	4	3	1	**	0
Histologic technicians.....	**	14	13	1	**	0
Electrocardiographic technicians.....	**	19	12	7	**	3
Electroencephalographic technicians.....	**	4	4	0	**	0
<b>Therapeutic services</b>						
Occupational therapists.....	**	19	19	0	**	6
Occupational therapy assistants.....	**	8	7	1	**	1
Physical therapists.....	29	28	23	5	15	14
Physical therapy assistants.....	26	25	19	6	1	1
Social workers.....	**	17	16	1	**	9
Social work assistants.....	**	4	3	1	**	1
Recreation therapists.....	**	17	17	0	**	2
Inhalation therapists.....	**	18	10	8	**	18
Speech pathologists and audiologists.....	**	4	3	1	**	1
<b>Radiology</b>						
Radiologic technologists.....	89	85	25	10	11	10
X-ray assistants.....	**	20	13	7	0	0
Radiation therapy technologists.....	**	2	2	0	0	0
Radiation therapy assistants.....	**	4	3	1	**	1
<b>Medical records</b>						
Medical record librarians.....	32	30	19	11	6	6
Medical record assistants.....	44	42	33	9	11	11
<b>Dietary</b>						
Dietitians.....	45	43	29	14	13	13
Food service managers.....	41	40	32	8	5	5
<b>Pharmacy</b>						
Pharmacists.....	33	32	25	7	11	11
Pharmacy assistants.....	27	26	20	6	4	4
<b>All other professional and technical</b>	353	191	165	26	66	20
<b>Other hospital personnel—Total.....</b>	.....	2,736	2,288	448	.....	.....
Food service workers.....	.....	813	589	224	.....	.....
Laundry.....	.....	284	233	51	.....	.....
Housekeeping.....	.....	470	396	74	.....	.....
Maintenance.....	.....	311	292	19	.....	.....
All other (includes management and all secretarial and clerical).....	.....	858	778	80	.....	.....

\* Estimates, not made for all categories, are based on sample representing 98 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## NEBRASKA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	14,366	11,009	3,357	.....	.....
All professional and technical—Total.....	11,394	9,178	6,900	2,278	2,266	1,822
<b>Nursing service</b>						
Professional nurses.....	3,042	2,386	1,511	875	747	608
LPN's or vocational nurses.....	757	589	495	94	319	237
Surgical technical aide.....	162	126	106	20	27	22
Aides, orderlies, attendants.....	5,200	4,293	3,349	944	623	509
<b>Diagnostic services</b>						
Medical technologist.....	488	372	278	94	98	75
Laboratory assistants.....	109	89	58	31	20	15
Cytotechnologists.....	**	11	11	-	**	4
Histologic technicians.....	33	26	22	4	6	4
Electrocardiographic technicians.....	29	23	17	6	5	4
Electroencephalographic technicians.....	**	13	10	3	**	5
<b>Therapeutic services</b>						
Occupational therapists.....	**	16	14	2	**	8
Occupational therapy assistants.....	36	34	33	1	33	32
Physical therapists.....	60	45	32	13	25	18
Physical therapy assistants.....	53	36	26	10	10	6
Social workers.....	95	55	53	2	28	26
Social work assistants.....	**	10	9	1	**	2
Recreation therapists.....	63	60	57	3	19	18
Inhalation therapists.....	**	14	8	6	**	10
Speech pathologists and audiologists.....	**	3	0	3	**	3
<b>Radiology</b>						
Radiologic technologists.....	190	146	119	27	35	26
X-ray assistants.....	41	30	18	12	7	5
Radiation therapy technologists.....	**	3	3	0	**	2
Radiation therapy assistants.....	**	2	1	1	**	1
<b>Medical records</b>						
Medical record librarians.....	61	46	39	7	19	13
Medical record assistants.....	99	81	59	22	12	9
<b>Dietary</b>						
Dietitians.....	130	97	69	28	58	43
Food service managers.....	72	56	49	7	15	11
<b>Pharmacy</b>						
Pharmacists.....	69	56	47	9	22	17
Pharmacy assistants.....	49	41	28	13	13	10
All other professional and technical	556	419	379	40	125	79
<b>Other hospital personnel—Total.....</b>	.....	5,188	4,109	1,079	.....	.....
Food service workers.....	.....	1,733	1,228	505	.....	.....
Laundry.....	.....	495	389	106	.....	.....
Housekeeping.....	.....	818	653	165	.....	.....
Maintenance.....	.....	541	500	41	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,601	1,339	262	.....	.....

\* Estimates, not made for all categories, are based on sample representing 87 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## KANSAS

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	22,835	18,708	4,127	.....	.....
All professional and technical—Total.....	16,194	14,287	11,484	2,803	2,255	1,975
<b>Nursing service</b>						
Professional nurses.....	3,945	3,545	2,482	1,063	685	611
LPN's or vocational nurses.....	1,204	1,086	1,004	82	343	303
Surgical technical aide.....	287	259	229	30	28	26
Aides, orderlies, attendants.....	7,568	6,587	5,471	1,116	578	479
<b>Diagnostic services</b>						
Medical technologist.....	557	500	407	93	98	89
Laboratory assistants.....	214	192	146	46	36	32
Cytotechnologists.....	**	10	9	1	**	6
Histologic technicians.....	37	33	31	2	4	4
Electrocardiographic technicians.....	67	60	52	8	11	11
Electroencephalographic technicians.....	**	18	15	3	**	3
<b>Therapeutic services</b>						
Occupational therapists.....	56	49	47	2	30	25
Occupational therapy assistants.....	68	62	50	12	4	4
Physical therapists.....	91	81	59	22	47	41
Physical therapy assistants.....	87	76	66	10	12	11
Social workers.....	147	120	84	36	36	32
Social work assistants.....	**	17	10	7	**	3
Recreation therapists.....	48	35	23	2	7	7
Inhalation therapists.....	78	72	56	16	31	27
Speech pathologists and audiologists.....	**	15	14	1	**	2
<b>Radiology</b>						
Radiologic technologists.....	258	230	212	18	34	31
X-ray assistants.....	63	56	43	13	9	9
Radiation therapy technologists.....	**	5	5	0	**	2
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	110	97	87	10	35	30
Medical record assistants.....	161	141	129	12	24	21
<b>Dietary</b>						
Dietitians.....	163	144	106	38	58	50
Food service managers.....	83	70	64	6	3	3
<b>Pharmacy</b>						
Pharmacists.....	92	84	68	16	29	26
Pharmacy assistants.....	78	71	50	21	17	15
<b>All other professional and technical</b>	732	572	455	117	106	72
<b>Other hospital personnel—Total.....</b>	.....	8,548	7,224	1,324	.....	.....
Food service workers.....	.....	2,593	1,939	654	.....	.....
Laundry.....	.....	749	643	106	.....	.....
Housekeeping.....	.....	1,330	1,183	147	.....	.....
Maintenance.....	.....	929	874	55	.....	.....
All other (includes management and all secretarial and clerical).....	.....	2,947	2,585	362	.....	.....

\* Estimates, not made for all categories, are based on sample representing 90 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### WEST SOUTH CENTRAL

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL</b> .....	.....	134,624	122,184	12,440	.....	.....
<b>Professional and technical—Total</b> .....	105,142	84,126	74,780	9,346	22,066	17,985
<b>Nursing service</b>						
Professional nurses.....	21,370	17,441	14,278	3,163	7,081	5,840
LPN's or vocational nurses.....	18,487	14,859	13,623	1,236	4,666	3,716
Surgical technical aide.....	2,037	1,688	1,407	281	450	392
Aides, orderlies, attendants.....	38,785	29,970	28,143	1,827	4,516	3,554
<b>Diagnostic services</b>						
Medical technologist.....	4,429	3,539	2,922	617	819	678
Laboratory assistants.....	1,265	1,068	904	164	199	165
Cytotechnologists.....	85	71	66	5	40	33
Histologic technicians.....	274	225	216	9	67	59
Electrocardiographic technicians.....	529	428	379	49	98	83
Electroencephalographic technicians.....	**	131	115	16	**	28
<b>Therapeutic services</b>						
Occupational therapists.....	215	170	138	32	121	93
Occupational therapy assistants.....	289	201	158	43	75	56
Physical therapists.....	549	449	361	88	189	157
Physical therapy assistants.....	430	357	300	57	70	63
Social workers.....	651	504	422	82	227	184
Social work assistants.....	184	145	110	35	62	53
Recreation therapists.....	164	130	111	19	38	27
Inhalation therapists.....	634	519	421	98	268	223
Speech pathologists and audiologists.....	66	56	33	23	16	15
<b>Radiology</b>						
Radiologic technologists.....	2,080	1,709	1,588	121	342	286
X-ray assistants.....	689	557	498	59	105	88
Radiation therapy technologists.....	**	83	79	4	**	22
Radiation therapy assistants.....	**	15	15	0	**	13
<b>Medical records</b>						
Medical record librarians.....	618	493	396	97	208	171
Medical record assistants.....	867	722	606	116	174	142
<b>Dietary</b>						
Dietitians.....	1,140	929	800	129	361	296
Food service managers.....	563	445	408	37	94	78
<b>Pharmacy</b>						
Pharmacists.....	751	615	492	123	190	155
Pharmacy assistants.....	622	518	390	128	110	95
<b>All other professional and technical</b>	7,369	6,089	5,401	688	1,480	1,220
<b>Other hospital personnel—Total</b> .....	.....	50,498	47,404	3,094	.....	.....
Food service workers.....	.....	13,490	12,110	1,380	.....	.....
Laundry.....	.....	3,303	3,239	64	.....	.....
Housekeeping.....	.....	9,361	8,994	367	.....	.....
Maintenance.....	.....	5,576	5,400	176	.....	.....
<b>All other (includes management and all secretarial and clerical)</b> .....	.....	18,768	17,661	1,107	.....	.....

Estimates for division obtained by addition of state figures adjusted for nonreporting psychiatric and tuberculosis hospitals in Arkansas.

Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## ARKANSAS

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	12,294	11,007	1,287	.....	.....
All professional and technical—Total.....	9,080	7,729	6,844	885	1,287	1,059
<b>Nursing service</b>						
Professional nurses.....	1,865	1,596	1,319	277	420	345
LPN's or vocational nurses.....	1,922	1,586	1,477	109	273	218
Surgical technical aide.....	168	144	120	24	25	21
Aides, orderlies, attendants.....	3,086	2,641	2,467	174	208	173
<b>Diagnostic services</b>						
Medical technologist.....	408	337	282	55	48	41
Laboratory assistants.....	107	90	78	12	15	12
Cytotechnologists.....	* *	6	5	1	* *	2
Histologic technicians.....	30	25	24	1	3	3
Electrocardiographic technicians.....	49	39	36	3	16	13
Electroencephalographic technicians.....	* *	18	16	2	* *	1
<b>Therapeutic services</b>						
Occupational therapists.....	* *	8	8	0	* *	5
Occupational therapy assistants.....	* *	13	13	0	* *	2
Physical therapists.....	42	37	33	4	19	15
Physical therapy assistants.....	52	46	41	5	6	5
Social workers.....	34	31	31	0	11	11
Social work assistants.....	* *	15	4	11	* *	12
Recreation therapists.....	* *	11	11	0	* *	1
Inhalation therapists.....	55	46	33	13	30	26
Speech pathologists and audiologists.....	* *	1	1	0	* *	1
<b>Radiology</b>						
Radiologic technologists.....	186	157	149	8	32	26
X-ray assistants.....	53	44	37	7	4	4
Radiation therapy technologists.....	* *	4	4	0	* *	1
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	78	64	50	14	20	17
Medical record assistants.....	48	40	36	4	6	5
<b>Dietary</b>						
Dietitians.....	69	59	49	10	40	32
Food service managers.....	59	48	45	3	12	10
<b>Pharmacy</b>						
Pharmacists.....	88	75	59	16	16	12
Pharmacy assistants.....	33	28	23	5	4	3
<b>All other professional and technical</b>	648	520	393	127	79	42
<b>Other hospital personnel—Total.....</b>	.....	4,565	4,163	402	.....	.....
Food service workers.....	.....	1,292	1,094	198	.....	.....
Laundry.....	.....	288	279	9	.....	.....
Housekeeping.....	.....	906	853	53	.....	.....
Maintenance.....	.....	494	479	15	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,585	1,458	127	.....	.....

\*Excluding a 3,483-bed psychiatric hospital and 2 tuberculosis hospitals from which no questionnaire was received.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## LOUISIANA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL</b> .....	.....	23,148	21,575	1,573	.....	.....
<b>All professional and technical—Total</b> .....	18,414	13,579	12,299	1,280	3,714	3,220
<b>Nursing service</b>						
Professional nurses.....	3,829	2,794	2,282	512	1,276	1,161
LPN's or vocational nurses.....	2,250	1,635	1,490	145	785	650
Surgical technical aide.....	329	249	227	22	78	65
Aides, orderlies, attendants.....	8,013	5,858	5,665	193	488	408
<b>Diagnostic services</b>						
Medical technologist.....	956	683	579	104	136	104
Laboratory assistants.....	135	114	108	6	43	37
Cytotechnologists.....	**	15	13	2	**	11
Histologic technicians.....	36	27	27	0	9	8
Electrocardiographic technicians.....	97	70	65	5	24	20
Electroencephalographic technicians.....	**	16	14	2	**	5
<b>Therapeutic services</b>						
Occupational therapists.....	34	24	18	6	19	18
Occupational therapy assistants.....	56	37	21	16	14	12
Physical therapists.....	94	70	43	27	41	36
Physical therapy assistants.....	69	52	30	22	16	14
Social workers.....	139	108	85	23	71	64
Social work assistants.....	27	26	18	8	10	8
Recreation therapists.....	**	18	17	1	**	2
Inhalation therapists.....	53	39	26	13	31	26
Speech pathologists and audiologists.....	**	10	5	5	**	10
<b>Radiology</b>						
Radiologic technologists.....	390	293	278	15	76	63
X-ray assistants.....	145	105	96	9	24	19
Radiation therapy technologists.....	**	2	**	2	**	4
Radiation therapy assistants.....	**	**	**	**	**	2
<b>Medical records</b>						
Medical record librarians.....	99	73	52	21	18	16
Medical record assistants.....	136	108	85	23	30	24
<b>Dietary</b>						
Dietitians.....	180	134	113	21	41	32
Food service managers.....	122	88	84	4	9	6
<b>Pharmacy</b>						
Pharmacists.....	125	94	79	15	32	26
Pharmacy assistants.....	113	87	72	15	15	11
<b>All other professional and technical</b>	987	750	707	43	428	358
<b>Other hospital personnel—Total</b> .....	.....	9,569	9,276	293	.....	.....
Food service workers.....	.....	2,341	2,239	102	.....	.....
Laundry.....	.....	703	697	6	.....	.....
Housekeeping.....	.....	1,936	1,918	18	.....	.....
Maintenance.....	.....	1,402	1,381	21	.....	.....
All other (includes management and all secretarial and clerical).....	.....	3,187	3,041	146	.....	.....

\* Estimates, not made for all categories, are based on sample representing 73 per cent of the average daily census in registered hospitals in this area.

\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### OKLAHOMA

CATEGORY OF PERSONNEL	PRESENT STAFF			ADDITIONAL NEEDS		
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	16,520	14,425	2,095	.....	.....
All professional and technical—Total.....	14,727	10,753	9,222	1,531	2,037	1,533
<b>Nursing service</b>						
Professional nurses.....	3,108	2,407	1,865	542	731	561
LPN's or vocational nurses.....	1,695	1,287	1,163	124	334	258
Surgical technical aide.....	318	244	190	54	29	23
Aides, orderlies, attendants.....	6,551	4,511	4,104	407	406	284
<b>Diagnostic services</b>						
Medical technologist.....	570	444	374	70	106	86
Laboratory assistants.....	143	111	83	28	30	24
Cytotechnologists.....	**	10	10	0	**	1
Histologic technicians.....	38	29	27	2	1	1
Electrocardiographic technicians.....	50	39	33	6	3	3
Electroencephalographic technicians.....	**	14	13	1	**	0
<b>Therapeutic services</b>						
Occupational therapists.....	**	9	9	0	**	13
Occupational therapy assistants.....	32	16	13	3	17	9
Physical therapists.....	74	56	43	13	28	22
Physical therapy assistants.....	71	54	45	9	5	5
Social workers.....	116	73	58	15	20	16
Social work assistants.....	**	18	18	0	**	5
Recreation therapists.....	**	10	6	4	**	6
Inhalation therapists.....	79	60	47	13	20	15
Speech pathologists and audiologists.....	27	22	7	15	1	1
<b>Radiology</b>						
Radiologic technologists.....	252	197	180	17	39	32
X-ray assistants.....	92	74	59	15	17	14
Radiation therapy technologists.....	**	12	12	0	**	3
Radiation therapy assistants.....	**	1	1	0	**	2
<b>Medical records</b>						
Medical record librarians.....	93	71	54	17	24	18
Medical record assistants.....	115	92	85	7	21	17
<b>Dietary</b>						
Dietitians.....	224	168	134	34	54	42
Food service managers.....	79	61	59	2	4	4
<b>Pharmacy</b>						
Pharmacists.....	104	82	68	14	19	15
Pharmacy assistants.....	90	69	45	24	9	8
<b>All other professional and technical</b>	806	512	417	95	119	45
<b>Other hospital personnel—Total.....</b>	.....	5,767	5,203	564	.....	.....
Food service workers.....	.....	1,664	1,410	254	.....	.....
Laundry.....	.....	413	395	18	.....	.....
Housekeeping.....	.....	1,030	907	123	.....	.....
Maintenance.....	.....	592	559	33	.....	.....
All other (includes management and all secretarial and clerical).....	.....	2,068	1,932	136	.....	.....

\* Estimates, not made for all categories, are based on sample representing 62 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## TEXAS

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL</b> .....	.....	82,662	75,177	7,485	.....	.....
<b>All professional and technical—Total</b> .....	61,801	52,065	46,415	5,650	14,560	12,273
<b>Nursing service</b>						
Professional nurses.....	12,511	10,644	8,812	1,832	4,614	3,873
LPN's or vocational nurses.....	12,484	10,351	9,493	858	3,143	2,590
Surgical technical aide.....	1,216	1,051	870	181	317	283
Aides, orderlies, attendants.....	20,335	16,960	15,907	1,053	3,178	2,689
<b>Diagnostic services</b>						
Medical technologist.....	2,488	2,075	1,687	388	526	447
Laboratory assistants.....	872	753	635	118	108	92
Cytotechnologists.....	47	40	38	2	22	19
Histologic technicians.....	170	144	138	6	54	47
Electrocardiographic technicians.....	332	280	245	35	54	47
Electroencephalographic technicians.....	**	83	72	11	**	22
<b>Therapeutic services</b>						
Occupational therapists.....	150	129	103	26	69	57
Occupational therapy assistants.....	165	135	111	24	40	33
Physical therapists.....	334	286	242	44	100	84
Physical therapy assistants.....	234	205	184	21	43	39
Social workers.....	347	292	248	44	111	93
Social work assistants.....	103	86	70	16	32	28
Recreation therapists.....	107	91	77	14	21	18
Inhalation therapists.....	447	374	315	59	187	156
Speech pathologists and audiologists.....	26	23	20	3	3	3
<b>Radiology</b>						
Radiologic technologists.....	1,246	1,062	981	81	193	165
X-ray assistants.....	397	334	306	28	59	51
Radiation therapy technologists.....	**	65	63	2	**	14
Radiation therapy assistants.....	**	14	14	0	**	9
<b>Medical records</b>						
Medical record librarians.....	345	285	240	45	144	120
Medical record assistants.....	562	432	400	82	115	96
<b>Dietary</b>						
Dietitians.....	671	568	504	64	226	190
Food service managers.....	298	243	220	28	67	58
<b>Pharmacy</b>						
Pharmacists.....	430	364	286	78	122	102
Pharmacy assistants.....	386	334	250	84	81	73
<b>All other professional and technical</b>	5,098	4,307	3,884	423	331	775
<b>Other hospital personnel—Total</b> .....	.....	30,597	28,762	1,835	.....	.....
Food service workers.....	.....	8,193	7,367	826	.....	.....
Laundry.....	.....	1,899	1,868	31	.....	.....
Housekeeping.....	.....	5,489	5,316	173	.....	.....
Maintenance.....	.....	3,088	2,981	107	.....	.....
All other (includes management and all secretarial and clerical).....	.....	11,928	11,230	698	.....	.....

\* Estimates, not made for all categories, are based on sample representing 83 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## MOUNTAIN

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	70,112	59,549	10,563	.....	.....
All professional and technical—Total.....	51,078	43,539	36,212	7,327	7,567	6,628
<b>Nursing service</b>						
Professional nurses.....	14,828	12,617	9,426	3,191	2,211	1,898
LPN's or vocational nurses.....	6,063	5,169	4,471	698	1,520	1,360
Surgical technical aide.....	701	599	517	82	135	117
Aides, orderlies, attendants.....	17,423	14,843	13,089	1,754	1,514	1,361
<b>Diagnostic services</b>						
Medical technologist.....	2,225	1,837	1,479	358	286	240
Laboratory assistants.....	561	461	350	111	72	64
Cytotechnologists.....	43	35	32	3	23	20
Histologic technicians.....	144	122	116	6	16	13
Electrocardiographic technicians.....	227	200	167	33	27	23
Electroencephalographic technicians.....	**	75	66	9	**	6
<b>Therapeutic services</b>						
Occupational therapists.....	128	110	97	13	62	55
Occupational therapy assistants.....	119	104	100	4	36	33
Physical therapists.....	344	285	232	53	107	96
Physical therapy assistants.....	216	175	146	29	40	33
Social workers.....	393	352	298	54	134	118
Social work assistants.....	51	42	34	8	10	10
Recreation therapists.....	111	85	71	14	22	20
Inhalation therapists.....	259	223	192	31	78	65
Speech pathologists and audiologists.....	40	29	23	6	15	14
<b>Radiology</b>						
Radiologic technologists.....	1,088	934	821	113	117	103
X-ray assistants.....	233	191	140	51	57	44
Radiation therapy technologists.....	**	36	32	4	**	4
Radiation therapy assistants.....	**	3	2	1	**	0
<b>Medical records</b>						
Medical record librarians.....	308	258	217	41	102	85
Medical record assistants.....	471	407	315	92	66	60
<b>Dietary</b>						
Dietitians.....	531	453	358	95	144	120
Food service managers.....	270	218	206	12	36	31
<b>Pharmacy</b>						
Pharmacists.....	504	437	315	122	91	78
Pharmacy assistants.....	219	197	148	49	64	60
<b>All other professional and technical</b>	3,578	3,042	2,752	290	582	497
<b>Other hospital personnel—Total.....</b>	.....	26,573	23,337	3,236	.....	.....
Food service workers.....	.....	6,957	5,502	1,455	.....	.....
Laundry.....	.....	1,889	1,725	164	.....	.....
Housekeeping.....	.....	4,344	3,972	372	.....	.....
Maintenance.....	.....	3,044	2,884	160	.....	.....
All other (includes management and all secretarial and clerical).....	.....	10,339	9,254	1,085	.....	.....

\*Estimates for division obtained by addition of state figures adjusted for nonreporting psychiatric hospital in Nevada and nonreporting long-term hospitals in Montana and Wyoming.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## MONTANA

CATEGORY OF PERSONNEL	PRESENT STAFF			ADDITIONAL NEEDS		
	ALL HOSPITALS*	REPORTING HOSPITALS		ALL HOSPITALS*	REPORTING HOSPITALS	
		TOTAL	FULL-TIME			PART-TIME
ALL CATEGORIES—TOTAL.....	.....	6,613	5,237	1,376	.....	.....
All professional and technical—Total.....	5,095	4,339	3,358	981	777	668
Nursing service						
Professional nurses.....	1,547	1,300	876	424	235	205
LPN's or vocational nurses.....	401	344	283	61	107	92
Surgical technical aide.....	99	88	76	12	24	21
Aides, orderlies, attendants.....	2,103	1,783	1,430	353	215	188
Diagnostic services						
Medical technologist.....	169	142	119	23	26	20
Laboratory assistants.....	50	43	33	10	6	5
Cytotechnologists.....	**	2	2	0	**	2
Histologic technicians.....	**	9	9	0	**	1
Electrocardiographic technicians.....	**	17	12	5	**	3
Electroencephalographic technicians.....	**	5	3	2	**	1
Therapeutic services						
Occupational therapists.....	**	4	3	1	**	1
Occupational therapy assistants.....	**	8	8	0	**	0
Physical therapists.....	27	23	19	4	6	6
Physical therapy assistants.....	28	22	18	4	5	4
Social workers.....	**	10	8	2	**	4
Social work assistants.....	**	3	3	0	**	0
Recreation therapists.....	**	1	1	0	**	0
Inhalation therapists.....	25	22	18	4	18	16
Speech pathologists and audiologists.....	0	0	0	0	1	1
Radiology						
Radiologic technologists.....	77	67	56	11	12	10
X-ray assistants.....	**	19	16	3	**	2
Radiation therapy technologists.....	**	2	2	0	**	1
Radiation therapy assistants.....	0	0	0	0	0	0
Medical records						
Medical record librarians.....	41	34	26	8	14	11
Medical record assistants.....	46	41	31	10	7	7
Dietary						
Dietitians.....	44	39	32	7	20	16
Food service managers.....	44	34	31	3	4	3
Pharmacy						
Pharmacists.....	38	32	24	8	6	5
Pharmacy assistants.....	35*	29	22	7	7	6
All other professional and technical	321	216	197	19	64	37
Other hospital personnel—Total.....	.....	2,274	1,879	395	.....	.....
Food service workers.....	.....	667	475	192	.....	.....
Laundry.....	.....	245	214	31	.....	.....
Housekeeping.....	.....	401	342	59	.....	.....
Maintenance.....	.....	260	241	19	.....	.....
All other (includes management and all secretarial and clerical).....	.....	701	607	94	.....	.....

\* Excluding a 343-bed tuberculosis hospital from which no questionnaire was received.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## IDAHO

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	4,698	3,531	1,167	.....	.....
All professional and technical—Total.....	3,391	3,010	2,195	815	620	574
<b>Nursing service</b>						
Professional nurses.....	998	872	544	328	161	151
LPN's or vocational nurses.....	897	781	588	193	144	134
Surgical technical aide.....	47	46	39	7	3	3
Aides, orderlies, attendants.....	788	726	576	150	114	111
<b>Diagnostic services</b>						
Medical technologist.....	130	108	83	25	28	26
Laboratory assistants.....	31	26	15	11	9	9
Cytotechnologists.....	**	2	1	1	**	0
Histologic technicians.....	**	11	10	1	**	0
Electrocardiographic technicians.....	**	11	8	3	**	2
Electroencephalographic technicians.....	**	1	1	0	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	**	4	2	2	**	7
Occupational therapy assistants.....	**	6	5	1	**	0
Physical therapists.....	**	18	10	8	**	14
Physical therapy assistants.....	**	8	7	1	**	2
Social workers.....	**	15	7	8	**	2
Social work assistants.....	0	0	0	0	0	0
Recreation therapists.....	**	1	1	0	**	2
Inhalation therapists.....	**	4	3	1	**	3
Speech pathologists and audiologists.....	**	2	1	1	**	1
<b>Radiology</b>						
Radiologic technologists.....	98	83	76	7	15	15
X-ray assistants.....	25	17	11	6	14	7
Radiation therapy technologists.....	**	1	1	0	**	0
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	**	20	15	5	**	13
Medical record assistants.....	40	39	23	16	4	4
<b>Dietary</b>						
Dietitians.....	**	21	11	10	**	15
Food service managers.....	33	31	29	2	2	2
<b>Pharmacy</b>						
Pharmacists.....	28	25	11	14	13	13
Pharmacy assistants.....	**	12	8	4	**	7
<b>All other professional and technical</b>	276	119	109	10	113	30
<b>Other hospital personnel—Total.....</b>	.....	1,688	1,336	352	.....	.....
Food service workers.....	.....	472	314	158	.....	.....
Laundry.....	.....	134	108	26	.....	.....
Housekeeping.....	.....	290	253	37	.....	.....
Maintenance.....	.....	209	190	19	.....	.....
All other (includes management and all secretarial and clerical).....	.....	583	471	112	.....	.....

\* Estimates, not made for all categories, are based on sample representing 97 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## WYOMING

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	3,318	2,752	566	.....	.....
All professional and technical—Total.....	2,415	2,047	1,647	400	430	366
<b>Nursing service</b>						
Professional nurses.....	692	576	413	163	103	88
LPN's or vocational nurses.....	160	130	101	29	37	30
Surgical technical aide.....	44	38	19	19	13	12
Aides, orderlies, attendants.....	1,073	920	794	126	126	110
<b>Diagnostic services</b>						
Medical technologist.....	93	75	65	10	28	22
Laboratory assistants.....	**	14	11	3	**	2
Cytotechnologists.....	0	0	0	0	2	2
Histologic technicians.....	**	3	3	0	**	0
Electrocardiographic technicians.....	**	8	5	3	**	1
Electroencephalographic technicians.....	**	1	1	0	**	0
<b>Therapeutic services</b>						
Occupational therapists.....	**	7	7	0	**	2
Occupational therapy assistants.....	**	7	7	0	**	0
Physical therapists.....	**	17	14	3	**	7
Physical therapy assistants.....	**	9	8	1	**	1
Social workers.....	**	16	12	4	**	12
Social work assistants.....	**	8	8	0	**	2
Recreation therapists.....	**	11	11	0	**	1
Inhalation therapists.....	**	3	2	1	**	4
Speech pathologists and audiologists.....	0	0	0	0	2	2
<b>Radiology</b>						
Radiologic technologists.....	62	50	44	6	9	8
X-ray assistants.....	**	7	1	6	**	0
Radiation therapy technologists.....	0	0	0	0	0	0
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	**	8	6	2	**	11
Medical record assistants.....	**	18	13	5	**	3
<b>Dietary</b>						
Dietitians.....	**	18	15	3	**	21
Food service managers.....	29	23	20	3	1	1
<b>Pharmacy</b>						
Pharmacists.....	**	11	9	2	**	7
Pharmacy assistants.....	**	7	3	4	**	4
All other professional and technical	263	62	55	7	109	13
<b>Other hospital personnel—Total.....</b>	.....	1,271	1,105	166	.....	.....
Food service workers.....	.....	346	269	77	.....	.....
Laundry.....	.....	139	125	14	.....	.....
Housekeeping.....	.....	182	161	21	.....	.....
Maintenance.....	.....	215	205	10	.....	.....
All other (includes management and all secretarial and clerical).....	.....	389	345	44	.....	.....

\*Estimates, not made for all categories, are based on sample representing 71 per cent of the average daily census in registered hospitals in this area excluding a 720-bed institution for mental retardation from which no questionnaire was received.

\*\*Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## COLORADO

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	26,097	22,332	3,765	.....	.....
All professional and technical—Total.....	16,537	15,504	13,011	2,493	1,596	1,495
<b>Nursing service</b>						
Professional nurses.....	4,685	4,388	3,282	1,106	467	433
LPN's or vocational nurses.....	1,688	1,570	1,364	206	240	223
Surgical technical aide.....	137	127	109	18	22	21
Aides, orderlies, attendants.....	5,494	5,204	4,668	536	210	198
<b>Diagnostic services</b>						
Medical technologist.....	777	705	565	140	84	77
Laboratory assistants.....	146	134	106	28	20	19
Cytotechnologists.....	**	12	12	0	**	6
Histologic technicians.....	44	41	38	3	2	2
Electrocardiographic technicians.....	90	84	75	9	10	10
Electroencephalographic technicians.....	**	34	29	5	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	63	58	51	7	18	18
Occupational therapy assistants.....	45	45	44	1	12	12
Physical therapists.....	147	134	108	26	46	44
Physical therapy assistants.....	77	70	55	15	13	12
Social workers.....	190	182	160	22	43	40
Social work assistants.....	**	10	8	2	**	0
Recreation therapists.....	45	37	35	2	5	5
Inhalation therapists.....	107	98	81	17	15	14
Speech pathologists and audiologists.....	**	21	18	3	**	6
<b>Radiology</b>						
Radiologic technologists.....	352	330	286	44	20	19
X-ray assistants.....	65	60	44	16	9	9
Radiation therapy technologists.....	**	18	16	2	**	0
Radiation therapy assistants.....	**	2	1	1	**	0
<b>Medical records</b>						
Medical record librarians.....	83	78	72	6	19	18
Medical record assistants.....	109	103	73	30	7	7
<b>Dietary</b>						
Dietitians.....	197	185	147	38	27	25
Food service managers.....	56	52	50	2	4	4
<b>Pharmacy</b>						
Pharmacists.....	154	145	104	41	24	20
Pharmacy assistants.....	64	62	47	15	24	23
All other professional and technical	1,722	1,515	1,363	152	255	229
<b>Other hospital personnel—Total.....</b>	.....	10,593	9,321	1,272	.....	.....
Food service workers.....	.....	2,739	2,142	597	.....	.....
Laundry.....	.....	692	637	55	.....	.....
Housekeeping.....	.....	1,543	1,419	124	.....	.....
Maintenance.....	.....	1,100	1,043	57	.....	.....
All other (includes management and all secretarial and clerical).....	.....	4,519	4,080	439	.....	.....

\* Estimates, not made for all categories, are based on sample representing 92 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## NEW MEXICO

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	7,517	6,784	733	.....	.....
All professional and technical—Total.....	5,982	4,767	4,256	511	1,050	882
<b>Nursing service</b>						
Professional nurses.....	1,406	1,090	902	188	340	279
LPN's or vocational nurses.....	712	551	520	31	157	129
Surgical technical aide.....	116	94	90	4	24	19
Aides, orderlies, attendants.....	2,375	1,894	1,772	122	211	183
<b>Diagnostic services</b>						
Medical technologist.....	251	197	151	46	38	32
Laboratory assistants.....	71	64	60	4	18	16
Cytotechnologists.....	**	3	2	1	**	2
Histologic technicians.....	**	14	13	1	**	5
Electrocardiographic technicians.....	**	15	12	3	**	4
Electroencephalographic technicians.....	**	7	7	0	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	**	9	7	2	**	5
Occupational therapy assistants.....	**	2	2	0	**	0
Physical therapists.....	26	19	17	2	6	5
Physical therapy assistants.....	**	16	12	4	**	3
Social workers.....	42	36	20	16	18	14
Social work assistants.....	**	8	6	2	**	7
Recreation therapists.....	**	14	3	11	**	3
Inhalation therapists.....	**	13	10	3	**	10
Speech pathologists and audiologists.....	**	1	1	0	**	**
<b>Radiology</b>						
Radiologic technologists.....	146	118	107	11	15	13
X-ray assistants.....	30	21	17	4	13	10
Radiation therapy technologists.....	**	2	2	0	**	0
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	62	46	38	8	9	7
Medical record assistants.....	79	69	54	15	28	25
<b>Dietary</b>						
Dietitians.....	62	49	38	11	20	16
Food service managers.....	36	28	27	1	16	13
<b>Pharmacy</b>						
Pharmacists.....	62	50	36	14	17	14
Pharmacy assistants.....	31	28	27	1	6	6
All other professional and technical	475	309	303	6	114	61
<b>Other hospital personnel—Total.....</b>	.....	2,750	2,528	222	.....	.....
Food service workers.....	.....	783	673	110	.....	.....
Laundry.....	.....	150	147	3	.....	.....
Housekeeping.....	.....	466	440	26	.....	.....
Maintenance.....	.....	307	300	7	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,044	968	76	.....	.....

\* Estimates, not made for all categories, are based on sample representing 85 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### ARIZONA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	12,657	11,396	1,261	.....	.....
All professional and technical—Total.....	8,855	8,039	7,103	936	1,855	1,748
<b>Nursing service</b>						
Professional nurses.....	2,932	2,643	2,161	482	562	516
LPN's or vocational nurses.....	1,049	945	883	62	586	572
Surgical technical aide.....	107	98	94	4	24	22
Aides, orderlies, attendants.....	2,850	2,594	2,410	184	343	320
<b>Diagnostic services</b>						
Medical technologist.....	356	324	273	51	40	36
Laboratory assistants.....	81	73	62	11	10	9
Cytotechnologists.....	**	2	2	0	**	3
Histologic technicians.....	**	19	19	0	**	3
Electrocardiographic technicians.....	46	42	33	9	1	1
Electroencephalographic technicians.....	**	12	12	0	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	**	19	18	1	**	18
Occupational therapy assistants.....	25	25	24	1	11	11
Physical therapists.....	44	40	38	2	12	12
Physical therapy assistants.....	30	27	26	1	8	8
Social workers.....	56	53	52	1	21	21
Social work assistants.....	**	7	7	0	**	1
Recreation therapists.....	**	10	9	1	**	2
Inhalation therapists.....	70	62	61	1	17	15
Speech pathologists and audiologists.....	**	2	2	0	**	3
<b>Radiology</b>						
Radiologic technologists.....	200	181	156	25	23	21
X-ray assistants.....	40	35	26	9	16	14
Radiation therapy technologists.....	**	5	4	1	**	0
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	46	42	38	4	17	15
Medical record assistants.....	75	69	63	6	10	9
<b>Dietary</b>						
Dietitians.....	81	75	66	9	19	17
Food service managers.....	31	28	28	0	6	6
<b>Pharmacy</b>						
Pharmacists.....	128	116	89	27	14	13
Pharmacy assistants.....	36	33	23	10	9	9
<b>All other professional and technical</b>	572	458	424	34	106	70
<b>Other hospital personnel—Total.....</b>	.....	4,618	4,293	325	.....	.....
Food service workers.....	.....	1,188	1,048	140	.....	.....
Laundry.....	.....	254	240	14	.....	.....
Housekeeping.....	.....	858	808	50	.....	.....
Maintenance.....	.....	602	578	24	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,716	1,619	97	.....	.....

\* Estimates, not made for all categories, are based on sample representing 92 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### UTAH

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	6,070	4,725	1,345	.....	.....
All professional and technical—Total.....	5,559	3,838	2,897	941	977	764
<b>Nursing service</b>						
Professional nurses.....	1,689	1,122	745	377	262	178
LPN's or vocational nurses.....	811	559	462	97	218	166
Surgical technical aide.....	110	71	61	10	15	10
Aides, orderlies, attendants.....	1,600	1,152	908	244	240	223
<b>Diagnostic services</b>						
Medical technologist.....	296	195	146	49	35	23
Laboratory assistants.....	118	75	35	40	7	4
Cytotechnologists.....	**	12	11	1	**	5
Histologic technicians.....	26	17	16	1	2	1
Electrocardiographic technicians.....	**	14	14	0	**	1
Electroencephalographic technicians.....	**	10	10	0	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	**	7	7	0	**	3
Occupational therapy assistants.....	**	11	10	1	**	8
Physical therapists.....	35	25	20	5	9	6
Physical therapy assistants.....	**	10	9	1	**	3
Social workers.....	45	38	37	1	26	24
Social work assistants.....	**	6	2	4	**	0
Recreation therapists.....	**	11	11	0	**	7
Inhalation therapists.....	26	16	12	4	5	3
Speech pathologists and audiologists.....	**	3	1	2	**	0
<b>Radiology</b>						
Radiologic technologists.....	95	65	58	7	20	14
X-ray assistants.....	35	22	15	7	2	1
Radiation therapy technologists.....	**	7	6	1	**	3
Radiation therapy assistants.....	**	1	1	0	**	0
<b>Medical records</b>						
Medical record librarians.....	29	19	15	4	12	8
Medical record assistants.....	54	38	35	3	6	4
<b>Dietary</b>						
Dietitians.....	76	51	36	15	12	8
Food service managers.....	**	14	13	1	**	2
<b>Pharmacy</b>						
Pharmacists.....	59	39	29	10	5	3
Pharmacy assistants.....	**	15	10	5	**	5
<b>All other professional and technical</b>	455	213	162	51	101	50
<b>Other hospital personnel—Total.....</b>	.....	2,232	1,828	404	.....	.....
Food service workers.....	.....	486	343	143	.....	.....
Laundry.....	.....	184	164	20	.....	.....
Housekeeping.....	.....	410	361	49	.....	.....
Maintenance.....	.....	247	227	20	.....	.....
All other (includes management and all secretarial and clerical).....	.....	905	733	172	.....	.....

- Estimates, not made for all categories, are based on sample representing 77 per cent of the average daily census in registered hospitals in this area.
- Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## NEVADA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	3,142	2,792	350	.....	.....
All professional and technical—Total.....	2,197	1,995	1,745	250	145	131
<b>Nursing service</b>						
Professional nurses.....	690	626	503	123	53	48
LPN's or vocational nurses.....	319	289	270	19	14	14
Surgical technical aide.....	40	37	29	8	10	9
Aides, orderlies, attendants.....	628	570	531	39	31	28
<b>Diagnostic services</b>						
Medical technologist.....	101	91	77	14	4	4
Laboratory assistants.....	35	32	28	4	0	0
Cytotechnologists.....	**	2	2	0	**	1
Histologic technicians.....	**	8	8	0	**	1
Electrocardiographic technicians.....	**	9	8	1	**	1
Electroencephalographic technicians.....	**	5	3	2	**	0
<b>Therapeutic services</b>						
Occupational therapists.....	**	2	2	0	**	1
Occupational therapy assistants.....	0	0	0	0	2	2
Physical therapists.....	**	9	6	3	**	2
Physical therapy assistants.....	**	13	11	2	**	0
Social workers.....	**	2	2	0	**	1
Social work assistants.....	0	0	0	0	0	0
Recreation therapists.....	0	0	0	0	0	0
Inhalation therapists.....	**	5	5	0	**	0
Speech pathologists and audiologists.....	0	0	0	0	1	1
<b>Radiology</b>						
Radiologic technologists.....	44	40	38	2	3	3
X-ray assistants.....	**	10	10	0	**	1
Radiation therapy technologists.....	**	1	1	0	**	0
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	**	11	7	4	**	2
Medical record assistants.....	33	30	23	7	1	0
<b>Dietary</b>						
Dietitians.....	**	15	13	2	**	2
Food service managers.....	**	8	8	0	**	0
<b>Pharmacy</b>						
Pharmacists.....	**	19	13	6	**	3
Pharmacy assistants.....	**	11	8	3	**	0
All other professional and technical	307	150	139	11	26	7
<b>Other hospital personnel—Total.....</b>	.....	1,147	1,047	100	.....	.....
Food service workers.....	.....	276	238	38	.....	.....
Laundry.....	.....	91	90	1	.....	.....
Housekeeping.....	.....	194	188	6	.....	.....
Maintenance.....	.....	104	100	4	.....	.....
All other (includes management and all secretarial and clerical).....	.....	482	431	51	.....	.....

\*Estimates, not made for all categories, are based on sample representing 67 per cent of the average daily census in registered hospitals in this area excluding a 635-bed psychiatric hospital from which no questionnaire was received.

\*\*Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## PACIFIC

CATEGORY OF PERSONNEL	PRESENT STAFF			ADDITIONAL NEEDS		
	ALL HOSPITALS*	REPORTING HOSPITALS		ALL HOSPITALS*	REPORTING HOSPITALS	
		TOTAL	FULL-TIME			PART-TIME
ALL CATEGORIES—TOTAL.....	.....	188,658	163,083	25,575	.....	.....
All professional and technical—Total.....	158,395	120,753	102,876	17,877	25,236	18,889
<b>Nursing service</b>						
Professional nurses.....	47,854	36,783	28,444	8,339	7,681	5,780
LPN's or vocational nurses.....	17,331	13,439	12,074	1,365	3,071	2,386
Surgical technical aide.....	2,175	1,651	1,339	312	385	290
Aides, orderlies, attendants.....	56,802	42,856	39,310	3,546	8,003	5,952
<b>Diagnostic services</b>						
Medical technologist.....	6,938	5,319	4,405	914	856	637
Laboratory assistants.....	1,478	1,122	911	211	209	161
Cytotechnologists.....	185	141	122	19	42	31
Histologic technicians.....	377	290	260	30	48	35
Electrocardiographic technicians.....	752	573	452	121	103	75
Electroencephalographic technicians.....	**	172	144	28	**	28
<b>Therapeutic services</b>						
Occupational therapists.....	567	433	402	31	152	112
Occupational therapy assistants.....	166	125	98	27	58	42
Physical therapists.....	1,257	954	763	191	347	258
Physical therapy assistants.....	660	498	410	88	142	105
Social workers.....	1,324	1,006	822	184	542	402
Social work assistants.....	199	150	125	25	61	46
Recreation therapists.....	303	238	210	28	127	91
Inhalation therapists.....	596	448	337	111	149	115
Speech pathologists and audiologists.....	128	102	47	55	42	33
<b>Radiology</b>						
Radiologic technologists.....	3,092	2,365	2,041	324	342	261
X-ray assistants.....	699	521	424	97	90	65
Radiation therapy technologists.....	**	117	109	8	**	12
Radiation therapy assistants.....	**	17	14	3	**	2
<b>Medical records</b>						
Medical record librarians.....	855	645	503	142	183	138
Medical record assistants.....	1,192	880	662	218	254	185
<b>Dietary</b>						
Dietitians.....	1,487	1,152	939	213	284	207
Food service managers.....	580	439	400	39	126	95
<b>Pharmacy</b>						
Pharmacists.....	1,412	1,083	720	363	235	178
Pharmacy assistants.....	667	500	340	160	138	98
<b>All other professional and technical</b>	9,319	6,734	6,049	685	1,566	1,069
<b>Other hospital personnel—Total.....</b>	.....	67,905	60,207	7,698	.....	.....
Food service workers.....	.....	17,601	14,333	3,268	.....	.....
Laundry.....	.....	4,490	4,231	259	.....	.....
Housekeeping.....	.....	11,892	11,117	775	.....	.....
Maintenance.....	.....	7,553	7,215	338	.....	.....
All other (includes management and all secretarial and clerical).....	.....	26,369	23,311	3,058	.....	.....

\*Estimates for division obtained by addition of state figures.

\*\*Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### WASHINGTON

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	24,056	19,590	4,466	.....	.....
All professional and technical—Total.....	17,705	15,345	12,197	3,148	1,951	1,674
<b>Nursing service</b>						
Professional nurses.....	6,015	5,134	3,658	1,476	571	473
LPN's or vocational nurses.....	3,108	2,692	2,311	381	525	465
Surgical technical aide.....	341	296	209	87	46	40
Aides, orderlies, attendants.....	4,542	4,053	3,560	493	367	329
<b>Diagnostic services</b>						
Medical technologist.....	775	655	503	152	66	53
Laboratory assistants.....	171	146	114	32	17	15
Cytotechnologists.....	34	26	23	3	9	7
Histologic technicians.....	43	37	34	3	6	5
Electrocardiographic technicians.....	80	68	52	16	8	8
Electroencephalographic technicians.....	**	17	15	2	**	6
<b>Therapeutic services</b>						
Occupational therapists.....	78	64	54	10	6	5
Occupational therapy assistants.....	**	20	17	3	**	6
Physical therapists.....	131	112	91	21	32	27
Physical therapy assistants.....	61	54	42	12	15	12
Social workers.....	116	106	67	39	38	35
Social work assistants.....	**	9	7	2	**	2
Recreation therapists.....	39	37	31	6	1	1
Inhalation therapists.....	57	50	36	14	7	6
Speech pathologists and audiologists.....	**	14	3	11	**	2
<b>Radiology</b>						
Radiologic technologists.....	361	301	248	53	28	24
X-ray assistants.....	87	76	54	22	4	3
Radiation therapy technologists.....	**	11	10	1	**	0
Radiation therapy assistants.....	**	2	2	0	**	0
<b>Medical records</b>						
Medical record librarians.....	79	66	54	12	19	15
Medical record assistants.....	123	105	78	27	10	9
<b>Dietary</b>						
Dietitians.....	211	179	138	41	40	32
Food service managers.....	74	61	56	5	12	10
<b>Pharmacy</b>						
Pharmacists.....	212	182	101	81	21	17
Pharmacy assistants.....	78	69	46	23	10	9
All other professional and technical	889	703	583	120	93	58
<b>Other hospital personnel—Total.....</b>						
Food service workers.....	.....	8,711	7,393	1,318	.....	.....
Laundry.....	.....	2,363	1,764	599	.....	.....
Housekeeping.....	.....	702	640	62	.....	.....
Maintenance.....	.....	1,491	1,326	165	.....	.....
All other (includes management and all secretarial and clerical).....	.....	979	932	47	.....	.....
	.....	3,176	2,731	445	.....	.....

\* Estimates, not made for all categories, are based on sample representing 91 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## OREGON

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	14,982	12,262	2,720	.....	.....
All professional and technical—Total.....	11,914	10,101	8,125	1,976	1,866	1,568
<b>Nursing service</b>						
Professional nurses.....	3,801	3,208	2,226	982	658	559
LPN's or vocational nurses.....	1,114	946	824	122	236	193
Surgical technical aide.....	126	113	85	28	22	20
Aides, orderlies, attendants.....	4,605	3,878	3,435	443	659	581
<b>Diagnostic services</b>						
Medical technologist.....	544	471	389	82	27	23
Laboratory assistants.....	104	80	60	20	11	9
Cytotechnologists.....	**	12	11	1	**	1
Histologic technicians.....	38	33	30	3	2	2
Electrocardiographic technicians.....	59	51	31	20	1	1
Electroencephalographic technicians.....	**	12	6	6	**	1
<b>Therapeutic services</b>						
Occupational therapists.....	**	20	19	1	**	6
Occupational therapy assistants.....	**	9	5	4	**	1
Physical therapists.....	77	66	49	17	20	18
Physical therapy assistants.....	62	50	39	11	5	5
Social workers.....	73	61	55	6	15	15
Social work assistants.....	0	0	0	0	1	1
Recreation therapists.....	**	17	17	0	**	2
Inhalation therapists.....	39	33	27	6	14	11
Speech pathologists and audiologists.....	25	23	3	20	2	2
<b>Radiology</b>						
Radiologic technologists.....	224	194	155	39	10	10
X-ray assistants.....	43	39	28	11	5	5
Radiation therapy technologists.....	**	7	7	0	**	1
Radiation therapy assistants.....	**	1	0	1	**	0
<b>Medical records</b>						
Medical record librarians.....	63	56	39	17	15	14
Medical record assistants.....	58	50	34	16	13	11
<b>Dietary</b>						
Dietitians.....	119	106	84	22	13	11
Food service managers.....	68	58	54	4	13	12
<b>Pharmacy</b>						
Pharmacists.....	77	66	39	27	16	14
Pharmacy assistants.....	**	12	6	6	**	3
All other professional and technical	595	429	368	61	108	36
<b>Other hospital personnel—Total.....</b>	.....	4,881	4,137	744	.....	.....
Food service workers.....	.....	1,366	1,016	350	.....	.....
Laundry.....	.....	335	291	44	.....	.....
Housekeeping.....	.....	834	766	68	.....	.....
Maintenance.....	.....	539	511	28	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,807	1,553	254	.....	.....

\* Estimates, not made for all categories, are based on sample representing 85 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

# PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

## CALIFORNIA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	141,655	123,847	17,808	.....	.....
All professional and technical- Total.....	122,350	90,516	78,177	12,339	20,879	15,313
<b>Nursing service</b>						
Professional nurses.....	35,876	26,680	20,951	5,729	6,266	4,626
LPN's or vocational nurses.....	11,719	8,760	8,026	734	2,230	1,672
Surgical technical aide.....	1,618	1,180	984	196	312	226
Aides, orderlies, attendants.....	46,216	33,984	31,414	2,570	6,884	4,995
<b>Diagnostic services</b>						
Medical technologist.....	5,313	3,941	3,290	651	732	538
Laboratory assistants.....	1,152	855	702	153	172	130
Cytotechnologists.....	129	97	84	13	32	23
Histologic technicians.....	280	210	186	24	38	27
Electrocardiographic technicians.....	596	441	357	84	94	66
Electroencephalographic technicians.....	**	139	119	20	**	21
<b>Therapeutic services</b>						
Occupational therapists.....	424	321	303	18	129	95
Occupational therapy assistants.....	117	84	65	19	43	31
Physical therapists.....	991	734	586	148	286	209
Physical therapy assistants.....	505	373	308	65	113	85
Social workers.....	1,097	816	680	136	478	345
Social work assistants.....	176	134	112	22	58	43
Recreation therapists.....	241	182	161	21	124	88
Inhalation therapists.....	499	364	273	91	128	98
Speech pathologists and audiologists.....	88	65	41	24	37	29
<b>Radiology</b>						
Radiologic technologists.....	2,355	1,753	1,535	218	292	218
X-ray assistants.....	544	389	325	64	80	56
Radiation therapy technologists.....	**	90	83	7	**	10
Radiation therapy assistants.....	**	14	12	2	**	2
<b>Medical records</b>						
Medical record librarians.....	678	494	385	109	142	103
Medical record assistants.....	945	692	520	172	227	163
<b>Dietary</b>						
Dietitians.....	1,073	806	658	148	221	158
Food service managers.....	420	306	276	30	100	72
<b>Pharmacy</b>						
Pharmacists.....	1,077	799	554	245	189	140
Pharmacy assistants.....	527	389	260	129	116	82
<b>All other professional and technical</b>	7,694	5,424	4,927	497	1,371	1,021
<b>Other hospital personnel—Total.....</b>	.....	51,139	45,670	5,469	.....	.....
Food service workers.....	.....	13,092	10,840	2,252	.....	.....
Laundry.....	.....	3,225	3,082	143	.....	.....
Housekeeping.....	.....	9,093	8,564	529	.....	.....
Maintenance.....	.....				.....	.....
All other (includes management and all secretarial and clerical).....	.....	20,048	17,755	2,293	.....	.....

\* Estimates, not made for all categories, are based on sample representing 74 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### ALASKA

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
<b>ALL CATEGORIES—TOTAL</b> .....	.....	1,992	1,803	189	.....	.....
<b>All professional and technical—Total</b> .....	2,093	1,229	1,089	140	214	109
<b>Nursing service</b>						
Professional nurses.....	563	387	315	72	76	39
LPN's or vocational nurses.....	169	126	114	12	17	13
Surgical technical aide.....	44	19	19	0	2	1
Aides, orderlies, attendants.....	802	428	402	26	54	22
<b>Diagnostic services</b>						
Medical technologist.....	84	51	37	14	12	5
Laboratory assistants.....	**	12	12	0	**	2
Cytotechnologists.....	**	1	1	0	**	0
Histologic technicians.....	**	5	5	0	**	1
Electrocardiographic technicians.....	**	3	3	0	**	0
Electroencephalographic technicians.....	**	2	2	0	**	0
<b>Therapeutic services</b>						
Occupational therapists.....	**	2	2	0	**	1
Occupational therapy assistants.....	**	1	0	1	**	2
Physical therapists.....	**	7	6	1	**	1
Physical therapy assistants.....	**	6	6	0	**	0
Social workers.....	**	3	2	1	**	3
Social work assistants.....	**	4	4	0	**	0
Recreation therapists.....	**	1	0	1	**	0
Inhalation therapists.....	0	0	0	0	0	0
Speech pathologists and audiologists.....	0	0	0	0	0	0
<b>Radiology</b>						
Radiologic technologists.....	56	30	27	3	7	4
X-ray assistants.....	**	4	4	0	**	0
Radiation therapy technologists.....	0	0	0	0	0	0
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	**	10	7	3	**	1
Medical record assistants.....	52	24	22	2	0	0
<b>Dietary</b>						
Dietitians.....	**	13	12	1	**	3
Food service managers.....	**	8	8	0	**	0
<b>Pharmacy</b>						
Pharmacists.....	**	7	6	1	**	2
Pharmacy assistants.....	30	14	13	1	7	3
<b>All other professional and technical</b>	293	61	60	1	39	5
<b>Other hospital personnel—Total</b> .....	.....	763	715	48	.....	.....
Food service workers.....	.....	203	190	130	.....	.....
Laundry.....	.....	56	50	6	.....	.....
Housekeeping.....	.....	99	92	7	.....	.....
Maintenance.....	.....	132	129	3	.....	.....
All other (includes management and all secretarial and clerical).....	.....	273	254	19	.....	.....

\* Estimates, not made for all categories, are based on sample representing 63 per cent of the average daily census in registered hospitals in this area.

\*\* Included with all other professional and technical.

## PERSONNEL IN HOSPITALS

Present Staff and Additional Needs; April 1966

*See Introduction for methodology and for explanation of terms*

### HAWAII

CATEGORY OF PERSONNEL	PRESENT STAFF				ADDITIONAL NEEDS	
	ALL HOSPITALS*	REPORTING HOSPITALS			ALL HOSPITALS*	REPORTING HOSPITALS
		TOTAL	FULL-TIME	PART-TIME		
ALL CATEGORIES—TOTAL.....	.....	5,973	5,581	392	.....	.....
All professional and technical—Total.....	4,333	3,562	3,289	273	308	225
<b>Nursing service</b>						
Professional nurses.....	1,599	1,374	1,294	80	110	83
LPN's or vocational nurses.....	1,221	915	799	116	63	43
Surgical technical aide.....	46	43	42	1	3	3
Aides, orderlies, attendants.....	637	513	499	14	39	25
<b>Diagnostic services</b>						
Medical technologist.....	222	201	186	15	19	17
Laboratory assistants.....	29	29	23	6	5	5
Cytotechnologists.....	**	5	3	2	**	0
Histologic technicians.....	**	5	5	0	**	0
Electrocardiographic technicians.....	**	10	9	1	**	0
Electroencephalographic technicians.....	**	2	2	0	**	0
<b>Therapeutic services</b>						
Occupational therapists.....	40	26	24	2	8	5
Occupational therapy assistants.....	**	11	11	0	**	2
Physical therapists.....	47	35	31	4	7	3
Physical therapy assistants.....	**	15	15	0	**	3
Social workers.....	32	20	18	2	7	4
Social work assistants.....	**	3	2	1	**	0
Recreation therapists.....	**	1	1	0	**	0
Inhalation therapists.....	**	1	1	0	**	0
Speech pathologists and audiologists.....	0	0	0	0	0	0
<b>Radiology</b>						
Radiologic technologists.....	96	87	77	10	5	5
X-ray assistants.....	**	13	13	0	**	1
Radiation therapy technologists.....	**	9	9	0	**	1
Radiation therapy assistants.....	0	0	0	0	0	0
<b>Medical records</b>						
Medical record librarians.....	**	19	18	1	**	5
Medical record assistants.....	**	9	8	1	**	2
<b>Dietary</b>						
Dietitians.....	62	48	47	1	5	3
Food service managers.....	**	6	6	0	**	1
<b>Pharmacy</b>						
Pharmacists.....	32	29	20	9	7	5
Pharmacy assistants.....	**	16	15	1	**	1
All other professional and technical	293	117	111	6	39	8
<b>Other hospital personnel—Total.....</b>	.....	2,411	2,292	119	.....	.....
Food service workers.....	.....	577	523	54	.....	.....
Laundry.....	.....	172	168	4	.....	.....
Housekeeping.....	.....	375	369	6	.....	.....
Maintenance.....	.....	222	214	8	.....	.....
All other (includes management and all secretarial and clerical).....	.....	1,065	1,018	47	.....	.....

\*Estimates, not made for all categories, are based on sample representing 60 per cent of the average daily census in registered hospitals in this area excluding a 782-bed psychiatric hospital from which no questionnaire was received.

\*\*Included with all other professional and technical.

**MOST URGENT PERSONNEL NEEDS**  
 Five Categories Most Frequently Reported; All Reporting Hospitals  
 By Regions and by States within Regions

CATEGORY	NUMBER OF PERSONNEL NEEDED	PER CENT OF TOTAL	CATEGORY	NUMBER OF PERSONNEL NEEDED	PER CENT OF TOTAL
<b>UNITED STATES</b>			<b>MIDDLE ATLANTIC</b>		
All categories of need--total .....	116,106	100	All categories of need--total .....	35,632	100
Five most urgent needs--total .....	97,387	84	Five most urgent needs--total .....	30,956	87
Nurses, R. N. ....	56,992	58	Nurses, R.N. ....	22,675	73
Aides, orderlies, & attendants ....	18,304	19	Aides, orderlies, & attendants ....	3,694	12
Nurses, L.P.N. ....	16,243	17	Nurses, L.P.N. ....	2,979	10
Medical technologists .....	3,369	3	Medical technologists .....	820	3
Dietitians .....	2,479	2	Social workers .....	788	2
<b>NEW ENGLAND</b>			<b>NEW YORK</b>		
All categories of need--total .....	7,504	100	All categories of need--total .....	22,759	100
Five most urgent needs--total .....	5,719	76	Five most urgent needs--total .....	19,053	84
Nurses, R.N. ....	2,879	50	Nurses, R.N. ....	15,828	83
Aides, orderlies, & attendants ....	1,365	24	Aides, orderlies, & attendants ....	1,160	6
Nurses, L.P.N. ....	1,066	19	Nurses, L.P.N. ....	1,047	5
Medical technologists .....	224	4	Social workers .....	614	3
Social workers .....	185	3	Medical technologists .....	404	2
<b>MAINE</b>			<b>NEW JERSEY</b>		
All categories of need--total .....	536	100	All categories of need--total .....	3,333	100
Five most urgent needs--total .....	423	80	Five most urgent needs--total .....	2,564	77
Nurses, R.N. ....	180	42	Nurses, R.N. ....	1,508	59
Aides, orderlies, & attendants ....	128	30	Aides, orderlies, & attendants ....	568	22
Nurses, L.P.N. ....	83	20	Nurses, L.P.N. ....	317	12
Medical technologists .....	20	5	Medical technologists .....	114	4
Nuclear medicine assistants .....	12	3	Radiologic technologists .....	57	2
<b>NEW HAMPSHIRE</b>			<b>PENNSYLVANIA</b>		
All categories of need--total .....	375	100	All categories of need--total .....	9,540	100
Five most urgent needs--total .....	297	79	Five most urgent needs--total .....	8,203	86
Nurses, R.N. ....	187	63	Nurses, R.N. ....	4,146	50
Aides, orderlies, & attendants ....	54	18	Aides, orderlies, & attendants ....	1,966	24
Nurses, L.P.N. ....	36	12	Nurses, L.P.N. ....	1,678	20
Social workers .....	10	3	Medical technologists .....	302	4
Medical records librarians .....	10	3	Social workers .....	111	1
<b>VERMONT</b>			<b>SOUTH ATLANTIC</b>		
All categories of need--total .....	322	100	All categories of need--total .....	15,593	100
Five most urgent needs--total .....	247	77	Five most urgent needs--total .....	12,699	81
Aides, orderlies, & attendants ....	93	38	Nurses, R.N. ....	7,071	56
Nurses, R.N. ....	92	37	Nurses, L.P.N. ....	2,507	20
Nurses, L.P.N. ....	48	19	Aides, orderlies, & attendants ....	2,420	19
Maintenance .....	10	4	Medical technologists .....	576	4
Medical technologists .....	4	2	Dietitians .....	125	1
<b>MASSACHUSETTS</b>			<b>DELAWARE</b>		
All categories of need--total .....	3,972	100	All categories of need--total .....	360	100
Five most urgent needs--total .....	2,853	72	Five most urgent needs--total .....	227	63
Nurses, R.N. ....	1,528	54	Nurses, R.N. ....	160	70
Aides, orderlies, & attendants ....	551	19	Nurses, L.P.N. ....	42	18
Nurses, L.P.N. ....	534	19	Medical technologists .....	10	4
Medical technologists .....	145	5	Social workers .....	9	4
Social workers .....	95	3	Clinical psychologists .....	6	3
<b>RHODE ISLAND</b>			<b>MARYLAND</b>		
All categories of need--total .....	854	100	All categories of need--total .....	2,386	100
Five most urgent needs--total .....	742	87	Five most urgent needs--total .....	1,790	75
Nurses, R.N. ....	281	38	Nurses, R.N. ....	975	54
Aides, orderlies, & attendants ....	253	34	Aides, orderlies, & attendants ....	421	24
Nurses, L.P.N. ....	172	23	Nurses, L.P.N. ....	254	14
Social workers .....	22	3	Medical technologists .....	122	7
Physical therapists .....	14	2	Dietitians .....	18	1
<b>CONNECTICUT</b>			<b>DISTRICT OF COLUMBIA</b>		
All categories of need--total .....	1,445	100	All categories of need--total .....	1,446	100
Five most urgent needs--total .....	1,152	80	Five most urgent needs--total .....	1,145	79
Nurses, R.N. ....	612	53	Nurses, R.N. ....	910	79
Aides, orderlies, & attendants ....	286	25	Nurses, L.P.N. ....	81	7
Nurses, L.P.N. ....	193	17	Aides, orderlies, & attendants ....	71	6
Social workers .....	33	3	Clerical .....	57	5
Medical technologists .....	28	2	Medical technologists .....	26	2



**MOST URGENT PERSONNEL NEEDS (CONTINUED)**  
 Five Categories Most Frequently Reported; All Reporting Hospitals  
 By Regions and by States within Regions

CATEGORY	NUMBER OF PERSONNEL NEEDED	PER CENT OF TOTAL	CATEGORY	NUMBER OF PERSONNEL NEEDED	PER CENT OF TOTAL
<b>VIRGINIA</b>			<b>INDIANA</b>		
All categories of need--total .....	2,176	100	All categories of need--total .....	2,147	100
Five most urgent needs--total .....	1,446	66	Five most urgent needs--total .....	1,755	82
Nurses, R.N. ....	922	64	Nurses, R.N. ....	915	52
Nurses, L.P.N. ....	231	16	Aides, orderlies, & attendants ....	392	22
Aides, orderlies, & attendants ....	217	15	Nurses, L.P.N. ....	313	18
Medical technologists .....	56	4	Medical technologists .....	111	6
Radiologic technologists.....	20	1	Dietitians .....	24	1
<b>WEST VIRGINIA</b>			<b>ILLINOIS</b>		
All categories of need--total .....	902	100	All categories of need--total .....	6,364	100
Five most urgent needs--total .....	699	77	Five most urgent needs--total .....	2,548	40
Nurses, R.N. ....	422	60	Nurses, R. N. ....	2,131	84
Nurses, L.P.N. ....	167	24	Medical technologists .....	151	6
Aides, orderlies, & attendants ....	83	12	Clerical .....	139	5
Medical technologists .....	17	2	Dietitians .....	76	3
Dietitians .....	10	1	Physical Therapists .....	51	2
<b>NORTH CAROLINA</b>			<b>MICHIGAN</b>		
All categories of need--total .....	2,063	100	All categories of need--total .....	4,020	100
Five most urgent needs--total .....	1,620	78	Five most urgent needs--total .....	3,200	80
Nurses, R.N. ....	972	60	Nurses, R.N. ....	1,681	53
Nurses, L.P.N. ....	271	17	Nurses, L.P.N. ....	798	25
Aides, orderlies, & attendants ....	257	16	Aides, orderlies, & attendants ....	552	17
Medical technologists .....	92	6	Medical technologists .....	117	4
Dietitians .....	28	2	Physical therapists .....	52	2
<b>SOUTH CAROLINA</b>			<b>WISCONSIN</b>		
All categories of need--total .....	1,344	100	All categories of need--total .....	1,950	100
Five most urgent needs--total .....	1,072	80	Five most urgent needs--total .....	1,649	84
Nurses, R.N. ....	515	48	Nurses, R.N. ....	807	49
Aides, orderlies, & attendants ....	287	27	Aides, orderlies, & attendants ....	367	22
Nurses, L.P.N. ....	211	20	Nurses, L.P.N. ....	333	20
Medical technologists .....	45	4	Medical technologists .....	118	7
Dietitians .....	14	1	Physical therapists .....	24	1
<b>GEORGIA</b>			<b>EAST SOUTH CENTRAL</b>		
All categories of need--total .....	2,402	100	All categories of need--total .....	6,088	100
Five most urgent needs--total .....	1,436	60	Five most urgent needs--total .....	4,892	80
Nurses, L.P.N. ....	710	49	Nurses, R.N. ....	2,507	51
Aides, orderlies, & attendants ....	350	24	Nurses, L.P.N. ....	1,220	25
Nurses, R.N. ....	306	21	Aides, orderlies, & attendants ....	974	20
Medical technologists .....	61	4	Medical technologists .....	136	3
Dietitians .....	9	0	Physical therapists .....	55	1
<b>FLORIDA</b>			<b>KENTUCKY</b>		
All categories of need--total .....	2,514	100	All categories of need--total .....	2,053	100
Five most urgent needs--total .....	2,126	84	Five most urgent needs--total .....	1,560	76
Nurses, R.N. ....	1,293	61	Nurses, R.N. ....	732	47
Nurses, L.P.N. ....	400	19	Aides, orderlies, & attendants ....	432	28
Aides, orderlies, & attendants ....	253	12	Nurses, L.P.N. ....	348	22
Medical technologists .....	129	6	Dietitians .....	24	2
Radiologic technologists .....	51	2	Radiologic technologists .....	24	2
<b>EAST NORTH CENTRAL</b>			<b>TENNESSEE</b>		
All categories of need--total .....	19,382	100	All categories of need--total .....	1,941	100
Five most urgent needs--total .....	15,875	82	Five most urgent needs--total .....	1,629	84
Nurses, R.N. ....	7,792	49	Nurses, R.N. ....	839	52
Aides, orderlies, & attendants ....	4,436	28	Nurses, L.P.N. ....	526	32
Nurses, L.P.N. ....	2,763	17	Aides, orderlies, & attendants ....	215	13
Medical technologists .....	682	4	Medical technologists .....	34	2
Physical therapists .....	201	1	Medical record librarians .....	15	0
<b>OHIO</b>			<b>ALABAMA</b>		
All categories of need--total .....	4,901	100	All categories of need--total .....	1,340	100
Five most urgent needs--total .....	3,983	81	Five most urgent needs--total .....	1,067	79
Nurses, R. N. ....	2,168	54	Nurses, R. N. ....	612	57
Aides, orderlies, & attendants ....	950	24	Nurses, L.P.N. ....	231	22
Nurses, L.P.N. ....	619	16	Aides, orderlies, & attendants ....	151	14
Medical technologists .....	186	5	Medical technologists .....	54	5
Physical therapists .....	60	2	*Administrators .....	19	2

\*Categories of urgent need were not restricted to those for which personnel data were requested; this is one of the additional categories named in the responses.

**MOST URGENT PERSONNEL NEEDS (CONTINUED)**  
 Five Categories Most Frequently Reported; All Reporting Hospitals  
 By Regions and by States within Regions

CATEGORY	NUMBER OF PERSONNEL NEEDED	PER CENT OF TOTAL	CATEGORY	NUMBER OF PERSONNEL NEEDED	PER CENT OF TOTAL
<b>MISSISSIPPI</b>			<b>KANSAS</b>		
All categories of need--total .....	752	100	All categories of need--total .....	1,181	100
Five most urgent needs--total .....	494	65	Five most urgent needs--total .....	954	81
Nurses, R.N. ....	320	65	Nurses, R.N. ....	519	54
Nurses, L.P.N. ....	116	23	Nurses, L.P.N. ....	231	24
Medical technologists .....	27	5	Aides, orderlies, & attendants ....	153	16
Dietitians .....	19	4	Dietitians .....	26	3
Certified lab assistants .....	12	2	Physical therapists .....	25	3
<b>WEST NORTH CENTRAL</b>			<b>WEST SOUTH CENTRAL</b>		
All categories of need--total .....	11,246	100	All categories of need--total .....	9,338	100
Five most urgent needs--total .....	10,810	96	Five most urgent needs--total .....	6,544	70
Nurses, R.N. ....	4,776	44	Nurses, R.N. ....	4,036	62
Aides, orderlies, & attendants ....	2,583	24	Nurses, L.P.N. ....	1,989	30
Nurses, L.P.N. ....	1,751	16	Medical technologists .....	317	5
Dietitians .....	1,432	13	Dietitians .....	124	2
Medical technologists .....	268	2	Medical record librarians .....	78	1
<b>MINNESOTA</b>			<b>ARKANSAS</b>		
All categories of need--total .....	3,869	100	All categories of need--total .....	758	100
Five most urgent needs--total .....	1,549	40	Five most urgent needs--total .....	641	85
Nurses, R.N. ....	925	60	Nurses, R.N. ....	361	56
Nurses, L.P.N. ....	453	29	Nurses, L.P.N. ....	151	24
Medical technologists .....	65	4	Aides, orderlies, & attendants ....	88	14
Physical therapists .....	59	4	Medical technologists .....	21	3
Dietitians .....	47	3	Dietitians .....	20	3
<b>IOWA</b>			<b>LOUISIANA</b>		
All categories of need--total .....	1,212	100	All categories of need--total .....	2,008	100
Five most urgent needs--total .....	900	74	Five most urgent needs--total .....	1,669	83
Nurses, R.N. ....	475	53	Nurses, R.N. ....	1,076	64
Nurses, L.P.N. ....	263	29	Nurses, L.P.N. ....	497	30
Aides, orderlies, & attendants ....	121	13	Medical technologists .....	57	3
Dietitians .....	22	2	Aides, orderlies, & attendants ....	29	2
Physical therapists .....	19	2	Dietitians .....	10	1
<b>MISSOURI</b>			<b>OKLAHOMA</b>		
All categories of need--total .....	2,944	100	All categories of need--total .....	1,022	100
Five most urgent needs--total .....	2,481	84	Five most urgent needs--total .....	596	58
Nurses, R.N. ....	1,001	40	Nurses, R.N. ....	486	82
Aides, orderlies, & attendants ....	859	35	Medical technologists .....	47	8
Nurses, L.P.N. ....	504	20	Nurses, L.P.N. ....	31	5
Medical technologists .....	77	3	Dietitians .....	19	3
Dietitians .....	40	2	Medical record librarians .....	13	2
<b>NORTH DAKOTA</b>			<b>TEXAS</b>		
All categories of need--total .....	431	100	All categories of need--total .....	5,550	100
Five most urgent needs--total .....	255	59	Five most urgent needs--total .....	3,871	69
Nurses, R.N. ....	187	73	Nurses, R.N. ....	2,383	62
Nurses, L.P.N. ....	42	16	Nurses, L.P.N. ....	1,167	30
Dietitians .....	11	4	Medical technologists .....	193	5
Physical therapists .....	8	3	Dietitians .....	75	2
Medical record librarians .....	7	3	Medical record librarians .....	53	1
<b>SOUTH DAKOTA</b>			<b>MOUNTAIN</b>		
All categories of need--total .....	416	100	All categories of need--total .....	3,368	100
Five most urgent needs--total .....	298	72	Five most urgent needs--total .....	2,344	69
Nurses, R.N. ....	152	51	Nurses, R.N. ....	1,452	62
Nurses, L.P.N. ....	83	28	Nurses, L.P.N. ....	612	26
Aides, orderlies, & attendants ....	46	15	Medical technologists .....	153	7
Medical technologists .....	9	3	Dietitians .....	74	3
Radiologic technologists .....	8	3	Medical record librarians .....	53	2
<b>NEBRASKA</b>			<b>MONTANA</b>		
All categories of need--total .....	1,193	100	All categories of need--total .....	299	100
Five most urgent needs--total .....	1,005	84	Five most urgent needs--total .....	190	63
Nurses, R.N. ....	513	51	Nurses, R.N. ....	113	59
Aides, orderlies, & attendants ....	267	27	Nurses, L.P.N. ....	48	25
Nurses, L.P.N. ....	175	17	Medical technologists .....	12	6
Medical technologists .....	30	3	Dietitians .....	11	6
Dietitians .....	20	2	Medical record librarians .....	6	3

**MOST URGENT PERSONNEL NEEDS (CONTINUED)**  
 Five Categories Most Frequently Reported; All Reporting Hospitals  
 By Regions and by States within Regions

CATEGORY	NUMBER OF PERSONNEL NEEDED	PER CENT OF TOTAL	CATEGORY	NUMBER OF PERSONNEL NEEDED	PER CENT OF TOTAL
<b>IDAHO</b>			<b>WASHINGTON</b>		
All categories of need--total .....	316	100	All categories of need--total .....	1,278	100
Five most urgent needs--total .....	252	79	Five most urgent needs--total .....	1,046	82
Nurses, R.N. ....	109	43	Nurses, R.N. ....	442	42
Nurses, L.P.N. ....	104	41	Nurses, L.P.N. ....	341	33
Medical technologists .....	21	8	Aides, orderlies, & attendants ....	216	21
Dietitians .....	10	4	Medical technologists .....	30	3
Medical record librarians .....	8	3	Dietitians .....	17	2
<b>WYOMING</b>			<b>OREGON</b>		
All categories of need--total .....	174	100	All categories of need--total .....	732	100
Five most urgent needs--total .....	119	68	Five most urgent needs--total .....	638	87
Nurses, R.N. ....	84	71	Nurses, R.N. ....	267	42
Medical technologists .....	15	13	Aides, orderlies, & attendants ....	231	36
Dietitians .....	8	7	Nurses, L.P.N. ....	99	16
Physical therapists .....	6	5	Clerical .....	33	5
Medical record librarians .....	6	5	Physical therapists .....	8	1
<b>COLORADO</b>			<b>CALIFORNIA</b>		
All categories of need--total .....	898	100	All categories of need--total .....	5,751	100
Five most urgent needs--total .....	585	65	Five most urgent needs--total .....	4,232	74
Nurses, R.N. ....	376	64	Nurses, R.N. ....	3,045	72
Nurses, L.P.N. ....	145	25	Nurses, L.P.N. ....	910	22
Medical technologists .....	31	5	Medical technologists .....	138	3
Dietitians .....	19	3	Physical therapists .....	82	2
Medical record librarians .....	14	2	Radiologic technologists .....	57	1
<b>NEW MEXICO</b>			<b>ALASKA</b>		
All categories of need--total .....	404	100	All categories of need--total .....	55	100
Five most urgent needs--total .....	305	75	Five most urgent needs--total .....	44	80
Nurses, R.N. ....	189	62	Nurses, R.N. ....	24	55
Nurses, L.P.N. ....	68	22	Aides, orderlies, & attendants ....	13	30
Medical technologists .....	20	7	Dietitians .....	3	7
*Physicians .....	16	5	Medical record librarians .....	2	5
Clerical .....	12	4	Anesthetists .....	2	5
<b>ARIZONA</b>			<b>HAWAII</b>		
All categories of need--total .....	720	100	All categories of need--total .....	139	100
Five most urgent needs--total .....	569	79	Five most urgent needs--total .....	103	74
Nurses, R.N. ....	309	54	Nurses, R.N. ....	57	55
Nurses, L.P.N. ....	116	20	Nurses, L.P.N. ....	27	26
Aides, orderlies, & attendants ....	113	20	Medical technologists .....	10	10
Medical technologists .....	21	4	Radiologic technologists .....	5	5
Social workers .....	10	2	Licensed pharmacists .....	4	4
<b>UTAH</b>					
All categories of need--total .....	361	100			
Five most urgent needs--total .....	284	79			
Nurses, R.N. ....	174	61			
Nurses, L.P.N. ....	79	28			
Medical technologists .....	24	8			
Radiologic technologists .....	4	1			
Dietitians .....	3	1			
<b>NEVADA</b>					
All categories of need--total .....	196	100			
Five most urgent needs--total .....	164	84			
Nurses, R.N. ....	97	59			
Nurses, L.P.N. ....	37	23			
Dietitians .....	14	9			
Medical technologists .....	9	5			
X-ray technicians .....	7	4			
<b>PACIFIC</b>					
All categories of need--total .....	7,955	100			
Five most urgent needs--total .....	7,160	90			
Nurses, R.N. ....	3,804	53			
Aides, orderlies, & attendants ....	1,698	24			
Nurses, L.P.N. ....	1,356	19			
Medical technologists .....	192	3			
Physical therapists .....	110	2			

\*Categories of urgent need were not restricted to those for which personnel data were requested; this is one of the additional categories named in the responses.

## REPORTING HOSPITALS

Utilization Data for the Week and Year Ending April 23, 1966

GEOGRAPHIC AREA	HOSPITALS REPORTING	BEDS	ADMISSIONS		INPATIENT DAYS		NEWBORN DAYS		OUTPATIENT VISITS	
			WEEK	YEAR	WEEK	YEAR	WEEK	YEAR	WEEK	YEAR
United States.....	5,342	1,418,722	568,921	23,894,270	8,397,786	375,226,912	438,952	13,820,496	2,131,268	97,437,708
New England.....	325	102,370	31,082	1,484,097	709,460	30,869,051	78,930	1,044,336	116,450	5,584,619
Maine .....	47	8,672	2,442	120,734	51,154	2,654,218	1,265	72,740	11,086	559,260
New Hampshire.....	28	5,993	1,721	84,517	34,231	1,804,187	901	49,954	3,034	172,030
Vermont .....	22	4,117	1,027	50,524	41,521	1,271,146	547	27,386	1,769	88,307
Massachusetts .....	151	54,761	15,503	773,787	419,593	16,485,935	70,482	577,175	66,577	3,132,366
Rhode Island.....	23	8,528	2,485	118,390	46,238	2,466,953	1,527	82,531	10,618	529,158
Connecticut .....	54	20,299	7,904	336,145	116,723	6,186,612	4,208	234,550	23,366	1,103,498
Middle Atlantic.....	729	332,212	98,224	4,360,838	1,996,922	81,032,324	102,838	2,727,530	435,389	18,776,015
New York .....	345	176,039	44,897	2,066,449	1,028,139	38,029,539	24,731	1,292,301	280,971	10,389,777
New Jersey.....	112	45,068	20,075	737,685	238,506	12,661,624	11,034	484,673	53,503	2,290,163
Pennsylvania .....	272	111,105	33,252	1,556,704	730,277	30,341,161	67,073	950,556	100,915	6,096,075
South Atlantic.....	635	186,653	78,208	3,343,837	1,222,442	51,952,946	34,382	1,801,022	361,890	16,405,226
Delaware .....	12	3,758	1,088	58,900	21,355	1,128,284	651	33,893	7,451	365,693
Maryland .....	65	28,017	7,951	327,669	260,737	8,554,163	4,110	216,514	53,981	2,450,667
Dist. Columbia.....	19	15,062	4,045	183,193	87,714	3,486,686	3,344	145,511	32,274	1,330,179
Virginia .....	92	34,737	17,990	502,923	202,243	9,173,843	5,478	321,130	50,180	2,431,542
West Virginia.....	53	12,530	5,529	231,703	95,335	3,818,419	2,183	95,987	16,637	806,545
North Carolina.....	114	29,738	11,035	525,011	178,915	9,108,955	4,983	259,484	42,920	2,142,371
South Carolina.....	53	15,672	5,528	288,535	90,029	4,540,487	2,451	135,671	42,033	1,461,926
Georgia .....	93	17,526	10,285	509,441	100,556	4,994,668	4,623	257,723	54,542	2,683,128
Florida .....	134	29,613	14,752	716,462	185,558	7,147,441	6,559	335,109	61,872	2,733,175
East North Central....	945	295,702	130,489	4,704,581	1,633,495	79,558,881	52,970	2,699,484	323,357	14,353,830
Ohio .....	213	74,541	23,281	1,164,635	402,111	21,143,930	13,270	714,316	76,451	3,433,181
Indiana .....	113	28,775	11,493	590,276	161,255	8,524,691	6,380	351,728	22,950	1,130,175
Illinois .....	262	104,114	62,886	1,414,951	481,350	22,773,879	15,401	722,524	111,101	4,426,640
Michigan .....	194	61,267	19,266	941,270	373,542	18,961,732	11,305	584,329	89,886	4,241,035
Wisconsin .....	163	27,005	13,563	593,449	214,907	8,154,649	6,614	326,587	22,969	1,122,799
East South Central....	355	80,380	30,870	1,496,847	454,056	20,703,051	92,292	659,967	95,924	4,297,292
Kentucky .....	108	18,117	9,090	432,367	104,596	5,337,176	3,302	192,790	25,141	1,176,486
Tennessee .....	104	26,458	9,545	459,540	152,534	6,407,498	3,760	214,775	24,179	1,130,190
Alabama .....	88	22,952	7,318	395,309	142,695	4,588,630	3,444	176,042	29,097	1,317,969
Mississippi .....	55	12,853	4,917	209,631	54,231	3,275,747	81,786	76,360	17,507	672,647
West North Central....	704	122,511	53,586	2,259,318	659,297	34,607,147	22,928	1,128,538	130,114	6,522,039
Minnesota .....	171	28,905	11,981	582,117	170,084	8,170,037	8,183	316,408	22,556	1,090,851
Iowa .....	102	18,713	7,360	367,714	101,381	5,186,152	3,397	188,475	15,589	747,077
Missouri .....	114	36,499	19,008	557,340	188,398	10,484,009	4,752	256,938	37,899	1,934,353
North Dakota.....	55	6,340	2,412	116,041	30,641	1,556,419	1,072	53,960	7,934	346,810
South Dakota.....	54	6,052	2,164	116,726	33,337	1,739,630	1,014	54,281	7,332	606,980
Nebraska .....	85	10,505	3,949	196,244	50,675	3,141,062	1,814	102,971	13,038	503,657
Kansas .....	123	15,497	6,712	323,136	84,781	4,329,838	2,696	155,505	25,766	1,292,311
West South Central....	633	101,205	46,753	2,401,722	598,333	26,385,789	18,007	1,932,589	209,150	10,062,921
Arkansas .....	60	8,172	4,877	234,533	52,936	2,389,273	1,629	99,543	14,640	739,939
Louisiana .....	89	20,054	8,273	408,270	110,479	4,356,250	3,178	1,093,950	46,652	2,413,858
Oklahoma .....	95	10,915	5,727	287,954	62,018	2,884,443	2,208	131,961	23,783	1,053,432
Texas .....	389	62,064	27,876	1,470,965	372,900	16,755,823	10,992	607,135	124,075	5,855,692
Mountain .....	354	45,494	24,528	1,086,792	256,301	12,016,330	12,468	506,671	105,012	5,222,917
Montana .....	49	4,901	2,424	119,499	30,559	1,364,088	974	50,082	5,974	287,257
Idaho .....	46	3,306	1,782	87,819	15,795	830,752	857	39,721	5,703	189,362
Wyoming .....	24	2,747	822	48,408	14,749	781,525	605	18,845	2,419	122,879
Colorado .....	83	15,121	9,013	348,724	82,963	4,176,786	2,595	146,128	34,554	1,777,962
New Mexico.....	48	5,809	3,522	126,022	26,392	1,372,915	1,286	66,909	17,682	854,224
Arizona .....	65	8,221	4,001	204,609	53,727	2,012,558	4,575	106,204	27,412	1,432,833
Utah .....	26	3,781	1,866	92,578	20,021	1,009,738	1,056	51,089	6,165	317,525
Nevada .....	13	1,608	1,098	59,133	12,095	467,968	520	27,693	5,103	240,875
Pacific .....	662	152,195	75,181	2,756,238	867,480	38,101,393	24,137	1,320,359	353,982	16,212,849
Washington .....	106	16,806	7,577	401,142	80,959	4,626,771	2,978	159,213	30,206	1,622,524
Oregon .....	65	12,834	4,521	236,715	53,965	3,400,799	1,934	102,202	14,893	852,910
California .....	447	116,698	60,542	1,992,000	706,528	28,690,385	17,669	973,621	285,282	12,535,799
Alaska .....	18	1,142	675	34,105	6,167	302,013	479	21,715	6,883	351,488
Hawaii .....	26	4,715	1,866	92,276	19,861	1,081,425	1,077	63,608	16,718	850,128

SURVEY OF MANPOWER RESOURCES IN HOSPITALS

1966

Budget Bureau No. 68-6567  
Approval Expires 6-30-66

A. HOSPITAL IDENTIFICATION

1-2	3-4	5	6	7-10	11-13	14-15	16-21

INSTRUCTIONS: From your hospital records please compile the information necessary to complete this questionnaire. Before answering any of the questions, please read the enclosed folder, "Instructions and Definitions for Completing the Survey of Manpower Resources in Hospitals." As you begin each new section of the questionnaire, reread the instructions and definitions applicable to that section.

B. HOSPITAL PERSONNEL

Read carefully the instructions and definitions applicable to this section before completing the schedule below. Record all data for the reporting week beginning 12:01 a.m. April 17, 1966 through midnight April 23, 1966. Enter zero (0) in each box where you have no personnel. COUNT EACH PERSON ONLY ONCE.

CATEGORY OF PERSONNEL	Column I Number of full-time employees	Column II Number of part-time employees	Column III Total hours worked by part-time employees week of 4/17/66 thru 4/23/66
<b>PROFESSIONAL AND TECHNICAL</b>	01-1	04-1	00-3
1.a. Dietitians meeting ADA qualifications.....			
b. Other dietitians .....			
2. Food service managers .....			
3.a. Medical technologists—ASCP registered.....			
b. Medical technologists—other registration or certification.....			
c. Other medical technologists (technicians).....			
4.a. Cytotechnologists—ASCP registered .....			
b. Other cytotechnologists (cytotechnicians).....			
5.a. Histologic technicians—ASCP registered.....			
b. Other histologic technicians.....			
6. Electrocardiograph technicians .....			
7. Electroencephalograph technicians .....			
8.a. Radiologic (X-ray) technologists (technicians)—ARRT registered.....			
b. Other radiologic (X-ray) technologists (technicians).....			
9. X-ray assistants (including darkroom helpers).....			
10.a. Nuclear medicine technologists (technicians)—ARRT registered.....			
b. Other nuclear medicine technologists (technicians).....			
11. Nuclear medicine assistants.....			
12.a. Radiation therapy technologists (technicians)—ARRT registered.....			08-3
b. Other radiation therapy technologists (technicians).....			
13. Radiation therapy assistants.....			
14.a. Certified laboratory assistants—ASCP certified.....			
b. Other laboratory assistants and aides.....			
15.a. Occupational therapists—AOTA registered.....			
b. Other occupational therapists.....			
16.a. Occupational therapy assistants—AOTA certified.....			
b. Other occupational therapy assistants and aides.....			
17.a. Physical therapists—qualified .....			
b. Other physical therapists.....			
18. Physical therapy assistants and aides.....			
19.a. Speech pathologists and audiologists—ASHA certified.....			
b. Other speech pathologists and audiologists.....			
20. Recreation therapists .....			
21.a. Inhalation therapists—AAIT registered.....			
b. Other inhalation therapists.....			
22. Licensed pharmacists .....			
23. Pharmacy assistants .....			
24.a. Medical librarians—MLA certified.....			
b. Other medical librarians.....			
25.a. Medical record librarians—AAMRL registered.....			08-3
b. Other medical record librarians.....			
26.a. Medical record technicians—AAMRL certified.....			
b. Other medical record technicians.....			
27.a. Social workers—master's degree in social work.....			
b. Other social workers—baccalaureate degree.....			
28. Social work assistants and aides—non AB or MA.....			
29. Orthotic technicians .....			
30. Surgical technical aides (surgical technicians).....			
31. Nurses, professional (not incl. in 1-30).....	02-4	08-4	11-4
32. Nurses, licensed practical or vocational (not incl. in 1-30).....			
33. Nursing aides, orderlies, and attendants.....			
34. All other professional and technical personnel.....			
<b>Total professional and technical (1-34).....</b>			
<b>OTHER HOSPITAL PERSONNEL</b>	03-3	08-3	18-4
35. Food service (not included in 1 and 2).....			
36. Laundry .....			
37. Housekeeping (include floor maids).....			
38. Maintenance .....			
39. All other a. Management .....			
b. Secretarial, clerical .....			
<b>Total other hospital personnel (35-39).....</b>	11-4	11-4	
<b>Grand total (1-39).....</b>			

PLEASE REVERSE ATTACHED CARBON PAPER BEFORE COMPLETING THIS PAGE

**C. BUDGETED POSITIONS PRESENTLY VACANT AND ESTIMATED NEEDS FOR PROFESSIONAL AND TECHNICAL PERSONNEL**

Read carefully the instructions applicable to this section. The definitions of the various types of personnel listed below may be found in the instruction booklet under Section B. If there are no positions presently vacant, or if there is no estimated need in these positions, enter a zero (0) in that box.

CATEGORY OF PERSONNEL	Column I Budgeted vacancies at end of reporting week.	Column II Estimated personnel needed to provide optimum care for present patient load, in addition to persons listed in Column I.	Column III Estimated personnel needed to provide optimum care for estimated patient load a year from reporting week, in addition to persons listed in Columns I and II.
<b>PROFESSIONAL AND TECHNICAL</b>	11-1	13-1	16-1
1.a. Dietitians meeting ADA qualifications.....			
b. Other dietitians .....			
2. Food service managers .....			
3.a. Medical technologists—ASCP registered.....			
c. Other medical technologists (technicians).....			
4.a. Cytotechnologists—ASCP registered .....			
b. Other cytotechnologists (cytotechnicians).....			
5.a. Histologic technicians—ASCP registered.....			
b. Other histologic technicians.....			
6. Electrocardiograph technicians .....			
7. Electroencephalograph technicians .....			
8.a. Radiologic (X-ray) technologists (technicians)—ARRT registered.....			
b. Other radiologic (X-ray) technologists (technicians).....			
9. X-ray assistants (including darkroom helpers).....			
10.a. Nuclear medicine technologists (technicians)—ARRT registered.....			
b. Other nuclear medicine technologists (technicians).....			
11. Nuclear medicine assistants.....			
12.a. Radiation therapy technologists (technicians)—ARRT registered.....			
b. Other radiation therapy technologists (technicians).....			
13. Radiation therapy assistants.....			
14.a. Certified laboratory assistants—ASCP certified.....			
b. Other laboratory assistants and aides.....			
15.a. Occupational therapists—AOTA registered.....			
b. Other occupational therapists.....			
16.a. Occupational therapy assistants—AOTA certified.....			
b. Other occupational therapy assistants and aides.....			
17.a. Physical therapists—qualified .....			
b. Other physical therapists.....			
18. Physical therapy assistants and aides.....			
19.a. Speech pathologists and audiologists—ASHA certified.....			
b. Other speech pathologists and audiologists.....			
20. Recreation therapists .....			
21.a. Inhalation therapists—AAIT registered.....			
b. Other inhalation therapists.....			
22. Licensed pharmacists .....			
23. Pharmacy assistants .....			
24.a. Medical librarians—MLA certified.....			
b. Other medical librarians .....			
25.a. Medical record librarians—AAMRL registered.....			
b. Other medical record librarians.....			
26.a. Medical record technicians—AAMRL certified.....			
b. Other medical record technicians.....			
27.a. Social workers—master's degree in social work.....			
b. Other social workers—baccalaureate degree.....			
28. Social work assistants and aides—non AB or MA.....			
29. Orthoptic technicians .....			
30. Surgical technical aides (surgical technicians).....			
31. Nurses, professional (not incl. in 1-30).....	12-3	14-3	16-4
32. Nurses, licensed practical or vocational (not incl. in 1-30).....			
33. Nursing aides, orderlies, and attendants.....			
34. All other professional and technical personnel.....			

FIVE MOST URGENT MANPOWER NEEDS	Number
1.	16-6
2.	
3.	
4.	
5.	

Does your hospital have a salaried Director of Training (do not include Director of Medical Education or Department of Nursing Service inservice training staff)? Yes  No

D. BEDS AND UTILIZATION	Column I Figures for 12-month period ending 4/23/66 or Specify date	Column II Figures for week beginning 12:01 a. m. 4/17/66 through midnight 4/23/66
1.a. Adult and pediatric bed capacity (set up and staffed for use as of reporting date).....		16-6 1.a.
b. Newborn bed capacity (set up and staffed as of reporting date).....		b.
2. Inpatient	17-6	
a. Number of adult and pediatric admissions (excluding newborn).....	2a.	2.a.
b. Total adult and pediatric days (excluding newborn days).....	b.	b.
c. Total newborn days.....	c.	c.
3. Outpatient Total number of emergency and other outpatient visits, excluding those for laboratory tests or x-ray.....	3.	3.

Date of Completion

Signature

IF SIGNED BY PERSON OTHER THAN ADMINISTRATOR, GIVE TITLE

## INSTRUCTIONS AND DEFINITIONS FOR COMPLETING SURVEY OF MANPOWER RESOURCES IN HOSPITALS

These instructions and definitions are designed to clarify sections of the questionnaire. All items are listed in the order in which they appear on the questionnaire, with the exception of Section C, "Budgeted Positions Presently Vacant and Estimated Needs for Professional and Technical Personnel," which utilizes the definitional material in Section B of this booklet.

### GENERAL INSTRUCTIONS AND DEFINITIONS

The following applies to all sections of the questionnaire.

#### Personnel to be counted:

1. All full and part-time personnel, except those excluded below, who have worked in your institution during the reporting week, including members of religious orders, whether paid or unpaid. For the purpose of this survey, full-time personnel are those whose regularly scheduled work week is 35 or more hours in your institution. Part-time personnel are those whose regularly scheduled work week is less than 35 hours in your institution.
2. Personnel who are regular employees but who were absent temporarily during the reporting week because of sick leave, vacation, or attendance at a short-term training program, institute or convention.

#### Personnel to be excluded:

1. Physicians and dentists.
2. Volunteer workers.
3. Private duty nurses.
4. Persons in training, including student nurses, and other trainees enrolled in formal programs.
5. Personnel who terminated employment during the reporting week and were replaced during the reporting week.
6. Personnel who worked on an "on call" rather than a regularly scheduled basis to relieve certain regular employees who were absent during the reporting week.

### SPECIFIC INSTRUCTIONS AND DEFINITIONS

#### Questionnaire Section B—Hospital Personnel

This section of the questionnaire requests information on 34 professional and technical positions and five (5) categories of other hospital personnel. Please read carefully the definitions of these positions on pages 2 to 4 in this booklet. In certain positions there is a registration or certification program available. In these there are two lines in which to record your personnel; one for registered or certified and one for non-registered or noncertified.

You are requested to report the number of full-time personnel, the number of part-time personnel and the total number of hours worked by these part-time personnel during the reporting week. For example: if you have four (4) pharmacists, two who work full-time and two who work part-time, you would report the two full-time personnel in Column I, the two part-time personnel in Column II, and the hours that the part-time personnel worked, during the reporting week, in Column III. *Record a particular employee only once whether he is full-time or part-time.* To avoid duplication in counting persons who may hold more than one position or responsibility, record the worker in the position in which the majority of his time (over 50%) is spent. The figure you report in the "grand total (1-39)" should equal the *total number of employees—full-time and part-time—employed in your hospital during the reporting week, minus the personnel excluded in accordance with the general instructions above.*

### **Definitions: Selected Professional and Technical Personnel**

1. **Dietitian**—plans nutritionally adequate menus, including modified diets, and supervises the preparation and service of meals for patients and personnel. Report on 1.a. *only* those dietitians who meet the educational qualifications of the American Dietetic Association.
2. **Food service manager**—a person who has had experience in food service administration, and is designated as head of the hospital food service department.
3. **Medical technologist**—performs various chemical, bacteriological, seriological, and hematological tests. Report on line 3.a. *only* those medical technologists registered by the American Society of Clinical Pathologists. Report on line 3.b. *only* those medical technologists who are *not* registered by ASCP but who are registered or certified by other medical technology organizations.
4. **Cytotechnologist**—specially trained to search for abnormalities in human cells which might suggest cancer. Report on line 4.a. *only* those cytotechnologists registered by the American Society of Clinical Pathologists.
5. **Histologic technician**—specially trained in the preparation of thin sections of tissue for examination to determine the presence or absence of disease. Report on line 5.a. *only* those histologic technicians registered by the American Society of Clinical Pathologists.
6. **Electrocardiograph technician**—records patterns of heart function.
7. **Electroencephalograph technician**—records brain wave patterns.
8. **Radiologic (X-ray) technologist (technician)**—is responsible for demonstrating portions of the human body on X-ray film or fluoroscopic screen for diagnostic use by the radiologist. Report on line 8.a. *only* those radiologic technologists registered by the American Registry of Radiologic Technologists.
9. **X-ray assistant**—assists the radiologic technologist (technician). Includes darkroom helpers.
10. **Nuclear medicine technologist (technician)**—is responsible for using radioisotopes to assist the radiologist in diagnosis and treatment of illness or injury. Report on 10.a. *only* those nuclear medicine technologists registered by the American Registry of Radiologic Technologists.
11. **Nuclear medicine assistant**—assists the nuclear medicine technologist (technician).
12. **Radiation therapy technologist (technician)**—is responsible for using radiation producing devices to administer therapeutic treatments as prescribed by the radiologist. Report on line 12.a. *only* those radiation therapy technologists registered by the American Registry of Radiologic Technologists.
13. **Radiation therapy assistant**—assists the radiation therapy technologist (technician).
14. **Laboratory assistant or aide**—includes technical personnel who assist the scientific personnel and/or the medical technologists by performing various laboratory tests under supervision. Report on line 14.a. *only* those laboratory assistants certified by the American Society of Clinical Pathologists.
15. **Occupational therapist**—selects and directs physical, educational, social, and daily living activities designed to meet specific needs of mentally or physically disabled patients. Report on line 15.a. *only* those occupational therapists registered by the American Occupational Therapy Association.
16. **Occupational therapy assistant and aide**—assists the occupational therapist. Report on line 16.a. *only* those assistants who are certified by the American Occupational Therapy Association.

17. **Physical therapist**—applies techniques and treatments which help relieve pain, increase the patient's strength, decrease or prevent deformity and crippling. Report on line 17.a. *only* those physical therapists qualified by state licensing where it exists and/or persons who are members of the American Physical Therapy Association or eligible for membership in this association.
18. **Physical therapy assistant or aide**—assists the physical therapist.
19. **Speech pathologist and audiologist**—applies skills to help handicapped persons speak in as normal a fashion as possible and to understand the speech of others. Report on line 19.a. *only* those speech pathologists and audiologists certified by the American Speech and Hearing Association.
20. **Recreation therapist**—develops programs involving sports, crafts, trips, and music rehabilitation and restoration of patients.
21. **Inhalation therapist**—uses skills and equipment to attempt to restore normal function to the respiratory system. Report on line 21.a. *only* those inhalation therapists registered by the American Association of Inhalation Therapists.
22. **Pharmacist**—licensed by the State Board of Pharmacy to practice the profession in your state.
23. **Pharmacy assistant**—assists the pharmacist.
24. **Medical librarian**—organizes and administers library service for hospital staff. Report on line 24.a. *only* those medical librarians certified by the Medical Library Association.
25. **Medical record librarian**—is responsible for planning, organizing, supervising, and maintaining systems of medical records. Report on line 25.a. *only* those medical record librarians registered by the American Association of Medical Record Librarians.
26. **Medical record technician**—assists the medical record librarian in carrying out the technical work within the department. Report on line 26.a. *only* those medical record technicians certified by the American Association of Medical Record Librarians.
27. **Social worker**—report on line 27.a. *only* those social workers with a master's degree in social work. Report on line 27.b. holders of baccalaureate degrees.
28. **Social work assistant and aide**—assists the social worker in carrying out defined tasks in the department.
29. **Orthoptic technician**—under the supervision of an ophthalmologist, works with children and adults who need training in coordinating the use of the eyes.
30. **Surgical technical aide**—assists, under continuous professional nurse supervision, in the care of patients in the operating room and the delivery room. Assists in the care, preparation, and maintenance of sterile and unsterile supplies and equipment.
31. **Nurse, professional**—a graduate of a state-approved school of professional nursing who is currently licensed to practice or who is awaiting licensure to practice in your state. Do *not* include any professional nurses previously reported in categories 1-30 of this section.
32. **Nurse, licensed practical or vocational**—nurses who work under the supervision of professional nurses and/or physicians, who are graduates of state-approved schools of practical nursing and who are licensed or eligible for licensure to practice in your state, or who are granted a license by waiver on the basis of experience and endorsement, rather than upon completion of a prescribed course of study. Do not include any practical nurses previously reported in categories 1-30 of this section.

33. **Nursing aide, orderly and attendant**—assists the nursing staff by performing routine duties in caring for patients, under the direct supervision of professional nurses. Include psychiatric aides.
34. **All other professional and technical personnel**—include all other professional and technical personnel *not* reported in categories 1-33. Do *not* include personnel who should be assigned to categories 35-38.

**Definitions: Other Hospital Personnel**

35. **Food service**—all personnel other than dietitians and food service managers who assist in the preparation and serving of food.
36. **Laundry**—all personnel, including supervisors, who handle, wash and distribute laundry. If the laundry service is contracted outside the hospital, report here *only* those laundry personnel who are *paid by* and *are under the supervision of the hospital*.
37. **Housekeeping**—all personnel, including supervisors, and floor maids, who are responsible for the cleanliness of all areas of the hospital plant.
38. **Maintenance**—all personnel, including supervisors, who are responsible for maintenance of the hospital plant and upkeep of the grounds. If your hospital has a security service or guards *paid by* and *under the supervision of the hospital*, these personnel should be reported in this category.
39. **All other**
  - a. **Management**—include the hospital administrator, assistant administrator, comptroller, and other management staff.
  - b. **Secretarial, clerical**—include all such personnel here regardless of where they are employed in the hospital.

**Questionnaire Section C—Budgeted Positions Presently Vacant and Estimated Needs for Professional and Technical Personnel**

1. In Column I, "Budgeted Vacancies," report *only those vacancies for which funds are available in the reporting week*.
2. In Column II, "Estimate of Additional Personnel . . . for Present Patient Load," enter estimates for additional personnel, in excess of present budgeted personnel, that you believe are needed on the basis of current services and patient load. Do *not* include estimates of personnel needed to establish new departments or services.
3. In Column III, "Estimate of Additional Personnel for Patient Load as of one year from reporting week," enter your estimate of all additional personnel that you anticipate will be needed at that time (after Public Law 89-97, Medicare, has gone into effect). Take into account 1) additional personnel required to staff projected new services or departments and 2) additional personnel required to meet any estimated increase in patient load. If your hospital has a short-range position or personnel plan, the figures in that plan can be helpful in making these estimates.
4. Using the five (5) lines at the end of this section, please list the most urgent manpower needs of your hospital. They may include, *but are not restricted to*, the categories of personnel for whom data are requested in this survey. Please list in order of greatest need or priority, and give the numbers of personnel required.

**Questionnaire Section D—General Information**

1. Report all data for Column I of Section D for the 12-month period ending April 23, 1966. Give the ending date of the reporting period if it differs from the requested one.
2. Report all data for Column II of Section D for the week beginning 12:01 a.m. April 17, 1966 through midnight April 23, 1966.