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# CONSOLIDATED ANNUAL REPORT

on

## State and Territorial

## Public Health Laboratories

## Fiscal Year 1968



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION  
NATIONAL COMMUNICABLE DISEASE CENTER  
ATLANTA, GEORGIA 30333

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CONSOLIDATED ANNUAL REPORT  
on State and Territorial  
Public Health Laboratories  
Fiscal Year 1968  
For Administrative Use Only

JANUARY 1970

A Collaborative Compilation  
by the  
U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service  
Health Services and Mental Health Administration  
National  
Communicable Disease Center  
Laboratory Division  
Atlanta, Georgia 30333  
and the  
Association of State and Territorial  
Public Health Laboratory Directors

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## INTRODUCTION

## INTRODUCTION

This is the fifth in a series of annual reports which describe State and territorial public health laboratories in quantitative terms, using input data supplied by the laboratory directors. Also, it is the second compilation of certain data collected on a quadrennial basis. The first quadrennial report was for fiscal year 1964. Compilation and publication of the data was done by the Laboratory Management Consultation Section, Licensure and Development Branch, Laboratory Division, of the National Communicable Disease Center.

Forty-six States, Puerto Rico, and the Virgin Islands responded to the request for data. Thirty-six of these participants reported for the fiscal year ending June 30, 1968; while, the other twelve responded with data for the 1968 calendar year. This document contains no information on Connecticut, Nevada, Oklahoma, South Dakota, or the District of Columbia.

The most significant difference in format, as compared to the 1967 report, is that format of the diagnostic workload data (Section XV). This section is presented in somewhat abbreviated form, as desired by the Association of State and Territorial Public Health Laboratory Directors. It is reported only by major category of laboratory procedures. Other format changes or additions include: 1) status of laboratory licensure or registration laws; 2) data on facilities; 3) expanded data on participation in intrastate evaluation programs; 4) information concerning laboratory data processing facilities, both software and hardware; and 5) data on PKU screening programs. In addition, the quadrennial sections contain information on personnel policies, employee benefits, education and experience levels of laboratory employees, relationships of the laboratory with other laboratories, and scientific services.

The appearance of an asterisk (\*) indicates that information was not reported, or was not available, for that entry. A dash (-) in the columns of statistical data represents a report with no activity for that particular item. An "X" symbol in some tables represents a "yes" answer. Footnotes are placed either at the end of a section or after every few tables, as seems appropriate.

Totals for the many columns of statistical data are not shown in order to avoid invalid conclusions where individual items were not reported by one or more States. Definitions of examinations and specimens have been provided for guidance in keeping and reporting data to be compiled in the Annual Report. Improvements from year to year in these definitions as well as experience in using them have made laboratory statistics more accurate and meaningful. However, application of the definitions is difficult in some instances. The reader should keep this in mind when making comparisons between States.

Although the information contained in each Consolidated Annual Report is more accurate and complete than in the preceding Report, it may contain errors in interpretation as well as in transcribing and calculating quantities. The principal reason for this is the differences in formats used by laboratories for recording and reporting workload information. Another reason is differences in definitions in those areas not covered by common definitions specified for this report. Reporting of positive results obtained from PKU examinations falls within this category.

SECTION I

SUMMARY TABLES

TABLE 1-1. PERCENTAGE OF PERSONNEL, EXPENDITURES AND SPACE  
ALLOTTED TO LABORATORY PROGRAM SERVICES

	Laboratory Program Service					
	Diagnostic Services			Research		
	Personnel %	Expenditures %	Space %	Personnel %	Expenditures %	Space %
Ala.	*	*	*	*	*	*
Alaska	98.0	98.0	98.0	-	-	-
Ariz.	61.4	*	50.0	-	*	*
Ark.	100.0	100.0	100.0	-	-	-
Cal.	*	*	*	*	*	*
Colo.	92.3	93.0	100.0	2.1	-	-
Conn.	*	*	*	*	*	*
Del.	100.0	100.0	100.0	-	-	-
D. C.	*	*	*	*	*	*
Fla.	95.0	88.0	90.0	3.0	8.0	8.0
Ga.	96.0	95.0	97.0	<1.0	<1.0	<1.0
Hawaii	100.0 (a)	100.0 (a)	100.0	(a)	-	-
Ida.	90.0	90.0	95.0	-	-	4.0
Ill.	90.7	*	*	1.9	*	*
Ind.	90.0	*	96.0	-	*	2.0
Ia.	76.0	85.0	82.0	14.0	10.0	12.0
Kans.	60.2	*	58.7	-	-	-
Ky.	92.0	*	89.0	-	*	10.0
La.	46.2	*	97.0	-	*	1.0
Me.	94.0	90.0	90.0	-	-	-
Md.	46.0	49.7	45.0	-	-	-
Mass.	53.0	46.6	48.0	-	15.5	-
Mich.	53.0	*	*	13.0	*	*
Minn.	94.8	*	95.4	1.3	*	2.3
Miss.	98.0	*	*	1.6	*	*
Mo.	90.0	90.0	80.0	-	-	-
Mont.	97.0	81.0	92.0	-	-	-
Nebr.	89.0	96.0	100.0 (b)	-	-	-
Nev.	*	*	*	*	*	*
N. H.	100.0	100.0	100.0	-	-	-
N. J.	84.6	85.0	85.0	11.6	13.0	10.0
N. M.	*	*	*	*	*	*
N. Y.	22.0	30.0	10.0	25.0	35.0	53.0
N. C.	98.2	100.0	54.9	-	-	-
N. D.	100.0	*	*	-	-	-
Ohio	84.0	87.0	96.9	8.0	4.0	1.9
Okla.	*	*	*	*	*	*
Ore.	92.8	*	95.0	-	-	-
Pa.	82.0	65.0	85.0	9.0	30.0	11.0
R. I.	100.0	98.0	100.0 (c)	-	1.0	- (c)
S. C.	98.0	98.0	98.0	1.0	-	1.0
S. D.	*	*	*	*	*	*
Tenn.	94.7	98.0	98.8	0.5	0.2	0.1
Tex.	60.2	85.0 (d)	55.0	4.6 (e)	1.0	5.0 (e)
Utah	78.6	90.0	58.0	11.7	3.0	7.0
Vt.	98.0	*	85.0	-	-	-
Va.	95.0	99.0	*	-	-	-
Wash.	87.0	*	32.0	-	-	-
W. Va.	85.0	85.0	80.0	5.0	5.0	5.0
Wisc.	72.0	80.0	80.0	18.0	10.0	10.0
Wyo.	100.0	100.0	100.0	-	-	-
P. R.	*	*	*	*	*	*
V. I.	93.0	93.0	93.0	5.0	5.0	5.0



TABLE 1-1. PERCENTAGE OF PERSONNEL, EXPENDITURES AND SPACE  
ALLOTTED TO LABORATORY PROGRAM SERVICES  
(Continued)

	Laboratory Program Service								
	Production of Biologics			Intrastate Laboratory Improvement			Other		
	Personnel %	Expenditures %	Space %	Personnel %	Expenditures %	Space %	Personnel %	Expenditures %	Space %
Ala.	*	*	*	*	*	*	-	-	-
Alaska	-	-	-	2.0	2.0	2.0	-	-	-
Ariz.	15.9	*	*	3.4	*	*	19.3 (i)	*	*
Ark.	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	-	-	-	5.6	7.0	-	-	-	-
Conn.	*	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	-	-	2.0	4.0	2.0	-	-	-
Ga.	<1.0	<1.0	<1.0	<2.0	<3.0	3.0	-	-	-
Hawaii	(a)	(a)	-	(a)	(a)	-	-	-	-
Ida.	-	-	-	10.0	10.0	1.0	-	-	-
Ill.	4.6	*	*	2.8	*	*	-	-	-
Ind.	-	*	-	10.0	*	2.0	-	-	-
Ia.	-	-	-	10.0	5.0	6.0	-	-	-
Kans.	-	-	-	1.7	*	2.9	38.1 (j)	*	38.4
Ky.	-	-	-	8.0	*	1.0	-	-	-
La.	1.8	*	1.0	0.6	*	1.0	51.4	*	-
Me.	-	-	-	6.0	10.0	10.0	-	-	-
Md.	-	-	-	2.5	3.1	2.0 (f)	51.5 (k)	47.2	53.0
Mass.	45.0	37.9	50.0	2.0	-	2.0	-	-	-
Mich.	32.0	*	*	2.0	*	*	-	-	-
Minn.	1.3	*	-	2.6	*	2.3	-	-	-
Miss.	0.3	*	*	0.1	*	*	-	-	-
Mo.	-	-	-	10.0	10.0	20.0 (g)	-	-	-
Mont.	-	-	-	3.0	19.0	8.0	-	-	-
Nebr.	-	-	-	11.0	4.0	- (b)	-	-	-
Nev.	*	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-	-
N. J.	-	-	1.0	3.8	2.0	4.0	-	-	-
N. M.	-	-	-	*	*	*	-	-	-
N. Y.	-	-	-	4.0	10.0	-	49.0 (l)	25.0	37.0
N. C.	-	-	-	1.8	-	2.0	-	-	43.1 (m)
N. D.	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	8.0	9.0	1.2	-	-	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	7.2	*	5.0	-	-	-
Pa.	-	-	-	9.0	5.0	4.0	-	-	-
R. I.	-	-	-	-	1.0	- (c)	-	-	-
S. C.	-	-	-	1.0	2.0	1.0	-	-	-
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	2.4	0.2	1.0	2.4	1.6	0.1	-	-	-
Tex.	6.5	9.0	15.0	0.9 (h)	5.0	5.0	27.8 (n)	-	20.0
Utah	-	-	-	3.0	4.0	-	6.7	3.0	35.0
Vt.	-	-	-	2.0	*	15.0	-	-	-
Va.	-	-	-	5.0	1.0	*	-	-	-
Wash.	-	-	-	13.0	*	20.0	-	*	48.0
W. Va.	-	-	-	10.0	10.0	15.0	-	-	-
Wisc.	-	-	-	10.0	10.0	10.0	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-
P. R.	-	-	-	*	*	*	-	-	-
V. I.	-	-	-	2.0	2.0	2.0	-	-	-

TABLE 1-2. SUMMARY OF LABORATORY SPECIMENS AND EXAMINATIONS

	Total Specimens	Total Exams	Examinations:	
			Diagnostic Bacteriology	Mycology
Ala.	788,850 (o)	1,345,882	397,082	6,330
Alaska	77,459	113,985	60,874	157
Ariz.	138,470	229,831	31,827	6,558
Ark.	164,210	221,666	50,197	9,986
Cal.	*	*	*	*
Colo.	386,750 (o)	481,290	269,915	170
Conn.	*	*	*	*
Del.	115,201	129,079	12,817	-
D. C.	*	*	*	*
Fla.	1,696,915	2,244,724	590,305	5,030
Ga.	782,155	1,167,877	164,497	784
Hawaii	112,442	257,682	92,842	1,338
Ida.	100,265 (o)	159,772	30,943	723
Ill.	719,102 (o)	978,997	188,536	770
Ind.	255,083	358,451	61,989	1,279
Ia.	334,115	554,782	122,594	2,198
Kans.	252,254	412,552	81,465	396
Ky.	269,109	398,378	59,521	1,116
La.	*	904,752	144,134	3,871
Me.	111,611	143,691	42,876	132
Md.	574,692	965,667	196,409	1,562
Mass.	923,381 (o)	* (p)	*	*
Mich.	1,089,000 (o)	1,714,240	734,364	9,453
Minn.	* (p)	487,873	102,616	2,290
Miss.	524,724	754,842	151,920	1,147
Mo.	201,754	296,737 (o)	76,126	382
Mont.	67,065 (o)	89,221	14,081	264
Nebr.	121,774	152,032	5,458	268
Nev.	*	*	*	*
N. H.	116,874	151,572	47,818	174
N. J.	* (p)	806,731	105,385	350
N. M.	*	171,226	24,430	355
N. Y.	* (p)	* (p)	*	*
N. C.	781,275 (o)	985,331	187,570	321
N. D.	129,484 (o)	249,842	108,825	424
Ohio	468,472	614,440	142,341	593
Okla.	*	*	*	*
Ore.	233,702	611,618	63,399	191
Pa.	* (p)	* (p)	*	*
R. I.	175,316	327,994	41,737	14
S. C.	493,847	527,478	40,242	-
S. D.	*	*	*	*
Tenn.	700,160	913,647	261,161	6,012
Tex.	1,071,070 (o)	1,881,798	305,651	5,400
Utah	183,983 (o)	288,255 (o)	35,331	25
Vt.	113,536	120,478	40,340	50
Va.	474,563	548,562	120,672	803
Wash.	* (p)	112,987	15,775	*
W. Va.	137,412 (o)	228,590	99,820	339
Wisc.	720,810	858,733	163,669	6,230
Wyo.	80,402	88,279	69,764	-
P. R.	* (p)	* (p)	*	-
V. I.	38,904	42,933	7,832	52

TABLE 1-2. SUMMARY OF LABORATORY SPECIMENS AND EXAMINATIONS  
(Continued)

	Examinations			
	Parasitology	Virology	Syphilis Serology	All Other Serology
Ala.	63,931	11,161	388,714	13,105
Alaska	495	226 (q)	24,631	746
Ariz.	1,388	3,481	65,731	14,295
Ark.	1,158	2,258 (q)	95,375	9,361
Cal.	*	*	*	*
Colo.	400	3,128	129,558	5,325
Conn.	*	*	*	*
Del.	345	399 (q)	41,052	49
D. C.	*	*	*	*
Fla.	175,930	10,074	841,024	23,638
Ga.	119,132	10,724	520,672	33,785
Hawaii	4,614	36,086	30,964	43,358
Ida.	465	324	37,442	7,675
Ill.	32,343	7,701	363,323	66,888
Ind.	17,220	6,574	157,805	18,658
Ia.	830	33,886	207,517	44,074
Kans.	8,721	7,562	119,371	11,042
Ky.	2,931	4,817	140,231	24,609
La.	50,156	37,837	346,481	25,275
Me.	116	348 (q)	57,415	3,173
Md.	26,957	3,762	171,602	41,653
Mass.	3	6,905	489,719	15,175
Mich.	25,938	18,096	367,215	31,405
Minn.	6,454	3,659	211,861	42,426
Miss.	12,345	1,141 (q)	242,017	7,800
Mo.	846	4,232	75,374	7,546
Mont.	68	339	35,076	6,451
Nebr.	248	934 (q)	99,508	18,957
Nev.	*	*	*	*
N. H.	377	687 (q)	49,455	751
N. J.	1,558	108,141	225,766	120,013
N. M.	337	1,098	53,451	4,965
N. Y.	*	*	135,496	15,720
N. C.	13,205	6,289	371,269	10,181
N. D.	1,708	1,100 (q)	50,632	17,901
Ohio	1,558	8,399	119,918	31,251
Okla.	*	*	*	*
Ore.	1,446	3,533	171,544	15,992
Pa.	*	55,300	33,661	43,118
R. I.	5,139	396 (q)	45,338	415
S. C.	31,412	1,804	351,359	25,007
S. D.	*	*	*	*
Tenn.	6,513	8,761	436,532	20,676
Tex.	104,833	2,478	387,836	43,875
Utah	1,877	1,039	93,344	18,612
Vt.	190	869	38,000	10,019
Va.	20,434	3,302	205,846	28,282
Wash.	1,137	744	40,844	10,403
W. Va.	5,324	3,034	42,966	2,408
Wisc.	10,939	9,802	228,546	47,618
Wyo.	28	-	9,810	1,023
P. R.	75,282	1,476	86,102	3,180
V. I.	10,086	-	12,791	382

TABLE 1-2. SUMMARY OF LABORATORY SPECIMENS AND EXAMINATIONS  
(Continued)

	Examinations				
	Sanitary Bacteriology	Clinical Chemistry	PKU	Sanitary Chemistry	All Other Examinations
Ala.	191,566	96,102	76,998	65,638	35,255
Alaska	16,697	-	-	971	9,188
Ariz.	47,740	30,868	-	15,911	12,032
Ark.	29,649	-	10,157	13,525	-
Cal.	*	*	*	*	*
Colo.	34,169	-	5,990	30,219	2,416
Conn.	*	*	*	*	*
Del.	4,964	4,725	18,486	-	46,242
D. C.	*	*	*	*	*
Fla.	192,958	44,865	64,908	52,261	243,731
Ga.	65,838	3,493	55,696	30,024	163,232
Hawaii	32,660	600	-	13,810	1,410
Ida.	48,837	9,600	10,099	9,859	3,805
Ill.	154,262	-	68,422	89,218	7,534
Ind.	60,935	-	-	32,806	1,278
Ia.	87,591	-	3,209	47,472	5,411
Kans.	85,521	580	18,139	74,494	5,261
Ky.	60,663	28,460	40,162	13,075	22,793
La.	193,960	-	60,814	26,673	15,551
Me.	273	-	28,700	-	10,658
Md.	114,334	118,841	55,926	94,327	140,294
Mass.	*	-	187,693	-	-
Mich.	104,100	197,424	103,597	56,602	66,046
Minn.	5,171	-	72,149	34,909	6,338
Miss.	212,677	99,476	-	-	26,301
Mo.	70,013	2,057	42,812	16,552	797
Mont.	18,180	-	9,849	250	4,663
Nebr.	12,233	-	428	14,026	172
Nev.	*	*	*	*	*
N. H.	-	16,904	17,156	-	18,250
N. J.	21,855	4,711	177,747	10,530	30,675
N. M.	53,877	-	14,022	15,454	3,237
N. Y.	51,222	147,121	83,339	215,742	*
N. C.	82,507	79,808	86,915	14,037	133,229
N. D.	37,211	-	13,117	935	17,989
Ohio	54,759	40,599	165,997	45,474	3,551
Okla.	*	*	*	*	*
Ore.	48,916	297	306,300	-	-
Pa.	*	-	108,683	*	*
R. I.	40,824	63,605	59,407	-	71,119
S. C.	40,393	-	27,222	5,079	4,960
S. D.	*	*	*	*	*
Tenn.	109,383	4,842	25,586	-	34,181
Tex.	706,621	4,878	122,513	196,454	1,259
Utah	25,370	6,604	-	51,096	54,957
Vt.	10,400	12,500	-	530	7,580
Va.	49,746	14,345	80,742	17,604	6,786
Wash.	16,124	28	9,613	7,166	11,153
W. Va.	31,772	23,441	19,147	-	399
Wisc.	48,863	117,339	36	41,719	183,972
Wyo.	7,654	-	-	-	-
P. R.	*	366,299	-	7,086	200,575
V. I.	5,814	3,335	941	1,700	-

TABLE 1-3. PERCENTAGE OF EXAMINATIONS PERFORMED BY TYPE OF EXAMINATION

	Diagnostic Bacteriology	Mycology and Parasitology	Virology	All Serology	Sanitary Bact. and Chem.	Clin. Chem.	Other
Ala.	29.5	5.2	0.8	29.9	19.1	12.9	2.6
Alaska	53.4	0.6	0.2	22.3	15.5	-	8.0
Ariz.	13.9	3.5	1.5	34.8	27.7	13.4	5.2
Ark.	22.7	5.0	1.0	47.2	19.5	4.6 (r)	-
Cal.	*	*	*	*	*	*	*
Colo.	56.1	0.1	0.6	28.0	13.4	1.3 (r)	0.5
Conn.	*	*	*	*	*	*	*
Del.	9.9	0.3	0.3	31.9	3.8	18.0	35.8
D. C.	*	*	*	*	*	*	*
Fla.	26.3	8.1	0.4	38.5	10.9	4.9	10.9
Ga.	14.1	10.2	0.9	47.5	8.2	5.1	14.0
Hawaii	36.0	2.3	14.0	28.9	18.0	0.2	0.6
Ida.	19.5	0.7	0.2	28.2	36.7	12.3	2.4
Ill.	19.2	3.4	0.8	43.9	24.9	7.0 (r)	0.8
Ind.	17.3	5.2	1.8	49.2	26.2	-	0.3
Ia.	22.1	0.5	6.1	45.4	24.3	0.6	1.0
Kans.	19.8	2.2	1.8	31.6	38.8	4.5	1.3
Ky.	15.0	1.0	1.2	41.4	18.5	17.2	5.7
La.	15.9	6.0	4.2	41.1	24.4	6.7 (r)	1.7
Me.	29.8	0.2	0.2	42.2	0.2	20.0 (r)	7.4
Md.	20.3	3.0	0.4	22.1	21.6	18.1	14.5
Mass.	*	*	*	*	*	*	*
Mich.	42.8	2.1	1.0	23.2	9.4	17.6	3.9
Minn.	21.0	1.8	0.8	52.1	8.2	14.8 (r)	1.3
Miss.	20.1	1.8	0.1	33.1	28.2	13.2	3.5
Mo.	25.6	0.4	1.4	28.0	29.2	15.1	0.3
Mont.	15.8	0.4	0.4	46.5	20.7	11.0 (r)	5.2
Nebr.	3.6	0.2	0.6	77.9	17.3	0.3 (r)	0.1
Nev.	*	*	*	*	*	*	*
N. H.	31.5	0.4	0.5	33.1	-	22.5	12.0
N. J.	13.1	0.2	13.4	42.9	4.0	22.6	3.8
N. M.	14.3	0.4	0.6	34.1	40.5	8.2 (r)	1.9
N. Y.	*	*	*	*	*	*	*
N. C.	19.1	1.4	0.6	38.7	9.8	16.9	13.5
N. D.	43.5	0.9	0.4	27.4	15.3	5.3 (r)	7.2
Ohio	23.2	0.3	1.4	24.6	16.3	33.6	0.6
Okla.	*	*	*	*	*	*	*
Ore.	10.4	0.3	0.6	30.6	8.0	50.1	-
Pa.	*	*	*	*	*	*	*
R. I.	12.7	1.6	0.1	13.9	12.4	37.6	21.7
S. C.	7.6	6.0	0.3	71.4	8.6	5.2 (r)	0.9
S. D.	*	*	*	*	*	*	*
Tenn.	28.6	1.4	1.0	50.0	12.0	3.3	3.7
Tex.	16.2	5.9	0.1	22.9	48.0	6.8	0.1
Utah	12.3	0.6	0.4	38.8	26.5	2.3	19.1
Vt.	33.5	0.2	0.7	39.8	9.1	10.4	6.3
Va.	22.0	3.9	0.6	42.7	12.3	17.3	1.2
Wash.	14.0	1.0	0.6	45.4	20.6	8.5	9.9
W. Va.	43.7	2.5	1.3	19.9	13.9	18.6	0.1
Wisc.	19.1	2.0	1.1	32.2	10.5	13.7	21.4
Wyo.	79.0	-	-	12.3	8.7	-	-
P. R.	*	*	*	*	*	*	*
V. I.	18.2	23.6	-	30.7	17.5	10.0	-

TABLE 1-4. RATIOS OF SPECIMENS TO EXAMINATIONS AND EXAMINATIONS TO POPULATION

	Estimated Population(s)	No. Specimens	No. Exams	Ratio of Specimens to Exams	Ratio of Exams to Population
Ala.	3,540,000	788,850	1,345,882	1:1.7	1:2.6
Alaska	272,000	77,459	113,985	1:1.5	1:2.4
Ariz.	1,634,000	138,470	229,831	1:1.7	1:7.1
Ark.	1,968,000	164,210	221,666	1:1.3	1:8.9
Cal.	19,153,000	*	*	*	*
Colo.	1,975,000	386,750	481,290	1:1.2	1:4.1
Conn.	2,925,000	*	*	*	*
Del.	523,000	115,201	129,079	1:1.1	1:4.1
D. C.	809,000	*	*	*	*
Fla.	5,995,000	1,696,915	2,244,724	1:1.3	1:2.7
Ga.	4,509,000	782,155	1,167,877	1:1.5	1:3.9
Hawaii	739,000	112,442	257,682	1:2.3	1:2.9
Ida.	699,000	100,265	159,772	1:1.6	1:4.4
Ill.	10,893,000	719,102	978,997	1:1.4	1:11.1
Ind.	5,000,000	255,083	358,451	1:1.4	1:13.9
Ia.	2,753,000	334,115	554,782	1:1.7	1:5.0
Kans.	2,275,000	252,254	412,552	1:1.6	1:5.5
Ky.	3,189,000	269,109	398,378	1:1.5	1:8.0
La.	3,662,000	*	904,752	*	1:4.0
Me.	973,000	111,611	143,691	1:1.3	1:6.8
Md.	3,682,000	574,692	965,667	1:1.7	1:3.8
Mass.	5,421,000	923,381	*	*	*
Mich.	8,584,000	1,089,000	1,714,240	1:1.6	1:5.0
Minn.	3,582,000	*	487,873	*	1:7.3
Miss.	2,348,000	524,724	754,824	1:1.4	1:3.1
Mo.	4,603,000	201,754	296,737	1:1.5	1:15.5
Mont.	701,000	67,065	89,221	1:1.3	1:7.9
Nebr.	1,435,000	121,774	152,032	1:1.2	1:9.4
Nev.	444,000	*	*	*	*
N. H.	686,000	116,874	151,572	1:1.3	1:4.5
N. J.	7,003,000	*	806,731	*	1:8.7
N. M.	1,003,000	*	171,226	*	1:5.9
N. Y.	18,336,000	*	*	*	*
N. C.	5,029,000	781,275	985,331	1:1.3	1:5.1
N. D.	639,000	129,484	249,842	1:1.9	1:2.6
Ohio	10,458,000	468,472	614,440	1:1.3	1:17.0
Okla.	2,495,000	*	*	*	*
Ore.	1,999,000	233,702	611,618	1:2.6	1:3.3
Pa.	11,629,000	*	*	*	*
R. I.	900,000	175,316	327,994	1:1.9	1:2.7
S. C.	2,599,000	493,847	527,478	1:1.1	1:4.9
S. D.	674,000	*	*	*	*
Tenn.	3,892,000	700,160	913,647	1:1.3	1:4.3
Tex.	10,869,000	1,071,070	1,881,798	1:1.8	1:5.8
Utah	1,024,000	183,983	288,255	1:1.6	1:3.6
Vt.	417,000	113,536	120,478	1:1.1	1:3.5
Va.	4,536,000	474,563	548,562	1:1.2	1:8.3
Wash.	3,087,000	*	112,987	*	1:27.3
W. Va.	1,798,000	137,412	228,590	1:1.7	1:7.9
Wisc.	4,189,000	720,810	858,733	1:1.2	1:4.9
Wyo.	315,000	80,402	88,279	1:1.1	1:3.6
P. R.	2,697,000	*	*	*	*
V. I.	56,000	38,904	42,933	1:1.1	1:1.3

TABLE 1-5. RATIOS OF PERSONNEL TO POPULATION

	Estimated Population	Total Personnel (t)	Prof. & Tech. Personnel (t)	Ratio of Total Personnel to Population	Ratio of Prof. & Tech. Personnel To Population
Ala.	3,540,000	174	95	1:20,345	1:37,263
Alaska	272,000	21	10	1:12,952	1:27,200
Ariz.	1,634,000	44	27	1:37,136	1:60,519
Ark.	1,968,000	44	26	1:44,727	1:75,692
Cal.	19,153,000	234	130	1:81,850	1:147,331
Colo.	1,975,000	39	22	1:50,641	1:89,773
Conn.	2,925,000	*	*	*	*
Del.	523,000	20	12	1:26,150	1:43,583
D. C.	809,000	*	*	*	*
Fla.	5,995,000	172	101	1:34,855	1:59,356
Ga.	4,509,000	134	71	1:33,649	1:63,507
Hawaii	739,000	33	19	1:22,394	1:38,895
Ida.	699,000	34	24	1:20,559	1:29,125
Ill.	10,893,000	215	114	1:50,665	1:95,553
Ind.	5,000,000	71	43	1:70,423	1:116,279
Ia.	2,753,000	76	47	1:36,224	1:58,574
Kans.	2,275,000	60	37	1:37,917	1:61,486
Ky.	3,189,000	69	39	1:46,217	1:81,769
La.	3,662,000	147	71	1:24,912	1:51,577
Me.	973,000	18	11	1:54,056	1:88,455
Md.	3,682,000	237	158	1:15,536	1:23,304
Mass.	5,421,000	190	77	1:28,532	1:70,403
Mich.	8,584,000	373 (u)	197 (u)	1:23,013	1:43,574
Minn.	3,582,000	76	46	1:47,132	1:77,869
Miss.	2,348,000	40	22	1:58,700	1:106,727
Mo.	4,603,000	43	26	1:107,047	1:177,038
Mont.	701,000	17	7	1:41,235	1:100,143
Nebr.	1,435,000	23	15	1:62,391	1:95,667
Nev.	444,000	*	*	*	*
N. H.	686,000	20	13	1:34,300	1:52,769
N. J.	7,003,000	130	81	1:53,869	1:86,457
N. M.	1,003,000	37	19	1:27,108	1:52,789
N. Y.	18,336,000	572	325	1:32,056	1:56,418
N. C.	5,029,000	104	69	1:48,356	1:72,884
N. D.	639,000	24	14	1:26,625	1:45,643
Ohio	10,458,000	92	56	1:113,674	1:186,750
Okla.	2,495,000	*	*	*	*
Ore.	1,999,000	*	*	*	*
Pa.	11,629,000	90	57	1:129,211	1:204,018
R. I.	900,000	41	27	1:21,951	1:33,333
S. C.	2,599,000	67	40	1:38,791	1:64,975
S. D.	674,000	*	*	*	*
Tenn.	3,892,000	115	65	1:33,843	1:59,877
Tex.	10,869,000	108	72	1:100,639	1:150,958
Utah	1,024,000	43	27	1:23,814	1:37,926
Vt.	417,000	24	15	1:17,375	1:27,800
Va.	4,536,000	72	43	1:63,000	1:105,488
Wash.	3,087,000	46	23	1:67,109	1:134,217
W. Va.	1,798,000	39	28	1:46,103	1:64,214
Wisc.	4,189,000	168	114	1:24,935	1:36,746
Wyo.	315,000	7	3	1:45,000	1:105,000
P. R.	2,697,000	76	42	1:35,487	1:64,214
V. I.	56,000	9	6	1:6,222	1:9,333

TABLE 1-6. RATIOS OF EXPENDITURES TO PERSONNEL

	Total Expenditures	Total Personnel (t)	Prof. & Tech. Personnel (t)	Expenditures Per Employee	Expenditures Per Prof. & Tech. Employee
Ala.	\$ 1,075,510	174	95	\$ 6,181.09	\$ 11,321.16
Alaska	244,159	21	10	11,626.62	24,415.90
Ariz.	335,258	44	27	7,619.50	12,416.96
Ark.	246,311	44	26	5,597.98	9,473.50
Cal.	2,964,987	234	130	12,670.88	22,807.59
Colo.	382,900	39	22	9,817.95	17,404.55
Conn.	*	*	*	*	*
Del.	122,045	20	12	6,102.25	10,170.42
D. C.	*	*	*	*	*
Fla.	1,045,961	172	101	6,081.17	10,356.05
Ga.	1,061,973	134	71	7,925.17	14,957.37
Hawaii	337,429	33	19	10,225.12	17,759.42
Ida.	272,394	34	24	8,011.59	11,349.75
Ill.	1,958,055	215	114	9,107.23	17,175.92
Ind.	537,262 (v)	71	43	7,567.07	12,494.47
Ia.	881,033	76	47	11,592.54	18,745.38
Kans.	504,911	60	37	8,415.18	13,646.24
Ky.	514,210	69	39	7,452.32	13,184.87
La.	1,046,882	147	71	7,121.65	14,744.82
Me.	152,055	18	11	8,447.50	13,823.18
Md.	2,019,816	237	158	8,522.43	12,783.65
Mass.	1,775,956	190	77	9,347.14	23,064.36
Mich.	3,640,493	373 (u)	197 (u)	9,760.03	18,479.66
Minn.	525,721	76	46	6,917.38	11,428.72
Miss.	295,983	40	22	7,399.58	13,453.77
Mo.	302,582	43	26	7,036.79	11,637.77
Mont.	135,867	17	7	7,992.71	19,409.57
Nebr.	154,468	23	15	6,716.00	10,297.87
Nev.	*	*	*	*	*
N. H.	140,600	20	13	7,030.00	10,815.38
N. J.	1,526,908	130	81	11,745.45	18,887.75
N. M.	257,108	37	19	6,948.86	13,532.00
N. Y.	6,722,176	572	325	11,752.06	20,683.62
N. C.	914,044	104	69	8,788.88	13,247.01
N. D.	174,421	24	14	7,267.54	12,458.64
Ohio	824,404	92	56	8,960.91	14,721.50
Okla.	*	*	*	*	*
Ore.	343,370	*	*	*	*
Pa.	1,055,800	90	57	11,731.11	18,522.81
R. I.	426,000	41	27	10,390.24	15,777.78
S. C.	365,182	67	40	5,450.48	9,129.55
S. D.	*	*	*	*	*
Tenn.	967,344	115	65	8,411.69	14,882.22
Tex.	840,099	108	72	7,778.69	11,668.04
Utah	260,933	43	27	6,068.21	9,664.19
Vt.	*	24	15	*	*
Va.	498,260	72	43	6,920.28	11,587.44
Wash.	516,100	46	23	11,219.57	22,439.13
W. Va.	326,633	39	28	8,375.21	11,665.46
Wisc.	1,507,314	168	114	8,972.11	13,222.05
Wyo.	74,382	7	3	10,626.00	24,794.00
P. R.	332,500	76	42	4,375.00	7,916.67
V. I.	59,287	9	6	6,587.44	9,881.17



TABLE 1-7. RANKING OF STATES BY EXPENDITURES AND BY  
EXPENDITURES PER CAPITA (w)

Rank	State	Expenditures	Rank	State	Per Capita Expenditures
1	N. Y.	6,722,176	1	V. I.	1.059
2	Mich.	3,640,493	2	Alaska	0.900
3	Cal.	2,964,987	3	Md.	0.549
4	Md.	2,019,816	4	R. I.	0.473
5	Ill.	1,958,055	5	Hawaii	0.457
6	Mass.	1,775,956	6	Mich.	0.424
7	N. J.	1,526,908	7	Ida.	0.390
8	Wisc.	1,507,314	8	N. Y.	0.367
9	Ala.	1,075,510	9	Wisc.	0.360
10	Ga.	1,061,973	10	Mass.	0.328
11	Pa.	1,055,800	11	Ia.	0.320
12	La.	1,046,882	12	Ala.	0.304
13	Fla.	1,045,961	13	La.	0.286
14	Tenn.	967,344	14	N. D.	0.273
15	N. C.	914,044	15	N. M.	0.256
16	Iowa	881,033	16	Utah	0.255
17	Tex.	840,099	17	Tenn.	0.249
18	Ohio	824,404	18	Wyo.	0.236
19	Ind.	537,262 (v)	19	Ga.	0.236
20	Minn.	525,721	20	Del.	0.233
21	Wash.	516,100	21	Kans.	0.222
22	Ky.	514,210	22	N. J.	0.218
23	Kans.	504,911	23	Ariz.	0.205
24	Va.	498,260	24	N. H.	0.205
25	R. I.	426,000	25	Colo.	0.194
26	Colo.	382,900	26	Mont.	0.194
27	S. C.	365,182	27	N. C.	0.182
28	Ore.	343,370	28	W. Va.	0.182
29	Hawaii	337,429	29	Ill.	0.180
30	Ariz.	335,258	30	Fla.	0.174
31	P. R.	332,500	31	Ore.	0.172
32	W. Va.	326,633	32	Wash.	0.167
33	Mo.	302,582	33	Ky.	0.161
34	Miss.	295,983	34	Maine	0.156
35	Ida.	272,394	35	Cal.	0.155
36	Utah	260,933	36	Minn.	0.147
37	N. M.	257,108	37	S. C.	0.141
38	Ark.	246,311	38	Miss.	0.126
39	Alaska	244,159	39	Ark.	0.125
40	N. D.	174,421	40	P. R.	0.123
41	Nebr.	154,468	41	Va.	0.110
42	Maine	152,055	42	Nebr.	0.108
43	N. H.	140,600	43	Ind.	0.107 (v)
44	Mont.	135,867	44	Pa.	0.091
45	Del.	122,045	45	Ohio	0.079
46	Wyo.	74,382	46	Tex.	0.077
47	V. I.	59,287	47	Mo.	0.066

FOOTNOTES. SECTION I

- (a) Minimal amount for Research and Production of Biologics; a very small amount for serology evaluation.
- (b) Due to crowded conditions, space is not assigned to individual functions.
- (c) No specific space designated for research or laboratory improvement.
- (d) Includes Analytical Chemistry and Radiological Health.
- (e) Part time.
- (f) Represents the administrative space only. The technical work in preparing and evaluating the proficiency surveys and quality control is performed in the various technical divisions of the Central Laboratory.
- (g) Space used for this item is shared with technical work.
- (h) Only one person assigned to work exclusively in this field, but others from Diagnostic Services help with this work.
- (i) Administration.
- (j) Includes supportive services, administrative and clerical, and maintenance.
- (k) Administrative, Supportive, and Maintenance, 32.5; Environmental, Water/Sewage, Foods, Drug Chemistry, Bedding and Upholstery, 19.0%.
- (l) Environmental Health, 23%; all other administrative maintenance and support service, 26%.
- (m) Occupied by Environmental Sciences Section and Administrative Section.
- (n) Chemical and Radiological Health analysis.
- (o) Estimated total. Where reporting of specimens or exams was essentially complete, an estimate was made for the missing figures.
- (p) Where too many figures were omitted for an estimate of the total to be made, the State is shown as not reporting. However, partial reporting was as follows: Mass.: 910,911 exams; Minn.: 225,412 specimens; New Jersey: 377,409 specimens; New York: 81,801 specimens, 690,147 exams; Pa.: 201,176 specimens, 240,762 exams; Puerto Rico: 308,199 specimens, 743,507 exams; Washington: 64,672 specimens
- (q) Rabies only.
- (r) PKU only.
- (s) Estimated population as of July 1, 1967. Information taken from: Statistical Abstract of the United States: 1968. U. S. Bureau of the Census. (89th Edition) Washington, D. C., 1968, p. 12 and 820.
- (t) Based on filled positions.
- (u) Based on budgeted positions, as filled positions figure not available.
- (v) Figure includes salaries and travel only.
- (w) States not included in Table: Conn., D. C., Nev., Okla., S. D., and Vt.

SECTION II

NEW PROGRAMS OF CURRENT INTEREST

TABLE 2-1. STATUS OF LABORATORY REGISTRATION LAWS

	No Bill or Law	Under Consideration:			Bill Introduced	Date Law Passed	Number of Facilities Registered (a)
		In Discussion Stage Only	By Study Committee	In Committee of Legislature			
Ala.	x	-	-	-	-	-	-
Alaska	-	x (b)	-	-	-	-	-
Ariz.	x	-	-	-	-	-	-
Ark.	-	-	x (c)	-	-	-	-
Cal.	x	-	-	-	-	-	-
Colo.	x	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*
Del.	x	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	-	-	-	-	June 1967	-	IC-234,H-194, BB-20,0-15 (d)
Ga.	x	-	-	-	-	-	-
Hawaii	x	-	-	-	-	-	-
Ida.	x	-	-	-	-	-	-
Ill.	x	-	-	-	-	-	-
Ind.	x	-	-	-	-	-	-
Ia.	x	-	-	-	-	-	-
Kans.	x	-	-	-	-	-	-
Ky.	x	-	-	-	-	-	-
La.	x	-	-	-	-	-	-
Me.	x	-	-	-	-	-	-
Md.	-	-	-	-	Oct. 1966	-	IC-68,H-49, 0-21 (e)
Mass.	x	-	-	-	-	-	-
Mich.	x	-	-	-	1931	-	(f)
Minn.	x	-	-	-	-	-	-
Miss.	-	x	-	-	-	-	-
Mo.	x	-	-	-	-	-	-
Mont.	x (g)	-	-	-	1935 (g)	-	IC-5,H-68,P-31, BB-2,0-12 (h)
Nebr.	x	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	x	-	-	-	-	-	-
N. J.	-	-	-	-	1953	-	(i)
N. M.	-	x	-	-	-	-	-
N. Y.	-	-	-	-	July 1965	-	I-192,H-237, BB-* ,0-25 (j)
N. C.	-	-	x	-	-	-	-
N. D.	x	-	-	-	-	-	-
Ohio	x	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	1935	-	IC-57,H-75, BB-1,0-* (k)
Pa.	x	-	-	-	-	-	-
R. I.	x	-	-	-	-	-	-
S. C.	x	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	x	-	-	-	-	-	-
Tex.	-	x	-	-	-	-	-
Utah	x	-	-	-	-	-	-
Vt.	x (g)	-	-	-	Regulation Jan. 1967 (g)	-	IC-5,H-25, P-8
Va.	x	-	-	-	-	-	-
Wash.	x (l)	-	-	-	-	-	*
W. Va.	x	-	-	-	-	-	-
Wisc.	x	-	-	-	-	-	-
Wyo.	x	-	-	-	-	-	-
P. R.	x	-	-	-	-	-	-
V. I.	x	-	-	-	-	-	-

FOOTNOTES. TABLE 2-1.

- (a) Code: IC - Independent Clinical Laboratories; H - Hospital Laboratories; P - Physician's Office; BB - Blood Banks; O - Other.
- (b) Bill would cover all independent clinical laboratories, hospital laboratories and blood banks.
- (c) Bill would cover independent clinical laboratories, hospital laboratories and schools of medical technology.
- (d) Plasmaphoresis.
- (e) State Hospitals - 11; Branch Public Health Laboratories - 10.
- (f) Law repealed 1968.
- (g) Covered by regulation only.
- (h) Includes one County Health Department and eleven Laboratories operated by Federal Government.
- (i) Laboratory registration is administered by the Board of Medical Examiners, Department of Law and Public Safety.
- (j) County Laboratories.
- (k) Clinic laboratories also covered.
- (l) State has Board of Health Regulation for annual registration of laboratories.

TABLE 2-2. STATUS OF LABORATORY LICENSURE LAWS

No Bill or Law	Under Consideration:			Bill Introduced	Date Law Passed	Number of Facilities Licensed (a)
	In Discussion Stage Only	By Study Committee	In Committee of Legislature			
Ala.	x	-	-	-	-	-
Alaska	-	x (b)	-	-	-	-
Ariz.	-	-	-	-	Apr. 1969 (c)	-
Ark.	-	-	x (d)	-	-	-
Cal.	-	-	-	-	1937	I-913,H-565, PH-41,0-648 (e)
Colo.	-	-	-	x (f)	-	-
Conn.	*	*	*	*	*	*
Del.	x (g)	-	-	(g)	-	-
D. C.	*	*	*	*	*	*
Fla.	-	-	-	-	June 1967	IC-234,H-194,S-7,Co-3, CG-1, BB-20, 0-15 (h)
Ga.	-	-	x	-	-	-
Hawaii	x	-	-	-	-	-
Ida.	-	-	x (i)	-	-	-
Ill.	-	-	-	-	Jan. 1966	IC-334
Ind.	x	-	-	-	-	-
Ia.	x	-	-	-	-	-
Kans.	-	-	-	x (j)	-	-
Ky.	-	-	-	-	Mar. 1968 (k)	-
La.	x	-	-	-	-	-
Me.	-	-	-	-	July 1967 (l)	-
Md.	-	-	-	-	Oct. 1966	IC-68,H-49, S-10,0-11 (m)
Mass.	-	-	-	x (n)	-	-
Mich.	-	-	-	-	June 1968 (o)	-
Minn.	-	-	x	-	-	-
Miss.	-	x	-	-	-	-
Mo.	-	-	-	x (p)	-	-
Mont.	-	-	-	x (q)	-	-
Nebr.	x	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	x	-	-	-	-	-
N. J.	-	-	-	-	May 1963 (r)	BB-135
N. M.	-	x	-	-	-	-
N. Y.	-	-	-	-	July 1965	I-192,H-237,Co-25
N. C.	-	-	x	-	-	-
N. D.	x	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	May 1969 (s)	-
Pa.	-	-	-	-	1951, 1961	IC-156 IC-30
R. I.	-	-	-	-	-	-
S. C.	-	-	-	x (t)	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	May 1967 (u)	-
Tex.	x	-	-	-	-	-
Utah	x	-	-	-	-	-
Vt.	x	-	-	-	-	-
Va.	-	-	-	x (v)	-	-
Wash.	x	-	-	-	-	-
W. Va.	x	-	-	-	-	-
Wisc.	-	x	-	-	-	-
Wyo.	x	-	-	-	-	-
P. R.	-	-	-	-	June 1962	IC-73,H-30, PH-60,BB-19
V. I.	x	-	-	-	-	-

FOOTNOTES. TABLE 2-2.

- (a) Code: IC - Independent Clinical Laboratories; H - Hospital Laboratories; S - State; Co - County; Cy - City; CC - City-County; PH - Public Health; BB - Blood Banks; O - Other.
- (b) Bill would cover all independent clinical laboratories.
- (c) Law becomes effective January 1, 1970 and covers independent clinical laboratories.
- (d) Would cover independent clinical and hospital laboratories, all public health laboratories and Veterans Administration laboratories.
- (e) Public Health laboratories include: State, 1; County, 33; Bi-county, 2; City, 4; City-county, 1. Other represents: Training laboratories, 269; Blood Banks, 53; Laboratory Animal Facilities, 326. Public health laboratories, blood banks, and laboratory animal facilities are licensed and certified separately under Health and Safety Code; not included in Business and Professions code with clinical laboratories.
- (f) Bill covers independent clinical laboratories.
- (g) Bill killed June 1968.
- (h) Plasmaphoresis.
- (i) Bill introduced in 1967 legislature, but killed in Legislative Committee.
- (j) Laboratory Accreditation Law in Committee. It would cover independent clinical and hospital laboratories (which are already covered by the Department of Health Regulations and are a Laboratory Services responsibility), county, city, and city-county laboratories.
- (k) Covers independent clinical laboratories and schools of medical technology.
- (l) Two laboratories eligible. Covers independent clinical laboratories, but law not implemented yet.
- (m) State Hospitals.
- (n) Bill would cover independent clinical and hospital laboratories.
- (o) Covers independent clinical, hospital and public health laboratories, an estimated total of 450 laboratories. Rules to implement Act 235 of Public Acts 1968 have not yet been promulgated and no applications have been processed.
- (p) Bill covers independent clinical laboratories, hospital laboratories, and city, county, and city-county laboratories.
- (q) Defeated in 1969 Session of Legislature. It will be introduced again in 1970.
- (r) This law requires the licensure of Blood Banks. A new bill licensing all clinical, hospital, and public health laboratories has been introduced (Spring, 1969) and submitted to the Governor's office.
- (s) Not signed by Governor as of May 9, 1969. Bill covers: independent clinical laboratories, hospital laboratories; State, county, city, city-county, and Institutional Public Health Laboratories.
- (t) Bill would cover independent clinical laboratories, hospital and clinic laboratories, and all public health laboratories.
- (u) Law covers independent clinical and hospital laboratories.
- (v) Bill introduced in 1968, but no action by Legislature.

TABLE 2-3. STATUS OF LABORATORY PERSONNEL LICENSURE LAWS

	No Bill or Law	Under Consideration:			Bill Introduced	Date Law Passed	Number of Personnel Licensed (a)
		In Discussion Stage Only	By Study Committee	In Committee of Legislature			
Ala.	-	-	x (b)	-	-	-	-
Alaska	-	x (c)	-	-	-	-	-
Ariz.	-	-	-	-	x (d)	-	-
Ark.	-	-	x (e)	-	-	-	-
Cal.	-	-	-	-	-	1937	D-625, (f) Tg-16,262,Tr-2120
Colo.	-	-	-	x	x (g)	-	-
Conn.	*	*	*	*	*	*	*
Del.	x	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	June 1967	D-223,S-845, Tg-1733,Tc-825
Ga.	-	-	x	-	-	-	-
Hawaii	-	-	-	-	-	1958 (h)	0-46,Tc-379
Ida.	x	-	-	-	-	-	-
Ill.	x	-	-	-	-	-	-
Ind.	x	-	-	-	-	-	-
Ia.	x	-	-	-	-	-	-
Kans.	-	-	-	x (i)	-	-	-
Ky.	x	-	-	-	-	-	-
La.	x	-	-	-	-	-	-
Me.	x	-	-	-	-	-	-
Md.	x	-	-	-	-	-	-
Mass.	-	-	-	x (c)	-	-	-
Mich.	-	x	-	-	-	-	-
Minn.	x	-	-	-	-	-	-
Miss.	-	x	-	-	-	-	-
Mo.	-	-	-	-	x (g)	-	-
Mont.	-	-	-	-	x (j)	-	-
Nebr.	x	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	x	-	-	-	-	-	-
N. J.	-	-	-	-	-	1953	(k)
N. M.	-	x	-	-	-	-	-
N. Y.	-	-	-	-	-	July 1965	D-345
N. C.	-	-	x	-	-	-	-
N. D.	x	-	-	-	-	-	-
Ohio	-	-	-	-	x (c)	-	-
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	x (l)	-	-
Pa.	-	x	-	-	-	-	-
R. I.	x	-	-	-	-	-	-
S. C.	x	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	May 1967 (m)	-
Tex.	-	x	-	-	-	-	-
Utah	-	-	-	-	x (n)	-	-
Vt.	x	-	-	-	-	-	-
Va.	x	-	-	-	-	-	-
Wash.	x	-	-	-	-	-	-
W. Va.	x	-	-	-	-	-	-
Wisc.	-	x	-	-	-	-	-
Wyo.	x	-	-	-	-	-	-
P. R.	-	-	-	-	-	May 1939-June 1957	Tg-767, Tc-395
V. I.	x	-	-	-	-	-	-



FOOTNOTES. TABLE 2-3.

- (a) Code: D - Directors; S - Supervisors; Tg - Technologists; Tc - Technicians; Tr - Trainees.
- (b) Bill would cover Technologists and Technicians.
- (c) Would cover all Directors.
- (d) Died in Committee.
- (e) Would cover Directors, Supervisors, Technologists, Technicians and Aides.
- (f) Directors licensed includes clinical laboratory bioanalysts only; physician and surgeon directors are licensed under provisions of the Medical Practice Act.
- (g) Covers Directors, Supervisors, Technologists, and Technicians.
- (h) The State of Hawaii requires that all Laboratory Directors and all Laboratory Technicians be licensed.
- (i) Law would cover Supervisors, Technologists, Technicians, and Specialists and requires registration of employed students and aides.
- (j) Bill introduced in 1969 Legislature but was defeated. It will be re-introduced in 1970. Law would cover about 250 persons in Montana (directors, supervisors, technologists, and technicians).
- (k) The licensing of bio-analytical laboratory directors is pursuant to the Bio-analytical Laboratory Act of 1953 and is administered by the Board of Medical Examiners, a professional board in the Department of Law and Public Safety.
- (l) Bill not passed.
- (m) Covers Directors, Supervisors, Technologists, Technicians, and Trainees.
- (n) Bill introduced in 1969 Legislature but was defeated.

TABLE 2-4. PROFICIENCY TESTING PROGRAMS UNDER MEDICARE AS OF JUNE 30, 1968.

	Proficiency Testing Programs Available:			# Labs Participating in Programs	Disciplines Covered by Programs:	
	State-operated Program	State Approved Program			Clin. Chem.	Hema- tology
		CAP	AAB	Other		
Ala.	(a)	-	-	-	-	-
Alaska	x	(b)	-	-	6	-
Ariz.	x	x	x	-	12 (c)	x
Ark.	x	x	-	-	113	x
Cal.	x	x	x	-	415 (d)	x
Colo.	x	x	-	-	*	x
Conn.	*	*	*	*	*	*
Del.	x	x	x	-	12	x
D. C.	*	*	*	*	*	*
Fla.	x	x	x	x (e)	98	x
Ga.	-	-	-	-	-	-
Hawaii	x	x	-	-	12	x
Ida.	-	x	-	-	1	*
Ill.	x	x	x	x (f)	*	-
Ind.	x	x	-	-	11	x
Ia.	(g)	x	x	-	1	x
Kans.	x	x	x	-	116 (h)	x
Ky.	-	x	-	-	20	x
La.	-	x	-	-	*	*
Me.	x	-	-	-	2	x
Md.	x	-	-	-	66	x
Mass.	x	x	x	-	90	x
Mich.	x	x	x	x	76	x
Minn.	x	-	-	-	12	x
Miss.	-	x	x	-	75 (i)	*
Mo.	x	x	x	-	55	x
Mont.	x	x	-	-	51 (j)	*
Nebr.	-	x	-	-	2	x
Nev.	*	*	*	*	*	*
N. H.	-	x	-	-	1	x
N. J.	x	-	-	-	294	x
N. M.	x	-	-	-	*	x
N. Y.	x	-	-	-	127	x
N. C.	-	-	-	-	-	-
N. D.	-	x	-	-	*	*
Ohio	x	x	x	-	105	x
Okla.	*	*	*	*	*	*
Ore.	x	x	x	-	9	x
Pa.	x	-	-	-	326	x
R. I.	x	-	-	-	17	x
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	x	-	-	-	165	-
Tex.	x	x	x	-	67	x
Utah	x	x	-	-	27 (k)	*
Vt.	-	x	x	-	*	*
Va.	-	x	x	-	*	*
Wash.	x	x	-	-	*	x
W. Va.	(m)	-	-	-	*	x
Wisc.	x	-	-	-	18	x
Wyo.	(n)	-	-	-	-	-
P. R.	x	-	-	-	51	x
V. I.	-	-	-	x (o)	1	x

TABLE 2-4. PROFICIENCY TESTING PROGRAMS UNDER MEDICARE AS OF JUNE 30, 1968  
(Continued)

	Disciplines Covered by Programs							
	Immuno- hematology	Serology (VD)	Microbiology			Serology (other than VD)	Virol- ogy	Other
			Bacteriology	Mycology	Parasitology			
Ala.	-	-	-	-	-	-	-	-
Alaska	-	x	-	-	-	-	-	-
Ariz.	x	x	x	-	-	-	-	-
Ark.	x	x	x	-	-	-	-	-
Cal.	x	x	x	-	x	x	-	-
Colo.	x	-	x	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	x	x	x	x	x	x	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	x	x	x	-	x	x	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	x	x	-	-	-	-	-	-
Ida.	*	*	*	*	*	*	*	*
Ill.	x	x	x	-	-	-	-	x (p)
Ind.	x	x	x	x	x	-	-	-
Ia.	-	-	x	-	x	-	-	-
Kans.	x	x	x	-	-	-	-	-
Ky.	-	-	x	-	-	-	-	-
La.	*	*	*	*	*	*	*	*
Me.	-	-	-	-	-	-	-	-
Md.	-	x	x	(q)	x	-	-	-
Mass.	x	x	x	-	-	x	-	-
Mich.	x	x	x	x	x	x	-	-
Minn.	-	x	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*
Mo.	-	x	x	-	-	-	-	-
Mont.	*	x	*	*	*	*	*	*
Nebr.	x	x	x	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	x	x	x	x	x	x	-	-
N. J.	x	x	x	-	-	x	-	-
N. M.	x	x	x	-	-	x	-	-
N. Y.	x	x	x	x	x	x	-	-
N. C.	-	-	-	-	-	-	-	-
N. D.	*	*	*	*	*	*	*	*
Ohio	x	x	x	x	x	x	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	x	x	x	-	-	-	-	-
Pa.	x	x	x	x	x	-	-	-
R. I.	x	x	x	-	x	x	-	-
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	x	x	-	-	-	-	-
Tex.	x	x	x	-	x	x	-	-
Utah	*	*	*	*	*	*	*	*
Vt.	*	*	*	*	*	*	*	*
Va.	x	-	x	-	-	-	-	-
Wash.	x	x	x	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	x	x	x	-	-	-	-	x (r)
Wyo.	-	-	-	-	-	-	-	-
P. R.	x	x	x	-	x	-	-	-
V. I.	-	x	x	x	x	x	-	-

FOOTNOTES. TABLE 2-4.

- (a) Not handled by Bureau of Laboratories.
- (b) Two laboratories participate on their own with CAP - not required by law or regulation.
- (c) This represents laboratories in CAP and AAB Chemistry and Hematology as of June 1968. State has 132 laboratories in VD Serology program.
- (d) Number in State-operated program - STS Serology only. 312 in State-approved programs.
- (e) ASCP (for Cytology only) and Sunderman.
- (f) Illinois Association of Clinical Laboratories, Chek-Laboratory, Inc., Computer Analysis of Laboratory Data.
- (g) The State Hygienic Laboratory operates a mandatory VDRL proficiency testing program and a voluntary program for other specialties, but these programs do not relate to Medicare. The following information relates to this program:

<u>Discipline</u>	<u>No. Labs Participating</u>	<u>No. Shipments Per Lab</u>	<u>No. Specimens per Shipment</u>	<u>Type Specimens</u>
Clinical Chemistry	63	4	3	Lyophilized Serum
Serology	76	5	20	Serum
Bacteriology	36	3	3	Slides and Cultures
Parasitology	35	2	4-6	Slides and Feces
Serology (Other than VD)	15	3	3	Serum
PKU	29	4	4-6	Blood Spots and Serum

- (h) State operates VD Serology Program (116 laboratories); CAP program has 7 laboratories; AAB - 4.
- (i) Estimated total - information not available on CAP and AAB programs.
- (j) Represents laboratories participating in State program (VD Serology). Information is not available on CAP program, but about four laboratories participate.
- (k) Represents laboratories in State program. No information available on CAP program.
- (l) Total unknown. Some participate in programs such as CAP, Sunderman, etc. State laboratory has no tabulation of these laboratories.
- (m) Program scheduled to begin July 1, 1969.
- (n) The only three independent laboratories in the State are directed by pathologists; therefore, no approved State-approved testing program is required.
- (o) NCDC
- (p) PKU
- (q) Included in Bacteriology.
- (r) Cytology.

TABLE 2-5. PROFICIENCY TESTING PROGRAMS: CLINICAL CHEMISTRY

	# of Labs Participating:				# of Shipments per Lab:				# of Specimens per Shpt.:				Type Specimens sent by State Lab	
	State	CAP	AAB	Other	State	CAP	AAB	Other	State	CAP	AAB	Other		
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ariz.	-	5	7	-	-	2	2	-	-	*	*	-	-	
Ark.	4	*	-	-	1	*	-	-	7	*	-	-	Sera	
Cal.	-	28	283	-	-	4	4	-	-	2	2	-	-	
Colo.	65	24	-	-	7	4	-	-	5	2	-	-	Serum	
Conn.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Del.	-	6	3	-	-	4	2	-	-	4-10	2-4	-	-	
D. C.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	-	56	42	3	-	4	4	*	-	*	*	*	-	
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hawaii	-	1	-	-	-	4	-	-	-	6-7	-	-	-	
Ida.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Ill.	-	*	*	*	-	*	*	*	-	*	*	*	-	
Ind.	-	11	-	-	-	*	-	-	-	*	-	-	-	
Ia.	-	-	1	-	-	-	2	-	-	-	2	-	-	
Kans.	-	6	1	-	-	4	*	-	-	(a)	(a)	-	-	
Ky.	-	20	-	-	-	4	-	-	-	2	-	-	-	
La.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Me.	2	-	-	-	4	-	-	-	5	-	-	-	Serum	
Md.	36	-	-	-	2	-	-	-	2	(b)-	-	-	Serum	
Mass.	-	44	13	-	-	4	4 (c)	-	-	2	2	-	-	
Mich.	-	10	31	3	-	4	4	*	-	2	2	*	-	
Minn.	10	-	-	-	10-11	-	-	-	2	-	-	-	Lyophilized Serum	
Miss.	-	*	*	-	-	*	*	-	-	*	*	-	-	
Mo.	-	22	5	-	-	4	4	-	-	4	*	-	-	
Mont.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nebr.	-	2	-	-	-	*	-	-	-	*	-	-	-	
Nev.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	1	-	-	-	*	-	-	-	*	-	-	-	
N. J.	120	-	-	-	6	-	-	-	4	-	-	-	Serum	
N. M.	3	-	-	-	1	-	-	-	2	-	-	-	Lyophilized	
N. Y.	100	-	-	-	5	-	-	-	(a)	-	-	-	*	
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	
N. D.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Ohio	95 (d)	46	9	-	1	*	*	-	1	*	*	-	Aqueous Standard	
Okla.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ore.	-	9	-	-	-	4	-	-	-	2	-	-	-	
Pa.	170	-	-	-	4	-	-	-	2	-	-	-	Serum	
R. I.	16	-	-	-	2	-	-	-	3	-	-	-	*	
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	
S. D.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tex.	-	34	27	-	-	*	*	-	-	*	*	-	-	
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vt.	-	*	*	-	-	*	*	-	-	*	*	-	-	
Va.	-	3	1	-	-	4	2	-	-	16	22	-	-	
Wash.	-	12	-	-	-	3	-	-	-	2 (e)-	-	-	-	
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wisc.	12	-	-	-	12	-	-	-	20	-	-	-	Glucose, Cholestrol, Urea Nit., Uric Acid	
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	-	
P. R.	51	-	-	-	10	-	-	-	3-4	-	-	-	*	
V. I.	-	-	-	1	-	-	-	4	-	-	-	*	-	

TABLE 2-6. PROFICIENCY TESTING PROGRAMS: HEMATOLOGY

	# of Labs Participating:				# of Shipments per Lab:				# of Specimens per Shpt.:				Type Specimens sent by State Lab	
	State	CAP	AAB	Other	State	CAP	AAB	Other	State	CAP	AAB	Other		
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ariz.	-	5	7	-	-	2	2	-	-	*	*	-	-	
Ark.	4	*	-	-	1	*	-	-	5	*	-	-	Hemoglobin	
Cal.	-	28	270	-	-	4	4	-	-	2	3	-	-	
Colo.	65	24	-	-	3	2	-	-	4	2	-	-	Hemolysate	
Conn.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Del.	-	6	2	-	-	4	2	-	-	4-10	4-12	-	-	
D. C.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	-	54	42	-	-	4	4	-	-	*	*	-	-	
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hawaii	-	1	-	-	-	4	-	-	-	6-7	-	-	-	
Ida.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Ill.	-	*	*	*	-	*	*	*	-	*	*	*	*	
Ind.	-	11	-	-	-	*	-	-	-	*	-	-	-	
Ia.	-	-	1	-	-	-	2	-	-	-	2	-	-	
Kans.	-	7	1	-	-	3	*	-	-	1	1	-	-	
Ky.	-	20	-	-	-	3	-	-	-	1-2	-	-	-	
La.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Me.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Md.	38	-	-	-	2	-	-	-	2 (f)	-	-	-	Whole Blood	
Mass.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mich.	-	10	31	3	-	4	4	*	-	2	2	*	-	
Minn.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miss.	-	*	*	-	-	*	*	-	-	*	*	-	-	
Mo.	-	22	4	-	-	4	4	-	-	2	*	-	-	
Mont.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nebr.	-	2	-	-	-	*	-	-	-	*	-	-	-	
Nev.	*	*	*	*	*	*	*	*	*	*	*	*	*	
N. H.	-	1	-	-	-	*	-	-	-	*	-	-	-	
N. J.	115 (g)	-	-	-	1	-	-	-	4	-	-	-	Hemolysates, Whole Blood	
N. M.	3	-	-	-	1	-	-	-	-	-	-	-	-	
N. Y.	99	-	-	-	2	-	-	-	10	-	-	-	*	
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	
N. D.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Ohio	93 (h)	59	9	-	5	*	*	-	5	*	*	-	Hemolysates	
Okla.	*	*	*	*	*	*	*	*	*	*	*	*	*	
Ore.	-	9	-	-	-	4	-	-	-	2	-	-	-	
Pa.	172	-	-	-	1	-	-	-	2	-	-	-	Slide	
R. I.	16	-	-	-	2	-	-	-	4	-	-	-	*	
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	
S. D.	*	*	*	*	*	*	*	*	*	*	*	*	*	
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tex.	-	34	28	-	-	*	*	-	-	*	*	-	-	
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vt.	-	*	*	-	-	*	*	-	-	*	*	-	-	
Va.	-	3	1	-	-	3	2	-	-	2	2	-	-	
Wash.	-	12	-	-	-	3	-	-	-	1-4	-	-	-	
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wisc.	14	-	-	-	6	-	-	-	7	-	-	-	Hemoglobin, Blood Smears	
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	-	
P. R.	51	-	-	-	8	-	-	*	2	-	-	-	*	
V. I.	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2-7. PROFICIENCY TESTING PROGRAMS: IMMUNOHEMATOLOGY

	# of Labs Participating:				# of Shipments per Lab:				# of Specimens per Shpt.:				Type Specimens sent by State Lab		
	State	CAP	AAB	Other	State	CAP	AAB	Other	State	CAP	AAB	Other			
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-		
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ariz.	-	5	-	-	-	*	-	-	-	*	-	-	-		
Ark.	113	*	-	-	*	*	-	-	-	*	*	-	-	*	
Cal.	-	20	207	-	-	4	4	-	-	-	1	1	-	-	
Colo.	-	24	-	-	-	2	-	-	-	-	2	-	-	-	
Conn.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Del.	-	5	2	-	-	4	2	-	-	-	2-10	2-4	-	-	
D. C.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	-	53	41	-	-	2	2	-	-	-	*	*	-	-	
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hawaii	-	1	-	-	-	4	-	-	-	-	6-7	-	-	-	
Ida.	-	*	-	-	-	*	-	-	-	-	*	-	-	-	
Ill.	511	*	*	*	2	*	*	*	*	3-6	*	*	*	Blood	
Ind.	-	9	-	-	-	*	-	-	-	-	*	-	-	-	
Ia.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kans.	-	7	1	-	-	2	*	-	-	-	1	1	-	-	
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
La.	-	*	-	-	-	*	-	-	-	-	*	-	-	-	
Me.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Md.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mass.	70	-	-	-	2	-	-	-	-	10	-	-	-	Blood	
Mich.	-	8	30	2	-	4	4	*	-	-	2	2	*	-	
Minn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miss.	-	*	*	-	-	*	*	-	-	-	*	*	-	-	
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mont.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nebr.	-	2	-	-	-	*	-	-	-	-	*	-	-	-	
Nev.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	1	-	-	-	*	-	-	-	-	*	-	-	-	
N. J.	101	-	-	-	10	-	-	-	-	2-3	-	-	-	Plasma and Packed Cells	
N. M.	3	-	-	-	1	-	-	-	-	-	-	-	-	-	
N. Y.	81	-	-	-	1	-	-	-	-	5	-	-	-	*	
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N. D.	-	*	-	-	-	*	-	-	-	-	*	-	-	-	
Ohio	76	(1)47	4	-	2	*	*	-	-	4	*	*	-	Whole Blood	
Okla.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ore.	-	9	-	-	-	4	-	-	-	-	1	-	-	-	
Pa.	178	-	-	-	2	-	-	-	-	3	-	-	-	Whole Blood	
R. I.	16	-	-	-	2	-	-	-	-	4	-	-	-	*	
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S. D.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tex.	-	6	1	-	-	*	*	-	-	-	*	*	-	-	
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vt.	-	*	*	-	-	*	*	-	-	-	*	*	-	-	
Va.	-	3	1	-	-	1	-	-	-	-	1	-	-	-	
Wash.	-	12	-	-	-	3	-	-	-	-	1-5	-	-	-	
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wisc.	15	-	-	-	3	-	-	-	-	4	-	-	-	Blood Group and Rh Type	
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
P. R.	20	-	-	-	2	-	-	-	-	2	-	-	-	Fresh Blood	
V. I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2-8. PROFICIENCY TESTING PROGRAMS: SEROLOGY (VD)

	# of Labs Participating:				# of Shipments per Lab:				# of Specimens per Shpt.:				Type Specimens sent by State Lab	
	State	CAP	AAB	Other	State	CAP	AAB	Other	State	CAP	AAB	Other		
Ala.	-	-	-	-	-	-	*	-	-	-	-	-	-	
Alaska	6	-	-	-	3	-	-	-	-	20	-	-	-	Sera
Ariz.	132	-	-	-	100	-	-	-	-	10	-	-	-	Serum
Ark.	113	*	-	-	10	*	-	-	-	10	*	-	-	Sera
Cal.	415	-	-	-	4	-	-	-	-	2	-	-	-	Serum
Colo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Del.	16	-	-	-	10	-	-	-	-	10	-	-	-	Serum
D. C.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	120	-	-	-	4	-	-	-	-	10	-	-	-	Serum
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	11	-	-	-	1/Tech.	-	-	-	-	10	-	-	-	Serum
Ida.	-	*	-	-	-	*	-	-	-	-	*	-	-	-
Ill.	495	*	*	*	2-4	*	*	*	*	5-10	*	*	*	Serum
Ind.	11	-	-	-	12	-	-	-	-	8	-	-	-	Serum
Ia.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	116	-	-	-	6	-	-	-	-	10	-	-	-	Serum
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	-	*	-	-	-	*	-	-	-	-	*	-	-	-
Me.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	25	-	-	-	2	-	-	-	-	10	-	-	-	Serum
Mass.	35	-	-	-	6	-	-	-	-	10	-	-	-	Serum
Mich.	71	-	-	-	4	-	-	-	-	10	-	-	-	Serum
Minn.	1	-	-	-	12	-	-	-	-	12	-	-	-	Serum
Miss.	-	*	*	-	1	*	*	-	-	-	*	*	-	-
Mo.	51	*	-	-	100	1	-	-	-	10	2	-	-	Serum (liquid)
Mont.	51	-	-	-	2	-	-	-	-	10	-	-	-	Serum
Nebr.	-	2	-	-	-	*	-	-	-	-	*	-	-	-
Nev.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	1	-	-	-	*	-	-	-	-	*	-	-	-
N. J.	84	-	-	-	10	-	-	-	-	11 (j)	-	-	-	Serum
N. M.	3	-	-	-	10	-	-	-	-	10	-	-	-	Sera
N. Y.	7	-	-	-	1	-	-	-	-	10	-	-	-	*
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N. D.	-	*	-	-	-	*	-	-	-	-	*	-	-	-
Ohio	86	6	-	-	10	*	-	-	-	5	*	-	-	Sera
Okla.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ore.	9	-	-	-	2	-	-	-	-	15	-	-	-	Serum
Pa.	326	-	-	-	4	-	-	-	-	4-5	-	-	-	Sera
R. I.	16	-	-	-	3	-	-	-	-	20	-	-	-	*
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	165	-	-	-	10	-	-	-	-	10	-	-	-	Serum
Tex.	64	-	-	-	4-5	-	-	-	-	4-5	-	-	-	Serum (fluid)
Utah	27	-	-	-	10	-	-	-	-	5	-	-	-	Serum
Vt.	-	*	*	-	-	*	*	-	-	-	*	*	-	-
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wash.	126	-	-	-	6	-	-	-	-	10	-	-	-	Serum
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wisc.	14	-	-	-	10	-	-	-	-	10	-	-	-	Serum
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P. R.	40	-	-	-	4	-	-	-	-	10	-	-	-	Serum
V. I.	-	-	-	1	-	-	-	4	-	-	-	-	*	-



TABLE 2-9. PROFICIENCY TESTING PROGRAMS: BACTERIOLOGY

	# of Labs Participating:				# of Shipments per Lab:				# of Specimens per Shpt.:				Type Specimen sent by State Lab	
	State	CAP	AAB	Other	State	CAP	AAB	Other	State	CAP	AAB	Other		
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ariz.	31	6	1	-	6	2	2	-	3	*	*	-	Cultures	
Ark.	4	*	-	-	1	*	-	-	2	*	-	-	Cultures	
Cal.	-	23	254	-	-	3	4	-	-	1	2	-	-	
Colo.	53	24	-	-	1	2	-	-	2	2	-	-	Pure Cultures	
Conn.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Del.	-	4	-	-	-	4	-	-	-	*	-	-	-	
D. C.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	-	54	42	-	-	2	2	-	-	*	*	-	-	
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ida.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Ill.	398 (k)	*	*	*	2-4	*	*	*	5-10	*	*	*	TB Smear	
Ind.	-	3	-	-	-	*	-	-	-	*	-	-	-	
Ia.	-	-	1	-	-	-	2	-	-	-	2	-	-	
Kans.	-	7	1	-	-	2	*	-	-	1	1	-	-	
Ky.	-	20	-	-	-	3	-	-	-	1	-	-	-	
La.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Me.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Md.	22	-	-	-	2	-	-	-	2 (1)	-	-	-	Cultures	
Mass.	40	-	-	-	-	-	-	-	-	-	-	-	-	
Mich.	-	6	25	3	-	4	4	*	-	2	2	*	-	
Minn.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Miss.	-	*	*	-	-	*	*	-	-	*	*	-	-	
Mo.	-	2	3	-	-	1	6	-	-	1	2	-	-	
Mont.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nebr.	-	2	-	-	-	*	-	-	-	*	-	-	-	
Nev.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	1	-	-	-	*	-	-	-	*	-	-	-	
N. J.	99 (m)	-	-	-	1	-	-	-	12	-	-	-	Simulated Throat Smears	
N. M.	3	-	-	-	1	-	-	-	-	-	-	-	-	
N. Y.	79	-	-	-	5	-	-	-	4	-	-	-	*	
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	
N. D.	-	*	-	-	-	*	-	-	-	*	-	-	-	
Ohio	56	35	4	-	1	*	*	-	5	*	*	-	Cultures	
Okla.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ore.	-	9	-	-	-	3	-	-	-	1	-	-	-	
Pa.	200	-	-	-	3	-	-	-	5	-	-	-	Simulated Cultures	
R. I.	13	-	-	-	2	-	-	-	10	-	-	-	*	
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	
S. D.	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	17	-	-	-	1	-	-	-	4	-	-	-	Culture	
Tex.	50	-	-	-	4-5	-	-	-	2-5	-	-	-	Simulated or Culture	
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vt.	-	*	*	-	-	*	*	-	-	*	*	-	-	
Va.	-	4	1	-	-	3	-	-	-	1	-	-	-	
Wash.	-	12	-	-	-	1	-	-	-	1	-	-	-	
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wisc.	15	-	-	-	4	-	-	-	4-8	-	-	-	Bacterial Cultures	
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	-	
P. R.	20	-	-	-	4	-	-	-	3	-	-	-	*	
V. I.	-	-	-	1	-	-	-	4	-	-	-	*	-	

TABLE 2-10. PROFICIENCY TESTING PROGRAMS: MYCOLOGY

	# of Labs Participating:				# of Shipments per Lab:				# of Specimens per Shpt.				Type Specimen sent by State Lab
	State	CAP	AAB	Other	State	CAP	AAB	Other	State	CAP	AAB	Other	
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*	*	*	*	*	*
Del.	-	4	1	-	-	4	2	-	-	*	12	-	-
D. C.	*	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Ida.	-	*	-	-	-	*	-	-	-	*	-	-	-
Ill.	-	*	*	*	-	*	*	*	-	*	*	*	-
Ind.	-	3	-	-	-	*	-	-	-	*	-	-	-
Ia.	-	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	-	*	-	-	-	*	-	-	-	*	-	-	-
Me.	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-	-	-	-	-	-
Mich.	-	3	17	2	-	4	4	*	-	2	2	*	-
Minn.	-	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	-	*	*	-	-	*	*	-	-	*	*	-	-
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	1	-	-	-	*	-	-	-	*	-	-	-
N. J.	-	-	-	-	-	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-	-	-	-	-	-
N. Y.	11	-	-	-	2	-	-	-	7-8	-	-	-	*
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-
N. D.	-	*	-	-	-	*	-	-	-	*	-	-	-
Ohio	50	20	5	-	1	*	*	-	5	*	*	-	Cultures
Okla.	*	*	*	*	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	29	-	-	-	1	-	-	-	5	-	-	-	Isolates
R. I.	-	-	-	-	-	-	-	-	-	-	-	-	-
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-
Vt.	-	*	*	-	-	*	*	-	-	*	*	-	-
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-	-	-	-	-	-
V. I.	-	-	-	1	-	-	-	4	-	-	-	*	-

TABLE 2-11. PROFICIENCY TESTING PROGRAMS: PARASITOLOGY

	# of Labs Participating:				# of Shipments per Lab:				# of Specimens per Shtpt.:				Type Specimen sent by State Lab
	State	CAP	AAB	Other	State	CAP	AAB	Other	State	CAP	AAB	Other	
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-	-	-	-
Cal.	-	-	160	-	-	-	4	-	-	-	1	-	-
Colo.	-	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*	*	*	*	*	*
Del.	-	4	1	-	-	8	2	-	-	*	12	-	-
D. C.	*	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	-	*	42	-	-	*	2	-	-	*	*	-	-
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Ida.	-	*	-	-	-	*	-	-	-	*	-	-	-
Ill.	-	*	*	*	-	*	*	*	-	*	*	*	-
Ind.	-	3	-	-	-	*	-	-	-	*	-	-	-
Ia.	-	-	1	-	-	-	2	-	-	-	2	-	-
Kans.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	-	*	-	-	-	*	-	-	-	*	-	-	-
Me.	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	*	-	-	-	2	-	-	-	2 (n)-	-	-	-	*
Mass.	-	-	-	-	-	-	-	-	-	-	-	-	-
Mich.	-	2	23	3	-	4	4	*	-	2	2	*	-
Minn.	-	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	-	*	*	-	-	*	*	-	-	*	*	-	-
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	1	-	-	-	*	-	-	-	*	-	-	-
N. J.	-	-	-	-	-	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-	-	-	-	-	-
N. Y.	18	-	-	-	2	-	-	-	2	-	-	-	*
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-
N. D.	-	*	-	-	-	*	-	-	-	*	-	-	-
Ohio	30	14	3	-	1	*	*	-	5	*	*	-	Fecal Suspensions
Okla.	*	*	*	*	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	58	-	-	-	1	-	-	-	5	-	-	-	Fecal Material
R. I.	13	-	-	-	1	-	-	-	1	-	-	-	*
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-
Tex.	48	-	-	-	4-5	-	-	-	2-5	-	-	-	Slide (stained) or Spec. (preserved)
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-
Vt.	-	*	*	-	-	*	*	-	-	*	*	-	-
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	-
P. R.	51	-	-	-	2	-	-	-	3	-	-	-	*
V. I.	-	-	-	1	-	-	-	4	-	-	-	*	-

TABLE 2-12. PROFICIENCY TESTING PROGRAMS: SEROLOGY (OTHER THAN VD)

	# of Labs Participating:				# of Shipments per Lab:				# of Specimens per Shtpt.:				Type Specimen sent by State Lab
	State	CAP	AAB	Other	State	CAP	AAB	Other	State	CAP	AAB	Other	
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-	-	-	-
Cal.	-	25	259	-	-	2	4	-	-	1	1	-	-
Colo.	-	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*	*	*	*	*	*
Del.	-	4	-	-	-	4	-	-	-	*	-	-	-
D. C.	*	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	-	*	42	-	-	*	2	-	-	*	*	-	-
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Ida.	-	*	-	-	-	*	-	-	-	*	-	-	-
Ill.	-	*	*	*	-	*	*	*	-	*	*	*	-
Ind.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	-	*	-	-	-	*	-	-	-	*	-	-	-
Me.	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	-	-	-	-	-
Mass.	40	-	-	-	-	-	-	-	-	-	-	-	-
Mich.	-	8	26	3	-	4	4	*	-	2	2	*	-
Minn.	-	-	-	-	-	-	-	-	-	-	-	-	-
Miss.	-	*	*	-	-	*	*	-	-	*	*	-	-
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	1	-	-	-	*	-	-	-	*	-	-	-
N. J.	84	-	-	-	3	-	-	-	3	-	-	-	*
N. M.	3	-	-	-	1	-	-	-	-	-	-	-	-
N. Y.	51	-	-	-	10	-	-	-	14	-	-	-	*
N. C.	-	-	-	-	-	-	-	-	-	-	-	-	-
N. D.	-	*	-	-	-	*	-	-	-	*	-	-	-
Ohio	30 (o)	-	-	-	1	-	-	-	5	-	-	-	Diluted Antisera
Okla.	*	*	*	*	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-	-	-	-	-	-
R. I.	16	-	-	-	*	-	-	-	*	-	-	-	*
S. C.	-	-	-	-	-	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-
Tex.	50	-	-	-	2-5	-	-	-	4-5	-	-	-	Serum (fluid)
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-
Vt.	-	*	*	-	-	*	*	-	-	*	*	-	-
Va.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-	-	-	-	-	-
V. I.	-	-	-	1	-	-	-	4	-	-	-	*	-

TABLE 2-13. PROFICIENCY TESTING PROGRAMS: MISCELLANEOUS

Type Program	No. of Labs Participating:			No. of Shpts. per Lab:			No. of Specimens per Shpt.:			Type Specimen sent by State Lab	
	State	CAP	AAB	State	CAP	AAB	State	CAP	AAB		
Ala.	-	-	-	-	-	-	-	-	-	-	
Alaska	-	-	-	-	-	-	-	-	-	-	
Ariz.	-	-	-	-	-	-	-	-	-	-	
Ark.	-	-	-	-	-	-	-	-	-	-	
Cal.	-	-	-	-	-	-	-	-	-	-	
Colo.	-	-	-	-	-	-	-	-	-	-	
Conn.	*	*	*	*	*	*	*	*	*	*	
Del.	-	-	-	-	-	-	-	-	-	-	
D. C.	-	*	*	*	*	*	*	*	*	*	
Fla.	-	-	-	-	-	-	-	-	-	-	
Ga.	-	-	-	-	-	-	-	-	-	-	
Hawaii	-	-	-	-	-	-	-	-	-	-	
Ida.	-	-	*	-	*	-	-	*	-	-	
Ill.	PKU	77 (p)	*	*	2-4	*	*	4	*	*	Guthrie-Blood
Ind.	-	-	-	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-	-	-	-
La.	-	-	*	-	-	*	-	-	*	-	-
Me.	-	-	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-	-	-
Miss.	-	-	*	*	-	*	*	-	*	*	-
Mo.	-	-	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-	-	-	-	-
N. C.	-	-	-	-	-	-	-	-	-	-	-
N. D.	-	-	*	-	-	*	-	-	*	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-	-	-	-
R. I.	-	-	-	-	-	-	-	-	-	-	-
S. C.	-	-	-	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-
Vt.	-	-	*	*	-	*	*	-	*	*	-
Va.	-	-	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-	-	-	-
Wisc.	Cytology	14	-	-	6	-	-	3	-	-	Pap Smears
Wyo.	-	-	-	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-	-	-	-

TABLE 2-14. LABORATORIES LOSING CERTIFICATION UNDER MEDICARE

	# of Labs Losing Cert. During Year	Reasons for Losing Certification
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	*	*
Cal.	2	Non-compliance.
Colo.	-	-
Conn.	*	*
Del.	-	-
D. C.	*	*
Fla.	5	Asked to be withdrawn from Program.
Ga.	-	-
Hawaii	-	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	1	Laboratory closed.
Ky.	-	-
La.	- (q)	-
Me.	-	-
Md.	1	Insufficient time spent by Director and no qualified supervisor.
Mass.	-	-
Mich.	3	Closed (In addition, 3 collection stations only closed.)
Minn.	-	-
Miss.	-	-
Mo.	-	-
Mont.	-	-
Nebr.	-	-
Nev.	*	*
N. H.	-	-
N. J.	-	-
N. M.	-	-
N. Y.	2	Inadequate supervision; insufficient qualified technical personnel; inadequate quality control.
N. C.	-	-
N. D.	-	-
Ohio	4	Discontinued business.
Okla.	*	*
Ore.	1	Failure to participate in proficiency testing.
Pa.	-	-
R. I.	-	-
S. C.	-	-
S. D.	*	*
Tenn.	1	Failure to participate in Evaluation Program.
Tex.	- (r)	-
Utah	-	-
Vt.	-	-
Va.	1	Inadequate supervision (pending).
Wash.	4	2 changed to collecting stations; 1 closed; 1 denied-Failure to take PHS exam.
W. Va.	-	-
Wisc.	-	-
Wyo.	-	-
P. R.	-	-
V. I.	-	-

FOOTNOTES. TABLES 2-5 - 2-14.

- (a) Variable.
- (b) Five exams each.
- (c) Two laboratories received two shipments per year.
- (d) Represents Urea. Ninety-five laboratories also participated in Glucose testing. They received two shipments each of four specimens of sera.
- (e) Eight exams each.
- (f) Four exams each.
- (g) Program initiated March 1968.
- (h) Represents Hemoglobin. Ninety-three participated in Differential testing - one shipment of one specimen (slide) sent to each laboratory.
- (i) Represents B<sub>1</sub> Group. Seventy-six also participated in Rh Factor testing (whole blood specimens sent).
- (j) Includes one known.
- (k) In addition, one hundred and forty-one laboratories participated in TB culture (serum) examination, receiving two shipments of two specimens each.
- (l) Contained two and ten organisms.
- (m) Initiated May 1968.
- (n) Contained five and nine parasites.
- (o) Febrile agglutination.
- (p) In addition, forty laboratories participated in PKU Quantitative exams. They received two shipments of four specimens of serum.
- (q) One pending.
- (r) None, as yet, but a few have been persuaded to quit entirely or curtail their work, limiting it to fewer disciplines in which they are more proficient.

TABLE 2-15. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES

Year Present Lab Completed	Lab Space Increased FY 68- Net sq. ft. added	Planning Now in Progress (FY 69)	Planning Anticipated (FY 70)	Funds Appropriated For:		Architect Has Been Selected
				Planning	Construction	
Ala.	1954	-	x	-	-	-
Alaska	(a)	-	(b)	-	-	-
Ariz.	1954	-	-	-	-	-
Ark.	1969 (c)	-	-	-	-	-
Cal.	1955	-	-	-	-	-
Colo.	1960	-	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	1960	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	1954 (d)	-	-	x (d)	-	-
Ga.	1960	-	-	-	-	-
Hawaii	1961	-	x (e)	x (e)	-	-
Ida.	1965	x 450 (f)	x (g)	-	x	x
Ill.	*	-	x	x	x	x
Ind.	1950	-	-	-	-	-
Ia.	1928	-	-	-	-	-
Kans.	1967	-	x	x	x	x
Ky.	1960	-	-	-	-	-
La.	1958	-	-	-	-	-
Me.	1930	x 400	x	x (h)	x	x
Md.	1948 (i)	-	x	x	x	x
Mass.	1948	-	x (j)	-	x	x
Mich.	1926 (k)	x 5,094	-	-	-	-
Minn.	1969	-	-	-	-	-
Miss.	1959	-	-	-	-	-
Mo.	1939	x 812	-	x	-	-
Mont.	1958	-	-	-	-	-
Nebr.	1932	x 460 (l)	x (m)	-	-	x
Nev.	*	*	*	*	*	*
N. H.	1943	-	x	x	-	x
N. J.	1969 (n)	-	-	-	-	-
N. M.	1937	-	x	x	-	x
N. Y.	1918-48	x 25,000	x	x (o)	x	x
N. C.	1940	-	x	x	x	x
N. D.	1942	x 1,500	x	x	-	-
Ohio	1941	(p)	x	-	x	x
Okla.	*	*	*	*	*	*
Ore.	1950	-	x	-	-	-
Pa.	1951	-	x	x	x	x
R. I.	1936	(q)	-	-	-	-
S. C.	1965	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	1955	-	-	-	-	-
Tex.	1957	-	-	-	-	-
Utah	1953	x 2,230	x	x	x	-
Vt.	1953	-	x (r)	-	-	-
Va.	1923	-	x (s)	-	-	-
Wash.	1965	-	-	-	-	-
W. Va.	1954	x 1,500 (t)	-	-	-	-
Wisc.	1953	-	-	-	-	-
Wyo.	1952	-	-	-	-	-
P. R.	*	x	-	x	-	-
V. I.	1960	-	x	-	x	x



TABLE 2-15. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES  
(Continued)

	Construction Should Begin by FY:	Estimated Cost	Estimated Gross Sq. Ft.	Estimated Net Sq. Ft.	Lab to be a Separate Building	Planned Building to Replace Present Lab
Ala.	*	1,500,000	30,000	*	-	- (u)
Alaska	-	-	-	-	-	x (v)
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	-	-	-	-	-	-
Colo.	-	-	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	*	1,100,000	20,000	17,500	x	x
Ga.	-	-	-	-	-	-
Hawaii	1970-71	648,000 (w)	1,600	1,600	-	-
Ida.	1970	50,000	1,024	1,024	-	x
Ill.	1969	5,750,000	170,000	100,000	x	x
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	1973	*	*	*	-	x
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	1968	1,200,000	40,000	35,000	-	x
Md.	1970	8,794,000	150,000	75,000	x	x
Mass.	1970	12,025,199	193,000	155,000	x	x
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	1970-71	1,010,000	25,460	24,240	(x)	x
Nev.	*	*	*	*	*	*
N. H.	1970	2,540,000	*	*	x	x
N. J.	-	-	-	-	-	-
N. M.	1970-71	3,600,000	60,000	31,644	x	x
N. Y.	1969	37,000,000	475,000	275,000	- (y)	x
N. C.	*	3,800,000	120,000	35,000	-	x
N. D.	*	*	3,000	3,000	x	- (u)
Ohio	1970	3,800,000	81,000	55,000	x	x
Okla.	*	*	*	*	*	*
Ore.	1975	*	*	*	x	x
Pa.	1972	3,700,000	120,000	78,000	x	x
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	1972	1,600,000	29,000	22,000	x	x
Vt.	*	1,000,000	(z)	(z)	(z)	x
Va.	-	5,000,000	90,000	16,200 (aa)	x	x
Wash.	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
P. R.	-	*	*	*	x	x
V. I.	*	*	2,100	2,100	-	x

FOOTNOTES. TABLE 2-15.

- (a) Juneau (Southeastern Regional Laboratory), 1937; Anchorage (Southcentral Regional Laboratory), 1961; Fairbanks (Northern Regional Laboratory), 1965.
- (b) Requested in Capital Improvement Plan (Juneau).
- (c) Laboratory moved into new facilities January 1, 1969. The laboratory is in a separate building which is joined by the laboratory offices to the main health building. The new quarters cost \$1.9 million and provide 20,000 net square feet of space, which includes offices, laboratories, and basement storage. These new quarters replaced old buildings.
- (d) Central Laboratory at Jacksonville. Regional Laboratories completed as follows: Miami, 1958; Orlando, 1957; Pensacola, 1965; Tallahassee, 1950; Tampa, 1966; West Palm Beach, 1953. Planning anticipated for Miami Regional Laboratory if funds made available.
- (e) Plans for remodeling. Acquisition of assembly room to be converted to laboratory and remodeling of other areas. This will expand present central facilities.
- (f) One regional laboratory increased in size approximately 450 square feet.
- (g) Planning for one regional laboratory to be associated with overall Health Complex (Coeur d'Alene, Ida.).
- (h) Virology laboratory to be completed in basement of new building occupied in 1969.
- (i) Building completed 1880 - occupied by Laboratory 1948.
- (j) Building to replace present Diagnostic Laboratories building, but will be connected by passage to present Biologics Laboratories building.
- (k) Twenty-nine buildings phased in from 1926 to date.
- (l) Separate office space of 460 square feet allowed an increase of 870 square feet of laboratory space.
- (m) Same as last year, "yes, maybe." Funds have been recommended by Governor and Budget committee, but final legislative action may take until August for possible approval.
- (n) Alteration to air-handling systems underway; should allow full occupancy of new facility by Summer 1969.
- (o) Laboratory animal quarters - in discussion stage only.
- (p) Change in location, but no gain in space.
- (q) Space decreased due to Washroom space lost in centralization.
- (r) Planning since 1964; planning not anticipated in FY 70 due to lack of funds.
- (s) New building under construction - scheduled for completion July 1970.
- (t) Animal quarters added to structure.
- (u) Addition to present laboratory.
- (v) At Juneau only.
- (w) Designing - \$60,000. Construction - \$588,000.
- (x) This will be a joint Health and Agriculture facility.
- (y) Separate area beneath a tower office building.
- (z) Not determined precisely.
- (aa) For Health Department Laboratory.

**SECTION III**

**PERSONNEL**

TABLE 3-1. LABORATORY STAFFING

	Total Budgeted Positions	Professional and Technical Positions (a)	Support Services Positions (b)	Administrative and Clerical Positions	Maintenance Positions (c)
Ala. (d)	179	100	52	26	1
Alaska (d)	23	12	5	6	-
Ariz. (d)	42	26	6	9	1
Ark.	44	26	10	8	-
Cal. (d)	249	133 53%	45	71	-
Colo.	39	22	12	5	-
Conn.	*	*	*	*	*
Del.	20	12	4	4	-
D. C.	*	*	*	*	*
Fla. (d)	180	105	33	42	-
Georgia (d)	137	73	34	29	1
Hawaii (d)	34	20	8	6	-
Ida. (d)	35	24	2	6	3 (e)
Ill. (d)	265	149	50	65	1
Ind.	71 (F)	43	12	16	-
Ia. (d)	79	49 62%	13	17	-
Kans.	63	39	11	12	1
Ky. (d)	71	41	17	12	1
La. (d)	161	78	34	49	-
Me.	18	11	3	4	-
Md. (d)	251	169	43	35	4
Mass.	198	79	65	39	15
Mich. (d)	373	197	97	49	30
Minn.	76	46	15	15	-
Miss. (d)	40	22	11	7	-
Mo.	45	28	8	9	-
Mont.	18	8	5	5	-
Nebr. (d)	27	19	3	5	-
Nev.	*	*	*	*	*
N. H.	20	13	3	4	-
N. J. (d)	144	95	32	17	-
N. M. (d)	38	19	9	10	-
N. Y.	642	377	140	105	20
N. C. (d)	110	73	18	19	-
N. D. (d)	24	14	4	6	-
Ohio (d)	99	59	20	17	3
Okla.	*	*	*	*	*
Ore.	41	30	3	8	-
Pa. (d)	103	64	10	21	8
R. I.	43	28	8	7	-
S. C. (d)	70	40	13	17	-
S. D.	*	*	*	*	*
Tenn. (d)	121	71	25	23	2
Tex.	111	74	20	17	-
Utah	44	28	7	9	-
Vt.	24	15	4	5	-
Va. (d)	77	45	15	17	-
Wash.	47	23	9	14	1
W. Va.	41	29	-	8	4
Wisc.	173	117	24	32	-
Wyo.	7	3	2	2	-
P. R.	92	53	22	15	2
V. I.	9	6	1	2	-

TABLE 3-2. PERSONNEL DISTRIBUTION

	PERCENT OF TOTAL			
	Professional and Technical Positions	Support Services Positions	Administrative and Clerical Positions	Maintenance Positions
Ala.	55.9	29.1	14.5	0.5
Alaska	52.2	21.7	26.1	-
Ariz.	61.9	14.3	21.4	2.4
Ark.	59.1	22.7	18.2	-
Cal.	53.4	18.1	28.5	-
Colo.	56.4	30.8	12.8	-
Conn.	*	*	*	*
Del.	60.0	20.0	20.0	-
D. C.	*	*	*	*
Fla.	58.4	18.3	23.3	-
Ga.	53.3	24.8	21.2	0.7
Hawaii	58.8	23.5	17.7	-
Ida.	68.6	5.7	17.1	8.6
Ill.	56.2	18.9	24.5	0.4
Ind.	60.6	16.9	22.5	-
Ia.	62.0	16.5	21.5	-
Kans.	61.9	17.5	19.0	1.6
Ky.	57.7	24.0	16.9	1.4
La.	48.5	21.1	30.4	-
Me.	61.1	16.7	22.2	-
Md.	67.3	17.1	14.0	1.6
Mass.	39.9	32.8	19.7	7.6
Mich.	52.8	26.0	13.1	8.1
Minn.	60.6	19.7	19.7	-
Miss.	55.0	27.5	17.5	-
Mo.	62.2	17.8	20.0	-
Mont.	44.4	27.8	27.8	-
Nebr.	70.4	11.1	18.5	-
Nev.	*	*	*	*
N. H.	65.0	15.0	20.0	-
N. J.	66.0	22.2	11.8	-
N. M.	50.0	23.7	26.3	-
N. Y.	58.7	21.8	16.4	3.1
N. C.	66.4	16.3	17.3	-
N. D.	58.3	16.7	25.0	-
Ohio	59.6	20.2	17.2	3.0
Okla.	*	*	*	*
Ore.	73.2	7.3	19.5	-
Pa.	62.1	9.7	20.4	7.8
R. I.	65.1	18.6	16.3	-
S. C.	57.1	18.6	24.3	-
S. D.	*	*	*	*
Tenn.	58.7	20.7	19.0	1.6
Tex.	66.7	18.0	15.3	-
Utah	63.6	15.9	20.5	-
Vt.	62.5	16.7	20.8	-
Va.	58.4	19.5	22.1	-
Wash.	48.9	19.2	29.8	2.1
W. Va.	70.7	-	19.5	9.8
Wisc.	67.6	13.9	18.5	-
Wyo.	42.8	28.6	28.6	-
P. R.	57.6	23.9	16.3	2.2
V. I.	66.7	11.1	22.2	-

TABLE 3-3. EMPLOYMENT AND TURNOVER IN ALL POSITIONS

	Positions Budgeted	Positions Filled	Turnover		Employees Hired	Percent Turnover (g)
			Resignations	Separations		
Ala.	179	174	27	-	22	15.1
Alaska	23	21	2	-	3	8.7
Ariz.	42	44	5	-	9	11.9
Ark.	44	44	14	6	24	45.5
Cal.	249	234	*	*	*	*
Colo.	39	39	8	-	8	20.5
Conn.	*	*	*	*	*	*
Del.	20	20	7	3	10	50.0
D. C.	*	*	*	*	*	*
Fla.	180	172	29	4	40	18.3
Ga.	137	134	21	2	27	16.8
Hawaii	34	33	10	-	9	29.4
Ida.	35	34	1	-	-	2.9
Ill.	265	215	28	-	61	10.6
Ind.	71	71	4	1	7	7.0
Ia.	79	76	7	1	6	10.1
Kans.	63	60	19	-	22 (h)	30.2
Ky.	71	69	7	3	8	14.1
La.	161	147	24	-	26	14.9
Me.	18	18	2	-	2	11.1
Md.	251	237	71	-	79	28.3
Mass.	198	190	60	2	65	31.3
Mich.	373	*	43	11	53	14.5
Minn.	76	76	20	-	20	26.3
Miss.	40	40	-	1	1	2.5
Mo.	45	43	6	2	8	17.8
Mont.	18	17	3	-	3	16.7
Nebr.	27	23	7	2	7	33.3
Nev.	*	*	*	*	*	*
N. H.	20	20	1	-	1	5.0
N. J.	144	130	31	-	21	21.5
N. M.	38	37	12	-	15	31.6
N. Y.	642	572	97	9	127	16.5
N. C.	110	104	19	1	38	18.2
N. D.	24	24	8	-	8	33.3
Ohio	99	92	32	1	25	33.3
Okla.	*	*	*	*	*	*
Ore.	41	*	*	*	*	*
Pa.	103	90	22	-	30	21.4
R. I.	43	41	5	2	7	16.3
S. C.	70	67	16	-	16	22.9
S. D.	*	*	*	*	*	*
Tenn.	121	115	14	-	8	11.6
Tex.	111	108	20	2	24	19.8
Utah	44	43	7	3	10	22.7
Vt.	24	24	4	-	4	16.7
Va.	77	72	11	1	10	15.6
Wash.	47	46	1 (i)	2	7	6.4
W. Va.	41	39	7	1	6	19.5
Wisc.	173	168	17	-	21	9.8
Wyo.	7	7	-	-	1	-
P. R.	92	76	4	1	4	5.4
V. I.	9	9	-	-	-	-

TABLE 3-4. EMPLOYMENT AND TURNOVER IN PROFESSIONAL AND TECHNICAL POSITIONS

	Professional and Technical Positions Budgeted	Positions Filled	Turnover		Employees Hired	Percent Turnover (g)
			Resignations	Separations		
Ala.	100	95	20	-	15	20.0
Alaska	12	10	1	-	2	8.3
Ariz.	26	27	4	-	6	15.4
Ark.	26	26	6	-	9	23.1
Cal.	133	130	*	*	*	*
Colo.	22	22	1	-	1	4.5
Conn.	*	*	*	*	*	*
Del.	12	12	5	3	8	66.7
D. C.	*	*	*	*	*	*
Fla.	105	101	21	2	29	21.9
Ga.	73	71	13	1	18	19.2
Hawaii	20	19	5	-	4	25.0
Ida.	24	24	-	-	-	-
Ill.	149	114	*	-	*	*
Ind.	43	43	3	-	5	7.0
Ia.	49	47	6	-	4	12.2
Kans.	39	37	9	-	11	23.1
Ky.	41	39	4	3	5	17.1
La.	78	71	9	-	9	11.5
Me.	11	11	1	-	1	9.1
Md.	169	158	45	-	46	26.6
Mass.	79	77	25	-	27	31.6
Mich.	197	*	22	4	25	13.2
Minn.	46	46	8	-	8	17.4
Miss.	22	22	-	-	-	-
Mo.	28	26	5	2	7	25.0
Mont.	8	7	1	-	1	12.5
Nebr.	19	15	4	2	4	31.6
Nev.	*	*	*	*	*	*
N. H.	13	13	1	-	1	7.7
N. J.	95	81	17	-	12	17.9
N. M.	19	19	5	-	7	26.3
N. Y.	377	325	52	7	78	15.6
N. C.	73	69	15	-	30	20.1
N. D.	14	14	6	-	6	42.9
Ohio	59	56	15	1	10	27.1
Okla.	*	*	*	*	*	*
Ore.	30	*	*	*	*	*
Pa.	64	57	13	-	20	20.3
R. I.	28	27	1	2	5	10.7
S. C.	40	40	10	-	10	25.0
S. D.	*	*	*	*	*	*
Tenn.	71	65	10	-	4	14.1
Tex.	74	72	12	1	14	17.6
Utah	28	27	2	-	2	7.1
Vt.	15	15	2	-	2	13.3
Va.	45	43	9	-	8	20.0
Wash.	23	23	-	-	3	-
W. Va.	29	28	6	1	6	24.1
Wisc.	117	114	7	-	10	6.0
Wyo.	3	3	-	-	1	-
P. R.	53	42	3	1	-	7.5
V. I.	6	6	-	-	-	-

SECTION III. FOOTNOTES

- (a) Includes Laboratory Assistants and Laboratory Helpers who contribute directly to the performance of laboratory tests.
- (b) Includes personnel assigned to cleaning and sterilizing glassware, taking care of animals, and janitorial and messenger duties.
- (c) Includes those who perform installation, repair, and preventive maintenance on equipment.
- (d) Includes Branch Laboratory personnel.
- (e) Building maintenance and grounds.
- (f) In addition, Indiana had four temporary summer employees (3 technical and 1 supportive services).
- (g) Based on budgeted positions.
- (h) In addition, two employees hired for the summer in the Environmental Health Laboratory.
- (i) Educational leave.



SECTION IV

TRAINING ACTIVITIES AND STAFF DEVELOPMENT

TABLE 4-1. FORMAL COURSES AND WORKSHOPS SPONSORED OR CONDUCTED BY STATE LABORATORY FOR OTHER THAN STATE LABORATORY PERSONNEL

	Total No. of Courses	Diagnostic Microbiology, Clinical Chemistry		Sanitary Bacteriology and Chemistry		Laboratory Techniques and Procedures	
		No. of Students	Student- days Training	No. of Students	Student- days Training	No. of Students	Student- days Training
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	1	-	-	-	-	20	100
Ark.	4 (a)	21	*	2	*	-	-
Cal.	17	430	1,549 (b)	-	-	319	799
Colo.	9	34	126	-	-	104	128
Conn.	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	6	60	60	1	5	17	85
Ga.	4	10	37	-	-	39	126
Hawaii	1	-	-	25	125	-	-
Ida.	3	35	143	17	85	-	-
Ill.	5	12	12	320	1,130	-	-
Ind.	2	-	-	189	189	-	-
Ia.	4	11	23	-	-	11	23
Kans.	2	-	-	180	480	-	-
Ky.	1	-	-	-	-	8	48
La.	3	94	346	-	-	36	144
Me.	-	-	-	-	-	-	-
Md.	3	79	218	-	-	89	178
Mass.	-	-	-	-	-	-	-
Mich.	2	22	174	-	-	-	-
Minn.	5	7	435	-	-	1	2
Miss.	2	8	35	-	-	-	-
Mo.	1	-	-	-	-	6	18
Mont.	2	27	108	-	-	-	-
Nebr.	1	25	138	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	5	53	53	-	-	14	70
N. M.	-	-	-	-	-	-	-
N. Y.	31	36	2,742	-	-	1	1
N. C.	1	8	160	-	-	-	-
N. D.	1	10	20	-	-	-	-
Ohio	3	-	-	4	6	4	8
Okla.	*	*	*	*	*	*	*
Ore.	2	36	140	-	-	-	-
Pa.	9	16	80	-	-	167	98
R. I.	* (c)	-	-	-	-	16	32
S. C.	2	16	144	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-
Tex.	4	4	44	3	15	-	-
Utah	1	-	-	-	-	16	80
Vt.	2	14	14	-	-	19	76
Va.	-	-	-	-	-	-	-
Wash.	6	34	58	-	-	41	508
W. Va.	6	48	354	35	35	23	28
Wisc.	12	294	2,029	-	-	16	48
Wyo.	-	-	-	-	-	-	-
P. R.	3	3	15	2	20	-	-
V. I.	1	-	-	-	-	2	6

TABLE 4-2. BENCH TRAINING PROVIDED BY STATE LABORATORY FOR OTHER THAN STATE LABORATORY PERSONNEL

	Total No. of Courses	Diagnostic Microbiology, Clinical Chemistry		Sanitary Bacteriology and Chemistry		Laboratory Techniques and Procedures	
		No. of Students	Student- days Training	No. of Students	Student- days Training	No. of Students	Student- days Training
Ala.	-	-	-	-	-	-	-
Alaska	1	-	-	-	-	1	7
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	40	120	1,046	60	405	52	248
Colo.	3	-	-	4	12	27	150
Conn.	*	*	*	*	*	*	*
Del.	1	2	7	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	1	-	-	50	250	-	-
Ga.	4	4	26	-	-	2	4
Hawaii	5	8	220	-	-	4	13
Ida.	*	*	*	*	*	*	*
Ill.	10	10	33	66	61	31	2,911
Ind.	6	27	81	18	54	8	16
Ia.	3	22	66	40	120	25	50
Kans.	7	3	2	58	74	5	4
Ky.	1	9	81	-	-	-	-
La.	3	18	120	-	-	-	-
Me.	-	-	-	-	-	-	-
Md.	7	24	171	-	-	-	-
Mass.	1	2	60	-	-	-	-
Mich.	2	1,190	582	-	-	-	-
Minn.	1 (d)	4	432	-	-	-	-
Miss.	1	18	90	-	-	-	-
Mo.	3	59	148	12	24	-	-
Mont.	1	1	4	-	-	-	-
Nebr.	1	4	8	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	1	4	20	-	-	-	-
N. J.	10	37	93	1	5	5	50
N. M.	-	-	-	-	-	-	-
N. Y.	26	81	226	-	-	1,143	1,181
N. C.	1	-	-	-	-	9	45
N. D.	4	9	230	-	-	1	1
Ohio	2	20	100	-	-	7	11
Okla.	*	*	*	*	*	*	*
Ore.	4	14	227	-	-	2	6
Pa.	12	-	-	-	-	347	817
R. I.	2	48	188	-	-	-	-
S. C.	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	4	16	200	5	17	-	-
Tex.	18	219	876	-	-	-	-
Utah	5	36	526	-	-	-	-
Vt.	5	12	15	7	4	14	14
Va.	-	-	-	-	-	-	-
Wash.	16	9	52	-	-	14	20
W. Va.	4	1	10	7	32	1	3
Wisc.	18	148	6,873	6	3	38	456
Wyo.	-	-	-	-	-	-	-
P. R.	5	*	*	-	-	*	*
V. I.	1	-	-	-	-	1	1

TABLE 4-3. TRAINING OF STATE PROFESSIONAL AND TECHNICAL STAFF IN FORMAL COURSES AND SEMINARS

	Number of Professional and Technical Employees (e)	Number Attending a Formal Course or Seminar	Total Man-Days of Attendance	Average Man-Days of Attendance per Employee
Ala.	95	12	83	0.87
Alaska	10	2	3	0.30
Ariz.	27	15	101	3.74
Ark.	26	12	108	4.15
Cal.	130	1,541	4,562	152.07
Colo.	22	5	50	2.27
Conn.	*	*	*	*
Del.	12	1	3	0.25
D. C.	*	*	*	*
Fla.	101	10	40	0.40
Ga.	71	190	524	7.38
Hawaii	19	4	17	0.89
Ida.	24	7	31	1.29
Ill.	114	28 (f)	124	1.09
Ind.	43	-	-	-
Ia.	47	25	187	3.98
Kans.	37	3	32	0.86
Ky.	39	4	5	0.13
La.	71	20	143	2.01
Me.	11	6	35	3.18
Md.	158	21	27	0.17
Mass.	77	2	11	0.14
Mich.	197	10	97	0.49
Minn.	46	-	-	-
Miss.	22	4	25	1.14
Mo.	26	5	30	1.15
Mont.	7	5	26	3.71
Nebr.	15	6	31	2.07
Nev.	*	*	*	*
N. H.	13	-	-	-
N. J.	81	17	92	1.14
N. M.	19	4	12	0.63
N. Y.	325	10	49	0.15
N. C.	69	30	196	2.84
N. D.	14	1	5	0.36
Ohio	56	12	65	1.16
Okla.	*	*	*	*
Ore.	*	5	28	*
Pa.	57	-	-	-
R. I.	27	-	-	-
S. C.	40	13	159	3.98
S. D.	*	*	*	*
Tenn.	65	4	32	0.49
Tex.	72	2	7	0.10
Utah	27	3	44	1.63
Vt.	15	6 (f)	24	1.60
Va.	43	10	91	2.12
Wash.	23	47	86	3.74
W. Va.	28	6	27	0.96
Wisc.	114	23	82	0.72
Wyo.	3	2	20	6.67
P. R.	42	6	*	*
V. I.	6	1	5	0.83

TABLE 4-3. TRAINING OF STATE PROFESSIONAL AND TECHNICAL STAFF IN  
FORMAL COURSES AND SEMINARS  
(Continued)

	Total Man-Days of Training by Subject:					
	Bacteriology	Parasitology	Mycology	Virology	Clin. Chem.	Administration
Ala.	30	-	-	9	3	-
Alaska	-	-	-	-	-	-
Ariz.	50	-	-	-	-	21
Ark.	45	20	-	10	-	-
Cal.	2,088	610	-	11	27	587
Colo.	20	-	-	20	10	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	-	-	-	-	3	5
Ga.	216	47	25	17	-	111
Hawaii	-	-	-	-	-	-
Ida.	25	-	-	6	-	-
Ill.	6	4	3	-	-	-
Ind.	-	-	-	-	-	-
Ia.	15	26	-	33	8	9
Kans.	7	-	15	-	-	-
Ky.	-	-	-	-	-	-
La.	79	-	-	33	21	-
Me.	10	5	-	-	10	-
Md.	-	-	-	2	1	-
Mass.	-	-	-	6	-	5
Mich.	30	-	10	27	10	10
Minn.	-	-	-	-	-	-
Miss.	10	10	-	5	-	-
Mo.	-	-	-	10	-	-
Mont.	4	5	6	7	-	4
Nebr.	5	-	16	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	60	-	-	28	-	-
N. M.	-	-	-	-	-	-
N. Y.	18	-	-	-	8	23
N. C.	27	35	-	100	7	18
N. D.	-	5	-	-	-	-
Ohio	18	5	-	6	-	-
Okla.	*	*	*	*	*	*
Ore.	3	5	-	-	14	5
Pa.	-	-	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	10	5	-	25	5	12
S. D.	*	*	*	*	*	*
Tenn.	14	-	-	8	-	-
Tex.	4	-	-	-	3	-
Utah	-	-	-	-	-	9
Vt.	10	-	-	9	-	-
Va.	65	-	10	-	10	-
Wash.	43	-	3	2	4	13
W. Va.	-	5	-	17	-	-
Wisc.	21	-	10	-	23	10
Wyo.	-	-	-	-	-	-
P. R.	*	-	-	-	-	*
V. I.	5	-	-	-	-	-

TABLE 4-3. TRAINING OF STATE PROFESSIONAL AND TECHNICAL STAFF IN  
FORMAL COURSES AND SEMINARS  
(Continued)

	<u>Total Man-Days of Training by Subject:</u>						
	Serology	San. Bact. and San. Chem.	Environ. and other Chem.	Techniques and Procedures, Qual. Control	Scienc. Serv., Animal Care	Instrumental Analysis, Automation	All Others
Ala.	28	-	-	8	5	-	-
Alaska	-	-	-	3	-	-	-
Ariz.	7	5	18	-	-	-	-
Ark.	20	13	-	-	-	-	-
Cal.	788	-	6	20	-	63	362
Colo.	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*
Del.	-	3	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	2	-	18	-	-	4	8
Ga.	7	-	-	-	-	-	101
Hawaii	-	-	-	-	-	-	17
Ida.	-	-	-	-	-	-	-
Ill.	-	21	-	-	-	6	84
Ind.	-	-	-	-	-	-	-
Ia.	-	-	23	12	5	11	45
Kans.	-	-	10	-	-	-	-
Ky.	2	2	1	-	-	-	-
La.	-	-	-	-	-	-	10
Me.	10	-	-	-	-	-	-
Md.	-	-	16	-	-	-	8
Mass.	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	15
Minn.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	5	15	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	10	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	4	-	-	-	-	-	-
N. M.	-	12	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-
N. C.	-	-	9	-	-	-	-
N. D.	-	-	-	-	-	-	-
Ohio	16	20	-	-	-	-	-
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	1
R. I.	-	-	-	-	-	-	-
S. C.	13	-	84	-	5	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	10	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	35	-	-	-	-
Vt.	5	-	-	-	-	-	-
Va.	6	-	-	-	-	-	-
Wash.	-	8	5	5	-	-	3
W. Va.	1	4	-	-	-	-	-
Wisc.	1	-	17	-	-	-	-
Wyo.	20	-	-	-	-	-	-
P. R.	*	*	*	*	*	*	*
V. I.	-	-	-	-	-	-	-

TABLE 4-4. BENCH TRAINING RECEIVED BY STATE PROFESSIONAL AND TECHNICAL STAFF

	Number of Professional and Technical Employees	Number Receiving Bench Training	Total Man-days of Training	Average Man-days of Training per Employee
Ala.	95	-	-	-
Alaska	10	-	-	-
Ariz.	27	1	18	0.67
Ark.	26	-	-	-
Cal.	130	13	125	0.96
Colo.	22	2	35	1.59
Conn.	*	*	*	*
Del.	12	-	-	-
D. C.	*	*	*	*
Fla.	101	6	24	0.24
Ga.	71	14	50	0.70
Hawaii	19	6	10	0.53
Ida.	24	-	-	-
Ill.	114	7	50	0.44
Ind.	43	5	17	0.40
Ia.	47	1	6	0.13
Kans.	37	1	1	0.03
Ky.	39	6	10	0.26
La.	71	5	20	0.28
Me.	11	-	-	-
Md.	158	87	608	3.85
Mass.	77	6	24	0.31
Mich.	197	2	10	0.05
Minn.	46	5	46	1.00
Miss.	22	-	-	-
Mo.	26	-	-	-
Mont.	7	-	-	-
Nebr.	15	3	6	0.40
Nev.	*	*	*	*
N. H.	13	-	-	-
N. J.	81	7	37	0.46
N. M.	19	1	6	0.32
N. Y.	325	13	28	0.09
N. C.	69	1	30	0.43
N. D.	14	-	-	-
Ohio	56	1	2	0.04
Okla.	*	*	*	*
Ore.	*	-	-	-
Pa.	57	18	170	2.98
R. I.	27	3	15	0.56
S. C.	40	-	-	-
S. D.	*	*	*	*
Tenn.	65	2	14	0.22
Tex.	72	6	27	0.38
Utah	27	6	21	0.78
Vt.	15	-	-	-
Va.	43	-	-	-
Wash.	23	-	-	-
W. Va.	28	2	35	1.25
Wisc.	114	3	68	0.60
Wyo.	3	-	-	-
P. R.	42	-	-	-
V. I.	6	2	3	0.50

TABLE 4-4. BENCH TRAINING RECEIVED BY STATE PROFESSIONAL  
AND TECHNICAL STAFF  
(Continued)

	<u>Total Man-Days of Training by Subject:</u>					
	Bacteriology	Parasitology	Mycology	Virology	Clin. Chem.	Administration
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	18	-	-
Ark.	-	-	-	-	-	-
Cal.	-	20	-	3	-	4
Colo.	15	-	-	20	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	15	-	-	9	-	-
Ga.	15	-	2	-	25	-
Hawaii	3	-	-	7	-	-
Ida.	-	-	-	-	-	-
Ill.	-	34	3	-	-	4
Ind.	-	-	-	-	-	-
Ia.	-	6	-	-	-	-
Kans.	1	-	-	-	-	-
Ky.	4	-	-	-	1	-
La.	4	-	-	12	4	-
Me.	-	-	-	-	-	-
Md.	101	-	-	20	31	1
Mass.	24	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	28	12	6	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	4	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	1	-	-	32	-	-
N. M.	-	-	-	6	-	-
N. Y.	8	-	5	-	15	-
N. C.	-	-	-	30	-	-
N. D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	50	-	-	60	60	-
R. I.	-	5	-	-	5	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	10	-	-	-	-	-
Tex.	3	-	-	-	4	-
Utah	-	-	-	15	3	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W. Va.	5	-	-	-	-	-
Wisc.	-	-	-	-	60	-
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	3	-	-	-	-	-



TABLE 4-4. BENCH TRAINING RECEIVED BY STATE PROFESSIONAL  
AND TECHNICAL STAFF  
(Continued)

	Serology	San. Chem. and San. Bact.	Environmental and other Chemistry	All Other
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	63	-	30	5
Colo.	-	-	-	-
Conn.	*	*	*	*
Del.	-	-	-	-
D. C.	*	*	*	*
Fla.	-	-	-	-
Ga.	5	-	-	3
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	9	-	-
Ind.	-	10	6	1
Ia.	-	-	-	-
Kans.	-	-	-	-
Ky.	2	-	3	-
La.	-	-	-	-
Me.	-	-	-	-
Md.	-	-	85	370
Mass.	-	-	-	-
Mich.	-	-	-	10
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	2	-	-
Nev.	*	*	*	*
N. H.	-	-	-	-
N. J.	4	-	-	-
N. M.	-	-	-	-
N. Y.	-	-	-	-
N. C.	-	-	-	-
N. D.	-	-	-	-
Ohio	-	2	-	-
Okla.	*	*	*	*
Ore.	-	-	-	-
Pa.	-	-	-	-
R. I.	5	-	-	-
S. C.	-	-	-	-
S. D.	*	*	*	*
Tenn.	4	-	-	-
Tex.	-	6	14	-
Utah	1	-	2	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W. Va.	-	-	-	30
Wisc.	-	-	5	3
Wyo.	-	-	-	-
P. R.	-	-	-	-
V. I.	-	-	-	-

TABLE 4-5. SOURCES AND AMOUNTS OF TRAINING FUNDS RECEIVED DURING FISCAL YEAR

	Total Amount of Training Funds	Sources of Training Funds
	\$	
Ala.	-	Regular budget.
Alaska	2,826	State budget and funds.
Ariz.	*	Training Prog. NCUH; NCDC; State funds; APHA Continuing Educ. Prog.
Ark.	-	-
Cal.	*	*
Colo.	3,606	State budget.
Conn.	*	*
Del.	-	-
D. C.	*	*
Fla.	-	-
Ga.	-	-
Hawaii	-	-
Ida.	5,020	Two NCDC-sponsored seminars-short-term training grants; another seminar supported by State Health Dept. and Ida. Food Technologists.
Ill.	-	-
Ind.	-	-
Ia.	2,660	NCDC
Kans.	-	None separated from regular budget.
Ky.	-	No specific funds were budgeted for training. Funds needed for training are used from general travel funds of the Lab Division.
La.	*	State.
Me.	-	-
Md.	1,130	State.
Mass.	-	-
Mich.	2,500	Half State, half Federal.
Minn.	1,080	State appropriations.
Miss.	-	Not budgeted separately - source is State and Federal.
Mo.	-	-
Mont.	-	Included in regular budget in the travel allotment.
Nebr.	4,216	Training grant (Mycology Course) and 314(d) funds (partly from budget).
Nev.	*	*
N. H.	-	-
N. J.	2,041	State funds.
N. M.	*	None specifically for training from State funds. U.S. PHS Chronic Disease Funds were available.
N. Y.	23,000	3,000-Heart, Cancer, and Stroke Funds for training and 20,000 made available by St. Hlth.Dept.'s office of Professional Ed. and Training.
N. C.	-	-
N. D.	-	-
Ohio	7,203	Fed. CHS (\$4,613 of this was available and not used because of restrictions on out-of-State travel.)
Okla.	*	*
Ore.	*	*
Pa.	-	No separate budget or special funds.
R. I.	2,320	\$750-State funds. 1,570 Federal grant for interstate course on Diagnosis of Malaria. (g)
S. C.	11,364	\$10,264-Budget travel allowance, which includes expenses while training; \$1,100-Training in Pesticide Analysis (PHS).
S. D.	*	*
Tenn.	-	-
Tex.	-	Included in other funds.
Utah	2,058	USPHS Grant - Mycoplasma Workshop.
Vt.	-	General travel funds used. No special training funds available.
Va.	-	-
Wash.	-	Part of total Lab budget-separate records not kept and no Federal training used this fiscal year.
W. Va.	-	None specifically listed as such. About 50% of Travel Budget utilized for training purposes.
Wisc.	77,300	Cytotechnology Training School and Graduate Training Prog. in Viro. and Rickettsiology from USPHS.
Wyo.	-	-
P. R.	-	-
V. I.	*	*

TABLE 4-6. ACADEMIC TRAINING OF STATE LABORATORY STAFFS DURING YEAR REPORTED

	Number of Staff Members Receiving Training	Number Receiving A Degree	Source of Financial Support		
			Personal	State	Federal
Ala.	-	-	-	-	-
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	7	1 (MPH)	6	1	-
Colo.	-	-	-	-	-
Conn.	*	*	*	*	*
Del.	-	-	-	-	-
D. C.	*	*	*	*	*
Fla.	-	-	-	-	-
Ga.	-	-	-	-	-
Hawaii	-	-	-	-	-
Ida.	1	1 (Dr. P.H.)	-	-	1
Ill.	1	-	-	1	-
Ind.	1	1 (M.S.)	1	-	-
Ia.	-	-	-	-	-
Kans.	-	-	-	-	-
Ky.	-	-	-	-	-
La.	1	-	-	1	-
Me.	-	-	-	-	-
Md.	-	-	-	-	-
Mass.	1	1 (M.S.)	1	-	-
Mich.	-	-	-	-	-
Minn.	-	-	-	-	-
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	3	3	3	-	-
Nev.	*	*	*	*	*
N. H.	1	1 (Dr. P.H.)	-	-	1
N. J.	1	1 (B.S.)	1	-	-
N. M.	6	1	-	6	-
N. Y.	91	-	-	91	-
N. C.	2	2 (M.A., M.P.H.)	2	-	-
N. D.	-	-	-	-	-
Ohio	1	1 (Dr. P.H.)	-	-	1
Okla.	*	*	*	*	*
Ore.	-	-	-	-	-
Pa.	-	-	-	-	-
R. I.	11 (h)	-	11 (h)	(h)	-
S. C.	2	-	1	-	1
S. D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	2	2 (Dr. P.H., MPH)	-	-	2
Utah	1	-	-	-	1
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	2	-	-	1	1
W. Va.	-	-	-	-	-
Wisc.	2	-	2	-	-
Wyo.	1	1 (Dr. P.H.)	-	-	1
P. R.	2	-	*	*	*
V. I.	-	-	-	-	-

TABLE 4-7. ACADEMIC APPOINTMENTS HELD BY STAFF AND ORAL PRESENTATIONS AT SCHEDULED MEETINGS

Current Academic Appointments Held by Staff:		Total No. of Oral Presentations
Ala.	-	25
Alaska	-	8
Ariz.	-	1
Ark.	-	*
Cal.	A. E. Greenberg, Contra Costa College, Richmond; Edwin H. Lennetti, Lecturer in Virology School of P.H., Univ. of Cal., Berkeley; and Richard Emmons, Visiting Lecturer, Univ. of Cal. Medical Center, San Francisco.	131
Colo.	David McGuire-Associate Clinical Professor of Medicine-Univ. of Colo.	24
Conn.	*	*
Del.	-	-
D. C.	*	*
Fla.	-	21
Ga.	-	-
Hawaii	Henri P. Minette, Univ. of Hawaii, School of Public Health.	9
Ida.	-	20
Ill.	-	21
Ind.	-	-
Ia.	Assoc. Prof., 2 Asst. Profs., 2 Instrs., 1 Prof. Emeritus, all at Univ. of Iowa.	38
Kans.	H. A. Stoltenberg, Asst. Prof. - Univ. of Kansas	11
Ky.	-	-
La.	Lucille Godelfer-Tulane Univ. Med. School and Loyola Univ. of the South. G. H. Hauser, Tulane and Loyola, Emeritus Prof. of Pathology and Epidemiology.	6
Me.	-	-
Md.	J. M. Joseph, Asst. Prof.-Univ. of Maryland Medical School.	14
Mass.	Dr. Geoffrey Edsall, Harvard School of PH; Morton Madoff, Harvard School of PH and Tufts Medical School; Kenneth Girard, Harvard School of PH and Simmons College; Harvey Levy, Harvard Medical School; Richard Gleckman, Tufts Medical School; Leo Levine, Harvard School of PH.	53
Mich.	Kenneth R. Wilcox, School of PH, Univ. of Mich.-Nonresident Lecturer, Dept. of Epidemiology.	60
Minn.	Henry Bauer, Lecturer-School of Public Health, Univ. of Minn.	5
Miss.	-	5
Mo.	E. R. Spurrier, Univ. of Mo.-Microbiology.	5
Mont.	David B. Lackman, Mont. St. Univ. and Univ. of Mont. (Visiting lecturer in Immunology and Virology.)	6
Nebr.	-	7
Nev.	*	*
N. H.	-	-
N. J.	Martin Goldfield, N. J. College of Medicine-Assoc. Prof. of Medicine and Visiting Prof. in Epidemiology.	30
N. M.	Daniel E. Johnson, Clinical Assoc. School of Medicine, Univ. of N. M.	16
N. Y.	Albany Medical College; M. A. Gordon, Rudolf Deibel, Raymond E. Vanderlinde, Wm. Kaufmann, James H. Kelly, James Pert, Sydney S. Katz, John K. Miller, Kent D. Miller, Donald S. Berns, Wm. Lawson, Kenneth Amiraian.	92
N. C.	Lynn G. Maddry-Univ. of N. Carolina.	10
N. D.	-	10
Ohio	-	16
Okla.	*	*
Ore.	Gatlin R. Brandon-Univ. of Oregon Medical School.	11
Pa.	James E. Prier, Temple Univ. School of Medicine.	4
R. I.	W. Hagan-Instructor, Microbiology-Memorial Hosp. School of Nursing.	10
S. C.	-	-
S. D.	*	*
Tenn.	-	4
Tex.	(not permitted by State Constitution)	8
Utah	R. S. Fraser and C. H. Blank-Univ. of Utah	31
Vt.	-	3
Va.	-	-
Wash.	W. R. Giedt and J. M. DiCaprio-Univ. of Wash.	8
W. Va.	-	3
Wisc.	Univ. of Wisc.: Specialist (2); Prof. (1); Assoc. Prof. (1); Asst. Prof. (4); Clinical Instructor (4).	80
Wyo.	-	-
P. R.	-	-
V. I.	-	4

FOOTNOTES. SECTION IV

- (a) In addition, 18 one-day visits were made to health departments and clinics to train in the use of kits for detection of INH levels in urine, and 19 on-site inspections and consultations for pre-marital syphilis serology.
- (b) Of this total, 940 days represent 3 public health laboratory research training fellowships (2-year post-doctoral fellowships).
- (c) Various techniques in disciplines of Diagnostic Chemistry, Bacteriology, and Serology.
- (d) Public Health Bacteriology 103, School of Public Health, Univ. of Minnesota.
- (e) Figures represent filled positions, except for Michigan for which budgeted positions figure is used.
- (f) Study of the NCDC correspondence course in Parasitology was reported as follows: Vermont, 3 employees; Illinois, 2 employees. These figures are not included in the Table.
- (g) Additionally, 4 persons were permitted to participate in 8 academic courses at college level without loss of time or salary with tuition paid at least in part by the State.
- (h) The following semester courses were taken by staff members: Clinical Chemistry, 2 persons; Administration, 1 person; Biology, 1 person; Food Analysis, 3 persons; Serology, 1 person; English, 3 persons. Part of tuition paid by State.

SECTION V

FINANCES

TABLE 5-1. LABORATORY EXPENDITURES

	Estimated Population (a)	Laboratory Expenditures (b)	Laboratory Expenditures Per Capita	Health Department Expenditures	Lab Expenditures As % of Health Dept. Expenditures
			\$		
Ala.	3,540,000	\$ 1,075,510	0.304	\$ 6,924,000	15.5
Alaska	272,000	244,159	0.900	3,511,200	7.0
Ariz.	1,634,000	335,258	0.205	3,584,803	9.4
Ark.	1,968,000	246,311	0.125	4,246,045	5.8
Cal.	19,153,000	2,964,987	0.155	16,001,456	18.5
Colo.	1,975,000	382,900	0.194	11,087,213	3.5
Conn.	2,925,000	*	*	*	*
Del.	523,000	122,045	0.233	2,740,449	4.5
D. C.	809,000	*	*	*	*
Fla.	5,995,000	1,045,961	0.174	38,899,796	2.7
Ga.	4,509,000	1,061,973	0.236	19,503,378	5.4
Hawaii	739,000	337,429	0.457	17,695,273	1.9
Ida.	699,000	272,394	0.390	2,829,673	9.6
Ill.	10,893,000	1,958,055	0.180	18,497,500	10.6
Ind.	5,000,000	537,262 (c)	0.107	5,638,938	9.5
Ia.	2,753,000	881,033	0.320	*	*
Kans.	2,275,000	504,911	0.222	3,361,182	15.0
Ky.	3,189,000	514,210	0.161	6,708,266	7.7
La.	3,662,000	1,046,882	0.286	7,084,170	14.8
Me.	973,000	152,055	0.156	3,436,216	4.4
Md.	3,682,000	2,019,816	0.549	81,365,789	2.5
Mass.	5,421,000	1,775,956	0.328	44,458,264	4.0
Mich.	8,584,000	3,640,493	0.424	*	*
Minn.	3,582,000	525,721	0.147	4,665,832	11.3
Miss.	2,348,000	295,983	0.126	4,094,102	7.2
Mo.	4,603,000	302,582	0.066	5,532,715	5.5
Mont.	701,000	135,867	0.194	1,949,372	7.0
Nebr.	1,435,000	154,468	0.108	1,427,875	10.8
Nev.	444,000	*	*	*	*
N. H.	686,000	140,600	0.205	1,845,909	7.6
N. J.	7,003,000	1,526,908	0.218	21,894,296	7.0
N. M.	1,003,000	257,108	0.256	4,002,908	6.4
N. Y.	18,336,000	6,722,176	0.367	97,044,125	6.9
N. C.	5,029,000	914,044	0.182	12,744,697	7.2
N. D.	639,000	174,421	0.273	1,216,996	14.3
Ohio	10,458,000	824,404	0.079	8,627,647	9.6
Okla.	2,495,000	*	*	*	*
Ore.	1,999,000	343,370	0.172	4,219,339	8.1
Pa.	11,629,000	1,055,800	0.091	47,860,222	2.2
R. I.	900,000	426,000 (d)	0.473	7,222,000	5.9
S. C.	2,599,000	365,182	0.141	8,379,811	4.4
S. D.	674,000	*	*	*	*
Tenn.	3,892,000	967,344	0.249	9,432,712	10.3
Tex.	10,869,000	840,099	0.077	22,000,000	3.8
Utah	1,024,000	260,933	0.255	3,157,504	8.3
Vt.	417,000	*	*	*	*
Va.	4,536,000	498,260	0.110	*	*
Wash.	3,087,000	516,100	0.167	14,000,000	3.7
W. Va.	1,798,000	326,633	0.182	3,480,544	9.4
Wisc.	4,189,000	1,507,314	0.360	9,383,919	16.1
Wyo.	315,000	74,382	0.236	313,231	23.7
P. R.	2,697,000	332,500	0.123	*	*
V. I.	56,000	59,287	1.059	*	*

TABLE 5-2. LABORATORY EXPENDITURES BY MAJOR PURPOSE

	Total Expenditures	Expenditures For Salaries	% of Total Expenditures For Salaries	Expenditures For Supplies	% of Total Expenditures For Supplies
Ala.	1,075,510	819,600	76.2	107,850	10.0
Alaska	244,159	140,851	57.7	29,728	12.2
Ariz.	335,258	259,423	77.4	42,148	12.6
Ark.	246,311	173,147	70.3	-	-
Cal.	2,964,987	2,316,301	78.1	289,449	9.8
Colo.	382,900	249,089	65.1	109,442	28.6
Conn.	*	*	*	*	*
Del.	122,045	97,330	79.7	3,679	3.0
D. C.	*	*	*	*	*
Fla.	1,045,961	813,743	77.8	124,872	12.0
Ga.	1,061,973	795,872	74.9	126,884	11.9
Hawaii	337,429	274,213	81.3	34,954	10.4
Ida.	272,394	200,484	73.6	32,224	11.8
Ill.	1,958,055	1,463,331	74.7	143,422	7.3
Ind.	537,262 (c)	532,987	99.2 (c)	(c)	-
Ia.	881,033	487,108	55.3	148,153	16.8
Kans.	504,911	414,922	82.2	31,494	6.2
Ky.	514,210	374,578	72.8	91,856	17.9
La.	1,046,882	812,847	77.6	119,999	11.5
Me.	152,055	106,684	70.2	21,188	13.9
Md.	2,019,816	1,480,012	73.3	182,309	9.0
Mass.	1,775,956	1,388,051	78.1	321,650	18.1
Mich.	3,640,493	*	*	*	*
Minn.	525,721	428,070	81.4	63,846	12.1
Miss.	295,983	219,106	74.0	52,379	17.7
Mo.	302,582	228,065	75.4	41,584	13.7
Mont.	135,867	105,657	77.7	10,700	7.9
Nebr.	154,468	109,148	70.7	10,766	7.0
Nev.	*	*	*	*	*
N. H.	140,600	110,000	78.2	27,000	19.2
N. J.	1,526,908	912,424	59.7	225,710	14.8
N. M.	257,108	175,417	68.2	29,825	11.6
N. Y.	6,722,176	4,406,272	65.5	2,315,904 (e)	34.5
N. C.	914,044	592,824	64.9	196,731	21.5
N. D.	174,421	130,789	75.0	23,116	13.2
Ohio	824,404	454,417	55.1	59,152	7.2
Okla.	*	*	*	*	*
Ore.	343,370	247,240	72.0	46,107	13.4
Pa.	1,055,800	692,000	65.5	161,500	15.3
R. I.	426,000	315,000	74.0	53,000	12.4
S. C.	365,182	292,666	80.1	39,646	10.9
S. D.	*	*	*	*	*
Tenn.	967,344	776,431	80.3	87,996	9.1
Tex.	840,099	698,036	83.1	67,037	8.0
Utah	260,933	192,197	73.7	27,642	10.6
Vt.	*	*	*	*	*
Va.	498,260	*	*	*	*
Wash.	516,100	339,000	65.7	35,600	6.9
W. Va.	326,633	231,615	70.9	76,318	23.4
Wisc.	1,507,314	1,068,521	70.9	275,122	18.3
Wyo.	74,382	37,107	49.9	3,353	4.5
P. R.	332,500	270,200	81.3	19,700	5.9
V. I.	59,287	45,944	77.5	5,350	9.0



TABLE 5-2. LABORATORY EXPENDITURES BY MAJOR PURPOSE  
(Continued)

	Expenditures For Equipment	% of Total Expenditures For Equipment	Expenditures For Travel	% of Total Expenditures For Travel
Ala.	47,425	4.4	12,790	1.2
Alaska	2,081	0.8	307	0.1
Ariz.	11,761	3.5	1,995	0.6
Ark.	-	-	-	-
Cal.	57,339	1.9	50,932	1.7
Colo.	5,453	1.4	3,971	1.0
Conn.	*	*	*	*
Del.	1,442	1.2	-	-
D. C.	*	*	*	*
Fla.	6,488	0.6	15,802	1.5
Ga.	9,731	0.9	5,274	0.6
Hawaii	20,364	6.0	999	0.3
Ida.	2,539	1.0	2,921	1.1
Ill.	56,440	2.9	7,452	0.4
Ind.	(c)	-	4,275	0.8
Ia.	56,685	6.4	20,796	2.4
Kans.	3,527	0.7	6,368	1.3
Ky.	4,801	0.9	2,916	0.6
La.	29,942	2.8	11,112	1.1
Me.	6,695	4.4	2,111	1.4
Md.	58,767	2.9	6,450	0.3
Mass.	36,945	2.1	3,356	0.2
Mich.	*	*	*	*
Minn.	3,612	0.7	4,581	0.9
Miss.	4,697	1.6	1,944	0.7
Mo.	23,453	7.7	4,741	1.6
Mont.	2,300	1.7	1,600	1.2
Nebr.	22,050	14.3	2,370	1.5
Nev.	*	*	*	*
N. H.	3,100	2.2	500	0.4
N. J.	49,191	3.2	11,752	0.8
N. M.	20,384	7.9	2,256	0.9
N. Y.	(f)	(f)	(f)	(f)
N. C.	28,579	3.1	5,834	0.6
N. D.	2,602	1.5	2,465	1.4
Ohio	55,458	6.7	1,646	0.2
Okla.	*	*	*	*
Ore.	11,586	3.4	1,091	0.3
Pa.	35,400	3.4	9,000	0.9
R. I.	6,000	1.4	3,000	0.7
S. C.	9,660	2.6	10,265	2.8
S. D.	*	*	*	*
Tenn.	5,436	0.5	4,603	0.5
Tex.	18,938	2.2	5,088	0.6
Utah	15,465	5.9	556	0.2
Vt.	*	*	*	*
Va.	*	*	*	*
Wash.	13,000	2.5	8,500	1.6
W. Va.	11,200	3.4	2,500	0.8
Wisc.	25,775	1.7	3,378	0.2
Wyo.	30,091	40.4	707	1.0
P. R.	10,000	3.0	2,900	0.9
V. I.	2,500	4.2	700	1.2

TABLE 5-2. LABORATORY EXPENDITURES BY MAJOR PURPOSE  
(Continued)

	Expenditures for Personnel Benefits	% of Total Expenditures for Personnel Benefits	Other Expenditures	% of Total For Other Expenditures
	\$		\$	
Ala.	-	-	87,845	8.2
Alaska	17,040	7.0	54,152	22.2
Ariz.	-	-	19,931	5.9
Ark.	-	-	73,164	29.7
Cal.	234,275	7.9	16,691	0.6
Colo.	14,945	3.9	-	-
Conn.	*	*	*	*
Del.	-	-	19,594	16.1
D. C.	*	*	*	*
Fla.	-	-	85,056	8.1
Ga.	91,859	8.7	32,353	3.0
Hawaii	6,899	2.0	-	-
Ida.	21,315	7.8	12,911	4.7
Ill.	102,433	5.2	184,977	9.5
Ind.	(c)	-	-	-
Ia.	58,453	6.6	109,838	12.5
Kans.	-	-	48,600	9.6
Ky.	39,969	7.8	90	-
La.	-	-	72,982	7.0
Me.	8,535	5.6	6,842	4.5
Md.	-	-	292,278	14.5
Mass.	5,195	0.3	20,759	1.2
Mich.	*	*	*	*
Minn.	4,985	1.0	20,627	3.9
Miss.	17,857	6.0	-	-
Mo.	-	-	4,739	1.6
Mont.	9,510	7.0	6,100	4.5
Nebr.	5,790	3.7	4,344	2.8
Nev.	*	*	*	*
N. H.	-	-	-	-
N. J.	65,353	4.3	262,478	17.2
N. M.	15,985	6.2	13,241	5.2
N. Y.	-	-	-	-
N. C.	16,450	1.8	73,626	8.1
N. D.	1,350 (g)	0.8	14,099	8.1
Ohio	120,133	14.6	133,598	16.2
Okla.	*	*	*	*
Ore.	(h)	-	37,346	10.9
Pa.	5,900	0.5	152,000	14.4
R. I.	29,000	6.8	20,000	4.7
S. C.	-	-	12,945	3.6
S. D.	*	*	*	*
Tenn.	57,757	6.0	35,121	3.6
Tex.	-	-	51,000	6.1
Utah	17,439	6.7	7,634	2.9
Vt.	*	*	*	*
Va.	*	*	*	*
Wash.	35,600	6.9	84,400	16.4
W. Va.	-	-	5,000	1.5
Wisc.	-	-	134,518	8.9
Wyo.	2,692	3.6	432	0.6
P. R.	-	-	29,700	8.9
V. I.	3,943	6.7	850	1.4

TABLE 5-3. SOURCES OF LABORATORY FUNDS

	Expenditures	State Contribution	Percent Contributed by State	Federal and Other Contributions (1)	Percent Contributed by Federal and Other
Ala.	1,075,510	838,220	77.9	237,290	22.1
Alaska	244,159	179,527	73.5	64,632	26.5
Ariz.	335,258	291,573	87.0	43,685	13.0
Ark.	246,311	101,972	41.4	144,339	58.6
Cal.	2,964,987	2,362,784	79.7	602,203	20.3
Colo.	382,900	300,348	78.4	82,552	21.6
Conn.	*	*	*	*	*
Del.	122,045	78,661	64.5	43,384	35.5
D. C.	*	*	*	*	*
Fla.	1,045,961	908,876	86.9	137,085	13.1
Ga.	1,061,973	*	*	*	*
Hawaii	337,429	277,664	82.3	59,765	17.7
Ida.	272,394	141,283	51.9	131,111	48.1
Ill.	1,958,055	1,958,055	100.0	-	-
Ind.	537,262	466,972	86.9	70,290	13.1
Ia.	881,033	597,411	67.8	283,622	32.2
Kans.	504,911	355,099	70.3	149,812	29.7
Ky.	514,210	226,933	44.1	287,277	55.9
La.	1,046,882	956,017	91.3	90,861	8.7
Me.	152,055	120,931	79.5	31,124	20.5
Md.	2,019,816	1,969,060	97.5	50,756	2.5
Mass.	1,775,956	1,270,126	71.5	505,830	28.5
Mich.	3,640,493	3,215,993	88.3	424,500	11.7
Minn.	525,721	388,959	74.0	136,762	26.0
Miss.	295,983	207,584	70.1	88,399	29.9
Mo.	302,582	224,720	74.3	77,862	25.7
Mont.	135,867	71,437	52.6	64,430	47.4
Nebr.	154,468	73,566	47.6	80,902	52.3
Nev.	*	*	*	*	*
N. H.	140,600	95,000	67.6	45,600	32.4
N. J.	1,526,908	1,036,482	67.9	490,426	32.1
N. M.	257,108	257,108	100.0	-	-
N. Y.	6,722,176	5,578,190	83.0	1,143,986	17.0
N. C.	914,044	758,466	83.0	155,578	17.0
N. D.	174,421	85,441	49.0	88,980	51.0
Ohio	824,404	473,917	57.5	350,487	42.5
Okla.	*	*	*	*	*
Ore.	343,370	226,728	66.0	116,642	34.0
Pa.	1,055,800	881,850	83.5	173,950	16.5
R. I.	426,000	366,000	85.9	60,000	14.1
S. C.	365,182	213,365	58.4	151,817	41.6
S. D.	*	*	*	*	*
Tenn.	967,344	929,844	96.1	37,500	3.9
Tex.	840,099	282,771	33.7	557,328	66.3
Utah	260,933	194,863	74.7	66,070	25.3
Vt.	*	*	*	*	*
Va.	498,260	497,269	99.8	991	0.2
Wash.	516,100	386,100	74.8	130,000	25.2
W. Va.	326,633	230,116	70.5	96,517	29.5
Wisc.	1,507,314	1,053,157	69.9	454,157	30.1
Wyo.	74,382	24,063	32.4	50,319	67.6
P. R.	332,500	302,800	91.1	29,700	8.9
V. I.	59,287	59,287	100.0	-	-

TABLE 5-4. FEDERAL CONTRIBUTIONS TO LABORATORY FUNDS BY PRINCIPAL PURPOSE

	General or Comprehensive Health	Tuberculosis	Cancer	Heart	Chronic Diseases	Radiological Monitoring
Ala.	173,350	-	-	-	-	-
Alaska	45,400	-	-	-	-	-
Ariz.	43,685	-	-	-	-	-
Ark.	126,689	17,650	-	-	-	-
Cal.	-	-	-	-	-	-
Colo.	82,552	-	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	103,432	-	-	-	-	-
Ga.	*	*	*	*	*	*
Hawaii	59,765	-	-	-	-	-
Ida.	109,356	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	51,366	-	-	-	-	-
Ia.	-	8,800	-	-	40,840	23,440
Kans.	122,269	-	-	-	-	-
Ky.	249,075	-	-	-	-	-
La.	80,570	-	-	-	-	-
Me.	15,562	-	-	9,594	-	-
Md.	-	-	9,000	-	-	-
Mass.	13,137	-	-	45,108	18,966	-
Mich.	*	*	*	*	*	*
Minn.	69,853	31,368	-	-	-	-
Miss.	-	25,035	-	-	-	-
Mo.	77,862	-	-	-	-	-
Mont.	56,500	-	-	-	-	-
Nebr.	45,148	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	45,600	-	-	-	-	-
N. J.	177,124	17,958	-	-	-	-
N. M.	-	-	-	-	-	-
N. Y.	484,157	-	-	-	-	-
N. C.	155,578	-	-	-	-	-
N. D.	80,415	-	-	-	-	-
Ohio	212,097	-	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	78,723	-	-	-	-	-
Pa.	27,000	10,000	3,000	4,000	6,000	-
R. I.	-	-	16,000	10,000	9,000	-
S. C.	104,835	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	9,343	-	-	-	-	-
Tex.	557,328	-	-	-	-	-
Utah	54,135	-	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	-	-	-	991	-	-
Wash.	120,000	2,612	-	-	-	-
W. Va.	34,327	21,360	-	25,920	-	-
Wisc.	56,861	119,029 (j)	-	-	-	-
Wyo.	50,319	-	-	-	-	-
P. R.	*	*	*	*	*	*
V. I.	-	-	-	-	-	-

TABLE 5-4. FEDERAL CONTRIBUTIONS TO LABORATORY FUNDS BY PRINCIPAL PURPOSE  
(Continued)

	Water Pollution	Maternal and Child Health	Air Pollution	Other Federal Grants	Non-Federal Non-State Sources
Ala.	-	63,940	-	-	-
Alaska	-	-	-	11,432 (k)	7,800 (k)
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	-	-	-	602,203	-
Colo.	-	-	-	-	-
Conn.	*	*	*	*	*
Del.	-	9,897	-	33,487 (l)	-
D. C.	*	*	*	*	*
Fla.	-	19,919	-	13,734	-
Ga.	*	*	*	*	*
Hawaii	-	-	-	-	-
Ida.	-	1,022	-	-	20,733 (m)
Ill.	-	-	-	-	-
Ind.	16,920	-	-	-	2,004 (n)
Ia.	17,120	-	42,575	65,631	85,216 (o)
Kans.	21,128	-	-	6,415 (p)	-
Ky.	-	38,202	-	-	-
La.	-	-	-	-	55,940 (q)
Me.	-	5,968	-	-	-
Md.	-	-	41,756	-	-
Mass.	-	154,156	-	274,463 (r)	-
Mich.	-	-	-	-	-
Minn.	-	15,280	-	20,261	-
Miss.	-	-	-	63,364 (s)	-
Mo.	-	-	-	-	-
Mont.	-	7,930	-	-	-
Nebr.	36,754	-	-	-	-
Nev.	*	*	*	*	*
N. H.	-	-	-	-	-
N. J.	85,812	69,673	-	99,735 (t)	40,124 (u)
N. M.	-	-	-	-	-
N. Y.	128,457	117,397	36,892	-	377,083 (v)
N. C.	-	-	-	-	-
N. D.	4,657	3,108	-	800 (w)	-
Ohio	47,495	69,195	-	21,700 (x)	-
Okla.	*	*	*	*	*
Ore.	-	37,919	-	-	-
Pa.	-	86,000	-	37,950 (y)	-
R. I.	-	25,000	-	-	-
S. C.	-	20,043	-	26,939	-
S. D.	*	*	*	*	*
Tenn.	-	23,894	-	-	4,263
Tex.	-	-	-	-	-
Utah	11,935	-	-	-	-
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	-	-	-	-	7,388 (z)
W. Va.	-	14,910	-	-	-
Wisc.	37,706	25,000	-	-	215,561 (aa)
Wyo.	-	-	-	-	-
P. R.	*	*	*	*	*
V. I.	-	-	-	-	-

FOOTNOTES. SECTION V

- (a) Estimated population as of July 1, 1967. Information taken from: Statistical Abstract of the United States: 1968. U. S. Bureau of the Census. (89th Edition) Washington, D. C., 1968, p. 12 and 820.
- (b) Figures represent the latest complete fiscal year, July 1, 1967 - June 30, 1968, with these exceptions: Alabama, 10/1/67 - 9/30/68; California, 7/1/68 - 6/30/69; New York, 4/1/68 - 3/31/69; and Texas, 9/67 - 9/68.
- (c) Laboratory budget and expenditures include only salaries and travel. Other operating expenses are not broken down by Divisions.
- (d) These figures are to nearest thousand.
- (e) Includes Supplies, Equipment, and Travel.
- (f) Included with "Supplies".
- (g) Majority charged to central administration.
- (h) Included in salaries.
- (i) Obtained by deducting State contribution from total expenditures.
- (j) This includes also Cancer, Heart, Chronic Diseases, and Radiological.
- (k) ANHS Contract; and Local Government.
- (l) Public Health Service.
- (m) CC - MR.
- (n) Medical Care Administration.
- (o) Fees.
- (p) Office of Emergency Planning.
- (q) State - Polio, \$45,645; Community Study on Pesticide, \$10,295.
- (r) MHRI and Army.
- (s) Block Grant.
- (t) Rabies, \$22,651; EE, \$77,084.
- (u) State of Delaware, \$8,052; Delaware River Basin, \$7,540; Toxic Virus, \$24,532.
- (v) Crippled Children, \$12,839; Research Grants, \$364,244.
- (w) Indian Health.
- (x) Alcohol.
- (y) Medicare Certification.
- (z) Health Insurance Benefits.
- (aa) Laboratory Evaluation.

SECTION VI

FACILITIES

TABLE 6-1. SUMMARY OF NET SPACE ASSIGNMENTS

	Professional and Technical (Sq. Ft.)	Laboratory Support Services (Sq. Ft.)	Administrative and Clerical (Sq. Ft.)	Total Net Space (Sq. Ft.)
Ala. (a)	16,704	12,016	5,369	34,089
Alaska (a)	2,575	2,330	1,050	5,955
Ariz. (a)	4,162	4,531	2,110	10,803
Ark.	* (b)	* (b)	* (b)	* (b)
Cal.	*	*	*	*
Colo.	8,700	3,120	1,000	12,820
Conn.	*	*	*	*
Del.	1,680	1,208	607	3,495
D. C.	*	*	*	*
Fla. (a)	18,280	12,635	5,185	36,100
Ga. (a)	13,710	9,428	3,540	26,678
Hawaii (a)	7,491	3,530	2,163	13,184
Ida. (a)	7,011	2,387	6,221	15,619
Ill. (a)	22,807	25,275	10,070	58,152
Ind.	9,389	3,030	2,065	14,484
Ia. (a)	9,576	4,916	2,378	16,870
Kans.	7,606	3,324	1,522	12,452
Ky. (a)	19,954	11,687	5,178	36,819
La. (a)	22,879	21,432	10,326	54,637
Me.	1,700	1,700	834	4,234
Md. (c)	11,553	4,774	3,784	20,111
Mass.	6,067	25,514	18,286	49,867
Mich. (a)	*	*	*	385,542
Minn.	6,951	4,809	2,080	13,840
Miss.	*	*	*	*
Mo.	4,327	1,681	1,076	7,084
Mont.	1,593	3,237	1,783	6,613
Nebr. (a)	3,560	-	640	4,200
Nev.	*	*	*	*
N. H.	1,616	3,470	754	5,840
N. J. (a)	11,979	13,001	4,600	29,580
N. M. (a)	4,086	4,758	1,921	10,765
N. Y.	89,461	46,373	12,101	147,935
N. C.	9,709	7,360	4,463	21,532
N. D.	*	*	*	*
Ohio (a)	7,832	2,763	3,138	13,733
Okla.	*	*	*	*
Ore.	5,180	2,260	860	8,300
Pa. (a)	12,849	7,287	4,626	24,762
R. I.	3,671	1,886	675	6,232
S. C. (d)	10,460	5,880	3,311	19,651
S. D.	*	*	*	*
Tenn. (a)	30,176	17,946	5,121	53,243
Tex.	20,195	10,026	7,239	37,460
Utah	4,001	1,685	793	6,479
Vt.	3,420	2,480	1,185	7,085
Va.	*	*	*	*
Wash.	7,111	3,378	3,096	13,585
W. Va.	7,090	12,600	4,080	23,770
Wisc.	16,148	9,208	3,552	28,908
Wyo.	745	366	439	1,550
P. R.	7,130	5,895	2,281	15,306
V. I.	468	304	260	1,032



TABLE 6-2. NET SPACE ASSIGNED TO LABORATORIES

	Microbiology (e) (Sq. Ft.)	Serology (Sq. Ft.)	Virology (Sq. Ft.)	Chemistry (f) (Sq. Ft.)	Other Labs (g) (Sq. Ft.)	Total Space - Professional and Technical (Sq. Ft.)
Ala. (a)	10,813	1,759	780	1,405	1,947	16,704
Alaska (a)	1,625	600	50	300 (h)	-	2,575
Ariz. (a)	1,798	486	230	1,468	180	4,162
Ark.	*	*	*	*	*	*
Cal.	*	*	*	*	*	*
Colo.	4,100	1,200	1,200	1,600	600	8,700
Conn.	*	*	*	*	*	*
Del.	703	458	-	-	519	1,680
D. C.	*	*	*	*	*	*
Fla. (a)	8,005	2,495	1,795	4,045	1,940	18,280
Ga. (a)	8,175	2,964	1,233	584	754	13,710
Hawaii (a)	4,632	276	579	1,428	576	7,491
Ida. (a)	3,702 (i)	420	525	959	1,405	7,011
Ill. (a)	10,063	3,984	850	4,950	2,960	22,807
Ind.	3,456	1,300	1,123	3,510	-	9,389
Ia. (a)	1,241	988	1,375	4,084	1,888	9,576
Kans.	2,428	449	1,098	3,271	360	7,606
Ky. (a)	4,870	1,833	1,880	4,587	6,784	19,954
La. (a)	12,814	2,844	1,503	4,608	1,110	22,879
Me.	800	600	-	-	300	1,700
Md. (c)	1,818	341	2,800	2,291	4,303	11,553
Mass.	1,809	1,312	1,200	-	1,746	6,067
Mich.	*	*	*	*	*	*
Minn.	2,674	1,476	2,161	-	640	6,951
Miss.	*	*	*	*	*	*
Mo.	1,774	918	578	1,057	-	4,327
Mont.	1,593	-	-	-	-	1,593
Nebr. (a)	3,560 (j)	-	-	-	-	3,560
Nev.	*	*	*	*	*	*
N. H.	836	260	130	-	390	1,616
N. J. (a)	3,755	3,000	2,092	1,368	1,764	11,979
N. M. (a)	1,693	476	372	449	1,096	4,086
N. Y.	7,761	3,300	11,000	17,330	50,070	89,461
N. C.	3,098	1,364	2,031	1,232	1,984	9,709
N. D.	*	*	*	*	*	*
Ohio (a)	2,887	972	349	2,078	1,546	7,832
Okla.	*	*	*	*	*	*
Ore.	2,730	600	650	-	1,200	5,180
Pa. (a)	4,945	1,098	1,445	593	4,768	12,849
R. I.	950	406	-	1,100	1,215	3,671
S. C. (d)	2,586	1,572	1,320	1,810	3,172	10,460
S. D.	*	*	*	*	*	*
Tenn. (a)	17,611	5,800	755	-	6,010	30,176
Tex.	5,142	3,497	4,500	5,184	1,872	20,195
Utah	1,101	450	400	1,402	648	4,001
Vt.	980	405	820	705	510	3,420
Va.	*	*	*	*	*	*
Wash.	2,528	391	872	376	2,944	7,111
W. Va.	4,000	700	750	-	1,640	7,090
Wisc.	3,200	1,664	2,080	2,976	6,228	16,148
Wyo.	460	285	-	-	-	745
P. R.	1,368	540	470	911	3,841	7,130
V. I.	468 (k)	(k)	-	(k)	-	468

TABLE 6-3. NET SPACE ASSIGNED TO LABORATORY SUPPORT SERVICES

	Glassware and Media Prepa- ration (Sq. Ft.)	Container Preparation (l) (Sq. Ft.)	Animal Facilities (Sq. Ft.)	Mail Room and Specimen Receiving (Sq. Ft.)	Bulk Storage and Other Space (Sq. Ft.)	Total Space- Lab Support Services (Sq. Ft.)
Ala. (a)	4,525	5,280	1,511	-	700	12,016
Alaska (a)	850	550	-	150	780	2,330
Ariz. (a)	1,631	880 (m)	487	(m)	1,533	4,531
Ark.	*	*	*	*	*	*
Cal.	*	*	*	*	*	*
Colo.	900	300	200	220	1,500	3,120
Conn.	*	*	*	*	*	*
Del.	396	344	226	152	90	1,208
D. C.	*	*	*	*	*	*
Fla. (a)	5,070	2,540	1,065	995	2,965	12,635
Ga. (a)	3,340	3,486	1,476	-	1,126	9,428
Hawaii (a)	1,960	595	247	-	728	3,530
Ida. (a)	687	916	588	196	-	2,387
Ill. (a)	6,395	3,220	3,400	1,160	11,100	25,275
Ind.	2,290	640	-	100	-	3,030
Ia. (a)	1,123	985	1,249	215	1,344	4,916
Kans.	1,307	846	209	571	391	3,324
Ky. (a)	2,008	2,665	1,248	691	5,075	11,687
La. (a)	5,111	170	11,258	624	4,269	21,432
Me.	400	400	-	-	900	1,700
Md. (c)	768	844	770	432	1,960	4,774
Mass.	4,434	2,730	1,924	567	15,859 (n)	25,514
Mich.	*	*	*	*	*	*
Minn.	1,905	(o)	2,904	(o)	(o)	4,809
Miss.	*	*	*	*	*	*
Mo.	636	352	561	-	132	1,681
Mont.	684	104	1,057	670	722	3,237
Nebr. (a)	-	-	-	-	-	- (j)
Nev.	*	*	*	*	*	*
N. H.	572	250	1,410	260	978	3,470
N. J. (a)	3,490	1,467	6,726	397	921	13,001
N. M. (a)	1,342	2,009	564	419	424	4,758
N. Y.	6,139	1,500	33,400	136	5,198	46,373
N. C.	1,320	2,424	580	368	2,668	7,360
N. D.	*	*	*	*	*	*
Ohio (a)	1,512	754	497	-	-	2,763
Okla.	*	*	*	*	*	*
Ore.	750	1,050	100	360	-	2,260
Pa. (a)	1,545	2,436	1,154	555	1,597	7,287
R. I.	406	450	630	-	400	1,886
S. C. (d)	2,452	1,067	1,015	1,346	-	5,880
S. D.	*	*	*	*	*	*
Tenn. (a)	5,412	11,247 (p)	1,122	165	(p)	17,946
Tex.	2,112	1,100 (q)	2,926	888 (q)	3,000 (q)	10,026
Utah	335	730	540	80	-	1,685
Vt.	510	800	120	150	900	2,480
Va.	*	*	*	*	*	*
Wash.	1,233	772	465	186	722	3,378
W. Va.	6,100	-	1,500	700	4,300	12,600
Wisc.	2,368	1,720	1,344	2,816	960	9,208
Wyo.	276 (r)	(r)	-	90	-	366
P. R.	2,005	160	1,660	80	1,990	5,895
V. I.	204	100 (p)	-	-	(p)	304

TABLE 6-4. NET SPACE ASSIGNED TO ADMINISTRATIVE AND CLERICAL USES

	Clerical Offices (Sq. Ft.)	Other Administrative Purposes (Sq. Ft.)	Total Space-Clerical and Administrative (Sq. Ft.)
Ala. (a)	4,176	1,193	5,369
Alaska (a)	1,050	(a)	1,050
Ariz. (a)	1,195	915	2,110
Ark.	*	*	*
Cal.	*	*	*
Colo.	1,000	-	1,000
Conn.	*	*	*
Del.	607	-	607
D. C.	*	*	*
Fla. (a)	3,930	1,255	5,185
Ga. (a)	3,040	500	3,540
Hawaii (a)	2,163	-	2,163
Ida. (a)	5,313	908 (t)	6,221
Ill. (a)	8,725	1,345	10,070
Ind.	2,065	-	2,065
Ia. (a)	2,278	100	2,378
Kans.	1,069	453	1,522
Ky. (a)	648	4,530 (u)	5,178
La. (a)	8,015	2,311	10,326
Me.	834	-	834
Md. (c)	2,800	984	3,784
Mass.	7,811	10,475 (v)	18,286
Mich.	*	*	*
Minn.	2,080	-	2,080
Miss.	*	*	*
Mo.	1,076	-	1,076
Mont.	683	1,100	1,783
Nebr. (a)	640	-	640
Nev.	*	*	*
N. H.	390	364	754
N. J. (a)	1,680	2,920	4,600
N. M. (a)	1,347	574	1,921
N. Y.	2,719	9,382	12,101
N. C.	944	3,519	4,463
N. D.	*	*	*
Ohio (a)	1,488	1,650	3,138
Okla.	*	*	*
Ore.	860	-	860
Pa. (a)	3,906	720	4,626
R. I.	675	-	675
S. C. (d)	1,960	1,351	3,311
S. D.	*	*	*
Tenn. (a)	4,650	471	5,121
Tex.	2,940	4,299	7,239
Utah	628	165	793
Vt.	525	660	1,185
Va.	*	*	*
Wash.	2,307	789	3,096
W. Va.	3,400	680	4,080
Wisc.	1,168	2,384	3,552
Wyo.	415	24	439
P. R.	1,350	931	2,281
V. I.	260	(s)	260

FOOTNOTES. SECTION VI

- (a) Includes Branch Laboratory space.
- (b) Information not supplied as Laboratory moved into new building January 1, 1969.
- (c) These figures represent central Laboratory space only, as space utilized by the Branch Laboratories could not be broken down by function. These Laboratories contain 20,780 net square feet of space distributed as follows: Baltimore City, 9,500; Annapolis, 1,054; Cambridge, 1,355; Cheverly, 1,248; Cumberland, 1,310; Easton, 1,400; Elkton, 1,200; Frederick, 1,135; Rockville, 1,751; and Salisbury, 827.
- (d) Figures for Branch Laboratories not available.
- (e) Includes Diagnostic Bacteriology, Sanitary Bacteriology, Mycology, and Parasitology.
- (f) Includes Sanitary Chemistry, Industrial Chemistry, and Toxicology.
- (g) Includes Hematology, Pathology, Clinical Chemistry, Research, and others.
- (h) This includes new Chemistry Laboratory, located in Federal Office Building at Juneau and which is just awaiting employment of a Chemist I to begin operating. This will be part of the Office of the Chief.
- (i) Includes the five regional laboratories' space which is multipurpose.
- (j) Due to crowded conditions space is not assigned to any individual function. This figure represents all space except office.
- (k) This area represents total technical space.
- (l) Includes Supply Room and Container Storage.
- (m) Includes Mail Room and Specimen Receiving.
- (n) This includes 12,570 square feet for Biologic Production; 1,288, Cold Storage; and 2,001, Bulk Storage.
- (o) Shared with Department.
- (p) Bulk Storage included in this figure.
- (q) Part of this space is for entire Health Department.
- (r) Includes Container Preparation and Mail Room.
- (s) Included with office space.
- (t) Conference rooms and library shared with Department of Agriculture laboratories.
- (u) Conference rooms and Library are available to the entire State Health Department and are used by the Division of Laboratory Services as needed.
- (v) Includes 6,500 square feet stable space, which is not included elsewhere.

SECTION VII

INTRASTATE EVALUATION OF LABORATORIES

TABLE 7-1. INTRASTATE EVALUATION OF LABORATORIES: SUMMARY

	Type of Program	No. of Labs Participating	Program Covering Personnel:		
			Type	# Directors Covered	# Technologists Covered
Ala.	Approval	61	Licensure	34	27
Alaska	Approval	7	-	-	-
Ariz.	Approval	137	-	-	-
Ark.	Approval	125	-	-	-
Cal.	Approval	1,114	Licensure	(a)	(a)
Colo.	Approval & Vol.	85	-	-	-
Conn.	*	*	*	*	*
Del.	Licensure	12	-	-	-
D. C.	*	*	*	*	*
Fla.	Licensure	- (b)	-	-	-
Ga.	Approval	121	-	-	-
Hawaii	Approval	37	Licensure	37	91
Ida.	Approval	48	-	-	-
Ill.	Lic. & Appr.	698	-	-	-
Ind.	Approval	* (c)	-	-	-
Ia.	Approval	75	Approval	73 (Sero.), 23 (PKU)	-
Kans.	Approval	120 (d)	Certification	-	184 (Sero.), 9 (Milk)
Ky.	Approval	204	-	-	-
La.	Voluntary	*	-	-	-
Me.	Appr. & Vol.	45	-	-	-
Md.	Permit, Reg. & Appr.	138	-	-	-
Mass.	Approval	260	-	-	-
Mich.	Approval	333	-	-	-
Minn.	Voluntary (e)	163	-	-	-
Miss.	Approval	129	-	-	-
Mo.	Approval	274	-	-	-
Mont.	Reg. & Appr.	118 (f)	-	-	-
Nebr.	Approval	45	-	-	-
Nev.	*	*	*	*	*
N. H.	-	-	-	-	-
N. J.	Approval	300 (g)	-	-	-
N. M.	Approval	*	-	-	-
N. Y.	Licensure	462	(h)	(h)	-
N. C.	Approval (i)	259 (i)	-	-	-
N. D.	-	-	-	-	-
Ohio	Approval	308	-	-	-
Okla.	*	*	*	*	*
Ore.	Approval (j)	146	-	-	-
Pa.	Lic. & Appr.	683	-	-	-
R. I.	Licensure	30 (k)	-	-	-
S. C.	Voluntary (l)	47 (l)	-	-	-
S. D.	*	*	*	*	*
Tenn.	Approval	*	-	-	-
Tex.	Approval & Reg.	1,400	-	-	-
Utah	Approval	27	-	-	-
Vt.	Approval	8	-	-	-
Va.	Approval	181	-	-	-
Wash.	Reg. & Appr.	126 (m)	-	-	-
W. Va.	Approval	142	-	-	-
Wisc.	Approval	288	-	-	-
Wyo.	Approval	38	-	-	-
P. R.	Licensure	158 (n)	-	-	-
V. I.	-	-	-	-	-

TABLE 7-1. INTRASTATE EVALUATION OF LABORATORIES: SUMMARY  
(Continued)

	Procedures Covered:					
	Clin. Chem.	Hematology	Immuno-hematology	Serology	Microbiology	Other
Ala.	-	-	-	x	-	-
Alaska	-	-	-	x	-	Milk, Water, Seafood
Ariz.	-	-	-	x	x	Parasitology
Ark.	-	-	-	x	-	-
Cal.	-	-	-	x	-	-
Colo.	x	x	-	x	x	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	x	-	-
D. C.	*	*	*	*	*	*
Fla.	-	-	-	-	-	-
Ga.	-	-	-	x	-	-
Hawaii	-	-	-	x	-	-
Ida.	(o)	(o)	-	x	(o)	PKU
Ill.	-	-	x	x	x	PKU, Milk, Water
Ind.	-	-	-	x	-	Water, Dairy Bact.
Ia.	-	-	-	x	-	PKU
Kans.	x	x	x	x	x	Milk, Rabies
Ky.	-	-	-	x	-	-
La.	-	-	-	x	x	Milk
Me.	x	-	x	x	-	-
Md.	x	x	-	x	x	Parasitology
Mass.	-	-	x	x	x (p)	-
Mich.	-	-	-	x	-	-
Minn.	x	-	-	x	-	-
Miss.	-	-	-	x	-	-
Mo.	-	-	-	x	-	PKU, Milk, Water
Mont.	-	-	-	x	-	-
Nebr.	-	-	-	x	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	x	x	x	x	x	Serology (Other than VD)
N. M.	x	x	x	x	x	Serology (Other than VD)
N. Y.	x	x	x	x	-	Bact., TB, Myco., Para., Exfol. Cytol., Pregnancy test
N. C.	-	-	-	x	-	Water, Milk
N. D.	-	-	-	-	-	-
Ohio	x	x	x	x	x	Mycology
Okla.	*	*	*	*	*	*
Ore.	x	x	x	x	x	Water
Pa.	x	-	x	x	x	Photometric Linearity Survey
R. I.	x	x	x	x	x	Exfol. Cytol., Water, Milk
S. C.	-	-	-	x	-	Milk
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	x	-	-
Tex.	-	-	-	x	x	Mycology, Parasit. (q)
Utah	-	-	-	x	-	-
Vt.	-	-	-	x	-	-
Va.	-	-	-	x	-	Milk, Water
Wash.	-	-	-	x	-	Milk, Water
W. Va.	-	-	-	x	-	Milk, Water
Wisc.	x	x	x	x	x	Water, Milk, PKU, Cytology
Wyo.	-	-	-	x	-	-
P. R.	x	-	x	x	x	Parasitology
V. I.	-	-	-	-	-	-

FOOTNOTES. TABLE 7-1.

- (a) All directors and clinical laboratory technologists licensed; exact total number not available.
- (b) Program just being started.
- (c) Includes Serology, 151; Water, 48; and Milk, 22.
- (d) Participation in evaluations required if laboratory participates in Medicare or Premarital and Prenatal Syphilis Serology Program.
- (e) Program is voluntary except for 10 Medicare Laboratories.
- (f) Total number of laboratories registered, including 11 Federal laboratories listed with State; approval is for STS and involves 51 laboratories.
- (g) Represents Medicare Certification, State Sanitary Code requirements, and Volunteer.
- (h) All directors of Laboratories holding permits must have a Certificate of Qualification.
- (i) Laboratories approved for performance of serologic tests for syphilis under the N.C. Marriage Law. For Milk Evaluation, laboratories under the cooperative State - PHS Program for Interstate Milk Shippers; for water, laboratories under the Cooperative State - PHS Program for certifying Water Plant laboratories and examining water used on common carriers engaged in interstate traffic.
- (j) Licensure not effective until January 1, 1970.
- (k) This represents independent clinical laboratories required to participate in the various disciplines. In addition, twenty hospital laboratories are required to participate in serology evaluation.
- (l) Required participation for twelve laboratories performing Milk exams.
- (m) 287 laboratories registered - 126 participating in approval program.
- (n) Represents 28 hospital, 58 Public Health and 72 commercial laboratories.
- (o) Currently, Idaho has implemented voluntary programs in clinical chemistry and microbiology. In March, 1968, 18 laboratories participated in clinical chemistry. In November, 1968, 43 laboratories were involved. In April, 1969, samples were distributed to 37 laboratories. A bacteriology series of five specimens were distributed in March, 1969, to 25 laboratories. A hematology evaluation (hemoglobin only) was planned for June, 1969.
- (p) This represents all sub-specialties for which not all laboratories require approval.
- (q) A study in connection with the Medicare Program included the following: Agglutination: 50 laboratories participating, sent 3 shipments of 4 specimens each; ASO: 50 laboratories participating, sent 2 shipments of 2 and 4 specimens each; Microbiology: 51 laboratories participating, sent 3 shipments of 4 specimens each; and Parasitology: 58 laboratories participating, sent 2 shipments of 4 specimens each.



TABLE 7-2. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM: CLINICAL CHEMISTRY AND HEMATOLOGY

	Clinical Chemistry				Hematology			
	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	65	(a)	*	*	65	(a)	*	*
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	6	5	4	2	7	6	3	1
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Ma.	25	25	4	5	-	-	-	-
Md.	118	106 (b)	2	2 (c)	122	122	2	2 (d)
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	163	10 (e)	10-12	2	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	197	197	8-10	4	119	119	5	5
N. M.	3	*	1	2	3	*	-	-
N. Y.	385	365	5	(f)	396	385	2	10
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	239 (g)	169	1	5	239 (h)	194	1	5
Okla.	*	*	*	*	*	*	*	*
Ore.	26	26	4	2	26	26	4	2
Pa.	137	130	2	2	-	-	-	-
R. I.	23	*	2	3	21	*	2	4
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	244	*	6	20	172	*	4	7
Wyo.	-	-	-	-	-	-	-	-
P. R.	120	58	4-10	3-4	-	-	-	-
V. I.	-	-	-	-	-	-	-	-

TABLE 7-3. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM: IMMUNOHEMATOLOGY AND SEROLOGY

	Immunohematology				Serology			
	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.
Ala.	-	-	-	-	61	61	6	20
Alaska	-	-	-	-	4	4	5	20
Ariz.	-	-	-	-	132	122 (i)	100	10
Ark.	-	-	-	-	125	125	10	10
Cal.	-	-	-	-	1,114	1,114	4	2
Colo.	-	-	-	-	85	85	5	20
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	12	12	*	*
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	121	121	10	20
Hawaii	-	-	-	-	37	37	1	10
Ida.	-	-	-	-	48	48	3	25
Ill.	511	486	2	3-6	495	487	2-4	5-10
Ind.	-	-	-	-	151	151	96	8
Ia.	-	-	-	-	73	73	5	20
Kans.	7	7	2	1	116	110	6	10
Ky.	-	-	-	-	204	201	60	15
La.	-	-	-	-	7	(a)	10	20
Me.	20	20	4	5	20	20	- (j)	-
Md.	-	-	-	-	96	82 (b)	2	10
Mass.	225	201	2	10	200	190	6	10
Mich.	-	-	-	-	333	333	4	10
Minn.	-	-	-	-	48	*	12	12
Miss.	-	-	-	-	129	*	5	10
Mo.	-	-	-	-	221	219	100	10
Mont.	-	-	-	-	51	51	2	10
Nebr.	-	-	-	-	45	45	4 (k)	10
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	201	201	10	2-3	256	256	10	11 (1)
N. M.	5	*	-	-	86	*	10	10
N. Y.	355	347	1	5	342 (m)	298	10	14
N. C.	-	-	-	-	205	*	10	10
N. D.	-	-	-	-	-	-	-	-
Ohio	234 (n)	210	1	4	308 (o)	304	10	5
Okla.	*	*	*	*	*	*	*	*
Ore.	25	25	4	1	141	141	2	15
Pa.	131	126	3	3	326	316	2	4
R. I.	17	*	2	4	39	*	3	20
S. C.	-	-	-	-	35	*	*	*
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	165	161	10	10
Tex.	-	-	-	-	1,383	1,379	4	5
Utah	-	-	-	-	27	27	10	5
Vt.	-	-	-	-	8	8	10	10
Va.	-	-	-	-	145	145	5	15
Wash.	-	-	-	-	126	121	6	10
W. Va.	-	-	-	-	121	121	5	20
Wisc.	178	*	3	4	137	*	10	10
Wyo.	-	-	-	-	38	38	6	10
P. R.	156	86	10	2-3	107	98	4-10	10
V. I.	-	-	-	-	-	-	-	-

TABLE 7-4. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM: MICROBIOLOGY AND PARASITOLOGY

	Microbiology				Parasitology			
	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	63	*	6	3	38	*	19	2
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	53	(a)	*	*	-	-	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	398 (p)	385	2-4	5-10	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	7	5	2	1	-	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	7	(a)	10	5	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	76	63 (b)	3	2 (q)	67	54 (b)	2	2 (r)
Mass.	182	180	6	5	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	118	118	3-4	4-5	-	-	-	-
N. M.	5	*	1	2	-	-	-	-
N. Y.	337	298	5	4	220	200	2	2
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	200	52	1	5	200	98	1	5
Okla.	*	*	*	*	*	*	*	*
Ore.	25	25	3	2	-	-	-	-
Pa.	287	220	5	5	-	-	-	-
R. I.	18	*	2	10	-	-	-	-
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	75	(a)	12	2	155	(a)	5	5
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	187	*	6-9	1-5	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	95	65	4	3	141	90	2	3
V. I.	-	-	-	-	-	-	-	-

TABLE 7-5. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM: MILK AND WATER

	Milk				Water			
	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.
Ala.	-	-	-	-	-	-	-	-
Alaska	7	7	2	24	4	4	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	102 (s)	84	2	9	(s)	-	-	-
Ind.	22	22	2	11	48	48	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	3	3	2	12	-	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	8	(a)	2	10	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	13	13	28	14	24	24	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-	-
N. C.	40	*	2	11	14	*	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	11	11	1	10
Pa.	-	-	-	-	-	-	-	-
R. I.	2	*	2	10	4	*	1	3
S. C.	12	*	*	*	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	18	18	2	10	18	18	-	-
Wash.	14	14	5	4-6	23	23	(t)	-
W. Va.	11	11	2	12	10	10	-	-
Wisc.	103 (s)	*	2	12	(s)	-	-	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-

TABLE 7-6. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM: OTHER

	No. of labs Participating	No. of labs in Conformance	No. of evaluation shpts./lab	No. of specimens per shpt.
<u>EXFOLIATIVE CYTOLOGY</u>				
N. Y.	208	200	1	5
R. I.	3	*	1	12
Wisc.	14	*	6	3
<u>MYCOLOGY</u>				
N. Y.	112	91	2	7-8
Ohio	195	127	1	5
Tex.	36	(a)	4	6
<u>PHENYLKETONURIA</u>				
Ida.	2	2	1	*
Ill.	77 (u)	73	2-4	4
Ia.	23	*	4	6-12
Mo.	11	11	100	10
Pa.	49	*	*	*
Wisc.	82	*	12	3
<u>PHOTOMETRIC LINEARITY SURVEY</u>				
Pa.	143	*	1	2
<u>PREGNANCY TEST</u>				
N. Y.	330	330	-	-
<u>RABIES</u>				
Kans.	1	1	-	-
<u>SEAFOOD</u>				
Alaska	1	1	-	-
<u>SEROLOGY (OTHER THAN VD)</u>				
N. J.	240	240	3	3
N. M.	5	-	-	-
<u>TUBERCULOSIS</u>				
N. Y.	123	94	1	4

FOOTNOTES. TABLES 7-2 - 7-6.

- (a) Voluntary participation.
- (b) Retraining of individuals not qualifying currently being provided.
- (c) Five exams each.
- (d) Four exams each.
- (e) Medicare laboratories; program is voluntary for others.
- (f) Varies.
- (g) Represents Glucose - 239 in Urea testing (134 in conformance).
- (h) Represents Hemoglobin. 211 in Differential testing; one specimen sent. (181 in conformance)
- (i) As of June 1968. Evaluation year is on a calendar year basis, so several of those failing in June were in conformance by November.
- (j) Program inactive - FY 1968.
- (k) Special check samples sent to 14 laboratories.
- (l) Includes one known.
- (m) Represents general serology. Syphilis serology program involved 263 laboratories, with 233 in conformance. They were sent one evaluation shipment of ten specimens.
- (n) Represents Group and Rh factor. 241 in another Grouping test (210 in conformance); 211 Blood tests; (190 in conformance).
- (o) Represents Syphilis. 195 participated in Agglutination testing, 102 in conformance with one shipment of five specimens sent.
- (p) Represents TB Smear. Laboratories receiving TB cultures numbered 141, with 82 in conformance. They received 2 shipments of 2 specimens each.
- (q) Contained 2 and 10 organisms respectively.
- (r) Contained 5 and 19 parasites respectively.
- (s) Milk and Water included together.
- (t) On-site survey only.
- (u) Represents Guthrie exam. In addition, 40 laboratories performed PKU Quantitative exams, with 34 in conformance. They received 2 shipments of 4 specimens.

TABLE 7-7. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE OF LABORATORY: CLINICAL CHEMISTRY

	Total Number Participating:				Participation Voluntary or Required:			
	Indep. Clinical	Hospital	Public Health	Commercial, Other	Indep. Clinical	Hospital	Public Health	Comm., Other
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	27	38	-	-	Vol.	Vol.	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	*	*	*	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	6	-	-	-	Req.	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	2	23	-	-	Req.	Vol.	-	-
Md.	51	48	19	-	Req.	Req.	Req.	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	12	150	1	-	Req.	Vol.	Vol.	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	130	67	-	-	126R, 4V	Vol.	-	-
N. M.	3	-	-	-	Req.	-	-	-
N. Y.	167	207	8	3	Req.	Req.	Req.	Req.
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	95	131	2	-	Req.	Vol.	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	25	-	1	-	Req.	-	Req.	-
Pa.	150	20	-	-	Req.	Vol.	Vol.	Vol.
R. I.	23	-	-	-	Req.	-	-	-
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	70	171	-	-	Req.	Req.	Vol.	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	*	*	*	*	*	*	*	*
V. I.	-	-	-	-	-	-	-	-

TABLE 7-8. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE OF LABORATORY: HEMATOLOGY

	<u>Total Number Participating:</u>				<u>Participation Voluntary or Required:</u>			
	<u>Indep.</u> <u>Clinical</u>	<u>Hospital</u>	<u>Public</u> <u>Health</u>	<u>Comm.,</u> <u>Other</u>	<u>Indep.</u> <u>Clinical</u>	<u>Hospital</u>	<u>Public</u> <u>Health</u>	<u>Comm.,</u> <u>Other</u>
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	27	38	-	-	Vol.	Vol.	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	*	*	*	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	6	-	1	-	Req.	-	Req.	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	54	49	19	-	Req.	Req.	Req.	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	111	8	-	-	96R, 15V	Vol.	-	-
N. M.	3	-	-	-	Req.	-	-	-
N. Y.	166	203	23	4	Req.	Req.	Req.	Req.
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	93	142	4	-	Req.	Vol.	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	25	-	1	-	Req.	-	Req.	-
Pa.	-	-	-	-	-	-	-	-
R. I.	21	-	-	-	Req.	-	-	-
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	22	160	-	-	Req.	Req.	-	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-



TABLE 7-9. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE OF LABORATORY: IMMUNOHEMATOLOGY

	<u>Total Number Participating:</u>				<u>Participation Voluntary or Required:</u>			
	<u>Indep.</u> <u>Clinical</u>	<u>Hospital</u>	<u>Public</u> <u>Health</u>	<u>Comm.,</u> <u>Other</u>	<u>Indep.</u> <u>Clinical</u>	<u>Hospital</u>	<u>Public</u> <u>Health</u>	<u>Comm.,</u> <u>Other</u>
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	*	*	*	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	6	-	1	-	Req.	-	Req.	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	20	-	-	Req.	Vol.	-	-
Md.	-	-	-	-	-	-	-	-
Mass.	77	147	1	-	Vol.	Vol.	Vol.	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	68	116	1	16	67R, 1V	Req.	Vol.	11R, 5V
N. M.	3	-	2	-	Req.	-	Req.	-
N. Y.	126	220	8	1	Req.	Req.	Req.	Req.
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	76	156	2	-	Req.	Vol.	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	24	-	1	-	Req.	-	Req.	-
Pa.	150	20	2	6	Req.	Vol.	Vol.	Vol.
R. I.	17	-	-	-	Req.	-	-	-
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	18	160	-	-	Req.	Req.	-	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	*	*	*	*	*	*	*	*
V. I.	-	-	-	-	-	-	-	-

TABLE 7-10. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE OF LABORATORY: SEROLOGY

	<u>Total Number Participating:</u>				<u>Participation Voluntary or Required:</u>			
	<u>Indep. Clinical</u>	<u>Hospital</u>	<u>Public Health</u>	<u>Comm., Other</u>	<u>Indep. Clinical</u>	<u>Hospital</u>	<u>Public Health</u>	<u>Comm., Other</u>
Ala.	13	39	9	-	Req.	Req.	Req.	-
Alaska	2	1	1	1	Vol.	Req.	Req.	Req.
Ariz.	80	48	4	1	*	*	*	*
Ark.	10	113	2	-	Vol.	Vol.	Vol.	-
Cal.	602 (a)	437 (a)	39	19 (a)	Req.	Req.	Req.	Req.
Colo.	*	*	*	*	*	*	*	*
Conn.	*	*	*	*	*	*	*	*
Del.	7	5	-	-	Req.	Req.	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	30	70	11 (b)	10	Req.	Req.	Req.	Req.
Hawaii	19	12	5	1	Req.	Req.	Req.	Req.
Ida.	12	35	6	-	Req.	Req.	Req.	*
Ill.	*	*	*	*	*	*	*	*
Ind.	52	96	3	-	16V, 36R	9V, 87R	2V, 1R	-
Ia.	12	60	1	-	Req.	Req.	Req.	-
Kans.	29	86	1	-	Req.	Req.	Req.	-
Ky.	103	97	4	-	Req.	Req.	Req.	-
La.	-	-	7	-	-	-	Vol.	-
Me.	-	20	-	-	-	Vol.	-	-
Md.	41	46	9	-	Req.	Req.	Req.	-
Mass.	39	158	3	-	Vol.	Vol.	Vol.	-
Mich.	126	192	15	-	*	*	*	-
Minn.	1	45	2	-	Req.	Vol.	Vol.	-
Miss.	*	*	2	-	Vol.	Vol.	Vol.	-
Mo.	*	*	*	*	Vol.	Vol.	Vol.	Vol.
Mont.	15	34	1	1	Req.	Req.	Req.	Req.
Nebr.	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	117	107	17	7	117	107	17	7
N. M.	*	*	*	*	*	*	*	*
N. Y.	137 (c)	180	23	2	Req.	Req.	Req.	Req.
N. C.	65	125	15	-	Vol.	Vol.	Vol.	-
N. D.	-	-	-	-	-	-	-	-
Ohio	86	215	7	-	Req.	Vol.	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	58	81	2	-	Req.	Req.	Req.	-
Pa.	91	227	2	6	Req.	Req.	Req.	Req.
R. I.	19	20	-	-	Req.	Req.	-	-
S. C.	4	31	-	-	Vol.	Vol.	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	31	129	6	-	Vol.	Vol.	Vol.	Vol.
Tex.	*	*	*	*	*	*	*	*
Utah	8	19	-	-	Vol.	Vol.	Vol.	-
Vt.	-	8	-	-	-	*	-	-
Va.	*	*	*	*	*	*	*	*
Wash.	24	72	10	22 (d)	Req.	Req.	Req.	Req.
W. Va.	-	74	4	43	-	Req.	Req.	Req.
Wisc.	25	111	2	-	Req.	Req.	-	-
Wyo.	3	35	-	-	Vol.	Vol.	-	-
P. R.	*	*	*	*	*	*	*	*
V. I.	-	-	-	-	-	-	-	-

TABLE 7-11. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE OF LABORATORY: MICROBIOLOGY

	Total Number Participating:				Participation Voluntary or Required:			
	Indep. Clinical	Hospital	Public Health	Comm., Other	Indep. Clinical	Hospital	Public Health	Comm., Other
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	39	22	2	-	*	*	*	-
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	22	31	-	-	Vol.	Vol.	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	*	*	*	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	6	-	1	-	Req.	-	Req.	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	7	-	-	-	Vol.	-
Me.	-	-	-	-	-	-	-	-
Md.	24	40	12	-	Req.	Req.	Req.	-
Mass.	24 (e)	153	5	-	Vol.	Vol.	Vol.	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	114	4	-	-	Req.	Vol.	-	-
N. M.	3	-	2	-	Req.	-	Req.	-
N. Y.	124	188	22	3	Req.	Req.	Req.	Req.
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	56	141	3	-	Req.	Vol.	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	24	-	1	-	Req.	-	Req.	-
Pa.	150	20	2	-	Req.	Vol.	Vol.	Vol.
R. I.	18	-	-	-	Req.	-	-	-
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	12	48	12	3	Vol.	Vol.	Vol.	Vol.
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	15	158	8	3	Req.	Req.	Vol.	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	*	*	*	*	*	*	*	*
V. I.	-	-	-	-	-	-	-	-

TABLE 7-12. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE OF LABORATORY: PARASITOLOGY

	<u>Total Number Participating:</u>				<u>Participation Voluntary or Required:</u>			
	<u>Indep. Clinical</u>	<u>Hospital</u>	<u>Public Health</u>	<u>Comm., Other</u>	<u>Indep. Clinical</u>	<u>Hospital</u>	<u>Public Health</u>	<u>Comm., Other</u>
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	*	*	*	*	*	*	*	*
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	23	34	10	-	Req.	Req.	Req.	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-
N. Y.	60	144	15	1	Req.	Req.	Req.	Req.
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	*	*	*	*	*	*	*	*
Okla.	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-
R. I.	-	-	-	-	-	-	-	-
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	36	110	9	-	Vol.	Vol.	Vol.	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	*	*	*	*	*	*	*	*
V. I.	-	-	-	-	-	-	-	-

TABLE 7-13. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE LABORATORY: MILK

	Total Number Participating:				Participation Voluntary or Required:			
	Indep. Clinical	Hospital	Public Health	Comm., Other	Indep. Clinical	Hospital	Public Health	Comm., Other
Ala.	-	-	-	-	-	-	-	-
Alaska	*	*	*	*	*	*	*	*
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	*	*	*	*	*	*	*	*
Ind.	-	-	4	18	-	-	Vol.	Vol.
Ia.	-	-	-	-	-	-	-	-
Kans.	-	-	3	-	-	-	Req.	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	8	-	-	-	Req.	-
Me.	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	13	-	-	-	Vol.	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-	-
N. C.	*	*	*	*	*	*	*	*
N. D.	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-
R. I.	2	-	-	-	Req.	-	-	-
S. C.	-	-	6	6	-	-	Req.	Req.
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	*	*	*	*	*	*	*	*
Wash.	*	*	*	*	*	*	*	*
W. Va.	-	-	7	4	-	-	Req.	Req.
Wisc.	-	1 (f)	42 (f)	62 (f)	-	Req.	Req.	Req.
Wyo.	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-

TABLE 7-14. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE LABORATORY: WATER

	Total Number Participating:				Participation Voluntary or Required:			
	Indep. Clinical	Hospital	Public Health	Comm., Other	Indep. Clinical	Hospital	Public Health	Comm., Other
Ala.	-	-	-	-	-	-	-	-
Alaska	*	*	*	1	*	*	*	Vol.
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	*	*	*	*	*	*	*	*
Ind.	3	2	29 (g)	14	Vol.	Vol.	Vol.	Vol.
Ia.	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	1	-	-	23 (h)	Vol.	-	-	Vol.
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-	-
N. C.	*	*	*	*	*	*	*	*
N. D.	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	3	1	6	1	Req.	Req.	Req.	Req.
Pa.	-	-	-	-	-	-	-	-
R. I.	4	-	-	-	Req.	-	-	-
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	*	*	*	*	*	*	*	*
Wash.	*	*	*	*	*	*	*	*
W. Va.	-	-	6	4	-	-	Vol.	Req.
Wisc.	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-

TABLE 7-15. PARTICIPATION IN INTRASTATE EVALUATION PROGRAM BY TYPE OF LABORATORY: OTHER

	<u>Total Number Participating:</u>				<u>Participation Voluntary or Required:</u>			
	<u>Indep.</u> <u>Clinical</u>	<u>Hospital</u>	<u>Public</u> <u>Health</u>	<u>Comm.,</u> <u>Other</u>	<u>Indep.</u> <u>Clinical</u>	<u>Hospital</u>	<u>Public</u> <u>Health</u>	<u>Comm.,</u> <u>Other</u>
<u>Exfoliative Cytology</u>								
R. I.	3	-	-	-	Req.	-	-	-
Wisc.	14	-	-	-	Req.	-	-	-
<u>Mycology</u>								
N. Y.	20	83	9	-	Req.	Req.	Req.	-
Texas	1	27	8	-	Vol.	Vol.	Vol.	-
<u>Phenylketonuria</u>								
Ida.	*	*	*	-	Req.	Req.	Req.	-
Ia.	3	20	-	-	Vol.	Vol.	-	-
Mo.	-	11	-	-	-	Vol.	-	-
Pa.	-	48	1	-	-	Vol.	Vol.	-
Wisc.	3	81	-	-	Req.	Req.	-	-
<u>Seafood</u>								
Alaska	-	-	-	1	-	-	-	Vol.
<u>Serology (other than VD)</u>								
N. M.	3	-	2	-	Req.	-	Req.	-
<u>Tuberculosis</u>								
N. Y.	18	92	13	-	Req.	Req.	Req.	-

FOOTNOTES. TABLES 7-10 - 7-15

- (a) Independent Clinical includes 594 clinical laboratories with permit plus 8 laboratories exempt from permit. Hospital includes 414 hospital laboratories with permit plus: 2 university hospitals, 13 mental institutions, 3 penal institutions, 2 Veterans Administration hospitals, and 3 Armed Services hospitals. Commercial represents commercial blood banks.
- (b) Public Health includes 3 regional laboratories, 2 institutional laboratories, 5 county laboratories, and 1 central laboratory.
- (c) Represents General Serology; for syphilis serology the totals are: 94 independent clinical laboratories, 153 hospital, 14 public health, and 2 other. All are required to participate.
- (d) Includes 6 military, 13 clinic, and 3 blood banks.
- (e) Some participate in more than one sub-specialty.
- (f) Includes both milk and water.
- (g) Twenty-seven laboratories of city water works included as public health laboratories.
- (h) Includes city laboratories.



SECTION VIII

PRODUCTION OF BIOLOGICS AND REAGENTS

TABLE 8-1. STATES PRODUCING BIOLOGICS AND REAGENTS

	Biologics	Antisera	Antigens	Solutions
"x"--Indicates Production				
Ala.	- (a)	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	x
Ark.	-	-	-	-
Cal.	-	x	x	x
Colo.	-	-	-	-
Conn.	*	*	*	*
Del.	-	-	-	-
D. C.	*	*	*	*
Fla.	-	-	-	* (b)
Ga.	x	x	x	x
Hawaii	x	-	x	-
Ida.	-	-	-	-
Ill.	x	x	-	x
Ind.	-	x	x	x
Ia.	-	-	-	-
Kans.	x	-	-	-
Ky.	-	-	-	-
La.	-	-	x	x
Me.	-	-	-	-
Md.	-	-	-	* (c)
Mass.	x	-	-	-
Mich.	x	x	x	-
Minn.	x	x	x	-
Miss.	x	-	-	-
Mo.	-	-	x	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	*	*	*	*
N. H.	-	-	-	-
N. J.	-	x	x	x
N. M.	-	-	-	-
N. Y.	-	x	x	x
N. C.	-	-	-	-
N. D.	-	-	-	-
Ohio	-	x	x	* (b)
Okla.	*	*	*	*
Ore.	-	-	-	-
Pa.	-	x	x	-
R. I.	-	-	-	x
S. C.	-	-	-	x
S. D.	*	*	*	*
Tenn.	x	-	x	x
Tex.	x	x	x	x
Utah	-	-	x	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W. Va.	-	-	-	-
Wisc.	-	x	x	-
Wyo.	-	-	-	x
P. R.	-	-	-	-
V. I.	-	-	-	-

TABLE 8-2. PRODUCTION OF BIOLOGICS FOR HUMAN USE

(Amounts Produced in mls)

Ga.	Old Tuberculin, 80,000	H. influenzae Type B Antiserum, 10
Hawaii	Fluoride, 1,500	Histoplasmin, 49,750
		Normal Horse Serum (Diluted), 16,000
		Rabies Vaccine, 7,350
Ill.	Typhoid Vaccine, 90,170	Tetanus-Diphtheria (Adult), 132,280
	Pertussis Vaccine, 4,662	Typhoid-Paratyphoid, 12,330
	Diphtheria Toxoid, 8,950	
	Diphtheria-Tetanus Toxoid, 101,945	Minn.
	Diphtheria-Tetanus-Pertussis, 141,915	Old Tuberculin, 138,000
	Old Tuberculin, 41,540	
	Silver Nitrate, 53,475	Miss.
	Fluoride, 301 pkgs. (enough for 72,240 ml. sol.)	Silver Nitrate, 15,370 ampules
	Schick Test Material, 6,064	
	Rabies Vaccine, 21,742	Tenn.
	P.P.D., 89,610	Typhoid Vaccine, 55,330
	Diphtheria-Toxoid Pertussis, 2,250	Tetanus Toxoid, 70,230
		Old Tuberculin, 16,980
		Silver Nitrate, 22,312 ampules
		Diphtheria for Schick Test, 685
		Texas
Kans.	Fluoride-Sodium, 4,200	Typhoid Vaccine, 90,160
	Ferric Chloride, 4,200	Smallpox Vaccine, 330,100 points
		Pertussis Vaccine, 1,086
		Diphtheria Toxoid, 6,228
Mass.	Typhoid Vaccine, 60,149	Diphtheria-Tetanus Toxoid, 70,250
	Smallpox Vaccine, 499,787 Capillaries	Diphtheria-Tetanus-Pertussis, 242,810
	Pertussis Vaccine, 430	Tetanus Toxoid, 64,452
	Diphtheria-Tetanus Toxoid, 211,974	Old Tuberculin, 17,125
	Diphtheria-Tetanus-Pertussis, 308,436	Silver Nitrate, 12,876 ampules
	Tetanus Toxoid, 251,340	Diphtheria and Tetanus (Adult), 182,825
	Old Tuberculin, 28,517	Schick Test, 1,952
	Silver Nitrate, 118,920	Rabies, 244
	Schick Test, 4,670	
	Defibrinated Horse Blood, 732,750	
	Normal Horse Serum, 142,000	
	Immune Serum Globulin (Human), 78,274	
	25% Normal Serum Albumin (Human), 393,744	
	Diphtheria Antitoxin (Equine), 1,467,000 units	
	Tetanus Antitoxin (Equine), 4,752,000 units	
	Produced for American National Red Cross:	
	Immune Serum Globulin (Human), 40,269	
	25% Normal Serum Albumin (Human), 284,344	
	165,750 Units of Tetanus Immune Globulin (Human) were distributed but not produced in that year.	
Mich.	Typhoid Vaccine, 79,903 (Amts. in Doses)	
	Smallpox Vaccine, 886,890	
	Pertussis Vaccine, 20,590	
	Diphtheria-Tetanus Toxoid, 246,000	
	Diphtheria-Tetanus-Pertussis, 577,220	
	Tetanus Toxoid, 665,313	
	Old Tuberculin, 1,508,920	
	Silver Nitrate, 244,910	
	Fluoride, 166,200	
	Antihemophilic Globulin, 447	
	AHF-Rich Fibrinogen, 248	
	Dried Fibrinogen (Human), 705	
	Immune Serum Globulin (Human), 129,036	
	Normal Serum Albumin (Human), 27,460	
	Tetanus Immune Globulin (Human), 4,200	
	Diphtheria Antitoxin, 10,000 Unit, 80	
	Tetanus Antitoxin-1,500 Unit, 7,965	
	Tetanus Antitoxin-20,000 Unit, 10	
	Diphtheria Toxin for Schick and Control, 39,640	
	Diphtheria-Tetanus-Polio, 43,200	
	Diphtheria-Tetanus-Pertussis-Polio, 271,512	

TABLE 8-3. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTISERA

State		Amount Produced (in mls)	Amount Distributed to Other Laboratories (mls)
Calif.	Hemolysin, anti-sheep	-	700
	<u>Brucella abortus</u>	-	55
	<u>Salmonella paratyphi</u> A	-	18
	<u>Salmonella paratyphi</u> B	-	35
	<u>Salmonella typhi</u> "H"	-	25
	<u>Salmonella typhi</u> "O"	-	53
	<u>Pasteurella tularensis</u>	415	15
	Salmonella "O" 4, 5, 12	713	-
	Salmonella "O" 1, 13, 23	260	-
	Salmonella "O" 6, 8	632	-
	Salmonella "O" 8	550	-
	Salmonella "H" enz. 16	217	-
	Salmonella "H" K	200	-
	<u>Pasteurella pestis</u>	457	-
	Shigella Group B (polyvalent)	728	-
	Shigella B 1a	186	-
	Shigella B 2a	276	-
	Shigella B 2b	183	-
	Shigella B 3	251	-
	Shigella B 4a	619	-
	Shigella B 4b	266	-
	Shigella B 5	241	-
	Shigella B 6	608	-
	<u>Clostridium botulinum</u> (Antitoxin Type F)	419	-
	Anti-porcine (Precipitin)	411	-
	Anti-ovine (Precipitin)	406	-
	Anti-bovine (Precipitin)	387	-
	Anti-equine (Precipitin)	356	-
	Anti-treponema pallidum (FADF)-Fluorescein- tagged globulin	52	-
	Antisera, absorbed:		
	Salmonella "H" P	15	-
	Salmonella "H" S	35	-
	Salmonella "H" XZ16	30	-
	Salmonella "H" Z16 Z18	40	-
	Salmonella "H" 7	50	-
	Salmonella "H" 2	40	-
	Salmonella "O" 9	50	-
	Salmonella "O" 15	25	-
	Salmonella "O" 19	50	-
	Shigella B, Type IV	135	-
Shigella B, Type V	27	-	
Shigella B (Group Factor 7)	30	-	
Ga.	Salmonella	997	19
	Shigella	-	4
	Rabies FA	-	47
Ill.	<u>E. Coli</u>	858	-
	Salmonella O	60	-
Ind.	Antihistoplasmin	160	-
	Antigonococcal	30	-
Mich.	39 Types	*	1,159
Minn.	(Enteric bacteriology)	658	-
N. J.	EE Immune Sera	200	-
	WE Immune Sera	150	-
	Coxsackie A16	90	-
	SLE Immune Sera	175	-
	Powassan Immune Sera	150	-

TABLE 8-3. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTISERA

(Continued)

State		Amount Produced (in mls)	Amount Distributed to Other Laboratories (mls)
N. Y.	<u>Brucella abortus</u> diag. serum	300.0	-
	<u>Pasteurella tularensis</u> diag. serum	350.0	-
	<u>Proteus OX<sub>19</sub></u> diag. serum	300.0	-
Ohio	Typhoid O	125	(In proficiency tests)
	Typhoid H	125	(In proficiency tests)
	<u>Proteus OX<sub>19</sub></u>	125	(In proficiency tests)
	<u>Brucella abortus</u>	125	(In proficiency tests)
Pa.	Influenza A	429	-
	Influenza B	143	-
	Mumps	18	-
Texas	Syphilis Control, VDRL, Reactive	3,400	2,385
	Syphilis Control, VDRL, Weakly Reactive	1,000	485
	Syphilis Control, FTA-ABS	1,000	65
Wisc.	Coxsackie A <sub>1</sub> thru A <sub>8</sub> , A <sub>10</sub> thru A <sub>22</sub> & A <sub>24</sub>	*	-
	Coxsackie B <sub>3</sub>	*	-
	Echovirus 20 and 21	*	-
	Reovirus 1, 2, and 3	*	-

Control antisera prepared in mouse ascitic fluids, rabbits, or guinea pigs for use as controls in tests listed in Table 8-4 under "arbovirus antigens for HI and CF tests in microtiter plates."

## Absorbed Salmonella "H" antisera:

absorbed f	8	-
absorbed h	5	-
absorbed m	19	-
absorbed n	5	-
absorbed p	10	-
absorbed q	11	-
absorbed s	8.5	-
absorbed t	4	-
absorbed u	10	-
absorbed v	5	-
absorbed w	4	-
absorbed x	9	-
absorbed Z6	1	-
absorbed Z15	7	-
absorbed Z13	2	-
absorbed Z23	5	-
absorbed Z28	2	-
absorbed Z40	4	-
absorbed 2	5	-
absorbed 5	1	-
absorbed 6	1	-
absorbed 7	4.5	-

## Absorbed Salmonella "O" antisera:

Salmonella "O" 2	5	-
Salmonella "O" 7	7	-
Salmonella "O" 9	4	-
Salmonella "O" 10	6	-
Salmonella "O" 14	5	-
Salmonella "O" 15	10	-
Salmonella "O" 19	8	-
Salmonella "O" 20	10	-
Salmonella "O" 22	6	-
Salmonella "O" 23	1	-

TABLE 8-3. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTISERA

(Continued)

State	Amount Produced (in mls)	Amount Distributed to Other Laboratories (mls)
Salmonella "O" 24	3	-
Salmonella "O" 25	5	-
Salmonella "O" 27	5	-
Salmonella "O" 34	4	-
Salmonella "O" 36	4	-
Salmonella "O" 37	2	-
Salmonella "O" 46	2	-
Antisera for FA techniques:		
<u>Bordetella pertussis</u>	40	-
<u>Bordetella parapertussis</u>	40	-
<u>Bordetella bronchiseptica</u>	40	-
<u>Streptococcus pyogenes</u> (Group A)	80	-
<u>Streptococcus pyogenes</u> (Group B)	40	-
<u>Streptococcus pyogenes</u> (Group C)	40	-
<u>Streptococcus pyogenes</u> (Group G)	40	-
(Figures listed for each item represent the average yield of serum per rabbit.)		
Rhino T55	*	*
Influenza A <sub>2</sub>	*	*
Respiratory Syncytial	*	*
Herpes Simplex	*	*
Sendai	*	*
Rhino T50	*	*
Rhino T18	*	*
Rhino T9	*	*
Rhino T10	*	*
Rhino T54	*	*
Rhino T14	*	*
Rhino T47	*	*
Rhino T38	*	*
Rhino T43	*	*
Rhino T15	*	*
Rhino T37	*	*
Parainfluenza I	*	*
Parainfluenza II	*	*
Parainfluenza III	*	*
<u>Pasteurella pneumotropica</u>	*	*
ECHO II	*	*

TABLE 8-4. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTIGENS

State		Amount Produced (in mls)	Amount Distributed to Other Laboratories (mls)
Calif.	<u>Brucella abortus</u>	2,360	461
	<u>Salmonella paratyphi A</u>	-	1,125
	<u>Salmonella paratyphi B</u>	2,950	2,245
	<u>Salmonella typhi "H"</u>	-	1,505
	<u>Salmonella typhi "O"</u>	-	1,603
	<u>Pasteurella tularensis</u>	-	816
	<u>Treponema zuelzerai</u>	46 (packed cell vol.)	-
	<u>Treponema microdentium</u>	65 (packed cell vol.)	-
	<u>Treponema reiteri</u>	172 (packed cell vol.)	-
	<u>Treponema kazan</u>	53 (packed cell vol.)	-
Ga.	Rabid mouse brain for FA control	100	108
	Normal mouse brain for FA control	70	81
Hawaii	A <sub>2</sub> /Hawaii/68	25	-
	Rabies CVS	50	-
	Coxsackie B-4	50	-
	Coxsackie B-5	50	-
	ECHO-4	50	-
	ECHO-6	50	-
	ECHO-9	50	-
Ind.	Histo-yeast phase	230	-
La.	Hemolysin	500	150
Mich.	6 types	*	206
Minn.	( <u>S. typhi</u> flagellar)	650	-
Mo.	<u>Brucella abortus</u>	1,350	-
	<u>Pasteurella tularensis</u>	2,615	-
N. J.	INFA <sub>2</sub> (CF and HI)	250	-
	BFS (Calif.)	109	-
	Powassan	72	-
	M-65-1086 (Calif.)	150	-
	LAX (Calif.)	56	-
	NJ094F (Calif.)	85	-
N. Y.	VDRL Diluent	4,000.0	5.0
	Anti-sheep amboceptor	*	-
	Cardiolipin antigen for CF test	*	45.0
Ohio	Mumps-Soluble	150	-
	Mumps-Soluble-Control	150	-
	Influenza A-Soluble	200	60
	Influenza B-Soluble	200	60
	Measles, CF	20	-
	ECHO9, CF	20	-
Pa.	Influenza A	999	-
	Influenza B	220	-
	Mumps	284	-
	Parainfluenza 1	113	-
	Parainfluenza 2	135	-
	Polio III	30	-
	Vaccinia	122	-
Tenn.	Bacterial	840	-
Texas	VDRL	6,000	3,250

TABLE 8-4. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTIGENS  
(Continued)

State		Amount Produced (in mls)	Amount Distributed to Other Laboratories (in mls)	
Utah	<u>Brucella abortus</u>	5,000	-	
	<u>Pasteurella tularensis</u>	5,000	-	
	OX-19	1,000	-	
	<u>S. typhi</u> H and O	1,000	-	
	<u>S. para</u> B	1,000	-	
Wisc.	Influenza A <sub>2</sub> /Ga/1/67	200	-	
	Influenza B/Mass/3/66	120	-	
	Influenza A <sub>2</sub> /Taiwan/1/64	120	-	
	Measles (Rubeola)	40	-	
	Rubella	9	-	
	Parainfluenza 1	460	-	
	Parainfluenza 2	200	-	
	Parainfluenza 3	90	-	
	Respiratory Syncytial Virus	100	-	
	Herpes Simplex	135	-	
	Adenovirus Type 4	120	-	
	Polio Type I	50	-	
	Polio Type II	20	-	
	Polio Type III	20	-	
	Coxsackie B3	40	-	
	ECHO 1	40	-	
	ECHO 2	40	-	
	ECHO 3	40	-	
	ECHO 4	40	-	
	ECHO 5	40	-	
	ECHO 6	40	-	
	ECHO 7	40	-	
	ECHO 31	40	-	
	Rabies CVS-24	108	-	
	Rabies HK-106	144	-	
	Serology CF and HI antigens			
		Influenza A <sub>2</sub> /Hong Kong/8/68	*	-
		Influenza A <sub>2</sub> /Tokyo/3/67	*	-
		Influenza A <sub>2</sub> /Taiwan/1/64	*	-
		Influenza B/Mass/3/66	*	-
		Influenza B/Singapore/3/64	*	-
		Parainfluenza Type 1	*	-
		Parainfluenza Type II	*	-
		Parainfluenza Type III	*	-
		Adenovirus Type 7a Group (CF only)	*	-
		Respiratory Syncytial (CF only)	*	-
		Herpes Simplex (CF only)	*	-
		Mumps	*	-
		Measles	*	-
	Stock Viruses for Neutralization Tests:			
		Coxsackie B <sub>1</sub> thru B <sub>6</sub>	*	-
		Coxsackie A <sub>1</sub> thru A <sub>22</sub> and A <sub>24</sub>	*	-
		Echovirus 1 thru 22 and 25 thru 31	*	-
		Reovirus 1, 2, and 3	*	-
		Poliovirus 1, 2, and 3	*	-
		Adenovirus 1 thru 22 and 25 thru 27	*	-
		Herpes Simplex	*	-
		Respiratory Syncytial	*	-
		Parainfluenza 1, 2, and 3	*	-
		Newcastle Disease Virus (Roakin)	*	-
		Measles (Philadelphia)	*	-
		Measles (Edmonston)	*	-
		Mumps (Enders)	*	-
		Rubella (Gelchrist)	*	-



TABLE 8-4. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTIGENS  
(Continued)

State		Amount Produced (in mls)	Amount Distributed to Other Laboratories (in mls)
Wisc.	Rabies BHK 106 (tissue culture)	*	-
(Con'd.)	Rabies CVS 24-6	*	-
	Arbovirus antigens for HI and CF tests in Microtiter plates for:		
	Eastern encephalitis virus	*	-
	Western encephalitis virus	*	-
	St. Louis encephalitis virus	*	-
	Powassan encephalitis virus	*	-
	California encephalitis virus, La Crosse strain	*	-
	Other Calif. group viruses, including Trivittatus, snowshoe hare, and James- town Canyon strains.	*	-
	Wisconsin mosquito isolate 523, a Bunyamwera group virus, others including Cache Valley, Flanders, Buttonwillow, and Turlock arboviruses normal, uninfected, mouse brain control antigen.		
	Live arboviruses bottled for neutralization tests: 10% suspension of suckling mouse brain tissues, bottled and frozen in 0.5 ml. vials for each of the above arboviruses.		

TABLE 8-5. PRODUCTION OF DIAGNOSTIC REAGENTS: SOLUTIONS

State		Amount Produced (in mls)	Amount Distributed to Other Laboratories (in mls)
Ariz.	Media, Stains	2,045,662	-
	Control Sera	2,700	2,700
	PM Evaluation	43,500	43,500
	Microbiol. Eval. spec.	260	260
	Special Rabies Brain Suspension	640	-
Calif.	FADF Diluent	490	-
Ga.	Seller's Stain	4,000	1,200
Ill.	G. P. Complement	602	-
Ind.	Colloidal Gold	25,000	-
	Physiological Saline	300,000	-
	0.9% Saline	20,000	-
	Veronal Buffer Saline Base	8,000	-
La.	Normal Saline	25,000	15,000
	Distilled Water	300,000	285,000
	Ferric Chloride	500 btls.	450 btls.
	Copper Sulphate	1,000 btls.	625 btls.
	Phenol Red	30,000 btls.	16,123 btls.
N. J.	Borate Saline	12,000	-
	Borate with Bovine A	12,000	-
	D. G. V.	18,000	-
	A. C. D.	1,000	-
	25% Kaolin	3,000	-
	Adjusting Diluents	13,000	-
	NaCl (1.5M)	2,000	-
	Boric Acid (0.5M)	2,000	-
N. Y.	Colloidal Gold solution	300,000	-
	Buffer pH 7.4	70,000	-
	Buffer pH 5.5	6,000	-
	Protein standard for spinal fluid test	750	100
	Colloidal Gold test fluid	1,200	-
R. I.	Saline	4,000	-
S. C.	Drabkins	(Amt. Unknown)	-
Tenn.	Physiological Saline	316,050	-
	VDRL Saline	68,000	-
Texas	FTA-ABS Sorbent	3,508	2,137
	Sheep Blood	45,760	22,880
	VDRL Buffered Saline	40,800	34,785

FOOTNOTES. SECTION VII

- (a) Alabama distributed, but did not make, the following biologics: Typhoid Vaccine, 240 cc; Smallpox Vaccine, 68,170 points; Diphtheria toxoid, 475 cc.; Diphtheria - Tetanus toxoid, 14,115 cc. adult; 15,820 cc. Pediatrics; Diphtheria - Tetanus, Pertussis, 108,758 cc.; Tetanus toxoid, 44,812 cc.; Silver Nitrate, 13,100 Ampules; Measles Vaccine, 41,875 cc.; Sabin Tri-Valent Polio Vaccine, 185,910 cc.; Polio Vaccine (Salk), 8,973 cc.; Immune Globulin, 3,661 cc.; Schick Test, 700 tests; Tuberculin PPD, 68,680 tests; Cholera Vaccine, 140 cc.; Plain Tetanus toxoid, 135 cc.; and Diphtheria Anti-toxin, 73 packages.
- (b) No record kept.
- (c) No records kept of solutions prepared for clinics and branch laboratories.

SECTION IX

LABORATORY DATA PROCESSING

TABLE 9-1. CURRENT PREPARATION OF WORKLOAD REPORTS

<u>Reports of Laboratory Workload Statistics Prepared By:</u>			
	Electronic Data Processing (Computer)	Unit Record (Punch Card) Equipment	Longhand or Typewriter
Ala.	-	-	X
Alaska	-	-	X
Ariz.	-	-	X
Ark.	-	-	X
Cal.	-	-	X
Colo.	-	-	X
Conn.	*	*	*
Del.	-	-	X
D. C.	*	*	*
Fla.	X	-	X
Ga.	-	-	X
Hawaii	-	-	X
Ida.	-	-	X
Ill.	*	*	*
Ind.	-	-	X
Ia.	-	-	X
Kans.	-	X (a)	X
Ky.	-	-	X
La.	-	-	X
Me.	-	-	X
Md.	-	-	X
Mass.	-	-	X
Mich.	-	-	X
Minn.	-	-	X
Miss.	-	-	X
Mo.	-	-	X
Mont.	-	-	X
Nebr.	-	-	X
Nev.	*	*	*
N. H.	-	-	X
N. J.	X	X	X
N. M.	-	-	X
N. Y.	X	X	-
N. C.	-	X	X
N. D.	-	-	X
Ohio	-	-	X
Okla.	*	*	*
Ore.	-	-	X
Pa.	-	-	X
R. I.	-	-	X
S. C.	-	-	X
S. D.	*	*	*
Tenn.	-	-	X
Tex.	-	-	X
Utah	-	-	X
Vt.	-	X	-
Va.	-	-	X
Wash.	-	-	X
W. Va.	-	-	X
Wisc.	-	-	X
Wyo.	*	*	*
P. R.	-	-	X
V. I.	-	-	X

TABLE 9-2. AVAILABILITY AND LOCATION OF COMPUTER EQUIPMENT

	Type & Model of Computer Available	Computer Located:		Computer Under Direction of:		
		on Premises	off Premises	Laboratory	Health Department	Other
Ala.	-	-	-	-	-	-
Alaska	IBM360/40	-	X	-	-	X
Ariz.	*	-	X	-	X	-
Ark.	IBM360 Model 20	-	X	-	X	-
Cal.	RCA Spectra-70 Model 45	X	-	-	X	-
Colo.	Olivetti-desk	X	-	-	X	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	IBM1401	X	-	-	X	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	*	*	*	*	*	*
Ind.	IBM360-20	X	-	-	X	-
Ia.	(b)	-	-	-	-	X
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	IBM360 Model 20-12K	X	-	-	X	-
Me.	IBM360-40	-	X	-	-	X
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	RCA Spectra 70145F 4-Tape, 4-Disk	X	-	-	X	-
N. M.	-	-	-	-	-	-
N. Y.	Burroughs B3500	-	X	-	X	-
N. C.	IBM360	-	X	-	-	X
N. D.	-	-	-	-	-	-
Ohio	IBM360-30, 40, 50	-	X	-	-	X
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	IBM360-Model 30	-	X	-	X	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	*	-	X	-	X	-
W. Va.	-	-	-	-	-	-
Wisc.	IBM360/50 (c)	-	X	-	-	X
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 9-3. AVAILABILITY OF COMPUTER SPECIALISTS

	Specialist Available For:					
	Systems Analysis:			Programming:		
	Lab Staff	H D Staff	Other	Lab Staff	H D Staff	Other
Ala.	-	-	-	-	-	-
Alaska	-	X (d)	-	-	X (d)	-
Ariz.	-	X	-	-	-	-
Ark.	*	*	*	*	*	*
Cal.	-	X	-	-	X	-
Colo.	-	-	-	-	X	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	-	X	-	-	X	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	*	*	*	*	*	*
Ind.	-	X	-	-	X	-
Ia.	-	-	X	-	-	X
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	X	-	-	X	-
Me.	-	X	-	-	X	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	-	X	-	-	X	-
N. M.	-	-	-	-	-	-
N. Y.	-	X	-	-	X	-
N. C.	-	-	-	-	X	-
N. D.	-	-	-	-	-	-
Ohio	-	X	X	-	X	X
Okla.	*	*	*	*	*	*
Ore.	-	X	-	-	X	-
Pa.	-	-	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	X	-	-	X	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-
Wisc.	X	-	-	X	-	-
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 9-4. COMPUTER APPLICATIONS DURING FY 68

	Licensure or Registration	Diagnostic Reporting	Workload Statistics	Management Information	Purchasing	Personnel Records (incl. Salaries)	Radiological Health Calculations
Ala.	.	.	.	.	.	.	.
Alaska	.	.	.	.	.	X (e)	.
Ariz.	.	.	.	.	.	.	.
Ark.	.	.	.	.	.	.	.
Cal.	X	.	.	.	.	.	X
Colo.	.	.	.	.	X	X	.
Conn.	*	*	*	*	*	*	*
Del.	.	.	.	.	.	.	.
D. C.	*	*	*	*	*	*	*
Fla.	.	.	.	.	.	.	.
Ga.	.	.	.	.	.	.	.
Hawaii	.	.	.	.	.	.	.
Ida.	.	.	.	.	.	.	.
Ill.	X	.	X	.	.	X	.
Ind.	.	.	.	X	.	.	.
Ia.	.	.	.	.	X	X	.
Kans.	.	.	.	.	.	.	.
Ky.	.	.	.	.	.	.	.
La.	.	.	.	.	X	X	.
Me.	.	.	.	.	.	.	.
Md.	.	.	.	.	.	.	.
Mass.	.	.	.	.	.	.	.
Mich.	.	.	.	.	.	.	.
Minn.	.	.	.	.	.	.	.
Miss.	.	.	.	.	.	.	.
Mo.	.	.	.	.	.	.	.
Mont.	.	.	.	.	.	.	.
Nebr.	.	.	.	.	.	.	.
Nev.	*	*	*	*	*	*	*
N. H.	.	.	.	.	.	.	.
N. J.	.	.	.	.	.	X	.
N. M.	.	.	.	.	.	.	.
N. Y.	X	X	.	.	.	.	X
N. C.	.	.	X (f)	.	.	.	.
N. D.	.	.	.	.	.	.	.
Ohio	.	.	.	.	X	X	.
Okla.	*	*	*	*	*	*	*
Ore.	.	.	.	.	.	.	.
Pa.	.	.	.	.	.	.	.
R. I.	.	.	.	.	.	.	.
S. C.	.	.	.	.	.	.	.
S. D.	*	*	*	*	*	*	*
Tenn.	.	.	.	.	.	.	.
Tex.	.	.	.	.	.	.	.
Utah	.	.	.	.	.	.	.
Vt.	.	.	.	.	.	.	.
Va.	.	.	.	.	.	.	.
Wash.	.	.	.	.	.	.	.
W. Va.	.	.	.	.	.	.	.
Wisc.	.	.	X	X	.	.	.
Wyo.	.	.	.	.	.	.	.
P. R.	.	.	.	.	.	.	.
V. I.	.	.	.	.	.	.	.



TABLE 9-4. COMPUTER APPLICATIONS DURING FY 68  
(Continued)

	Supply Inventory	Environmental Health Reporting	Biologics Production and Distribution	Clinical Chemistry Calculations	Control of Instruments	Other
Ala.	.	.	.	.	.	.
Alaska	.	.	.	.	.	.
Ariz.	.	.	.	.	.	.
Ark.	.	.	.	.	.	.
Cal.	.	.	.	.	.	X (g)
Colo.	.	.	.	X	.	.
Conn.	*	*	*	*	*	*
Del.	.	.	.	.	.	.
D. C.	*	*	*	*	*	*
Fla.	.	.	.	.	.	.
Ga.	.	.	.	.	.	.
Hawaii	.	.	.	.	.	.
Ida.	.	.	.	.	.	.
Ill.	.	.	.	.	.	.
Ind.	X	.	.	.	.	.
Ia.	.	.	.	.	.	.
Kans.	.	.	.	.	.	.
Ky.	.	.	.	.	.	.
La.	.	.	.	.	.	.
Me.	.	.	.	.	.	.
Md.	.	.	.	.	.	.
Mass.	.	.	.	.	.	.
Mich.	.	.	.	.	.	.
Minn.	.	.	.	.	.	X (h)
Miss.	.	.	.	.	.	.
Mo.	.	.	.	.	.	.
Mont.	.	.	.	.	.	.
Nebr.	.	.	.	.	.	.
Nev.	*	*	*	*	*	*
N. H.	.	.	.	.	.	.
N. J.	.	X	.	.	.	.
N. M.	.	.	.	.	.	.
N. Y.	.	.	.	X	X	.
N. C.	.	.	.	.	.	.
N. D.	.	.	.	.	.	.
Ohio	.	X	X	.	.	.
Okla.	*	*	*	*	*	*
Ore.	.	.	.	.	.	.
Pa.	.	.	.	.	.	.
R. I.	.	.	.	.	.	.
S. C.	.	.	.	.	.	.
S. D.	*	*	*	*	*	*
Tenn.	.	.	.	.	.	.
Tex.	.	.	.	.	.	.
Utah	.	.	.	.	.	.
Vt.	.	.	.	.	.	.
Va.	.	.	.	.	.	.
Wash.	.	.	.	.	.	.
W. Va.	.	.	.	.	.	.
Wisc.	.	X	.	.	.	.
Wyo.	.	.	.	.	.	.
P. R.	.	.	.	.	.	.
V. I.	.	.	.	.	.	.

TABLE 9-5. COMPUTER APPLICATIONS DURING FY 69

	Licensure or Registration	Diagnostic Reporting	Workload Statistics	Personnel Records (incl. Salaries)	Management Information	Radiological Health Calculations	Other
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	X	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	-	X (i)	X (1)	-	X (1)	-	-
Colo.	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	X	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	X	-	X	X	-	-	X (j)
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	X	-
N. M.	-	-	-	-	-	-	-
N. Y.	X	X	-	-	-	X	X (k)
N. C.	-	-	X	-	-	X	-
N. D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-
R. I.	-	-	-	-	-	-	-
S. C.	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W. Va.	-	-	-	-	X	-	-
Wisc.	-	-	X	-	-	-	-
Wyo.	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-

TABLE 9-6. COMPUTER APPLICATIONS CONSIDERED FOR FUTURE

	Licensure or Registration	Diagnostic Reporting	Workload Statistics	Management Information	Purchasing	Personnel Records (incl. Salaries)	Radiological Health Calculations	Supply Inventory
Ala.	-	-	-	-	-	-	-	-
Alaska	-	X	-	-	-	-	-	-
Ariz.	X	X	X	X	X	-	-	X
Ark.	X	X	X	X	-	-	-	-
Cal.	-	X (1)	X (1)	X (1)	-	-	-	-
Colo.	X	-	X	-	-	X	-	X
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	X (m)	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	X
Ill.	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	X	X	-	-	X	-	X
Kans.	X	-	X	-	X	-	-	X
Ky.	-	-	X	-	-	-	-	X
La.	-	X	X	X	-	-	-	X
Me.	-	-	X	X	X	-	-	X
Md.	X	X	X	X	-	X	X	X
Mass.	-	X	X	-	X	-	-	X
Mich.	X	X	X	-	X	X	-	X
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H. (n)	-	-	-	-	-	-	-	-
N. J.	X	X	X	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-
N. Y.	-	-	X	X	X	X	-	X
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	X	X	X	-	-	-	X	-
Okla.	*	*	*	*	*	*	*	*
Ore.	-	X	X	-	-	-	-	X
Pa.	-	X	X	X	X	X	-	X
R. I.	-	-	-	-	-	-	-	-
S. C.	-	X	X	X	X	X	-	X
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	X	X	-	-	X	-	X
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va. (o)	-	-	-	-	-	-	-	-
Wisc.	-	X	X	X	-	-	-	X
Wyo.	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-

TABLE 9-6. COMPUTER APPLICATIONS CONSIDERED FOR FUTURE  
(Continued)

	Blood Bank	Preventive Maintenance	Training	Environmental Health Reporting	Biologics Production and Distribution	Clinical Chemistry Calculations	Control of Instruments	Other
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	X	X	-	-	-
Ariz.	-	-	-	X	-	-	-	-
Ark.	-	-	-	-	-	X	-	-
Cal.	-	-	-	-	-	-	-	-
Colo.	-	X	-	-	-	-	X	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	X	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	X	-	X	-	-
Kans.	-	X	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	-	-	-	X	-	X	X	X (p)
Mass.	-	X	-	X	X	-	X	-
Mich.	X	-	-	-	X	X	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-
N. Y.	X	X	X	X	X	-	-	-
N. C.	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	X	X	-
Okla.	*	*	*	*	*	*	*	*
Ore.	-	-	-	X	-	-	-	-
Pa.	-	X	X	-	-	X	X	-
R. I.	-	-	-	-	-	-	-	-
S. C.	-	X	-	X	-	X	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	X	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	-	-	-	X	-	X	X	-
Wyo.	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-

FOOTNOTES. SECTION IX

- (a) Syphilis serology proficiency testing and water bacteriology.
- (b) Laboratory is part of the University and has access to the University Computer Center.
- (c) A LINK-8 is on order. It will be located on premises, and be under the direction of the laboratory.
- (d) FY 1969.
- (e) Department of Administration.
- (f) PKU only.
- (g) Atmospheric Hydrocarbon Monitoring Calculations and Intra-state STS Proficiency Testing Program.
- (h) Proficiency testing.
- (i) Viral and Rickettsial Disease Laboratory.
- (j) Time-activity Study.
- (k) Environmental Health, Clinical Chemistry Calculations, and Control of Instruments.
- (l) Microbial Diseases Laboratory.
- (m) Tuberculosis.
- (n) State is in process of setting up a computer center for all departments. A Director and staff have been hired, but all equipment has not been received.
- (o) Central electronic computer for handling data from all State Departments projected for State of West Virginia.
- (p) Public Health Statistics.

SECTION X

PHENYLKETONURIA SCREENING PROGRAM

TABLE 10-1. ESTABLISHMENT OF PHENYLKETONURIA SCREENING PROGRAM

	No Program	No Program, But bill being Drafted	Voluntary Program	Mandatory Program	Date Testing Program Began
Ala.	-	-	-	X	Nov. 1964
Alaska	-	-	-	X (a)	(a)
Ariz.	X	X (b)	-	-	-
Ark.	-	(c)	X	-	July 1964
Cal.	-	-	-	X	Jan. 1966
Colo.	-	-	-	X	July 1967
Conn.	*	*	*	*	*
Del.	-	-	X	-	Aug. 1962
D. C.	*	*	*	*	*
Fla.	-	-	X	-	Fall 1964
Ga.	-	-	-	X	Dec. 1962
Hawaii	-	-	-	X	May 1966
Ida.	-	-	-	X	Oct. 1962 (d)
Ill.	*	*	*	*	*
Ind.	-	-	X	-	-
Ia.	-	-	-	X	July 1966
Kans.	-	-	-	X	July 1965
Ky.	-	-	-	X	July 1966 (e)
La.	-	-	-	X	Oct. 1965
Me.	-	-	-	X	Oct. 1962
Md.	-	-	-	X	1965
Mass.	-	-	-	X	July 1962
Mich.	-	-	-	X	Sept. 1962
Minn.	-	-	-	X	Aug. 1964
Miss.	X	-	-	-	-
Mo.	-	-	-	X	Oct. 1965
Mont.	-	-	-	X	Mar. 1965 (f)
Nebr.	-	-	-	X	Oct. 1967
Nev.	*	*	*	*	*
N. H.	-	-	-	X	June 1965
N. J.	-	-	-	X	Mar. 1964
N. M.	-	-	X	-	1961
N. Y.	-	-	-	X	Jan. 1965
N. C.	-	-	X	-	July 1965
N. D.	-	-	-	X	July 1967 (g)
Ohio	-	-	-	X	Jan. 1964 (h)
Okla.	*	*	*	*	*
Ore.	-	-	-	X	Apr. 1962
Pa.	-	-	-	X	1965
R. I.	-	-	-	X	Feb. 1964
S. C.	-	-	-	X	1963
S. D.	*	*	*	*	*
Tenn.	-	-	-	X	July 1968
Tex.	-	-	-	X	*
Utah	-	-	-	X	Aug. 1965
Vt.	-	-	X	-	*
Va.	-	-	-	X	*
Wash.	-	-	X (i)	-	May 1963
W. Va.	-	-	-	X	July 1965
Wisc.	-	-	-	X	Jan. 1966
Wyo.	-	-	X	-	Jan. 1967
P. R.	X	-	-	-	-
V. I.	-	-	-	X	1965

TABLE 10-1. ESTABLISHMENT OF PKU SCREENING PROGRAM  
(Continued)

	Division Responsible for Establishment of Program			Rules and Regulations Have Been Estab. by Designated Agency
	Laboratory	Maternal & Child Health	Other	
Ala.	X	-	-	X
Alaska	X	-	-	X
Ariz.	-	-	-	-
Ark.	X	X	-	X
Cal.	-	X	-	X
Colo.	X	X	-	X
Conn.	*	*	-	*
Del.	-	X	-	-
D. C.	*	*	-	*
Fla.	X	X	-	X
Ga.	X	X	-	X
Hawaii	-	X	-	-
Ida.	-	-	X (j)	X
Ill.	*	*	*	*
Ind.	-	X	-	X (k)
Ia.	-	X	-	X
Kans.	-	X	-	X
Ky.	-	X	-	X
La.	X	-	-	X
Me.	X	-	-	X
Md.	-	-	X (j)	X
Mass.	X	-	-	-
Mich.	X	-	-	X
Minn.	X	X	-	X
Miss.	-	-	-	-
Mo.	-	X	-	X
Mont.	-	X	-	X
Nebr.	X	X	-	X (l)
Nev.	*	*	*	*
N. H.	X	-	-	X
N. J.	-	X	-	X
N. M.	X	-	-	*
N. Y.	-	X	-	X
N. C.	-	-	-	-
N. D.	-	X	-	X
Ohio	X	-	-	X
Okla.	*	*	*	*
Ore.	-	X	-	X
Pa.	-	X	-	*
R. I.	X	-	-	X
S. C.	-	X	-	X
S. D.	*	*	*	*
Tenn.	-	-	X (m)	X
Tex.	X	X	-	X
Utah	-	-	X (n)	X
Vt.	-	X	-	*
Va.	-	X	-	*
Wash.	-	-	X (o)	X
W. Va.	X	-	-	X
Wisc.	-	-	X (p)	X
Wyo.	-	X	-	-
P. R.	-	-	-	-
V. I.	X	X	-	-



TABLE 10-1. ESTABLISHMENT OF PKU SCREENING PROGRAM  
(Continued)

Impact of Program on:			
	Budget	Space	Personnel
Ala.	30,000	crowded	Three additional
Alaska	Increased	-	Employment problem
Ariz.	-	-	-
Ark.	19,300	-	One Microbiologist I
Cal.	16,000	150 sq. ft.	Two positions
Colo.	Increased	-	One Additional Microbiologist
Conn.	*	*	*
Del.	Included in lab funds	Part of a room assigned	1 Technician rotated quarterly
D. C.	*	*	*
Fla.	Increased	-	Two Additional Employees
Ga.	30-40,000	400 sq. ft.	Four Additional Employees
Hawaii	-	-	-
Ida.	10,000 increase	No major problem	No major problem
Ill.	*	*	*
Ind.	-	-	-
Ia.	6,000	81 sq. ft. additional required	1,000 manhours per year
Kans.	27,465	Incl. with Special & Reference Bact.	Four additional (q)
Ky.	No problem	No problem	No problem
La.	No extra funds allotted	Limited amount	Limited amount
Me.	(r)	Integrated with other activities	One
Md.	20,450	117 sq. ft.	Two (s)
Mass.	159,320 (t)	1552 sq. ft. converted from storage	17 additional
Mich.	Funds appropriated by Legislature	Space in another lab authorized	3 lab technicians under supervision of a scientist
Minn.	29,759	150 sq. ft.	3 (u)
Miss.	-	-	-
Mo.	Funds for salaries, supplies, reagents	-	3 (v)
Mont.	(w)	-	-
Nebr.	18,000	Very little	One part-time microbiologist
Nev.	*	*	*
N. H.	5,600 (excluding salary)	130 sq. ft.	one
N. J.	-	-	-
N. M.	One funded position and supplies	150 sq. ft.	1½
N. Y.	-	700 sq. ft.	10
N. C.	*	*	*
N. D.	3,108	100 sq. ft.	Part-time person
Ohio	97,774 (t)	Additional space outside facility needed	6 additional
Okla.	*	*	*
Ore.	*	*	*
Pa.	110,000 increase	800 sq. ft. (2 lab units)	Increase of 9 persons
R. I.	Little	Lab estab. in clinic room in basement	Two new positions (t)
S. C.	Funds for personnel and supplies allocated	400 sq. ft.	1 Technologist, 1 stenographer
S. D.	*	*	*
Tenn.	-	-	-
Tex.	Special budget item	Adequate	Added
Utah	-	-	-
Vt.	*	*	*
Va.	Supplies and salaries furnished by MCH	-	4 technicians added
Wash.	7,550 (x)	one 12'x18' room devoted to PKU	3½ mandays per week
W. Va.	-	-	-
Wisc.	10,000	192 sq. ft.	one
Wyo.	-	-	-
P. R.	-	-	-
V. I.	-	more space needed	-

FOOTNOTES. TABLE 10-1

- (a) The program will be placed in operation as soon as microbiologist can be hired. Bill passed in 1967 session of Legislature but not funded until FY 1969.
- (b) Submitted in Legislature - Program would be handled by Division of Maternal and Child Health.
- (c) Legislature adopted legislation allowing the State Board of Health to require PKU exams before issue of a birth certificate, but State Board of Health has not adopted the legislation or drawn regulations.
- (d) Mandatory program began May 1965. Field trial was continuous from Oct. 1962.
- (e) Mandatory date. Voluntary program began December 1965.
- (f) Program first started August 1962.
- (g) Mandatory date, preceded by two-year voluntary period.
- (h) Field trial October 1962 - December 1963.
- (i) All positives must be reported to the State Department of Health.
- (j) Division of Mental Retardation.
- (k) Policy only.
- (l) Guidelines only.
- (m) Bureau of Family Health Services.
- (n) Bureau of Special Health Services.
- (o) Division of Health Services.
- (p) Laboratory Evaluation Section, State Division of Health.
- (q) Bacteriologist I, Chemist I, Technical Assistant I, and Clerk-Typist I.
- (r) Maternal and Child Health provides \$5,968 per year to laboratory for technicians; all other costs borne by general laboratory funds.
- (s) For PKU and Maple Sugar Urine Disease.
- (t) MCH funds.
- (u) Bacteriologist, Medical Laboratory Assistant and Clerk-Typist.
- (v) Two microbiologists, one typist.
- (w) All costs paid by MCH. In 1968, this was \$7,930.
- (x) Plus additional costs of mailing, glassware washing, handling, etc.

TABLE 10-2. NUMBER AND TYPES OF LABORATORIES PERFORMING SCREENING TESTS

	Total No. of Labs Performing Tests Routinely	Breakdown by Type of Laboratory:				
		State PH	City PH	County PH	Hospital	Indep. Clinical
Ala.	1	1	-	-	-	-
Alaska	1	(a)	-	-	-	1
Ariz.	31 (b)	-	-	-	31	-
Ark.	40	1	-	-	38	1
Cal.	164 (c)	(d)	-	11	110	39
Colo.	11	1	-	-	10	-
Conn.	*	*	*	*	*	*
Del.	1	1	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	2	2	-	-	-	-
Ga.	*	4	-	-	*	*
Hawaii	3	-	-	-	2	1
Ida.	3	1	-	-	2	-
Ill.	*	3	*	*	*	*
Ind.	103	-	-	(e)	103 (f)	(f)
Ia.	27	1	-	-	22	4
Kans.	16	1	-	-	15	-
Ky.	1	1	-	-	*	-
La.	2 (g)	2	-	-	(g)	-
Me.	1	1	-	-	-	-
Md.	2	1	-	-	1	-
Mass.	1	1	-	-	-	-
Mich.	35	1	-	-	34	-
Minn.	1 (h)	1	-	-	*	*
Miss.	-	-	-	-	-	-
Mo.	12	1	1	-	9	1
Mont.	4	1	-	-	3	-
Nebr.	1 (i)	1	-	-	*	*
Nev.	*	*	*	*	*	*
N. H.	1	1	-	-	-	-
N. J.	6	1	-	-	5	-
N. M.	5	3	-	-	2	-
N. Y.	4	1	2	1	-	-
N. C.	1	1	-	-	-	-
N. D.	1	1	-	-	-	-
Ohio	6	1	-	-	5	-
Okla.	*	*	*	*	*	*
Ore.	74	1	-	-	73	-
Pa.	73	1	-	-	72	-
R. I.	1	1	-	-	-	-
S. C.	1	1	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	1	1	-	-	-	-
Tex.	*	1	-	-	*	*
Utah	10	-	-	-	10	-
Vt.	1	-	-	-	1	-
Va.	3	3	-	-	-	-
Wash.	65 (j)	1	-	2	29	8
W. Va.	15	1	-	-	14 (k)	-
Wisc.	88	-	-	-	82	6
Wyo.	4	-	-	-	2	2
P. R.	-	-	-	-	-	-
V. I.	1	1	-	-	-	-

TABLE 10-3. NUMBER AND TYPES OF LABORATORIES PARTICIPATING IN AN APPROVAL PROGRAM

	Total No. of Labs Participating	Breakdown by Type of Laboratory:				
		State PH	City PH	County PH	Hospital	Indep. Clinical
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	164 (c)	-	-	11	110	39
Colo.	11	1	-	-	10	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	-	-	-	-	-	-
Ga.	7	4	-	1	1	1
Hawaii	-	-	-	-	-	-
Ida.	2	-	-	-	2	-
Ill.	*	3	*	*	*	*
Ind.	-	-	-	-	-	-
Ia.	27	1	-	-	22	4
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	2	2	-	-	-	-
Me.	-	-	-	-	-	-
Md.	2	1	-	-	1	-
Mass.	-	-	-	-	-	-
Mich.	34	-	-	-	34	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	12	1	1	-	9	1
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	6	1	-	-	5	-
N. M.	-	-	-	-	-	-
N. Y.	1	1	-	-	-	-
N. C.	-	-	-	-	-	-
N. D.	-	-	-	-	-	-
Ohio	6	1	-	-	5	-
Okla.	*	*	*	*	*	*
Ore.	74	1	-	-	73	-
Pa.	1	1	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	1	1	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	10	-	-	-	10	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W. Va.	1	1	-	-	-	-
Wisc.	84 (1)	-	-	-	81	3
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 10-4. SCREENING METHODS USED BY TYPE OF LABORATORY (m)

	State	City	County	Hospital	Indep. Clinical
Ala.	G	-	-	-	-
Alaska	-	-	-	-	G
Ariz.	-	-	-	G, F, PC	-
Ark.	G	-	-	G-27, U-11	G
Cal.	-	-	F-6, G-5	G-64, F-33, Both-13	G-26, F-9, Both-4
Colo.	G	-	-	G-6, F-4	-
Conn.	*	*	*	*	*
Del.	G	-	-	-	-
D. C.	*	*	*	*	*
Fla.	G	-	-	-	-
Ga.	G	-	-	G	G
Hawaii	-	-	-	G-2	F
Ida.	G	-	-	G	-
Ill.	G	*	*	*	*
Ind.	-	-	-	*	*
Ia.	G	-	-	G-17, F(Man.)-5	G-2, F(Man.)-2
Kans.	G	-	-	G and/or F	-
Ky.	G	-	-	-	-
La.	G	-	-	-	-
Me.	G	-	-	-	-
Md.	G	-	-	G	-
Mass.	G	-	-	-	-
Mich.	G	-	-	*	-
Minn.	G	-	-	*	*
Miss.	-	-	-	-	-
Mo.	MG	MG	-	MG	MG
Mont.	*	-	-	*	-
Nebr.	G	-	-	*	*
Nev.	*	*	*	*	*
N. H.	G	-	-	-	-
N. J.	G	-	-	G	-
N. M.	*	-	-	*	-
N. Y.	G	G	G	-	-
N. C.	F(Hill)	-	-	-	-
N. D.	G	-	-	-	-
Ohio	G, PC	-	-	-	MG-2, F-3
Okla.	*	*	*	*	*
Ore.	G, PC	-	-	-	G, PC
Pa.	G	-	-	G-59, F-13	-
R. I.	G, PC	-	-	-	-
S. C.	G	-	-	-	-
S. D.	*	*	*	*	*
Tenn.	G	-	-	-	-
Tex.	G	-	-	*	*
Utah	-	-	-	G	-
Vt.	-	-	-	G	-
Va.	G	-	-	-	-
Wash.	G	-	G, FC	All Methods	G, F, P
W. Va.	F(Hill)	-	-	G, F	-
Wisc.	-	-	-	G-71, Q-11	G-5, Q-1
Wyo.	-	-	-	G-1, PC-1	G-1, PC-1
P. R.	-	-	-	-	-
V. I.	G	-	-	-	-

TABLE 10-5. CONFIRMATORY TESTS PERFORMED BY OR FOR STATE LABORATORY (m)

State	Confirmatory Test Used By State Lab	Laboratory Performing Confirmatory Test for State Lab	Approximate Percentage of All Newborns Receiving Follow-up Tests %
Ala.	F, PC	-	75.0
Alaska	-	-	- (n)
Ariz.	-	-	-
Ark.	-	U. of Ark. Medical Center	10.0
Cal.	-	-	10-20
Colo.	-	Metabolic Lab, U. of Colo.	<1.0
Conn.	*	*	*
Del.	- (o)	Guthrie Lab, Buffalo, N.Y.	80.0
D. C.	*	*	*
Fla.	F	-	0.7
Ga.	F, PC	-	<1.0 (p)
Hawaii	-	Children's Hospital, San Francisco, Calif.	20.0
Ida.	F, PC, AA	-	2-3
Ill.	L	-	*
Ind.	-	-	*
Ia.	F(Man.)	(Also performed in approved labs)	*
Kans.	F	-	0.4
Ky.	*	(q)	*
La.	F	-	*
Me.	F, PC	-	80.0
Md.	-	Rosewood State Hospital Research Lab and the Johns Hopkins Hospital	0.1
Mass.	PC, AA	-	5.0 (r)
Mich.	-	Clinical Lab, U. of Mich. Medical Center	.05 (s)
Minn.	PC (t)	-	*
Miss.	-	-	-
Mo.	F	-	*
Mont.	-	Pediatric Biochem. Lab, U. of Colorado	*
Nebr.	-	U. of Nebr. College of Medicine	*
Nev.	*	*	*
N.H.	-	Mass. Dept. of Public Health	30.0
N. J.	F, L	-	0.2
N. M.	-	U. of Colo. School of Medicine	*
N. Y.	F	-	0.1
N. C.	F	(Evaluation Clinics throughout State)	*
N. D.	-	Dept. of Biochem., U. of N.D. School of Medical Science	.01
Ohio	F, PC	-	1.0
Okla.	*	*	*
Ore.	F, AA, O (u)	-	84.5
Pa.	F	-	-
R. I.	F	-	85.0
S. C.	F	-	10.0
S. D.	*	*	*
Tenn.	-	Industrial Hygiene Lab	*
Tex.	F	-	*
Utah	-	-	*
Vt.	-	-	*
Va.	F (v)	-	<1.0
Wash.	F	Further tests at Children's Orthopedic Hosp., Seattle	*
W. Va.	F(Hill)	-	10.0
Wisc.	F (v)	Also Kennedy Research Labs & U. Hospital	100
Wyo.	-	U. of Colo. Medical Center	-
P. R.	-	-	-
V. I.	-	NCDC	-

FOOTNOTES. TABLES 10-2 - 10-5

- (a) Planned for State Laboratory. Guthrie Screening Test and Fluorometric Confirmatory will be used. Equipment is on order.
- (b) 23 handle routinely, 8 available if desired.
- (c) Includes 4 U.S. Armed Service Laboratories not shown in further breakdown. Screening Methods used by these 4 laboratories are as follows: Guthrie - 2; McCaman-Robins - 1; Both - 1.
- (d) State Laboratory does evaluations and consultations.
- (e) Two send Phenistix to family.
- (f) Estimated total hospital and independent clinical laboratories performing PKU tests.
- (g) Some hospitals do their own testing. Number and method used is unknown.
- (h) Information not known for hospital and independent clinical.
- (i) Unknown for hospital and IC. A revision of the "PKU" law is currently before the Legislature. If it is passed, there will be regulatory authority to approve laboratories, allow performance evaluations, and otherwise regulate and receive better reports from all laboratories.
- (j) Includes 25 "other" laboratories, using Phenistix and Ferric Chloride.
- (k) 65 hospital laboratories referred their PKU specimens to State Hygienic Laboratory.
- (l) Laboratories directed by a pathologist are not required to participate.
- (m) Code: G - Guthrie; MG - Modified Guthrie; F - Fluorometric (McCaman-Robins); PC - Paper Chromatography; FC - Ferric Chloride; Q - Quantitative, U - Urine; P - Phenistix; L - LaDu; AA - Automatic Amino Acid analysis; O - Other.
- (n) Second specimen will be requested.
- (o) Repeat test to verify.
- (p) A follow-up of 75% of presumptive positives is obtained. Since 0.7% specimens show 4 mg.% or greater phenylalanine, this means approximately three-fourths of 1% are tested on follow-up.
- (q) Follow-up reports on all presumptive positives are requested by the State Laboratory to be retested. If all presumptive positives after retesting are still positive, patient is referred to the University of Kentucky Medical Center, and University of Louisville Medical Center.
- (r) Since January 1968; prior to that date 85-90%.
- (s) This is percentage receiving follow-up tests if tests performed at the Bureau of Laboratories. If tests performed in hospitals 0.1% receive follow-up tests.
- (t) On blood and urine.
- (u) "Other" represents loading test on parents.
- (v) CDC modification.

SECTION XI

ADDITIONAL PERSONNEL INFORMATION



TABLE 11-1. PERSONNEL POLICIES

	Individual Must Be Resident of State Prior to Employment		Length of Residency Required	Employee Must be Resident of State During Employment		Normal Workweek (hours)	Special Conditions Relating to Work Hours
	Yes	No		Yes	No		
Ala.	-	X	-	-	X	40	-
Alaska	-	X (a)	-	X (b)	-	37½	-
Ariz.	-	X	-	X	-	40	personnel req. to work weekends every 6-8 weeks get equal time off
Ark.	-	X	-	-	X	40	0/T authorized for excessive workload
Cal.	(c)	(c)	(c)	X	-	40	-
Colo.	X (d)	-	(c)	X	-	37½	-
Conn.	*	*	*	*	*	*	*
Del.	-	X	-	-	X	35	-
D. C.	*	*	*	*	*	*	*
Fla.	-	X	-	X	-	40	-
Ga.	-	X	-	-	X	40	-
Hawaii	X	-	3 yrs.	X	-	40	-
Ida.	-	X	-	X (e)	-	40	-
Ill.	X	-	1 yr. (f)	-	X	41	-
Ind.	-	X	-	X	-	37½	-
Ia.	-	X	-	-	X	40	-
Kans.	X (g)	-	*	X	-	40	-
Ky.	-	X	-	-	X	37½	-
La.	-	X	-	-	X	40	-
Me.	X (h)	-	-	X	-	40	-
Md.	-	X	-	-	X	35½	-
Mass.	X (i)	-	1 yr.	X	-	37½	-
Mich.	-	X	-	-	X	40	-
Minn.	-	X (j)	-	X	-	*	-
Miss.	-	X	-	-	X	37½	-
Mo.	-	X (k)	(k)	X (l)	-	40	-
Mont.	-	X	-	X	-	40	-
Nebr.	-	X	-	X (m)	-	40	-
Nev.	*	*	*	*	*	*	*
N. H.	-	X	-	-	X	37½	-
N. J.	X	-	1 yr. (n)	X	-	35	During summer months 32½
N. M.	-	X (o)	(o)	X	-	40	-
N. Y.	-	X	-	-	X	37½	Some in labor class work 40/hrs/wk
N. C.	-	X	-	-	X	40	-
N. D.	-	X	-	X	-	40	-
Ohio	-	X	-	X	-	40	-
Okla.	*	*	*	*	*	*	*
Ore.	-	X	-	X	-	40	Alternate 44 & 36 hr/wks - 2 workers on Sunday
Pa.	-	X	-	X	-	37½	-
R. I.	X	-	-	X	-	35 (p)	8:30 - 4:30 - hour for lunch
S. C.	-	X	-	-	X	37	9-5 Mon. - Fri. 9-1 one Sat./mon.
S. D.	*	*	*	*	*	*	*
Tenn.	-	X	-	X	-	40	-
Texas	-	X	-	X	-	40	-
Utah	-	X	-	-	X	40	-
Vt.	-	X (q)	-	-	X	37½	8-12; 1-4:30
Va.	-	X	-	-	X	40	-
Wash.	-	X	-	-	X	40	-
W. Va.	-	X	-	X	-	38	7 hrs/da. and 3 hrs. Sat.

TABLE 11-1. PERSONNEL POLICIES  
(Continued)

	<u>Individual Must Be Resident of State Prior to Employment</u>		Length of Residency Required	<u>Employee Must be Resident of State During Employment</u>		Normal Workweek (hours)	Special Conditions Relating to Work Hours
	<u>Yes</u>	<u>No</u>		<u>Yes</u>	<u>No</u>		
Wisc.	X	-	1 yr. (r)	X	-	40	-
Wyo.	-	X	-	X	-	37½	-
P. R.	-	X	-	X	-	37½	-
V. I.	-	X	-	X	-	40	-

TABLE 11-1. PERSONNEL POLICIES  
(Continued)

	Personnel Required to Work Overtime Compensated by:			Overtime Pay Applies to:		Rate of Overtime Pay
	Overtime Pay	Time Off	Both	All levels of Employees	Only as High as Level:	
Ala.	-	X	-	-	-	-
Alaska	-	-	X	-	Tech. Assts. & Clerical	Straight Time
Ariz.	-	X	-	-	-	-
Ark.	-	X	-	-	-	-
Cal.	(s)	-	-	-	-	(s)
Colo.	-	-	X	-	Grade 18	1½ Times
Conn.	*	*	*	*	*	*
Del.	-	X	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	-	X	-	-	-	-
Ga.	-	X	-	-	-	-
Hawaii	-	-	X	-	SR-28	1½ up to SR-20
Ida.	-	-	X	-	Professional Level	Straight Time (t)
Ill.	-	X	-	-	-	-
Ind.	-	X	-	-	-	-
Ia.	-	X	-	-	-	-
Kans.	-	X	-	-	-	-
Ky.	-	X	-	-	-	-
La.	-	X	-	-	-	-
Me.	-	X	-	-	-	-
Md.	-	X	-	-	-	-
Mass.	X	X (u)	-	-	(Certain positions exempted)	1½ over 40 hrs - Str. Time 37½-40 09 Inclusive
Mich.	X	-	-	-	Med. Lab Asst.	Varies with pos. 1½
Minn.	-	-	X	-	-	-
Miss.	-	X	-	-	-	-
Mo.	-	X	-	-	-	-
Mont.	-	X	-	-	-	-
Nebr.	-	X	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	X	-	-	-	-
N. J.	-	-	X	-	Senior Level	1½
N. M.	-	X	-	-	-	-
N. Y.	-	-	X	-	G-22	1½
N. C.	-	X	-	-	-	-
N. D.	-	X	-	-	-	-
Ohio	-	-	X	-	\$9,000/yr. level	Straight Time
Okla.	*	*	*	*	*	*
Ore.	-	-	X	-	Lab Asst.	*
Pa.	-	-	X	-	To Prof. Level	Reg. Pay Sched.
R. I.	-	-	X	X	(All levels of standard employees)	1½
S. C.	-	X	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	X	-	-	-	-
Tex.	-	-	X	-	Sub-prof. level	1½
Utah	-	X	-	-	-	-
Vt.	-	X	-	-	-	-
Va.	-	X	-	-	-	-
Wash.	X	-	-	-	Micro. III	1½
W. Va.	-	X	-	-	-	-
Wisc.	-	X	-	-	-	-
Wyo.	-	X	-	-	-	-
P. R.	-	X	-	-	-	-
V. I.	-	-	X	-	Tech. level	1½

FOOTNOTES. TABLE 11-1

- (a) Preference given to residents (1 year).
- (b) After one year in the State.
- (c) Varies with different classifications.
- (d) Residency usually required, but waived under difficulty of recruitment.
- (e) A worker could work approximately 90 days and not be a legal resident.
- (f) One year unless waived. Residence has been waived indefinitely.
- (g) Except waivers in special circumstances.
- (h) For certain positions requirement waived.
- (i) A year's residency is required to be eligible to take Civil Service exams.
- (j) Clerk-typists and custodial workers must be resident for 1 year, all others, residency waived.
- (k) One year if non-technical or non-professional position. No residency requirement for technical and professional positions.
- (l) Laboratory has had some that lived over the line in Kansas.
- (m) After reasonable time.
- (n) Exceptions can be made.
- (o) One year for Clerical and Laboratory Assistants; none for Scientific personnel.
- (p) Non-standard employees work 35-hour week not necessarily limited to regular hours.
- (q) Individual must be U. S. citizen.
- (r) Except in critical employment categories.
- (s) Depends on circumstances. Rate of overtime pay is straight time and time and a half depending upon circumstances.
- (t) This is a new law passed by the 1969 legislature. Many of the details have not yet been established.
- (u) For work on a holiday.

TABLE 11-2. EMPLOYEE BENEFITS

Annual Leave Earned at Rate of:								
	Days per Month of Leave	Years Rate Applies	Days per Month of Leave	Years Rate Applies	Days per Month of Leave	Years Rate Applies	Exceptions	
Ala.	1	10	1½	11+	-	-	-	-
Alaska	1½	2	1½	2-5	1 3/4	5+	2 da. after 10 years	-
Ariz.	1½	3	2	3-14	2½	15+	(Changed 7/68)	-
Ark.	1	all	-	-	-	-	-	-
Cal.	5/6	3	1½	3-10	1 5/12	15+	(a)	-
Colo.	1	1-5	1½	6-10	1½	11-15	1 3/4 das. over 15 yrs. (b)	-
Conn.	*	*	*	*	*	*	*	*
Del.	1½	all	-	-	-	-	Plus 2 bonus da. per yr.	-
D. C.	*	*	*	*	*	*	*	*
Fla.	1	5	1½	5-10	1½	10+	(c)	-
Ga.	1½	all	-	-	-	-	-	-
Hawaii	1 3/4	all	-	-	-	-	-	-
Ida.	1	1-10	1½	10-15	1½	15+	-	-
Ill.	5/6	0-6	1½	7-14	1 2/3	15+	-	-
Ind.	1	all (d)	-	-	-	-	-	-
Ia.	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)
Kans.	1	0-10	1½	10-15	1½	15+	-	-
Ky.	1	all	-	-	-	-	-	-
La.	1	1-5	1½	5-10	1½	11+	-	-
Me.	1	5	1½	5-10	1½	11-15	1 3/4 days for 16-20 yrs. (f)	-
Md.	5/6	0-5	1½	5-20	1 2/3	20+	-	-
Mass.	5/6	0-5	1½	5-9	1 2/3	10+	co-operative students do not earn leave	-
Mich.	1 1/12	all (g)	-	-	-	-	-	-
Minn.	*	*	*	*	*	*	*	*
Miss.	1½	all	-	-	-	-	-	-
Mo.	1½	1-15	1½	15-20	1 3/4	20+	-	-
Mont.	1½	1-10	1½	10-15	2	20+	-	-
Nebr.	5/6	10	1½	10-15	1 2/3	15+	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	1½	all after 1	-	-	-	-	-	-
N. J.	1	0-9	1½	10-19	1 3/4	20+	-	-
N. M.	1½	all	-	-	-	-	-	-
N. Y.	1 1/12	7	1 2/3	7+	-	-	1 extra day for ev. yr. up to 7	-
N. C.	1½	2	*	*	*	*	*	*
N. D.	1	1-3	1½	4-7	1½	8-12+	2 das. per mo. over 18 yrs.	-
Ohio	5/6	1-9	1½	10-24	1 2/3	25+	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	5/6	1-5	1	5-10	1½	10+	-	-
Pa.	1½	all	-	-	-	-	-	-
R. I.	1½	1-10	1 2/5	10-20	1 5/6	20+	-	-
S. C.	1½	all	-	-	-	-	Earned lv. can't be used until end of 6 mos. period	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	1	all	-	-	-	-	-	-
Tex.	1	1-15	1½	15+	-	-	Begins after 6 mos. service	-
Utah	1	1-15	1½	15+	-	-	-	-
Vt.	1	1-5	1½	5-10	1½	10+	-	-
Va.	1	0-5	1½	5-10	1½	10+	-	-

TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

Annual leave earned at rate of:							
	Days per	Years	Days per	Years	Day per	Years	Exceptions
Month of Leave	Rate	Applies	Month of Leave	Rate Applies	Month of Leave	Rate Applies	
Wash.	1	1-2	1 1/12	2-3	1 1/2	5+	-
W. Va.	1 1/2	<5	1 1/2	5-10	1 3/4	10-15	2 das/mo with 15+ yrs.
Wisc.	5/6	1-5	1 1/2	5-20	1 2/3	20+	-
Wyo.	1	0-9	1 1/2	10-19	1 1/2	20+	-
P. R.	2 1/2	all	-	-	-	-	-
V. I.	1	<1	1 1/2	1-15	2	15+	-

TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

	Maximum		Sick Leave Earned at Rate of:				
	Amt. of Annual Leave That Can Be Accumulated (days)	Exceptions	Days per Month of Leave	Years Rate Applies	Days per Month of Leave	Years Rate Applies	Exceptions
Ala.	40	-	1	all	-	-	-
Alaska	60	Must take 5 days/yr.	1½	all	-	-	-
Ariz.	60	More with permission of commissioner	1	all	-	-	-
Ark.	30	-	1	all	-	-	-
Cal.	30	40 days/over 10 yrs.	*	*	*	*	*
Colo.	Twice annual accrued	-	1½	all	-	-	(h)
Conn.	*	*	*	*	*	*	*
Del.	20	-	1½	all	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	30	-	1	all	-	-	-
Ga.	45	Only 30 days will be paid at term. of employ- ment	1½	all	-	-	Not available for pregnancy
Hawaii	90	Max. 15 days/year	1 3/4	all	-	-	-
Ida.	30	-	1	all	-	-	-
Ill.	1 yr. can be saved & added to next (i)	-	1	all	-	-	-
Ind.	No limit	-	1	all	-	-	-
Ia.	- (j)	-	2½	all	-	-	This is 22 working days/yr.
Kans.	(k)	-	1	all	-	-	-
Ky.	24	-	1	all	-	-	Bonus of 10 sick days on compl. of 10 yrs.
La.	45	-	1	1-5	1½	5-10	1½ days/mo., 11 yrs. & over
Me.	24	30 days with over 15 yrs. service	1	all	-	-	-
Md.	30	-	2½	all	-	-	-
Mass.	20	-	1½	all	-	-	Co-op students don't earn lv.
Mich.	30	-	1 1/12	all	-	-	Those absent on LWOP during P/P
Minn.	*	*	*	*	*	*	*
Miss.	Unlimited (l)	-	1	11	*	*	-
Mo.	(m)	-	1½	all	-	-	-
Mont.	30	-	1	all	-	-	-
Nebr.	- (n)	-	1	all	-	-	Not usable dur- ing probation
Nev.	*	*	*	*	*	*	*
N. H.	30	-	1½	all	-	-	-
N. J.	- (o)	-	1	0-1	1½	1+	-
N. M.	30	-	1	all	-	-	-
N. Y.	30	-	1 1/12	all	-	-	-
N. C.	30	-	5/6	all	-	-	-
N. D.	30	-	1½	all	-	-	None for emer- gency, per diem, or hourly employees
Ohio	That earned in 2 years	-	1½	all	-	-	-
Okla.	*	*	*	*	*	*	*
Ore.	25	-	1	all	-	-	-
Pa.	30	-	1½	all	-	-	-
R. I.	1 yrs leave	-	1½	all	-	-	-

TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

	Maximum Amt. of Annual Leave that Can Be Accumulated (days)	Exceptions	Sick Leave Earned at Rate of:					
			Days per Month of Leave	Years Rate Applies	Days per Month of Leave	Years Rate Applies	Exceptions	
S. C.	24	-	1½	all	-	-	-	
S. D.	*	*	*	*	*	*	*	
Tenn.	24	-	1	all	-	-	-	
Tex.	24 or 30	-	1	all	-	-	-	
Utah	30	-	1	all	-	-	-	
Vt.	35	-	1	1-5	1½	5-10	1½ days per mo. 10 or more yrs. service	
Va.	36	-	1½	all	-	-	-	
Wash.	30	(p)	1	all	-	-	-	
W. Va.	30	-	1½	all	-	-	-	
Wisc.	-	-	1	all	-	-	-	
Wyo.	30	-	1	all	-	-	-	
P. R.	60	-	1½	all	-	-	-	
V. I.	26	-	1	all	-	-	-	



TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

	Max. Amt. of Sick Leave That Can be Accumulated (days)	Exceptions	Special Leave Provisions	No. of Paid Holidays	Group Hospitalization Available		Portion of Premium Paid by:	
					Yes	No	Employee	State
Ala.	90	-	-	13	X	-	-	100%
Alaska	Unlimited	-	Any employee since statehood can keep all earned lv. (q)	11	X	-	-	100%
Ariz.	90	-	-	12	X	-	100%	-
Ark.	90	-	Military lv., Maternity, lv., LWOP	10 (r)	X	-	100%	-
Cal.	*	*	*	*	*	*	*	*
Colo.	Unlimited	-	-	12	X	-	Balance	\$5.00
Conn.	*	*	*	*	*	*	*	*
Del.	90	-	Educational & Maternity lv.	7 (s)	X	-	100%	-
D. C.	*	*	*	*	*	*	*	*
Fla.	Unlimited	-	Court lv., Military lv., Natl. Guard service, Adm. lv. for various reasons, Educ. lv., LWOP	8	X	-	100%	-
Ga.	90	Excess kept in reserve & can be act. by Merit Bd.	Military, Court & Adm. lv.	11	X	-	50%	50%
Hawaii	Unlimited	-	Educational, Maternity, & Military	11	X	-	Varies by Co. & size family	\$3.60 Sing. \$10.00 family
Ida.	60	-	-	8	X	-	-	100%
Ill.	Unlimited	-	Maternity, Educ., Milt., Peace Corps, extended Illness	11 (t)	X	-	Varies by Co. & Single or family	\$5.00
Ind.	Unlimited	-	(u)	11 (v)	X	-	100%	-
Ia.	66	-	-	8	X	-	100%	-
Kans.	Unlimited	-	-	8½	X	-	100%	-
Ky.	120	-	Maternity, up to 24 mos. for Educ. & Milt. lv.	14	X	-	100%	-
La.	Unlimited	-	(w)	8	X	-	50%	50%
Me.	90	-	Educ. w/pay Maternity w/o pay	9	X	-	100%	-
Md.	100	-	(x)	13 (y)	X	-	Varies	\$5.50
Mass.	Unlimited	-	Military & Court lv. (z)	12	X	-	25%	75%
Mich.	Unlimited	-	At retirement total accum. sick lv. is paid	7	X	-	10%	90%
Minn.	*	*	*	11	X	-	100%	-
Miss.	Unlimited	-	-	6	X	-	90%	10%

TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

	Max. Amt. of Sick Leave That Can be Accumulated (days)	Exceptions	Special Leave Provisions	No. of Paid Holidays	Group Hospitalization Available		Portion of Premium Paid by:	
					Yes	No	Employee	State
Mo.	120	-	4 days for death in immediate fam.	11 (aa)	X	-	100%	-
Mont.	Unlimited	-	LWOP for educ. purposes	6	X	-	100%	- (bb)
Nebr.	Unlimited	-	15 days/yr. Military lv. authorized	12	X	-	100%	-
Nev.	*	*	*	*	*	*	*	*
N. H.	90	-	Require Gov. & Council Approval	10	X	-	-	\$36.00/yr.
N. J.	Unlimited	-	LWOP, Educ. lv., Matern. lv., Convention lv. (certain org.) (cc)	12	X	-	-	\$4.20
N. M.	60	-	-	10	X	-	80%	20%
N. Y.	1,125 hrs. for 37½ hr. week	1,200 hrs. for 40 hr. week	37½ hrs. of personal lv. per yr. (dd)	11	X	-	-	100%
N. C.	Unlimited	-	-	10	X	-	100%	-
N. D.	80	-	-	11 (aa)	X	-	-	\$5.00
Ohio	90	-	Military (to 31 days) Jury, LWOP to 3 mo., Educ. lv. to 2 yrs.	9	X	-	100%	-
Okla.	*	*	*	*	*	*	*	*
Ore.	Unlimited	-	-	9	X	-	100%	-
Pa.	60	-	-	14	X	-	75%	25%
R. I.	120	-	Military, Jury, LWOP for adv. study	10	X	-	-	100%
S. C.	60	-	To attend funerals, Court & Military lv.	12 (aa)	X	-	100%	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	120	-	-	15	X	-	50%	50%
Tex.	36	-	Adm. heads auth. to make exceptions (ee)	15	X	-	100%	-
Utah	Unlimited	-	-	11	X	-	Variable by policy	-
Vt.	Unlimited	-	-	*	X	-	50%	50%
Va.	Unlimited	-	*	12	X	-	100%	-
Wash.	120	-	Military, Educ.	11	X	-	50%	50%
W. Va.	(ff)	Phy's cert. for over 3 consec. days illness	-	12	X	-	100%	-
Wis.	Unlimited	-	-	7½	X	-	50%	50%
Wyo.	90	-	-	10	X	-	-	100%
P. R.	90	-	Maternity, Military, LWOP	17	X	-	Bal. over \$2.00	\$2.00
V. I.	-	-	-	*	-	X	-	-

TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

	Special Provisions or Requirements - Group Hospitalization	Group Life Insurance Available		Portion of Premium Paid by:		Remarks
		Yes	No	Employee	State	
Ala.	-	X	-	100%	-	-
Alaska	-	X	-	100%	-	Amt. based on salary & age
Ariz.	-	-	X	-	-	-
Ark.	-	X	-	100%	-	*
Cal.	*	*	*	*	*	*
Colo.	-	X	-	100%	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	X	-	-	-
D. C.	*	*	*	*	*	*
Fla.	-	X	-	100%	-	Based on age and salary
Ga.	"Coordinating benefits" provision in policy	X	-	100%	-	(gg)
Hawaii	-	X	-	-	\$2.25	(Additional available thru Employee Unions)
Ida.	Empl. pay for dependent coverage & "high limit" coverage	X	-	-	100%	Insurance equal to 1 yrs. salary
Ill.	-	X	-	100%	-	-
Ind.	-	-	X	-	-	-
Ia.	State pays all premiums for major medical expense	X	-	50%	50%	Based on age and salary
Kans.	-	X	-	100%	-	(Also disability benefits)
Ky.	-	X	-	-	100%	\$5,000 cov. for each empl.
La.	Employee pays proportionate to salary	X	-	50%	50%	Proportionate to salary
Me.	-	X	-	100%	-	\$1,000 for each \$1,000 salary basic plan; supplementary available
Md.	State pays all for employees over 65	X	-	100%	-	\$2,000 - (Md. Classified Employee Association)
Mass.	Automatic \$2,000 policy with membership	X	-	100%	-	Based on age and salary
Mich.	-	X	-	8¢/1,000	24¢/1,000	By salary - next thousand
Minn.	-	X	-	-	100%	\$5,000 policy
Miss.	-	-	X	-	-	-
Mo.	-	-	X	-	-	Life benefits included in accident group
Mont.	-	-	X	-	-	Group accident policy available - employee pays 100%
Nebr.	-	-	X	-	-	-
Nev.	*	*	*	*	*	*
N. H.	Complete Blue Cross-Blue Shield with major chronic disease benefits	X	-	100%	-	Based on age and salary
N. J.	Employee pays for family	X	-	-	100%	For insurance 1½ times salary - extra available
N. M.	Available after one mo. full-time employment	X	-	80%	20%	-
N. Y.	Employee pays for dependents	-	X	-	-	-
N. C.	-	X	-	100%	-	-
N. D.	-	X	-	100%	-	Maximum \$5,000
Ohio	-	-	X	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	X	-	100%	-	*
Pa.	-	X	-	100%	-	-
R. I.	Employee pays for family and major medical	X	-	25¢/1,000	10¢/1,000	\$1,000 insurance for each \$1,000 of salary or portion
S. C.	-	X	-	100%	-	Group policies agreed on by State and insurance cos.

TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

	Special Provisions or Requirements - Group Hospitalization	Group Life Insurance Available		Portion of Premium Paid by:		Remarks
		Yes	No	Employee	State	
S. D.	*	*	*	*	*	*
Tenn.	-	X	-	50%	50%	Amt. equal to annual salary.
Tex.	-	X	-	100%	-	\$10,000 reduced to \$5,000 at 65
Utah	-	X	-	Variable- dep. on policy	\$18/yr.	Can include health and accident.
Vt.	State pays for employee only	X	-	100%	-	Maximum \$8,000. 35¢ per mo. for each \$1,000 coverage up to \$20,000 on basis of annual earnings.
Va.	-	X	-	60¢/1,000	10¢/1,000	Amt. of annual salary - at age 65 reduced by 2%/mo. to 25% of policy
Wash.	Limited to 2 contracts	X	-	100%	-	-
W. Va.	-	-	X	-	-	-
Wisc.	-	X	-	50%	50%	Next higher thousand above annual income
Wyo.	-	X	-	100%	-	Based on age of employee
P. R.	-	X	-	*	*	*
V. I.	-	-	X	-	-	-

TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

	Employees Covered by Social Security		Employee Eligible for State Retirement Plan		Percentage of Salary for Retirement	
	Yes	No	Yes	No	Employee	State
Ala.	X	-	X	-	4%	4.84%
Alaska	X	-	X	-	-	-
Ariz.	X	-	X	-	5%	5%
Ark.	X	-	X	-	4%	6%
Cal.	*	*	*	*	*	*
Colo.	-	X	X	-	6%	6%
Conn.	*	*	*	*	*	*
Del.	X	-	X	-	5% (hh)	-
D. C.	*	*	*	*	*	*
Fla.	X	-	X	-	4%	-
Ga.	X	-	X	-	3% to \$350, 5% over \$350	5%
Hawaii	X	-	X	-	6%	-
Ida.	X	-	X	-	3% to \$400/mo., 6% above \$400	7.5%
Ill.	X	-	X	-	7%	Varies with age and time of retirement
Ind.	X	-	X	-	3%	Amt. varies with each employee
Ia.	X	-	X	-	3½ up to \$7,000 salary (several options)	State matches
Kans.	X	-	X	-	4%	4.5%
Ky.	X	-	X	-	4%	7%
La.	-	X	X	-	6%	8% of total of all members compensation
Me.	-	X	X	-	5%	8%
Md.	X	-	X	-	5.45-8.90% depends on age & sex	matching %
Mass.	-	X	X	-	5%	-
Mich.	X	-	X	-	From 3-5% based on schedule	Determined each year by actuary
Minn.	X	-	X	-	3%	4.5%
Miss.	X	-	X	-	4.5%	4.5%
Mo.	X	-	X	-	4%	4%
Mont.	X	-	X	-	5.75%	3.8% (ii)
Nebr.	X	-	X	-	3-6%	3-6%
Nev.	*	*	*	*	*	*
N. H.	X	-	X	-	Varies	Varies
N. J.	X	-	X	-	Based on age & salary	Combination of Social Security
N. M.	X	-	X	-	5%	5%
N. Y.	X	-	X	-	-	8%
N. C.	X	-	X	-	5-6%	5-6% depending on salary
N. D.	X	-	X	-	4%	4% to \$12,500
Ohio	-	X	X	-	7.7%	7.0%
Okla.	*	*	*	*	*	*
Ore.	X	-	X	-	4-7% depending on salary	-
Pa.	X	-	X	-	5-10%	5-10%
R. I.	X	-	X	-	5%	5%
S. C.	X	-	X	-	5% and up (depending on salary)	5%
S. D.	*	*	*	*	*	*
Tenn.	X	-	X	-	*	*
Tex.	X	-	X	-	5%	-
Utah	X	-	X	-	4.0%	4.0%
Vt.	X	-	X	-	*	*
Va.	X	-	X	-	5.5% above \$1,200	3.32%
Wash.	X	-	X	-	5%	6%
W. Va.	X	-	X	-	4.5%	6.4%
Wisc.	X	-	X	-	2.5%	7.5%
Wyo.	X	-	X	-	5%	5%
P. R.	X	-	X	-	3.5%	*
V. I.	X	-	X	-	4%	*

TABLE 11-2. EMPLOYEE BENEFITS  
(Continued)

Other Employee Benefits (such as free parking)	
Ala.	Free uniforms and laundry.
Alaska	-
Ariz.	Parking adequate except when Legislature in Session.
Ark.	-
Cal.	-
Colo.	Free parking (not adequate). Lab uniforms supplied. Free vital statistic service and diagnostic laboratory service.
Conn.	*
Del.	Free parking.
D. C.	*
Fla.	Free parking.
Ga.	Employee Health Service conducts biennial physical exams.
Hawaii	Death benefits (full year's salary), travel per diem (\$20.00 per day).
Ida.	Income replacement policy to supplement sick leave.
Ill.	-
Ind.	Free parking, pre-exposure rabies imm., other pertinent immunizations, according to risk of employee. For TB lab personnel chest X-rays and tuberculin skin tests.
Ia.	-
Kans.	Adequate free parking.
Ky.	Free parking, uniforms furnished, cafeteria in building.
La.	Free parking, fully equipped kitchen and lounge.
Me.	Adequate free parking.
Md.	Adequate parking at Central Lab and 9 of 10 branch labs.
Mass.	Adequate free parking, nearness to Public transportation, lunch room facilities.
Mich.	Free parking, longevity pay, income protection plan, Department cafeteria, unemployment compensation.
Minn.	Lab uniforms furnished and laundered free.
Miss.	Free parking, uniform and laundry provided.
Mo.	-
Mont.	Adequate free parking, moderate population center, good hunting, fishing, and boating nearby.
Nebr.	-
Nev.	*
N. H.	-
N. J.	Free parking, immunization, employee Blood Bank program.
N. M.	Credit Union, access to Univ. training during normal work hours.
N. Y.	-
N. C.	-
N. D.	Minimal parking.
Ohio	-
Okla.	*
Ore.	-
Pa.	Free parking.
R. I.	-
S. C.	Adequate free parking, liberal leave policy, death benefit of 1 year's salary, financial support for attending professional meetings and training, uniforms and laundry furnished.
S. D.	*
Tenn.	-
Tex.	Parking, payment for injuries in "hazardous positions."
Utah	On campus location (jj).
Vt.	-
Va.	-
Wash.	Laboratory uniforms and laundry of same are provided.
W. Va.	Excellent free parking space available.
Wisc.	-
Wyo.	-
P. R.	Free parking.
V. I.	-

FOOTNOTES. TABLE 11-2.

- (a) 1 7/12 days per month with 24 years, and 1 2/3 days per month with 25 years and over.
- (b) No leave earned if on leave without pay during month.
- (c) Service must be continuous and creditable. Part time personnel earn leave in proportion to time worked.
- (d) After 10 years of continuous service, 3 bonus days per year are added. Five additional days are added each year after 20 years service.
- (e) Professional personnel are eligible for 1 month's vacation with pay (not to exceed 22 working days) after one full year of employment. Non-professional personnel are eligible for one week with pay after one years employment, 2 weeks vacation per year after the second through the ninth year of employment, three weeks vacation after the tenth through the fourteenth year of employment, and four weeks vacation after the completion of fifteen years and all subsequent years of service.
- (f) Two days after 20 years service.
- (g) Two personal leave days are granted each year. For 5 or more but less than 10 yrs. of service, 2 days bonus are granted each year. For 10 but less that 15 years, 4 days are granted, for 15 but less than 20, 6 days are granted and for 20 years or more, 8 days are granted.
- (h) No leave earned if on leave without pay during month.
- (i) Thus 20,30, 40 days total vacation can be taken in one year depending on years of service.
- (j) Any vacation earned by the end of employee's service year (anniversary of original employment) must be used by the end of the next service year.
- (k) 1-5 years, 18 days; 5-10 years, 20 days; 10-15 years, 22 days; 15 years and over, 24 days.
- (l) Only 30 days may be taken in one calendar year.
- (m) 1-15 years, 30 days; 15-20 years, 36 days; 20+ years, 42 days.
- (n) Leave must be used in year granted (before March of next year) by State law.
- (o) Must be used during calendar year unless permission is granted to carry over to next year. Maximum carry-over is leave equivalent to prior year.
- (p) Can be extended if inconvenient to Division to have the employee take his time off and supervisor officially requests extension of time.
- (q) Maternity leave, court leave, military leave, and LWOP in addition.
- (r) Plus general and primary election days.
- (s) Plus election day, biennially.
- (t) In addition, 3 "personal leave" days per year.
- (u) Employees who have a minimum of 5 years of continuous full-time employment and who have exhausted their accumulated vacation leave, sick leave, and overtime credits, may apply to their appointing authority for special sick leave pay. Special sick leave with pay shall not be in excess of one calendar week for each complete year of continuous full-time employment with the State.
- (v) Plus General, State, or National Election days.
- (w) Jury duty, serving as witness, emergency civilian duty for national defense, duty prevented by so-called act of God, voting (2 hrs., or up to 1 day if voting outside parish in which employed) participating in State Civil Service exam or taking a required exam before a State licensing board, administrative leave declared because of special conditions, funeral leave, maternity leave, military leave, educational leave, leave w/o pay, advanced sick leave, compensatory leave, and terminal leave.
- (x) Rosh Hashana and Yom Kippur are holidays for members of the Jewish Faith.

FOOTNOTES. TABLE 11-2  
(Continued)

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- (y) Plus general and congressional elections.
  - (z) Leave of absence with pay for such things as: Red Cross blood donations, State Civil service exams, death in family, delegates or alternates to conventions of Veterans' organizations, voting time, etc.
  - (aa) Plus general elections.
  - (bb) After July 1, 1969, State will pay \$7.50 per month.
  - (cc) Also military leave, jury duty, leave of absence w/o pay up to 1 year.
  - (dd) Jury duty, excused to take Civil Service exams, military leave, educational leave, maternity leave (without pay).
  - (ee) One such was granted 7 months for long terminal illness after 40 years service.
  - (ff) < 5 years service, not more than 60 working days; 5-10 years, not more than 70 days; 10-15 years, 80 days; 15+, 90 days.
  - (gg) For the  $\frac{1}{2}$  of 1% contributed each month the employee's beneficiary receives 1 year's salary - limited to employees who begin work before 55 - certain added benefits for long term employees.
  - (hh) All covered employees whose monthly base salary exceeds \$500 contribute to Retirement Fund 5% of the portion of his salary which exceeds \$6,000 and does not exceed \$12,000.
  - (ii) State will pay 4.3% beginning July 1, 1969.
  - (jj) Since the laboratories are located on the Univ. of Utah campus, time-off arrangements are made on a make-up basis to allow employees to attend classes at the Univ., providing the course pursued can be expected to improve the employee's value to the laboratories. At present, 2 employees are working toward doctorate degrees under this system, and 2 technicians are working toward baccalaureate degrees.



TABLE 11-3. SUMMARY OF HIGHEST DEGREES HELD BY PROFESSIONAL EMPLOYEES

	No. of Professional Employees (a)	Advanced Degrees		Number with Highest Degree								
		(b)		MD	MD	Ph.D.	Dr.	MS-	BS-	None		
		Number	Percent	(Path)	Sc.D.	DVM	PH	MA	MPH		BA	
Ala.	82	5	6.1	-	-	1	-	-	4	-	77	-
Alaska	8	1	12.5	-	-	-	-	1	-	-	-	-
Ariz.	20	4	20.0	-	-	1	-	1	2	-	15	1
Ark.	19	6	31.6	-	1	-	-	-	5	-	-	-
Cal.	151	43	28.5	-	3	12	1	-	18	9	106	2
Colo.	21	2	9.5	-	-	1	-	-	1	-	19	-
Conn.	*	*	*	*	*	*	*	*	*	*	*	*
Del.	7	2	28.6	-	1	-	-	-	1	-	5	-
D. C.	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	71	22	31.0	-	-	8	-	-	-	14	49	-
Ga.	59	14	23.7	-	-	1	-	-	8	5	45	-
Hawaii	21	3	14.3	-	-	1	-	1	1	-	18	-
Ida.	17	6	35.3	-	-	-	-	1	2	3	10	1
Ill.	99	14	14.1	-	-	2	-	-	9	3	76	10
Ind.	41	12	29.3	1	-	-	-	-	11	-	28	1
Ia.	29	13	44.8	-	-	5	1	-	7	-	16	-
Kans.	32	8	25.0	-	-	2	-	-	5	1	24	-
Ky.	38	3	7.9	-	1	1	-	-	1	-	30	5
La.	70	7	10.0	2	1	-	-	-	4	-	56	7
Me.	5	1	20.0	-	-	1	-	-	-	-	4	-
Md.	91	13	14.3	1	1	7	-	-	4	-	63	15
Mass.	57	6 (c)	10.5	-	3	1	-	-	1	-	40	11
Mich.	115	45	38.3	-	3 (d)	24	2	-	11	5	70	-
Minn.	30	4	13.3	-	-	3	-	-	1	-	26	-
Miss.	23	2	8.7	-	-	-	-	-	2	-	21	-
Mo.	22	2	9.1	-	-	-	-	1	-	1	14	6
Mont.	10	1	10.0	-	-	1	-	-	-	-	9	-
Nebr.	11	1	9.1	-	-	-	-	1	-	-	10	-
Nev.	*	*	*	*	*	*	*	*	*	*	*	*
N. H.	13	2	15.4	-	-	-	-	1	1	-	11	-
N. J.	42 (e)	9	21.4	-	3	1	1	-	4	-	30	1
N. M.	14	5	35.7	-	1	1	-	-	2	1	9	-
N. Y.	100 (f)	9 (f)	(f)	-	-	-	1	-	8	-	87	4
N. C.	70	10	14.3	-	2	1	-	-	4	3	44	16
N. D.	9	3	33.3	-	-	-	-	-	1	2	6	-
Ohio	45	7	15.5	-	-	1	1	1	3	1	31	7
Okla.	*	*	*	*	*	*	*	*	*	*	*	*
Ore.	20	3	15.0	-	-	-	-	-	2	1	17	-
Pa.	48	13	26.0	-	2	3	-	1	7	-	32	3
R. I.	22 (g)	3	13.6	-	-	-	-	-	1	1	15	4
S. C.	23	6	26.1	1	-	1	-	-	4	-	14	3
S. D.	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	81	11	13.6	-	-	-	-	1	9	1	69	1
Tex.	65	17	26.2	-	-	4	1	-	10	2	45	3
Utah	21	12	57.1	-	-	2	-	1	9	-	8	1
Vt.	15	2	13.3	-	-	-	-	1	-	-	13	-
Va.	33	2	6.1	-	-	-	-	1	-	1	28	3
Wash.	24	10	41.7	1	1	1	-	-	5	2	14	-
W. Va.	18	3	16.7	-	-	-	-	-	3	-	14	1
Wisc.	53	30	56.6	1	-	-	-	1	13	15	23	-
Wyo.	4	3	75.0	-	-	-	-	1	2	-	-	-
P. R.	29	2	6.9	1	1	-	-	-	-	-	27	-
V. I.	1	-	-	-	-	-	-	-	-	-	1	-

TABLE 11-4. HIGHEST DEGREE HELD BY LABORATORY DIRECTORS

	Title (if other than Laboratory director)	M D (Path.)	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-			X						
Alaska	Chief of Branch					X				
Ariz.	-			X						
Ark.	-		X							
Cal.	(h)		XX	XXXX			X	X	X	
Colo.	-			X						
Conn.	*	*	*	*	*	*	*	*	*	*
Del.	-		X							
D. C.	*	*	*	*	*	*	*	*	*	*
Fla.	Public Health Lab Director			X						
Ga.	-						X			
Hawaii	Microbiologist VII			X						
Ida.	-					X				
Ill.	Chief & Pub. Hlth. Microbiologist							X		
Ind.	-	X								
Ia.	-			X						
Kans.	-			X						
Ky.	-		X							
La.	-	X								
Me.	-			X						
Md.	Physician V	X								
Mass.	Superintendent (1) Laboratory Directors (2)		XXX							
Mich.	Pub. Hlth. Lab Scientist 21		X							
Minn.	Dir., Div. of Medical Labs			X						
Miss.	-						X			
Mo.	-					X				
Mont.	Microbiologist V			X						
Nebr.	-					X				
Nev.	*	*	*	*	*	*	*	*	*	*
N. H.	-					X				
N. J.	-		X							
N. M.	-			X						
N. Y.	-				X					
N. C.	-			X						
N. D.	-								X	
Ohio	Chief Bureau of Pub. Hlth. Labs			X						
Okla.	*	*	*	*	*	*	*	*	*	*
Ore.	Microbiologist V						X			
Pa.	-			X						
R. I.	Chief of Labs						X			
S. C.	-	X								
S. D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-					X				
Tex.	-			X						
Utah	Chief, Lab Section						X			
Vt.	-				X					
Va.	-							X		XX
Wash.	-	X								
W. Va.	-									X
Wisc.	-	X								
Wyo.	-					X				
P. R.	-		X							
V. I.	-								X	

TABLE 11-5. HIGHEST DEGREE HELD BY ASSISTANT LABORATORY DIRECTORS

	Title (if other than Asst. Lab Dir.)	No. of Filled Positions	MD (Path)	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS- MA	MPH	BS- BA	None
Ala.	-	-									
Alaska	-	-									
Ariz.	-	1					1				
Ark.	-	-									
Cal.	Asst. Lab Chief	2			1			1			
Colo.	-	-									
Conn.	*	*	*	*	*	*	*	*	*	*	*
Del.	-	-									
D. C.	*	*	*	*	*	*	*	*	*	*	*
Fla.	Asst. PH Lab Director	1			1						
Ga.	-	1							1		
Hawaii	Microbiologist VI	1						1			
Ida.	-	1							1		
Ill.	Asst. Chief, Public Hlth. Microbiologist	1						1			
Ind.	Asst. Lab Director (1) Division Directors (3)	4						4			
Ia.	Asst. Lab Directors (2) Assoc. Lab Director (1)	3			2			1			
Kans.	Chief, Lab Certification Section	1							1		
Ky.	-	1								1	
La.	Path., PH Physician I	2	1	1							
Me.	-	-									
Md.	Lab Scientist VII	1			1						
Mass.	Asst. Director	1			1						
Mich.	Public Health Lab Scientist 19 (i)	1			1						
Minn.	-	-									
Miss.	-	-									
Mo.	-	1							1		
Mont.	-	-									
Nebr.	-	-									
Nev.	*	*	*	*	*	*	*	*	*	*	*
N. H.	-	-									
N. J.	Senior Public Health Physician	1		1							
N. M.	-	1		1							
N. Y.	(Vacant)	-									
N. C.	-	-									
N. D.	-	1							1		
Ohio	Asst. Chief, Board of Public Health Lab	1					1				
Okla.	*	*	*	*	*	*	*	*	*	*	*
Ore.	Microbiologist IV	1						1			
Pa.	-	1					1				
R. I.	Deputy Chief of Labs	1								1	
S. C.	Chief, Div. of Environ- mental Labs	1			1						
S. D.	*	*	*	*	*	*	*	*	*	*	*
Tenn.	-	1					1				
Tex.	-	1							1		
Utah	Asst. Chief, Lab Section	1					1				
Vt.	-	1									
Va.	-	1					1				
Wash.	-	1		1							
W. Va.	Associate Director	1						1			
Wisc.	-	1					1				
Wyo.	-	-									
P. R.	-	1	1								
V. I.	-	-									

TABLE 11-6. HIGHEST DEGREE HELD BY MICROBIOLOGIST V EMPLOYEES

Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-	1						1	
Alaska	-	-							
Ariz.	-	-							
Ark.	-	-							
Cal.	-	-							
Colo.	-	-							
Conn.	*	*	*	*	*	*	*	*	*
Del.	-	-							
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	-							
Ga.	-	-							
Hawaii	-	6			1			5	
Ida.	-	-							
Ill.	-	3					1	1	1
Ind.	-	-							
Ia.	Principal Micro.	3		2	1				
Kans.	-	-							
Ky.	-	-							
La.	PH Lab Tech V	2				1		1	
Me.	-	-							
Md.	Lab Scientist V	2		2					
Mass.	Chief of Labs	2						2	
Mich.	PH Lab Scientist 16	1		1					
Minn.	-	-							
Miss.	-	2						2	
Mo.	-	-							
Mont.	- (j)	-							
Nebr.	-	-							
Nev.	*	*	*	*	*	*	*	*	*
N. H.	-	-							
N. J.	Chief Bact., Chief Virologist, Chief Serologist	3				1		2	
N. M.	-	-							
N. C.	-	-							
N. D.	-	-							
Ohio	Head Micro.	1						1	
Okla.	*	*	*	*	*	*	*	*	*
Ore.	- (j)	-							
Pa.	-	-							
R. I.	-	-							
S. C.	-	-							
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-							
Tex.	Special Project Director	-							
Utah	Microbiologist 23	1						1	
Vt.	-	-							
Va.	-	-							
Wash.	-	2					2		
W. Va.	-	-							
Wisc.	-	-							
Wyo.	-	-							
P. R.	-	-							
V. I.	-	-							

TABLE 11-7. HIGHEST DEGREE HELD BY MICROBIOLOGIST IV EMPLOYEES

State	Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-	6							6	
Alaska	-	1							1	
Ariz.	-	-								
Ark.	-	-								
Cal.	Associate Micro., Viro., & Sanitary Microbiologist	11					2		9	
Colo.	Supervising Micro.	-								
Conn.	*	*	*	*	*	*	*	*	*	*
Del.	-	-								
D. C.	*	*	*	*	*	*	*	*	*	*
Fla.	-	6		6						
Ga.	-	-								
Hawaii	-	3							3	
Ida.	-	-								
Ill.	-	13					3		9	1
Ind.	Serologist IV	2					1		1	
	Bacteriologist IV	-								
Ia.	Assoc. Bact.	1							1	
Kans.	-	-								
Ky.	PH Technician IV	1							1	
La.	PH Lab Tech. IV	4					2		2	
Me.	-	-								
Md.	Lab Scientist IV	13					2		11	
Mass.	-	-								
Mich.	PH Lab Scient.	15		4						
Minn.	Chief Bact.	2		2						
Miss.	-	9					1		8	
Mo.	-	2							1	1
Mont.	-	-								
Nebr.	-	-								
Nev.	*	*	*	*	*	*	*	*	*	*
N. H.	-	-								
N. J.	Principal Bact., Principal Viro., Principal Sero.	3					1		2	
N. M.	-	-								
N. Y.	Associate Bact.	5							5	
N. C.	-	-								
N. D.	-	-								
Ohio	-	-								
Okla.	*	*	*	*	*	*	*	*	*	*
Ore.	-(k)	-								
Pa.	-	-								
R. I.	-	-								
S. C.	-	-								
S. D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-								
Tex.	Division Superv.	4			1		3			
Utah	Micro. 21	2					2			
Vt.	-	-								
Va.	-	-								
Wash.	-	4					1		3	
W. Va.	-	-								
Wisc.	-	8					8			
Wyo.	-	-								
P. R.	-	-								
V. I.	-	-								

TABLE 11-8. HIGHEST DEGREE HELD BY MICROBIOLOGIST III EMPLOYEES

Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-	15				4		11	
Alaska	-	2						2	
Ariz.	-	1				1			
Ark.	-	3				1		1	1
Cal.	Asst. Micro.	24				3		21	
Colo.	Senior Micro.	4						4	
Conn.	*	*	*	*	*	*	*	*	*
Del.	Bact. III	2				1		1	
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	10					10		
Ga.	Lab Scient. III	11		1		4	4	2	
Hawaii	-	5						5	
Ida.	-	5				2	1	2	
Ill.	-	18						17	1
Ind.	Bact. III	8				5		3	
Ia.	Senior Bact.	4				1		3	
Kans.	Bact. III	3				2		1	
Ky.	PH Tech. III	5						2	3
La.	PH Lab Tech. III	14						13	1
Me.	-	-							
Md.	Lab Scientist III	9						9	
Mass.	Senior Bact.	8						7	1
Mich.	Public Health Lab Scientist 13	2		2					
Minn.	Senior Bact.	1						1	
Miss.	-	4						4	
Mo.	-	3						1	2
Mont.	-	1						1	
Nebr.	-	1						1	
Nev.	*	*	*	*	*	*	*	*	*
N. H.	Medical Bacteriologist	1				1			
N. J.	Senior Bact., Senior Virologist	5						5	
N. M.	-	1						1	
N. Y.	Senior Bact.	19				2		15	2
N. C.	-	-							
N. D.	-	2				1		1	
Ohio	Bact. III	12				1	1	8	2
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	4					1	3	
Pa.	-	11	1			4		6	
R. I.	Principal Bacteriologist	3						3	
S. C.	-	4				1		1	2
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	-	14				7		7	
Tex.	-	11		1		2		8	
Utah.	Micro. 19	1				1			
Vt.	-	-							
Va.	Specialist C	5						5	
Wash.	-	10		1		1		8	
W. Va.	Micro. II	5				1		4	
Wisc.	-	15					15		
Wyo.	Bacteriologist-Serologist III	1						1	
P. R.	-	-							
V. I.	-	-							

TABLE 11-9. HIGHEST DEGREE HELD BY MICROBIOLOGIST II EMPLOYEES

	Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS- MA	MPH	BS- BA	None
Ala.	-	20							20	
Alaska	-	1							1	
Ariz.	-	4							3	1
Ark.	-	5					4			1
Cal.	Jr. Micro. II	10					1		9	
Colo.	Micro.	8							8	
Conn.	*	*	*	*	*	*	*	*	*	*
Del.	Bact. II	-								
D. C.	*	*	*	*	*	*	*	*	*	*
Fla.	-	12							12	
Ga.	Lab Scient. II	12					2		10	
Hawaii	-	2							2	
Ida.	-	3							3	
Ill.	-	14					1		10	3
Ind.	Bact. II	2							1	1
Ia.	-	-								
Kans.	Bact. II	9					2		7	
Ky.	Public Health Technician II	6							5	1
La.	Public Health Lab Tech. II	23					1		19	3
Me.	-	-								
Md.	Lab Scientist II	19							19	
Mass.	Asst. Bact. II	8							7	1
Mich.	Serologist, Bact., & Virologist II	15					3	1	11	
Minn.	Bact. (1)	25					1	1	24	
Miss.	-	2							2	
Mo.	-	6							4	2
Mont.	-	5							5	
Nebr.	-	1							1	
Nev.	*	*	*	*	*	*	*	*	*	*
N. H.	Medical Lab Technician II	7							7	
N. J.	Bacteriologist, Virologist	7					1		6	
N. M.	-	1					1			
N. Y.	Bacteriologist	32							31	1
N. C.	-	-								
N. D.	-	1							1	
Ohio	Bact. II	12			1		2		7	2
Okla.	*	*	*	*	*	*	*	*	*	*
Ore.	-	12							12	
Pa.	-	8					1		6	1
R. I.	Senior Bact.	7 (m)						1	4	1
S. C.	-	8					1		7	
S. D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-	20					2		18	
Tex.	-	11		1			3		7	
Utah	Micro. 17	5					1		4	
Vt.	Micro. B	2							2	
Va.	Specialist B	9							9	
Wash.	-	3					1		2	
W. Va.	Micro. I	3					1		2	
Wisc.	-	12							12	
Wyo.	Micro. II	2					2			
P. R.	Bact. II	10							10	
V. I.	-	-								

TABLE 11-10. HIGHEST DEGREE HELD BY MICROBIOLOGIST I EMPLOYEES

Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-	39						39	
Alaska	-	1						1	
Ariz.	-	9						9	
Ark.	-	10						3	7
Cal.	Jr. Micro. I	1						1	
Colo.	Jr. Micro.	2						2	
Conn.	*	*	*	*	*	*	*	*	*
Del.	Bact. I	4	*	*	*	*	*	4	*
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	23						23	
Ga.	Lab Scientist I	24						24	
Hawaii	- (n)	-							
Ida.	-	4						3	1
Ill.	-	23						19	4
Ind.	Sero., Bact. I	7						7	
Ia.	-	-							
Kans.	Bact. I	7						7	
Ky.	PH Tech. I	11						10	1
La.	PH Lab Tech. I	12						9	3
Me.	Lab Tech. III	3						3	
Md.	Lab Scientist I	11						10	1
Mass.	Jr. Bact.	20						16	4
Mich.	Bact. & Viro. 09	30						23	
Minn.	-	-				4	3		
Miss.	-	2						2	
Mo.	-	5						4	1
Mont.	-	1						1	
Nebr.	-	4						4	
Nev.	*	*	*	*	*	*	*	*	*
N. H.	Med. Lab Tech. I	4						4	
N. J.	Bact, Viro. Trainee	6						6	
N. M.	-	6						6	
N. Y.	Bact. Trainee	4						4	
N. C.	-	-							
N. D.	-	2						2	
Ohio	Bact. I	8						6	2
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	2						2	
Pa.	-	10						9	
R. I.	Bact.	4				1		2	2
S. C.	-	2						1	1
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	-	42						42	
Tex.	-	18						16	2
Utah	Micro. 15	1						1	
Vt.	Micro. A	8						8	
Va.	Specialist A	13						12	1
Wash.	-	-							
W. Va.	Lab Asst. III	4						4	
Wisc.	-	3						3	
Wyo.	-	-							
P. R.	Bact. I	8						8	
V. I.	-	-							



TABLE 11-11. HIGHEST DEGREE HELD BY CHEMIST V EMPLOYEES

Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-	-
Colo.	-	-	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-	-
Ia.	Assoc. Chemist	4	-	-	-	1	-	3	-
Kans.	-	-	-	-	-	-	-	-	-
Ky.	Chemistry Dir.	1	1	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	Lab Scientist V	-	-	-	-	-	-	-	-
Mass.	Chief of Lab	2 (o)	1	-	-	-	-	-	-
Mich.	Crime Lab Sc. 17	1	-	-	-	-	-	1	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-	-
N. J.	Chief Chemist	1	-	-	-	1	-	-	-
N. M.	-	-	-	-	-	-	-	-	-
N. Y.	Prin. San. Chem.	1	-	-	-	1	-	-	-
N. C.	-	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-	-
Ohio	Principal Chem.	2	-	-	-	-	-	2	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-	-
R. I.	-	-	-	-	-	-	-	-	-
S. C.	-	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	Chemist 23	2	1	-	-	-	-	1	-
Vt.	-	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-	-

TABLE 11-12. HIGHEST DEGREE HELD BY CHEMIST IV EMPLOYEES

Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-
Cal.	Assoc. PH Chem.	16	-	-	-	2	-	14	-
Colo.	Supv. PH Chem.	1	-	-	-	1	-	-	-
Conn.	*	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	4	-	-	-	-	4	-	-
Ga.	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	-	1	-	-	-	-	1	-	-
Ill.	-	2	-	-	-	-	-	2	-
Ind.	-	2	-	-	-	1	-	1	-
Ia.	Health Physicist	1	-	-	-	-	-	1	-
Kans.	-	2	1	-	-	1	-	-	-
Ky.	Asst. Chem. Dir.	1	-	-	-	1	-	-	-
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	Lab Scient. IV	4	1	-	-	1	-	2	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	PH Lab Scient. 16	1	1	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	1	-	-	-	-	-	1	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-	-
N. Y.	Assoc. San. Chem. Assoc. Chemist	5	-	-	-	1	-	4	-
N. C.	-	-	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-	-
R. I.	-	-	-	-	-	-	-	-	-
S. C.	-	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	Div. Superv.	1	-	-	-	1	-	-	-
Utah	Chemist 21	3	-	-	-	3	-	-	-
Vt.	-	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-	-
Wisc.	-	1	-	-	-	-	-	1	-
Wyo.	-	-	-	-	-	-	-	-	-
P. R.	-	1	-	-	-	-	-	1	-
V. I.	-	-	-	-	-	-	-	-	-

TABLE 11-13. HIGHEST DEGREE HELD BY CHEMIST III EMPLOYEES

Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D. Sc.D	DVM	Dr. PH	MS- MA	MPH	BS- BA	None
Ala.	-	-							
Alaska	-	-							
Ariz.	-	1				1			
Ark.	-	-							
Cal.	Asst. PH Chem.	42				4		37	1
Colo.	Sr. PH Chemist	1						1	
Conn.	*	*	*	*	*	*	*	*	*
Del.	-	-							
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	4						4	
Ga.	-	-							
Hawaii	(p)	-							
Ida.	-	-							
Ill.	-	3				1		2	
Ind.	-	3						3	
Ia.	Sr. Chemist	2				1		1	
Kans.	-	-							
Ky.	Prin. Chemist	5						5	
La.	-	1						1	
Me.	-	-							
Md.	Lab Scientist III	8				1		7	
Mass.	Sr. Chemist	4				1		2	1
Mich.	Crime Lab Scient. & PH Lab Scient. 15	7	6	1					
Minn.	-	-							
Miss.	-	3						3	
Mo.	-	1						1	
Mont.	-	1						1	
Nebr.	-	1						1	
Nev.	*	*	*	*	*	*	*	*	*
N. H.	-	-							
N. J.	Sr. Chemist	2 (q)						1	
N. M.	-	1					1		
N. Y.	Sr. San. Chemist Sr. Chemist	12				3		8	1
N. C.	-	-							
N. D.	-	-							
Ohio	-	2						2	
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-							
Pa.	-	1						1	
R. I.	-	-							
S. C.	-	-							
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-							
Tex.	-	5					1	4	
Utah	-	-							
Vt.	-	-							
Va.	-	-							
Wash.	-	-							
W. Va.	-	-							
Wisc.	-	7						7	
Wyo.	-	-							
P. R.	-	2						2	
V. I.	-	-							

TABLE 11-14. HIGHEST DEGREE HELD BY CHEMIST II EMPLOYEES

Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-	-							
Alaska	-	1						1	
Ariz.	-	2						2	
Ark.	-	-							
Cal.	-	-							
Colo.	PH Chemist	4						4	
Conn.	*	*	*	*	*	*	*	*	*
Del.	-	-							
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	7						7	
Ga.	-	-							
Hawaii	-	3						3	
Ida.	-	1						1	
Ill.	-	7						7	
Ind.	-	5						5	
Ia.	Assoc. Chem., Jr. Chemist	3						3	
Kans.	-	4						4	
Ky.	Sr. Chemist	4						4	
La.	-	9						9	
Me.	-	-							
Md.	Lab. Scient. II	10							10
Mass.	Asst. Chemist	3						2	1 (r)
Mich.	Biochemist 14	1		1					
Minn.	(Combines I & II)	1						1	
Miss.	-	-							
Mo.	-	1						1	
Mont.	-	-							
Nebr.	-	1						1	
Nev.	*	*	*	*	*	*	*	*	*
N. H.	-	-							
N. J.	Chemist, Sero.	6						6	
N. M.	-	-							
N. Y.	San. Chem., Chem.	18				1		17	
N. C.	Chem. Analyst II	1						1	
N. D.	-	1					1		
Ohio	-	4						3	1
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-							
Pa.	-	5						5	
R. I.	Diag. Chemist	1							1
S. C.	-	-							
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-							
Tex.	-	5		1		1		3	
Utah	Chemist 17	2				1			1
Vt.	Chemist B	1						1	
Va.	Chemist B	1						1	
Wash.	-	1						1	
W. Va.	-	1						1	
Wisc.	-	5				5			
Wyo.	-	-							
P. R.	-	5						5	
V. I.	-	1						1	

TABLE 11-15. HIGHEST DEGREE HELD BY CHEMIST I EMPLOYEES

Corresponding State Title (if different)	No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ala.	-	-							
Alaska	-	1						1	
Ariz.	-	1						1	
Ark.	-	-							
Cal.	-	-							
Colo.	Junior Chemist	-							
Conn.	*	*	*	*	*	*	*	*	*
Del.	-	-							
D. C.	*	*	*	*	*	*	*	*	*
Fla.	-	3						3	
Ga.	-	-							
Hawaii	-	-							
Ida.	-	1						1	
Ill.	-	6						6	
Ind.	-	2						2	
Ia.	Junior Chemist	2						2	
Kans.	-	5						5	
Ky.	Chemist	2						2	
La.	-	1						1	
Me.	-	-							
Md.	Lab Scientist I	4							4
Mass.	Junior Chemist	6						3	3 (s)
Mich.	Crime Lab Scient. Chem. & Biochem. 13	6		3				3	
Minn.	-	-							
Miss.	-	-							
Mo.	-	1						1	
Mont.	-	-							
Nebr.	-	2						2	
Nev.	*	*	*	*	*	*	*	*	*
N. H.	-	-							
N. J.	Chem. Trainee, Sero. Trainee	3						2	1
N. M.	-	3				1		2	
N. Y.	Chemist Trainee	3						3	
N. C.	Chem. Analyst I	3				1		2	
N. D.	-	1						1	
Ohio	-	2						2	
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-							
Pa.	-	3						3	
R. I.	Chemist	2						2	
S. C.	-	7				2		5	
S. D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-							
Tex.	-	8						7	1
Utah	Chemist 15	1						1	
Vt.	Chemist A	2						2	
Va.	Chemist - Asst.	1						1	
Wash.	-	2				2			
W. Va.	-	3						3	
Wisc.	-	-							
Wyo.	-	-							
P. R.	-	1						1	
V. I.	-	-							

TABLE 11-16. HIGHEST DEGREE HELD BY OTHER PROFESSIONAL EMPLOYEES

State	Title	No. of Filled Positions	Degree							
			MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Cal.	Pub. Health Medical Officer III	1	1							
	Research Specialist IV	1			1					
	Research Radiochemist	2							2	
	Research Chemist	3		3						
	Research Microbiologist	3		3						
	Research Clinical Chemist	1		1						
	Spectroscopist	1						1		
	Sr. Microbio., Lab Field Services	3						1	2	
	Microbio., Lab Field Services	13					2	4	7	
	Assoc. Radiochemist	1					1			
	Precision Electronics Specialist	1								1
	Sr. Public Health Statistician	1						1		
	Biostatistician III	1					1			
	Assoc. Pub. Health Statistician	1						1		
	Asst. Public Health Statistician	1								1
Sr. Clinical Lab Technologist	1								1	
Clinical Lab Technologist	1								1	
Fla.	Lab Technologist I	3								3
	Electronics Technician II	1								1
Ga.	Service Director	2					1		1	
	Lab Scientist Trainee	8								8
Ill.	Microbiologist VI	3					2		1	
	Toxicologist II	1				1				
	Biologist II	1							1	
	Public Health Lab Evaluator	2						1	1	
Ind.	Biochemist II	1		1						
	Microanalyst	2								2
	Public Health Trainee	3								3
Iowa	Principal Serologist	1					1			
	Assoc. Serologist	1					1			
	Senior Serologist	1							1	
	Assoc. Virologist	1					1			
	Senior Virologist	1							1	
La.	Medical Cytotechnologist	1							1	
Maine	Laboratory Consultant (ASMT)	1							1	
Md.	Physician II	1	1							
	Microbio. VI (Lab Scientist VI)	1		1						
	Laboratory Scientist VI	2		2						
	Lab Scientists I, II, III (Cytotechnologists)	5								5
Mich.	Coordinating Physician (Lab Physician 18)	1	1							
	Microbiologist (Public Health Lab Scientist 17)	1		1						
	Biologics Production Scientist (Public Health Lab Scientist 19)	1			1					
	Senior Chemist (Public Health Lab Scientist 19)	1		1						
	Crime Lab Scientist 1 (Chemistry & Biochemistry 11)	15		2			1		12	
	Crime Lab Technician (Chemistry & Biochemistry 09)	8					2		6	
	Chemist Trainee, Crime Lab Trainee & Chemist 07	8	1 (t)				1		6	
	Bacteriologist 07	10						1	9	
	Medical Technologist I	1							1	
	N. J.	Research Scientist	3	1	1	1	*	*	*	*
Asst. Histologist		1	*	*	*	*	*	*	*	*
N. C.	Lab Certification Evaluator	2					1		1	
	Public Health Administrator	1						1		
	Medical Lab Supervisor	7					2	2	3	

TABLE 11-16. HIGHEST DEGREE HELD BY OTHER PROFESSIONAL EMPLOYEES  
(Continued)

State Title		No. of Filled Positions	MD	Ph.D., Sc.D.	DVM	Dr. PH	MS-MA	MPH	BS-BA	None
Ohio	Laboratory Technologist	4								
Pa.	Medical Technologist III	(u)								4
	Medical Research Scientist II	3	1	2						
	Parasitologist	1							1	
	Serologist II	2					1		1	
	Serologist I	2								2
R. I.	Senior Toxicologist	1							1	
	Toxicologist	2							2	
Tenn.	Microbiologist Aide	3							2	1
Utah	Coordinator, Chemical Labs	1		1						

TABLE 11-17. HIGHEST DEGREE HELD BY LABORATORY TECHNICIANS I &amp; II

Corresponding State Title (if different)	No. of Levels in Position	No. of Filled Positions	MD	MS-MA	MPH	BS-BA	None
Ala.	-	3		1		6	5
Alaska	-	2					2
Ariz.	Technical Lab Asst. I, II, III	3					15
Ark.	-	2					7
Cal.	Lab Technical Assistant	1				1	9
Colo.	-	1					1
Conn.	*	*	*	*	*	*	*
Del.	-	3					7 (v)
D. C.	*	*	*	*	*	*	*
Fla.	-	2					52
Ga.	-	2					19
Hawaii	Lab Assistant I-IV	4					8
Ida.	Micro. Asst., Lab Asst., Lab Helper	3					10 (w)
Ill.	-	2					14
Ind.	-	2					16
Ia.	Lab Technician IV, V, VI, VII, VIII	5					15
Kans.	Technical Assistant I & II	2				1	12
Ky.	Senior Lab Assistant & Lab Assistant	2					4
La.	-	-					-
Me.	-	2					7
Md.	-	-					-
Mass.	Supervisory Lab Tech., Lab Technician	2					20 (w)
Mich.	Lab Tech. 07, 05, 03 Lab Apprentice 01	4					64
Minn.	Medical Lab Technician	1					8
Miss.	-	1				1	
Mo.	Public Health Lab Tech.	1					6
Mont.	-	1					1
Nebr.	Lab Technician IV & III	2					3
Nev.	*	*	*	*	*	*	*
N. H.	Medical Lab Worker	1					1 (w)
N. J.	Supervising Lab Tech., Prin. Lab Tech., Sr. Lab Tech., Lab Tech.	4					41 (x)
N. M.	Health Lab Technologist	1				3	1
N. Y.	Sr. Lab Tech. & Lab Tech.	2				2	80
N. C.	-	3		2		37	16
N. D.	-	3					8
Ohio	-	2					11
Okla.	*	*	*	*	*	*	*
Ore.	-	-					-
Pa.	-	3					10
R. I.	Medical Lab Technician	1					7
S. C.	-	2				6	6
S. D.	*	*	*	*	*	*	*
Tenn.	-	-					-
Tex.	-	2					12
Utah	Lab Tech. 13, Lab Asst. 06 & 05	3				1	12
Vt.	-	1					1
Va.	Technician A & B	2					19
Wash.	-	1					3
W. Va.	Lab Asst. II	1					8
Wisc.	-	4					28
Wyo.	-	1					1
P. R.	-	2				9	1
V. I.	-	2				2	4



TABLE 11-18. EDUCATIONAL LEVELS OF LABORATORY AIDES I AND II

	Corresponding State Title (if different)	No. of Levels in Position	No. of Filled Positions	BS-BA	No Degree
Ala.	-	2	48		48
Alaska	Lab Assistant	1	5		5
Ariz.	-	-	-		
Ark.	-	1	7		7
Cal.	-	-	-		
Colo.	Supervising Lab Asst., Lab Aide I & II	3	12		12
Conn.	*	*	*	*	*
Del.	-	1	4		4
D. C.	*	*	*	*	*
Fla.	Lab Helper	1	33		33
Ga.	-	2	33		33
Hawaii	-	-	-		
Ida.	-	-	-		
Ill.	Lab Helper	1	3		3
Ind.	-	-	-		
Ia.	Lab Attendant V, VI Lab Asst. III & IV	4	17		17
Kans.	-	-	-		
Ky.	Sr. Lab Aide & Lab Aide	2	17		17
La.	Lab Tech. Asst. I, II, III	3	20		20
Me.	-	1	2		2
Md.	Lab Assistant I, II, III	3	62		62
Mass.	Lab Assistant	1	27		27 (y)
Mich.	Lab Aide Superv. 08,07; Vet. Lab Aide & Lab Aide 05; Lab Aide 03	4	20		20
Minn.	Medical Lab Assistant	1	3		3
Miss.	Lab Aide II	1	3		3
Mo.	Lab Assistant	1	1		1
Mont.	Lab Helper I & II	2	4		4
Nebr.	Lab Technician I & II	2	5		5
Nev.	*	*	*	*	*
N. H.	Lab Helper	1	2		2 (z)
N. J.	Sr. Lab Asst. & Lab Asst.	2	21		21
N. M.	Lab Asst. I & II	2	10		10
N. Y.	Head Lab Worker, Prin. Lab Worker, Sr. Lab Worker, Lab Worker	4	44		44
N. C.	Lab Assistant	1	7		7
N. D.	-	2	3		3
Ohio	Lab Assistant	1	18		18
Okla.	*	*	*	*	*
Ore.	-	1	8		8
Pa.	Lab Assistant	1	7		7
R. I.	-	1	6		6
S. C.	Lab Assistant	1	3		3
S. D.	*	*	*	*	*
Tenn.	-	1	7		7
Tex.	Lab Asst. and Lab Helper	2	18		18
Utah	Lab Aide 03	2	2		2
Vt.	Lab Assistant	1	1		1
Va.	Aide A & B	2	13		13
Wash.	Lab Asst. I & II	2	2		2
W. Va.	Lab Assistant I	1	3		3
Wisc.	Lab Helper	1	10		10
Wyo.	Lab Aide II	1	1		1
P. R.	Lab Aide II	1	14		14
V. I.	-	-	-		

TABLE 11-19. EDUCATIONAL LEVELS OF OTHER TECHNICAL AND SUPPORT SERVICES EMPLOYEES

	State Title	No. of Filled Positions	BS-BA	No Degree
Cal.	Animal Technicians IV, III, & II	8	1	7
	Supervising Lab Assistant I	7	1	6
	Lab Assistant II	15	1	14
	Lab Assistant I	10	3	7
Fla.	Biological Aide I	1		1
Kans.	Storekeeper II	1		1
	Clerk I	1	1	
La.	Custodial Worker I & II	15		15
Maine	Storekeeper	1		1
Mass.	Institution Domestic Aide	25		25 (aa)
N. J.	Prin. Lab Serv. Worker, Sr.	7		7
	Lab Serv. Worker, Lab Serv. Worker			
N. Y.	Laboratory Helper	50		50
Ohio	Laboratory Animal Aide	2		2
R. I.	Laborer	1		1
S. C.	Lab Helper	5		5
Vt.	Lab Helper	2		2
Wash.	Lab Helper	5		5
	Animal Caretaker	1		1
	Maintenance Repair	1		1

FOOTNOTES. TABLES 11-3 - 11-19.

- (a) Includes those employed as Microbiologists I or Chemist I and other positions having equivalent duties and all levels above.
- (b) Above B.S. and B.A.
- (c) One of these is LLB degree.
- (d) One not licensed in U.S.
- (e) Data missing for two employees.
- (f) As of December 31, 1968, the Division of Laboratories and Research of the New York State Department of Health had 642 employees, many of whom are not included in this tabulation and the length of experience tabulation because their classification did not fit the groupings included in the questionnaire. Examples of these classifications are Research Scientist series, professional management, secretarial, and librarian series, Pathologist series, Research Physician series, etc. Percentage of employees with advanced degrees not shown as it would not be valid. Other figures are recorded as reported.
- (g) One Doctor of Chiropractic.
- (h) At this level and above California lists the following positions: Assistant Director, Public Health Laboratories; Assistant Service Chief, Public Health Laboratories; and 7 Laboratory Chiefs.
- (i) Coordinating Microbiologist.
- (j) Laboratory Director also has title of Microbiologist V.
- (k) Assistant Director also holds Microbiologist IV title.
- (l) Combines I and II.
- (m) One Doctor of Chiropractic.
- (n) This class was eliminated as a result of Classification Study of Hospital Support Group, December 1966.
- (o) One has LLB.
- (p) At present, this is the top class in the Chemistry Series. This Series will be revised in 1969.
- (q) Information missing for one employee.
- (r) Associate degree.
- (s) Two have associate degree.
- (t) Not licensed in U.S.
- (u) Two vacancies.
- (v) One Laboratory Technician III is a Medical Technologist.
- (w) Requires High School.
- (x) Four have associate degree in science.
- (y) About 75% have High School.
- (z) Have High School.
- (aa) About 50% have High School.

TABLE 11-20. SUMMARY OF LENGTH OF LABORATORY EXPERIENCE FOR ALL POSITIONS EXCEPT CLERICAL

	No. of Filled Positions	Less Than One Year	1 to 4 Years	5 to 9 Years	10 to 14 Years	15 years and over
Ala.	148	-	87	23	13	25
Alaska	15 (a)	2	5	1	-	-
Ariz.	35 (a)	1	11	8	10	2
Ark.	33	*	*	*	*	*
Cal.	202	8	27	41	46	80
Colo.	34	6	7	11	4	6
Conn.	*	*	*	*	*	*
Del.	18	5	3	1	2	7
D. C.	*	*	*	*	*	*
Fla.	161 (a)	6	37	17	18	58
Ga.	111	9	24	12	12	54
Hawaii	29	5	3	3	4	14
Ida.	27	-	10	7	3	7
Ill.	116	24	28	14	15	35
Ind.	57	6	6	8	9	28
Ia.	61 (a)	3	20	11	3	19
Kans.	47	6	13	11	3	14
Ky.	59 (a)	4	22	15	4	12
La.	105	3	26	18	19	39
Me.	15 (a)	-	4	-	4	6
Md.	153 (a)	30	38	44	19	21 (b)
Mass.	129	17	33	24	23	32
Mich.	205	31	49	27	32	66
Minn.	41	5	9	12	13	2
Miss.	27	-	4	4	11	8
Mo.	29	7	11	2	3	6
Mont.	15	-	7	3	-	5
Nebr.	19 (a)	5	7	1	2	3
Nev.	*	*	*	*	*	*
N. H.	16	-	4	4	3	5
N. J.	93 (a)	10	25	14	10	19
N. M.	27	4	13	-	3	7
N. Y.	276 (a)	44	72	41	45	74
N. C.	73 (a)	19	30	8	5	11
N. D.	20	1	11	1	4	3
Ohio	80	22	18	23	6	11
Okla.	*	*	*	*	*	*
Ore.	28	3	9	2	2	12
Pa.	65	1	25	10	8	21
R. I.	36	4	11	9	-	12
S. C.	43	5	18	4	4	12
S. D.	*	*	*	*	*	*
Tenn.	88	13	14	16	17	28
Tex.	95	19	22	18	11	25
Utah	36 (a)	4	12	6	-	13
Vt.	19	2	4	5	2	6
Va.	65 (a)	7	13	9	4	19
Wash.	36	3	5	5	5	18
W. Va.	29 (a)	5	5	6	6	6
Wisc.	97	17	32	27	5	16
Wyo.	6	2	2	-	1	1
P. R.	53	*	*	*	*	*
V. I.	7	-	2	2	-	3

TABLE 11-21. LENGTH OF LABORATORY EXPERIENCE OF LABORATORY DIRECTORS

	Less Than One Year	1 to 4 yrs.	5 to 9 yrs.	10-14 yrs.	15 Years and over
Ala.					X
Alaska			X		
Ariz.					X
Ark.	*	*	*	*	*
Cal.				X	XXXXXXXX
Colo.					X
Conn.	*	*	*	*	*
Del.					X
D. C.	*	*	*	*	*
Fla.					X
Ga.					X
Hawaii			X		
Ida.					X
Ill.					X
Ind.					X
Ia.				X	
Kans.					X
Ky.			X		
La.					X
Me.					X
Md.			X		
Mass.					XXX
Mich.			X		
Minn.					X
Miss.					X
Mo.					X
Mont.					X
Nebr.					X
Nev.	*	*	*	*	*
N. H.					X
N. J.				X	
N. M.					X
N. Y.					X
N. C.					X
N. D.					X
Ohio					X
Okla.	*	*	*	*	*
Ore.					X
Pa.					X
R. I.					X
S. C.					X
S. D.	*	*	*	*	*
Tenn.					X
Tex.					X
Utah					X
Vt.					X
Va.					XXX
Wash.					X
W. Va.					X
Wisc.			X		
Wyo.	X				
P. R.		X			
V. I.					X

TABLE 11-22. LENGTH OF LABORATORY EXPERIENCE OF ASSISTANT LABORATORY DIRECTORS

	No. of Filled Positions	Less Than 1 Year	1 to 4 yrs.	5 to 9 yrs.	10 to 14 yrs.	15 years and over
Ala.	-					
Alaska	-					
Ariz.	1		1			
Ark.	-					
Cal.	2				1	1
Colo.	-					
Conn.	*	*	*	*	*	*
Del.	-					
D. C.	*	*	*	*	*	*
Fla.	1					1
Ga.	1					1
Hawaii	1					1
Ida.	1					1
Ill.	1					1
Ind.	4					4
Ia.	3			1		2
Kans.	1					1
Ky.	1					1
La.	2	1	1			
Me.	-					
Md.	1	*	*	*	*	*
Mass.	1					1
Mich.	1					1
Minn.	-					
Miss.	-					
Mo.	1					1
Mont.	-					
Nebr.	-					
Nev.	*	*	*	*	*	*
N. H.	-					
N. J.	1		1			
N. M.	1					1
N. Y.	-					
N. C.	-					
N. D.	1					1
Ohio	1			1		
Okla.	*	*	*	*	*	*
Ore.	1					1
Pa.	1					1
R. I.	1					1
S. C.	1					1
S. D.	*	*	*	*	*	*
Tenn.	1					1
Tex.	1					1
Utah	1					1
Vt.	1				1	
Va.	1		1			
Wash.	1					1
W. Va.	1					1
Wisc.	1	1				
Wyo.	-					
P. R.	1			1		
V. I.	-					

TABLE 11-23. LENGTH OF LABORATORY EXPERIENCE OF ALL MICROBIOLOGISTS AND SIMILAR POSITIONS

	No. of Filled Positions	Less Than 1 Year	1 to 4 yrs.	5 to 9 yrs.	10 to 14 yrs.	15 Years and over
Ala.	86	-	56	12	5	13
Alaska	5	*	3	*	*	*
Ariz.	14 (a)	-	3	2	6	1
Ark.	18	*	*	*	*	*
Cal.	70 (c)	1	14	8	16	31
Colo.	14	-	2	6	3	3
Conn.	*	*	*	*	*	*
Del.	6	2	2	-	1	1
D. C.	*	*	*	*	*	*
Fla.	51 (a)	1	10	4	3	27
Ga.	57	5	13	3	2	34
Hawaii	16	3	1	2	2	8
Ida.	12	-	5	2	1	4
Ill.	76	14	14	11	12	25
Ind.	22	3	3	3	3	10
Ia.	13 (a)	-	3	3	1	3
Kans.	19	-	5	4	2	8
Ky.	23	2	7	4	3	7
La.	56	-	12	13	8	23
Me.	3	-	1	-	-	2
Md.	56 (d)	13	6	21	4	12
Mass.	38	4	6	12	4	12
Mich.	64 (e)	6	15	11	10	22
Minn.	28	3	7	7	10	1
Miss.	19	-	4	3	8	4
Mo.	16	2	7	1	3	3
Mont.	8	-	3	2	-	3
Nebr.	6	2	3	-	-	1
Nev.	*	*	*	*	*	*
N. H.	12	-	2	4	3	3
N. J.	28 (a)	6	8	4	2	7
N. M.	8	1	6	-	1	-
N. Y.	60	11	9	10	14	16
N. C.	-	-	-	-	-	-
N. D.	5	-	2	1	1	1
Ohio	33	6	8	10	2	7
Okla.	*	*	*	*	*	*
Ore.	18	-	5	1	2	10
Pa.	37	-	10	6	6	15
R. I.	14	1	4	3	-	6
S. C.	14	-	1	4	1	8
S. D.	*	*	*	*	*	*
Tenn.	79	11	13	16	15	24
Tex.	44	7	10	9	6	12
Utah	10	1	2	1	-	6
Vt.	10	1	3	2	-	4
Va.	27	5	6	3	2	11
Wash.	19	1	1	1	5	11
W. Va.	12	1	2	4	3	2
Wisc.	41	8	12	9	2	10
Wyo.	3	1	1	-	1	-
P. R.	18	*	*	*	*	*
V. I.	-	-	-	-	-	-

TABLE 11-24. LENGTH OF LABORATORY EXPERIENCE OF ALL CHEMISTS AND SIMILAR POSITIONS

	No. of Filled Positions	Less Than 1 Year	1 to 4 yrs.	5 to 9 yrs.	10 to 14 yrs.	15 years and over
Ala.	-	-	-	-	-	-
Alaska	2	-	2	-	-	-
Ariz.	4	-	3	-	1	-
Ark.	-	-	-	-	-	-
Cal.	65	2	1	17	14	31
Colo.	6	-	-	4	-	2
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	18 (a)	2	5	1	-	9
Ga.	-	-	-	-	-	-
Hawaii	3	1	1	-	-	1
Ida.	3	-	2	-	1	-
Ill.	21	6	9	1	1	4
Ind.	14	3	1	4	3	3
Ia.	12	1	2	2	1	6
Kans.	11	2	5	-	1	3
Ky.	13 (a)	-	6	4	1	-
La.	11	-	3	1	3	4
Me.	-	-	-	-	-	-
Md.	28	5	7	9	4	3
Mass.	15	-	2	2	3	8
Mich.	49	10	10	9	7	13
Minn.	1	-	-	1	-	-
Miss.	3	-	-	-	2	1
Mo.	4	2	1	-	-	1
Mont.	1	-	-	-	-	1
Nebr.	4	1	2	1	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	12 (a)	-	2	-	1	3
N. M.	4	-	3	-	1	-
N. Y.	39	9	17	6	3	4
N. C.	4 (a)	1	2	-	-	-
N. D.	2	1	-	-	1	-
Ohio	10	-	4	3	1	2
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	9	-	5	3	-	1
R. I.	6	-	1	3	-	2
S. C.	7	2	5	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	19	5	6	3	-	5
Utah	9	1	4	-	-	4
Vt.	3	1	-	1	1	-
Va.	2	-	1	1	-	-
Wash.	3	-	1	1	-	1
W. Va.	4	-	2	1	-	1
Wisc.	15	3	6	5	-	1
Wyo.	-	-	-	-	-	-
P. R.	9 (a)	-	5	1	-	2
V. I.	-	-	-	-	-	-



TABLE 11-25. LENGTH OF LABORATORY EXPERIENCE OF ALL LABORATORY TECHNICIANS AND SIMILAR POSITIONS

	No. of Filled Positions	Less Than 1 Year	1 to 4 yrs.	5 to 9 yrs.	10 to 14 yrs.	15 yrs. and over
Ala.	11	-	2	5	3	1
Alaska	2	*	*	*	*	*
Ariz.	15 (a)	1	4	6	3	-
Ark.	7	*	*	*	*	*
Cal.	51	5	12	16	12	6
Colo.	1	-	-	1	-	-
Conn.	*	*	*	*	*	*
Del.	7	2	1	-	1	3
D. C.	*	*	*	*	*	*
Fla.	55 (a)	3	15	9	9	14
Ga.	19	1	6	6	6	-
Hawaii	8	1	1	-	2	4
Ida.	10	-	3	5	1	1
Ill.	14	3	4	2	2	3
Ind.	16	-	2	1	3	10
Ia.	15 (a)	1	6	2	-	4
Kans.	13	4	3	5	-	1
Ky.	4	-	2	2	-	-
La.	-	-	-	-	-	-
Me.	7 (a)	-	3	-	3	-
Md.	-	-	-	-	-	-
Mass.	20	1	2	5	9	3
Mich.	70	10	18	5	12	25
Minn.	-	-	-	-	-	-
Miss.	1	-	-	-	-	1
Mo.	6	2	3	1	-	-
Mont.	1	-	-	1	-	-
Nebr.	3	-	1	-	1	1
Nev.	*	*	*	*	*	*
N. H.	1	-	-	-	-	1
N. J.	41 (a)	2	12	9	4	9
N. M.	4	1	1	-	1	1
N. Y.	82	12	19	11	15	25
N. C.	55 (a)	15	20	7	5	5
N. D.	8	-	7	-	1	-
Ohio	15	7	2	4	1	1
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	10	1	3	1	2	3
R. I.	7	2	4	-	-	1
S. C.	12	-	9	-	1	2
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	12	5	2	3	-	2
Utah	13 (a)	2	5	4	-	1
Vt.	1	-	1	-	-	-
Va.	19	2	5	5	2	5
Wash.	3	-	-	-	-	3
W. Va.	11 (a)	4	1	1	3	1
Wisc.	27	3	13	8	1	2
Wyo.	1	-	-	-	-	1
P. R.	10	*	*	*	*	*
V. I.	6	-	2	2	-	2

TABLE 11-26. LENGTH OF LABORATORY EXPERIENCE OF ALL LABORATORY AIDES AND SIMILAR POSITIONS

	No. of Filled Positions	Less Than 1 Year	1 to 4 yrs.	5 to 9 yrs.	10 to 14 yrs.	15 Years and over
Ala.	50	29	6	5	10	-
Alaska	5 (a)	2	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	*	*	*	*	*	*
Cal.	-	-	-	-	-	-
Colo.	12	6	5	-	1	-
Conn.	*	*	*	*	*	*
Del.	4	1	-	1	-	2
D. C.	*	*	*	*	*	*
Fla.	34 (a)	-	7	3	6	6
Ga.	33	3	5	3	4	18
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	3	1	1	-	-	1
Ind.	-	-	-	-	-	-
Ia.	17	1	9	3	-	4
Kans.	2	-	-	2	-	-
Ky.	17	2	7	4	-	4
La.	35	2	10	4	8	11
Me.	2	-	-	-	1	1
Md.	62	10	23	13	11	5
Mass.	52	12	23	5	7	5
Mich.	20	5	6	1	3	5
Minn.	11	2	2	4	3	-
Miss.	3	-	-	1	1	1
Mo.	1	1	-	-	-	-
Mont.	4	-	4	-	-	-
Nebr.	5 (a)	2	1	-	1	-
Nev.	*	*	*	*	*	*
N. H.	2	-	2	-	-	-
N. J.	28 (a)	2	2	1	2	-
N. M.	10 (a)	2	3	-	-	4
N. Y.	94	12	27	14	13	28
N. C.	7	3	4	-	-	-
N. D.	3	-	2	-	1	-
Ohio	20 (a)	1	1	-	-	-
Okla.	18	8	3	5	2	-
Ore.	8	3	4	1	-	-
Pa.	7	-	7	-	-	-
R. I.	7	1	2	3	-	1
S. C.	8	3	3	-	2	-
S. D.	*	*	*	*	*	*
Tenn.	7	2	1	-	2	2
Tex.	18	2	4	3	5	4
Utah	2	-	1	1	-	-
Vt.	3	-	-	2	-	1
Va.	13	*	*	*	*	*
Wash.	9	2	3	3	-	1
W. Va.	-	-	-	-	-	-
Wisc.	12	3	-	4	2	3
Wyo.	1	-	1	-	-	-
P. R.	14	*	*	*	*	*
V. I.	-	-	-	-	-	-

TABLE 11-27. LENGTH OF LABORATORY EXPERIENCE IN ALL OTHER POSITIONS

Position		No. of Filled Positions	Less Than 1 Year	1 to 4 yrs.	5 to 9 yrs.	10 to 14 yrs.	15 Years and over
Cal.	Various Statisticians	5				2	3
Fla.	Electronics Technician	1	*	*	*	*	*
Maine	Storekeeper	1					1
	Lab Consultant	1					1
Md.	Cytotechnologists	5	2	2			1
N. C.	Lab Certification Eval.	2		2			
	Pub. Health Adm.	1		1			
	Medical Lab Supervisors	7		1	1		5

FOOTNOTES. TABLES 11-20 - 11-27

- (a) Length of Experience not shown for all employees.
- (b) Three employees have over 30 years service.
- (c) Includes all Microbiologists and those levels between Microbiologist and Assistant Laboratory Chief and the technologists below the microbiologist levels.
- (d) Includes levels between Microbiologist and Assistant Laboratory Director.
- (e) Includes levels above.

SECTION XII

SERVICES OF THE LABORATORY AND RELATIONSHIPS  
WITH OTHER LABORATORIES

TABLE 12-1. LOCATION AND SIZE OF BRANCH LABORATORIES

No. of Branch Laboratories	Location and Number of Employees (in parenthesis)	
Ala.	8	Anniston (7); Birmingham (25); Decatur (7); Dothan (5); Huntsville (7); Mobile (15); Selma (5); Tuscaloosa, (5).
Alaska	3 (a)	(Regional Labs) Southcentral, Anchorage (9); Southeastern, Juneau (6); Northern, Fairbanks (7).
Ariz.	2	Tucson (7); Flagstaff (2).
Ark.	-	-
Cal.	1	So. Calif. Public Health Lab (19)
Colo.	-	-
Conn.	*	*
Del.	-	-
D. C.	*	*--
Fla.	6	(Regional Labs) Miami (33); Tampa (27); Pensacola (9); Tallahassee (8); Orlando (11), W. Palm Beach (7).
Ga.	3	(Regional Labs) Albany (14); Macon (14); Waycross (12).
Hawaii	3	(District Labs) Hawaii (3); Maui (2); Kauai (1).
Ida.	5	(Regional Labs) Coeur d'Alene (2); Lewiston (2); Twin Falls (3); Pocatello (3); Idaho Falls (2).
Ill.	6	Carbondale (17); Champaign (9); East St. Louis (10); Rock Island (5); Springfield (Diagnostic) (36); Springfield (Sanitary) (21).
Ind.	-	-
Ia.	1	Des Moines (9).
Kans.	-	-
Ky.	1	Paducah Branch Lab (4)
La.	7	(Regional Labs) Shreveport (19); Alexandria (11); Monroe (11); Lafayette (13); Lake Charles (13); Amite Milk Lab (5); Chemistry Lab (18).
Me.	-	-
Md.	10	Baltimore City (30); Annapolis (5); Cambridge (5); Cheverly (9); Cumberland (6); Easton (4); Elkton (5); Frederick (6); Rockville (5 & 3 County employees); Salisbury (9).
Mass.	-	-
Mich.	3	Div. of Western Mich., Grand Rapids (40); Division of Houghton, Houghton (6); Div. of Powers, Powers (9).
Minn.	-	-
Miss.	4	Gulfport (2); Magnolia (2); Columbus (2); Tupelo (2).

TABLE 12-1. LOCATION AND SIZE OF BRANCH LABORATORIES  
(Continued)

	No. of Branch Laboratories	Location and Number of Employees (in parenthesis)
Mo.	2	(District Labs) District 4 Lab, Poplar Bluff (7); District 5 Lab, Springfield (10).
Mont.	-	-
Nebr.	1	Western Branch, Scottsbluff (4).
Nev.	*	*
N. H.	-	-
N. J.	2	Bivalve (2); Nacote Creek (1).
N. M.	2	Farmington (*); Clovis (*).
N. Y.	-	-
N. C.	-	-
N. D.	1	Grand Forks (14).
Ohio	3	Northeast, Cuyahoga Falls (6); Northwest, Bowling Green (4); Southeast, Nelsonville (3).
Okla.	*	*
Ore.	-	-
Pa.	1	Erie (6).
R. I.	-	-
S. C.	6	Spartanburg County (1); Walterboro (1); Florence (2); Charleston (2 - not budgeted lab); Greenville (2); Anderson (2).
S. D.	*	*
Tenn.	5	Chattanooga (13); Memphis (10) Knoxville (15); Johnson City (1); Jackson (7).
Tex.	24 (b)	(b)
Utah	-	-
Vt.	-	-
Va.	*	*
Wash.	-	-
W. Va.	-	-
Wisc.	-	-
Wyo.	-	-
P. R.	*	*
V. I.	*	*

TABLE 12-2. SERVICES PROVIDED TO STATE DEPARTMENTS OTHER THAN THE HEALTH DEPARTMENT

Ala.	Chemistry Profiles for Stroke Project of Univ. of Ala. Medical School
Alaska	Examine for rabies, Division of Agriculture; Bacterial water analysis for any department; Milk Analysis for Department of National Resources; Examination of animals for Agriculture and Fish and Game Departments
Ariz.	Services provided to: (State Health Programs) - State and County Welfare, Vocational Rehabilitation, State Highway Department, Game and Fish Department, State Apiary Inspector, State Dairy Commission, State Industrial School, Prison, Meat Inspector, Children's Colony, Universities.
Ark.	Welfare-Health tests for adoptions, unwed mothers, etc. Game and Fish-water and stream pollution, animal heads for rabies, rabies titer on employees. State Penitentiary - Blood tests, VD, etc., also dairy products. University of Ark. Medical Center - reference laboratory.
Cal.	Lab support provided usually by contract to certain programs of the public agencies which do not have their own labs.
Colo.	Diagnostic assistance - Colo. State Hospital, Univ. of Colo. Medical Center
Conn.	*
Del.	*
D. C.	*
Fla.	Dept. of Law Enforcement - Narcotic and Dangerous Drug Analysis, Dept. of Agriculture - Cultures, Diagnostic.
Ga.	-
Hawaii	Dept. of Agriculture: Diagnosis and confirmation of animal-man disease agents. Stool examinations for watershed entrance permit. Dept. of Land and Natural Resources: Shellfish and shellfish area water examination. Chemical and bacterial examination of surface waters. Univ. of Hawaii: Consultative and coordinated research projects.
Ida.	Water testing for Dept. of Parks, Fish, and Game; and Bureau of Reclamation. Alcohol testing for Dept. of Law Enforcement. Lab space, equipment, and consultation provided to Board of Pharmacy for drug analysis.
Ill.	Chemical testing kits are prepared for the Dept. of Conservation, Training courses are given to lab personnel of the Dept. of Mental Health. Reference lab for Dept. of Mental Health.
Ind.	No routine services.
Ia.	Industrial Hygiene to Bureau of Labor; Pesticides Monitoring to Conservation Commission; services to Air and Water Pollution Control Commission.
Kans.	The following programs which receive major laboratory support are involved in providing services to other State depts. Disease Prevention and Control Program; Chronic Disease, including Cardiovascular, Program; Phenylketonuria and other hereditary diseases; Food and Drug Program; and Environmental Health Program. Lab support is provided to the Div. of Institutional Management, Dept. of Social Welfare (State hospitals, TB hospitals, Industrial Schools and Children's Receiving Home); other State institutions, including State Colleges and Universities, Prison, Industrial Farm, Reformatory,



TABLE 12-2. SERVICES PROVIDED TO STATE DEPARTMENTS OTHER THAN THE HEALTH DEPARTMENT  
(Continued)

Kans. (cont.)	School of the Deaf, etc.); Kansas Water Resources Board; State Highway Commission, Highway Patrol, State Geological Surveys, Kansas Bureau of Investigation, Alcohol Beverage Commission, State Fire Marshall's office; Fish and Game Commission; Div. of Water Resources, State Board of Agriculture.
Ky.	All TB hospital out-patients sputum exams and reference culture from all TB hospitals.
La.	Services to State-operated hospitals, Dept. of Institutions, Dept. of Education, Welfare Dept.
Me.	-
Md.	Dept. of Water Resources, Dept. of Corrections
Mass.	Lab diagnosis of rabies for the Dept. of Agriculture, Dept. of Animal Health
Mich.	Crime Detection lab services to Mich. Dept. of State Police and other law enforcement agencies; sanitary bacteriology determinations on water specimens for State Dept. of Natural Resources; Certification of designated and official milk labs for Dept. of Agriculture; Multiphasic screening tests for State employees for Mich. Dept. of Civil Service; Consultation services to Mich. Universities, schools of medicine.
Minn.	All available in State lab.
Miss.	All services of lab available to other depts. Example: all TB bacteria for State Mental Hospital and State TB Hospital done by lab.
Mo.	-
Mont.	-
Nebr.	Narcotics and drug-abuse identity tests are performed, as required by a 1967 law, for State and local law enforcement agencies. Branch lab does limited work for Agriculture Dept. Occasional sample tested for Dept. of Labor re occupational health and safety.
Nev.	*
N. H.	All available services.
N. J.	Lab services in all disciplines as needed and by arrangement (e.g. potable water analysis regarding migrant camps; Dept. of Labor and Industry).
N. M.	Diagnostic service to State Hospitals. Chemical analysis of water to State Game & Fish Department.
N. Y.	Diagnostic services to inmates of institutions operated by State Dept. of Correction, Education, Mental Hygiene.
N. C.	-
N. D.	Teaching at Medical School, Microbiology internships for medical technician program - UND.
Ohio	Alcohol Testing and Approval Program - Highway Safety; Fish kill stream pollution analysis - Natural Resources; Salmonella sera typing and other miscellaneous - Agriculture; VD Serology and miscellaneous bacteriology reference - Mental Hygiene and Corrections; Medicare Lab Approval - Public Welfare; Miscellaneous reference and direct sources - State universities.
Okla.	*

TABLE 12-2. SERVICES PROVIDED TO STATE DEPARTMENTS OTHER THAN THE HEALTH DEPARTMENT  
(Continued)

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Ore.	Diagnostic testing as required; water testing.
Pa.	Specimen evaluation for Dept. of Public Welfare, Dept. of Forests and Water, and Dept. of Justice.
R. I.	Toxicology services for Attorney General's Dept., State and Local police.
S. C.	PKU reports for Children's Bureau, Serology reports to agencies such as Vocational Rehabilitation, Surveys of schools (Parasitology, rubella, etc.), routine serology (syphilis) in inmates of Dept. of Corrections; facilities and some personnel for water and air pollution control.
S. D.	*
Tenn.	PKU testing is an element of the Mental Retardation Program of the Dept. of Mental Health.
Tex.	Other State agencies receive services - some through inter-agency contracts where volume is great - in water quality, water pollution, animal health, etc.
Utah	Blood alcohol and narcotics; Highway Safety; blood alcohol, narcotics, toxicology, State prison, law enforcement; water bacteriology, chemistry, Fish & Game, agriculture.
Vt.	Alcohol determined in blood and urine - Dept. of Public Safety. Meat species identified - Fish and Game Dept.
Va.	*
Wash.	Some enteric work performed for Dept. of Institutions.
W. Va.	Syphilis Serology: W. Va. Dept. of Rehabilitation; Dept. of Motor Vehicles, W. Va. Penitentiary - and lab services as necessary to other departments when public health involved.
Wisc.	Agriculture Dept.; Dept. of Transportation and Highways; Dept. of Natural Resources
Wyo.	-
P. R.	*
V. I.	-

TABLE 12-3. HEALTH-RELATED LAB SERVICES PROVIDED BY OTHER DEPARTMENTS OF THE STATE GOVERNMENT

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Ala.	-
Alaska	Milk Analysis by Division of Agriculture
Ariz.	-
Ark.	State Veterinarian - anthrax and other Zoonoses investigation.
Cal.	None with any direct influence or bearing on public health.
Colo.	State Hospital and University of Colorado Medical Center.
Conn.	*
Del.	*
D. C.	*
Fla.	Department of Agriculture - Milk Analysis.
Ga.	In the Environmental Health Branch of the Health Department the following services maintain their own labs: Industrial Hygiene, Radiological Health, and Water Supply.
Hawaii	Department of Agriculture - animal diseases (Zoonotic). Univ. of Hawaii - Health Research and investigations.
Ida.	Board of Pharmacy - drug analysis. Department of Agriculture - Animal Disease Control, Milk Products Control; Meat Control.
Ill.	Department of Agriculture runs brucellosis "ring tests" and rabies tests on animals.
Ind.	No routine services.
Ia.	-
Kans.	Rabies diagnosis and control - Veterinary Diagnostic Lab, Kans. State University, Manhattan, Kansas.
Ky.	TB Hospital Commission, Mental Health Lab Services, University of Kentucky Toxicological Services.
La.	-
Me.	Milk, food, water and air pollution testing.
Md.	-
Mass.	Some lab data is on occasion provided by the University of Mass.
Mich.	Departments of Agriculture, Social Services, Licensing and Regulation and Mental Health.
Minn.	-
Miss.	Animal Health - Department of Agriculture - Cytology - University Medical Center under contract.
Mo.	Department of Agriculture, Zoonosis.
Mont.	Livestock Sanitary Board Labs at State University - does rabies diagnostic work and milk bacteriology.

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TABLE 12-3. HEALTH-RELATED LAB SERVICES PROVIDED BY OTHER DEPARTMENTS OF THE STATE GOVERNMENT  
(Continued)

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Nebr.	Virology services are performed for both health departments and practicing physicians, by the Department of Microbiology, College of Medicine, University of Nebr. Plans are being advanced to formalize an agreement for the joint operation of a State Virology Lab by the above department and the State Health Laboratory.
Nev.	*
N. H.	-
N. J.	Toxicology: State Police Lab; Department of Law and Public Safety
N. M.	State hospital provides diagnostic laboratory service.
N. Y.	Agriculture & markets - Food Lab tests products offered commercially. Labor Dept. does testing in industrial hazards. Conservation - occasional studies on water resources, or Zoonoses.
N. C.	State Medical Examiner does Toxicology.
N. D.	State Laboratories Department (Regulatory Department) - Milk, Food, and Water.
Ohio	Animal disease diagnostic tests; foods, dairies and drugs; pesticides - Agriculture; Diagnostic Services for State Institutions - Central Laboratory, Mental Hygiene and Corrections.
Okla.	*
Ore.	-
Pa.	Department of Public Welfare Institutions provide necessary services within their entities.
R. I.	-
S. C.	Chemical exams of produce by Department of Agriculture.
S. D.	*
Tenn.	Clinical lab tests are performed in mental hospitals operated by the Department of Mental Health.
Tex.	Relatively little of importance.
Utah	Milk analysis - Department of Agriculture.
Vt.	*
Va.	*
Wash.	State Department of Institutions and State Department of Agriculture have own laboratory service.
W. Va.	Department of Public Safety (Toxicology); Department of Agriculture and Air Pollution Control Commission.
Wisc.	Department of Natural Resources; Department of Agriculture.
Wyo.	Chemical analysis of water and bacteriological testing of milk performed by Agriculture Department laboratories.
P. R.	*
V. I.	-

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TABLE 12-4. RELATIONSHIP OF THE LAB WITH LOCAL HEALTH DEPARTMENTS

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Ala.	8 Br. Labs are housed in County Health Buildings and all lab work for Health Department is done by Bureau of Labs.
Alaska	State Lab provides all local Health Departments laboratory services.
Ariz.	Performs all lab services to counties except in Maricopa County which has a lab. In this case, the State performs on a referral basis.
Ark.	Provide lab services thru Bureau of Local Health Services to all city, county, and local health units.
Cal.	Maintains very close working relationships and advises and assists local labs with both technical and administration problems.
Colo.	Technical Direction of Function and Methods.
Conn.	*
Del.	*
D. C.	*
Fla.	Voluntary supervisory assistance and service in diagnostic microbacteriology and virology.
Ga.	Consultative.
Hawaii	Service and reference lab for city-county Health Department.
Ida.	Regional Laboratories, although administered on State level, are an integral part of the local Health agency. Provides basic services needed for proper functioning of local Health Unit.
Ill.	Excellent.
Ind.	Supportive services are furnished where need is indicated.
Ia.	-
Kans.	Cooperation, Supplementary (do work they cannot do), Reference, Consultation-Approval Programs (Syph. Serology, Milk and Medicare).
Ky.	All lab supplies are distributed thru each local health department to all physicians, hospitals, etc. using lab services. Distribution of service information: thru support of the Public Health Program.
La.	Lab services provided to local health units as requested by the parish health physician, nursing, epidemiological and engineering staffs.
Me.	Serves as resource in terms of service and consultation.
Md.	Branch Labs located within the local health department's facilities, but are supported, staffed, and supervised by the State.
Mass.	Provide lab support for epidemiological activities at the local level.
Mich.	Consultation and reference.
Minn.	State lab supports local health departments.
Miss.	Both the Lab and local Health Departments are under the direction of the State Health Office.
Mo.	Related thru the Section of Local Health of the Mo. Division of Health.

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TABLE 12-4. RELATIONSHIP OF THE LAB WITH LOCAL HEALTH DEPARTMENTS  
(Continued)

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Mont.	Performs tests on specimens forwarded by them and provides consultation to them.
Nebr.	Advisory and consultative - State performs several types of exams on routine basis for all of local health jurisdictions.
Nev.	*
N. H.	Excellent, but the 8 city Health Departments do not have labs.
N. J.	Specimens may be submitted by local health departments to the central lab via the appropriate district health office or by direction of the pertinent Health Department program.
N. M.	Directs laboratory supporting service.
N. Y.	Close cooperation exists.
N. C.	Provides technical assistance when requested, routine diagnostic services and biologics. Referral laboratory in Microbiology, Virology, environmental sciences. Provides some equipment to few local health laboratories.
N. D.	Supervises Milk Labs operated by 3 Multi-county Health Units.
Ohio	Routine services in water bacteriology and water chemistry. Limited milk bacteriology. Special assistance in surveys and epidemiologic lab aid and other diagnostic services when requested.
Okla.	*
Ore.	Well-coordinated, good cooperation.
Pa.	Lab works with, supports, - local health departments, particularly in reference activity.
R. I.	-
S. C.	Provides lab services as requested.
S. D.	*
Tenn.	The lab is in operation to serve the local health departments and provides more direct service to local health departments than any other division of the State Health Department.
Tex.	Relationships are good. Local health departments are responsible for much of the laboratory work.
Utah	Provides all lab services except water bacteriology for Logan City, Salt Lake City, Ogden City, and Weber County.
Vt.	No local health departments.
Va.	*
Wash.	Local health departments are autonomous. The State Lab certifies milk work for interstate shippers, water for interstate carriers, and syphilis serology for prenatal programs. It also offers consultation services and bench training as requested and provides lab services if not available locally.
W. Va.	Provides consultation and training in connection with evaluation and certification procedures covered by law (syph. serology, milk and water) and other lab service in Microbiology, Biochemistry, Virus, etc. - as necessary and indicated. Provides training and consultation on other procedures when requested (including advice on planning new construction or remodeling of quarters, etc.)

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TABLE 12-4. RELATIONSHIP OF THE LAB WITH LOCAL HEALTH DEPARTMENTS  
(Continued)

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Wisc.	Some primary and consultation work, assists in planning facilities.
Wyo.	Not applicable.
P. R.	*
V. I.	This is only lab in local health department.

TABLE 12-5. RELATIONSHIP OF THE LAB WITH LOCAL HOSPITAL AND INDEPENDENT CLINICAL LABS

---

Ala.	None, except for Serology.
Alaska	Lab provides most of their microbiology and public health lab and reference services.
Ariz.	Acts as a referral lab, performing tests they do not perform and checking questionable results at their request.
Ark.	Serves as reference lab; consultation; some bench training; also do tests for which they are not equipped.
Cal.	Has responsibilities for administering and enforcing the State law bearing on clinical labs and their personnel.
Colo.	Voluntary participation. Excellent rapport.
Conn.	*
Del.	*
D. C.	*
Fla.	*
Ga.	Makes diagnostic testing and confirmatory services available to both. Also provides refresher bench training in limited areas upon arrangement.
Hawaii	Reference and diagnostic services provided; syphilis serology proficiency testing; annual Medicare laboratory inspection; licensing of lab directors and technicians.
Ida.	Lab provides reference service and consultation to outside labs. Currently working closely to provide proficiency testing program on voluntary basis.
Ill.	Very cooperative.
Ind.	Supportive services are available where need is indicated.
Ia.	-
Kans.	Cooperation, supplementary, reference, consultation, and approval (syphilis serology, Medicare, hospital licensure).
Ky.	Very satisfactory - greatest contact through Syphilis Serology Evaluation Program. Also the Director is a member of the Kentucky State Society of Pathologists and has good relationships with the Society - reference services.
La.	To assist in identification and classification of organisms, performance of tests not performed in their labs, as virology, rubella, rabies, typing, etc.
Me.	Testing and consultative services to hospitals - same to independent labs plus certification for Medicare.
Md.	Provides lab services for communicable diseases and other lab services for the indigent and the medically indigent.
Mass.	Provides education and training through lab improvement. Provides highly specialized reference type lab services. Provides routine diagnostic services on request, syphilis serology.
Mich.	-
Minn.	State Lab serves as reference lab and supporting lab.
Miss.	*

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TABLE 12-5. RELATIONSHIP OF THE LAB WITH LOCAL HOSPITAL AND INDEPENDENT CLINICAL LABS  
(Continued)

Mo.	Direct contact thru Medicare Lab Surveys, Syphilis Serology Testing, Hospital Licensing; Reference Testing Service.
Mont.	Lab has responsibility for labs under Medicare and labs under the State Hospital Licensing Law - also responsibility for registration of labs and approval of labs performing prenatal and premarital syphilis serology exams and PKU.
Nebr.	Good, but not exploited.
Nev.	*
N. H.	Good to excellent.
N. J.	Affords reference services to local hospitals and proficiency testing and laboratory improvement activities (consultations seminars, workshops, bench training,) to both hospital and independent clinical labs.
N. M.	Support and reference laboratory.
N. Y.	Surveillance program to insure proficiency in operation of hospital and independent clinical labs under permit. Generally good liaison.
N. C.	Referral lab for them, provides diagnostic services, certification of their labs in syphilis serology, water and milk examination. Renders consultative services when requested.
N. D.	Reference work.
Ohio	Reference services in all phases of microbiology. Voluntary proficiency test service for approximately 250 labs. Premarital and Prenatal Serology Approval Program for over 300 labs. Frequent consultation with technical personnel. Individual bench training and occasional (at least annual) training courses for personnel. Medicare certification (independent clinical labs).
Okla.	*
Ore.	Rather formal. Most contacts pertain to regulatory activities. State Lab does considerable reference work from these sources, however.
Pa.	Licensing of independent clinical labs and extensive reference work for local hospital labs.
R. I.	Reference, consultative and training services provided.
S. C.	Provides services not available in these labs; consultation and confirmatory testing; bench training or other instruction to their personnel on request or invitation, proficiency testing.
S. D.	*
Tenn.	*
Tex.	They refer specimens, cultures, etc. to State Lab. The Lab provides workshops, lab improvement program in microbiology, and proficiency testing.
Utah	Provides training, reference exams and consultations.
Vt.	Voluntary friendly cooperation.
Va.	*
Wash.	Approves labs doing tests for prenatal syphilis serology. Offers consultation as requested. Serves as a reference lab. Provides bench training as requested.
W. Va.	Same as with local health departments.

TABLE 12-5. RELATIONSHIP OF THE LAB WITH LOCAL HOSPITAL AND INDEPENDENT CLINICAL LABS  
(Continued)

---

Wisc.	Consultation, lab improvement programs, and training of personnel.
Wyo.	Good.
P. R.	*
V. I.	-

TABLE 12-6. CHARGES FOR LABORATORY SERVICES

	Lab Has Fees for Some Services		If Yes, Services with a Fee and Charge per Unit:	Estimate of Total Annual Receipts from Charges	Disposition of Funds
	Yes	No			
Ala.	-	X	-	-	-
Alaska	X	-	Clam toxicity studies for certification of shellfish beaches - \$25.00.	1,250	Special budget which returns funds to Lab Branch
Ariz.	-	X	-	-	-
Ark.	X	-	Pre-marital syphilis serology - \$1.00 test.	16,487	Put into building fund for new building.
Cal.	-	X	-	-	-
Colo.	-	X	-	-	-
Conn.	*	*	*	*	*
Del.	-	X	-	-	-
D. C.	*	*	*	*	*
Fla.	-	X	-	-	-
Ga.	-	X	-	-	-
Hawaii	-	X	-	-	-
Ida.	-	X	-	-	-
Ill.	-	X	-	-	-
Ind.	X	-	Premarital serology, \$2.50; private water supply exams, \$2.50; commercial water, \$10.00 per year.	36,625	State Treasury
Ia.	X	-	Autogenous Vaccine, 5.00; Water Bact., 2.00 (coliform); Water Chemistry (iron, nitrate and hardness), 2.00; Water Chem. (complete mineral analysis), 20.00; BOD, 5.00; Pesticide, 10.00 minimum (for private individuals); TB Guinea Pig Inoculation, 5.00.	85,217	Spend
Kansas	X	-	Environmental Health Lab has charges. Single Bacteriological exam for Coliform, 2.00; Repetitious Bacteriological exam for coliform and chemical analysis - annual fee based on population served; partial chemical analysis, 7.50 each; complete mineral analysis, 23.00 each.	79,234	Water and Sewage Funds
Ky.	-	X	-	-	-
La.	-	X	-	-	-
Me.	-	X	-	-	-
Md.	-	X	-	-	-
Mass.	X (c)	X	Plasma Fractionation - \$12.25 per liter.	50,000	State Gen. Fund
Mich.	-	X	-	-	-
Minn.	-	X	-	-	-
Miss.	-	X	-	-	-
Mo.	-	X	-	-	-
Mont.	X	-	Bacteriological Analysis of Water, 2.00.	2,100	Deposit in State General Fund
Nebr.	-	X	-	-	-
Nev.	*	*	*	*	*
N. H.	-	X	-	-	-
N. J.	-	X	-	-	-
N. M.	-	X	-	-	-
N. Y.	-	X	-	-	-
N. C.	X	-	Water exam, 5.00 (d).	600	General Operating Fund
N. D.	-	X	-	-	-
Ohio	-	X	-	-	-
Okla.	*	*	*	*	*
Ore.	-	X	-	-	-
Pa.	X	-	Bacteriologic Water exam, 1.00/sample Viral diagnostic exam, 30.00/case	100,000	General Fund
R. I.	-	X	-	-	-
S. C.	-	X	-	-	-

TABLE 12-6. CHARGES FOR LABORATORY SERVICES  
(Continued)

	Lab Has Fees for Some Services		If Yes, Services with a Fee and Charge per Unit:	Estimate of Total Annual Receipts from Disposition Charges                      of Funds	
	<u>Yes</u>	<u>No</u>			
S. D.	*	*	*	*	*
Tenn.	-	X	-	-	-
Tex.	X	-	(Only by inter-agency contract. Mostly chem. water analysis on polluted or irrigation water and anthrax specimens.)	85,000	Budgeted for lab salaries, supplies, etc.
Utah	-	X	Toxicology, 2.50 to 50.00.	Has been in op- eration less than one year.	Helps finance toxicology lab
Vt.	-	X	-	-	-
Va.	-	X	-	-	-
Wash.	-	X	-	-	-
W. Va.	-	X	-	-	-
Wisc.	X	-	Clin. chem. tests, 1.00 ea. Cytology and Pathology tests, 1.00 per test.	*	Incorporated into annual operating budget
Wyo.	-	X	-	-	-
P. R.	-	X	-	-	-
V. I.	-	X	-	-	-

TABLE 12-7. RECIPIENTS OF LABORATORY'S SERVICES

	Percentage of Laboratory's Services Received by:				
	State & Local Public Health Activities	Reference Service for Other Labs	Private Physicians	Hospitals and Clinics	Other
Ala.	50	5	45 (e)	(e)	-
Alaska	15	5	55	25	-
Ariz.	49	-	24	10	17
					(Fed. Agencies, Indian Hlth, Water Companies)
Ark.	60	10	15	15	-
Cal.	*	*	*	*	*
Colo.	40	5	40	15	-
Conn.	*	*	*	*	*
Del.	*	1	*	*	-
D. C.	*	*	*	*	*
Fla.	50	1	49 (e)	(e)	-
Ga.	25	1	69	5	-
Hawaii	50	5	35	10	-
Ida.	50	4	38 (f)	8	-
Ill.	*	*	*	*	*
Ind.	*	*	*	*	*
Ia.	20	15	60	5	-
Kans.	43 (g)	12	25	20	-
Ky.	50	5	30	15	-
La.	*	*	*	*	*
Me.	5	5	85	5	-
Md.	60	10	25	5	-
Mass.	2 (h)	8	40	50	-
Mich.	*	*	*	*	*
Minn.	*	*	*	*	*
Miss.	75	5	10	10	-
Mo.	80 (i)	5	10	5	-
Mont.	20	5	30	10	35
					(Indian Health Service, PHS)
Nebr.	40	10	40	10	-
Nev.	*	*	*	*	*
N. H.	10	5	70	15	-
N. J.	*	*	*	*	*
N. M.	55	10	15	10	10
					(U.S. PHS)
N. Y.	40	40	10	10	-
N. C.	*	*	*	*	*
N. D.	30	10	10	40	10
					(Ind. Hlth Serv)
Ohio	42	14	16	23	5
					(Other St. Agencies)
Okla.	*	*	*	*	*
Ore.	45	5	40	10	-
Pa.	60	30	5	5	-
R. I.	40	10	45	5	-
S. C.	50	2	40	8	-
S. D.	*	*	*	*	*
Tenn.	45	5	30	20	-
Tex.	25	10	20	20	25
Utah	9	10	70	5	6
					(Highway Safety- Law Enforcement, etc.)
Vt.	*	*	*	*	*
Va.	*	*	*	*	*
Wash.	*	*	*	*	*
W. Va.	*	*	*	*	-

TABLE 12-7. RECIPIENTS OF LABORATORY'S SERVICES  
(Continued)

	Percentage of Laboratory's Services Received by:				
	State & Local Public Health Activities	Reference Service for Other Labs	Private Physicians	Hospitals and Clinics	Other (Other St. Depts.)
Wisc.	15	5	45	25	10
Wyo.	10	-	80	10	-
P. R.	*	*	*	*	*
V. I.	*	*	*	*	*

FOOTNOTES. SECTION XII

- (a) Alaska's laboratory system consists of a Branch of Laboratories having a Chief (Director) and one clerical staff member, and the three regional laboratories. The Regional Labs provide all the diagnostic services and are under the supervision of either a Microbiologist IV or III.
- (b) These are local laboratories which are encouraged thru State aid to serve as Regional State Public Health Laboratories. The total personnel of these laboratories almost equates that of State Laboratory in Austin. These laboratories are: Abilene - Taylor County, Abilene; Amarillo Bi-City-County, Amarillo; Brownwood - Brown County, Brownwood; Bryan-Brazos County, Bryan; Corpus Christi - Nueces County, Corpus Christi; Dallas City, Dallas; El Paso City - County, El Paso; Ft. Worth City, Ft. Worth; Greenville - Hunt County, Greenville; Houston City, Houston; Galveston County - Mainland Cities, La Marque; Laredo - Webb County, Laredo; Lubbock City - County, Lubbock; Midland - Ector - Howard County, Midland; Paris - Lamar County, Paris; Port Arthur City, Port Arthur; San Angelo - Tom Green County, San Angelo; San Antonio Metropolitan Health District, San Antonio; Cameron County, San Benito; Sweetwater - Nolan County, Sweetwater; Texarkana - Bowie County, Texarkana; Tyler - Smith County, Tyler; Waco - McLennan County, Waco; Wichita Falls - Wichita County, Wichita.
- (c) The Diagnostic Labshave no charges, but the Biological Laboratory does. The information in the remainder of the Table refers to the Biologics Laboratory.
- (d) Charged if not referred through local Health Department or physician.
- (e) Private physicians and Hospitals and Clinics included together.
- (f) State Laboratory considers tests performed for physicians as being an integral part of State Preventive Medicine Program.
- (g) This includes State Welfare institutions, 6%, and Law Enforcement Agencies, 7%.
- (h) These figures are for the Diagnostic Laboratories. Breakdown for the Biologics Laboratories is as follows: State and local public health activities, 30%; private physicians, 50%; Hospitals and Clinics, 20%.
- (i) These are gross guesses as no breakdown is available of the work performed.

SECTION XIII

SCIENTIFIC SERVICES AND ANIMAL ACTIVITIES



TABLE 13-1. MEDIA MADE IN THE LABORATORY.

Amounts in Liters	
Ala.	Approximately 170 types of media. 4,181.4 liters media and 1,283.3 liters solutions.
Alaska	-
Ariz.	2,000 (All media made in Central Service Laboratory with exception of a few tubes of Loeffler's.)
Ark.	Parasitology, 14; Tuberculosis, 559; Mycology, 77; Bacteriology, 1,105.
Cal.	Over 200 formulas of media, reagents, and stains are prepared by Central Laboratory Services from both dehydrated bases and from "scratch." No figures available in liters.
Colo.	(No record maintained.)
Conn.	*
Del.	Dehydrated media used.
D.C.	*
Fla.	Lowenstein's medium, 1,000; Urea TSI, 500; Loeffler's serum, 3; rice medium, 8.
Ga.	1,610 (108 different preparations, such as Lowenstein-Jensen's, Loeffler's serum, blood agar, beef extract broth, decarboxylase media, and ADC enrichment.)
Hawaii	Liquid, 195; solid, 300; semi-solid, 6.
Ida.	Lowenstein-Jensen, 15; Loeffler's, 2.
Ill.	Enteric, 375; Streptococcus, 150; Tuberculosis, 125; Mycology, 75.
Ind.	-
Ia.	Aesculin agar, .85; centrime agar, 1.1; deep meats, 11; egg yolk agar, 3; feces and urine solution, 10.5; H <sub>2</sub> S agar, .75; modified Bordet Gengou, 1; sodium acetate, 2.3; organic acid media, .2; HE agar, 2.8.
Kans.	Brom cresol purple SS base, 38.4; Brucella dye media, 1; carbohydrate semi-solid media, 62.8; chopped meat medium, 5; O-F medium, 5.6; pectate medium, .5; semi-solid, Jordans, 6; urea broth, 39.5; phenol red semi-solid base, 2.
Ky.	Lowenstein-Jensen, 60.
La.	*
Me.	-
Md.	Lowenstein base, fresh eggs and glycerine, 400; Wilson and Blair, 830; polypeptone agar, 400; special requests, approximately 25.
Mass.	Mueller, 220; modified Mueller II, 250; Cohen and Wheeler, 400; cositone agar, 20; Endo, 628; Pai, 12; Buf-Glycitol-Saline: Enteric, 4,368; 1% lactose-sucrose broth, 2,400; dehydrated PKU media purchased for laboratory, 553.
Mich.	21,309 liters of 169 types media. Actinomycetes isolation agar, 19; adonitol broth-1%, 2.1; Aesculin agar, 2; agar plain, 2%, 5; antibiotic assay agar, 8; Arabinose broth-1%, 5.7; beef extract agar, 1.5%, 2,146; beef extract broth, 10; beef heart infusion, 8; bismuth sulphite agar, 680; blood broth, 68; blood extract plates, 1,170; blood infusion plates, 240; brilliant green bile broth 2%, 187; carbohydrate, agar, 10%, 2; citramide agar, 1; charcoal agar, 7; Christensen's egg agar base, 68; Christensen's egg agar

TABLE 13-1. MEDIA MADE IN THE LABORATORY  
(Continued)

Amounts in Liters	
Mich. (Cont.)	finished, 29; same, with antibiotics, 42; citrate agar slants, 51; Connaught diluent, 83; cooked meat broth tubes, 3; cornmeal agar base, 20; cornmeal agar with 1% dextrose, 1.2; cyanide broth base, 2; cystine glucose blood agar slants, 8.4; dextrose agar slants 10%, 1; dextrose broth, 175; dextrose broth, 1%, 56.7; dextrose meat infusion broth, 30; Dorsets egg medium, 2.9; Dubos medium, 16; Ducitol broth 1%, 7.2; Earle's base medium #199, 352; FDA #2 agar, 10; FDA #2 broth, 54; Felton's broth with horse serum, 24; fermentation agar base, 16; formalin, 10%, 18; fungisterol test broth, 875; gelatin nutrient, CDC, 1.5; glycerine 30%, 240; glycerol beef infusion broth, 29; Hank's balanced salts, 240; Hank's base, medium #199, 118; Hank's lactalbumin hydrol., 796; heart infusion agar, 2.2; heart infusion broth, 1; hydrochloric acid-IN, 60; Inosite broth, 1%, 2.1; lactose agar slant, 10%, 1; lactose broth, 1%, 47; lauryl tryptose broth, 1,946; Levinthals agar, 124.7; litmus milk, 1.4; liver agar with gentian violet, 1.2; Loeffler's medium, 28; Lowenstein's medium, 235; Lowenstein's N. P. medium, 194; Lysin Falcow broth, 18; M Endo agar L.E.S., 34.9; M.F.C. broth base, 16; MacConkey's agar, 1,080; malachite green, 1; malonate broth, 9; maltose broth, 1%, 3; mannitol broth, 1%, 9; milk dilut. blanks, 1,085; nitrate broth, 4; nutrient egg agar, base, 100; nutrient egg agar, finished, 8.1; N.E.A. with Isoniazid, 22.7; N.E.A. with P.A.S., 22.7; N.E.A. with Streptomycin, 25.9; N.E.A. with Viomycin, 14; O-F medium base, 4.6; peptone iron agar, 10; pertussis med. diag. base, 75; pertussis diag. plates, 49; pertussis med. vaccine base, 445; pertussis diag. plates with Penn., 7.2; pertussis med. vaccine Blakes, 375; pertussis vaccine slants, 33.6; phenol red semi-solid base, 1; physiological saline, 1,530; same in Sorensens, 33; pork infusion agar, 25; potassium-tellurite plates, 10.6; potato dextrose agar pH 4.5, 37; potato dextrose agar pH 4.5 (3%), 12; same, pH 5.6, 8; same pH 6.8, 2; potato dextrose Strep. agar slants, 3.6; potato extract, 520; protease peptone #3 broth, 240; Pseudomonas f. agar, 7; Pseudomonas p. agar, 7; Rhamnose broth, 1%, 1.5; S and S agar, 680; Sabouraud's acid broth, 33; Sabouraud's agar, 40; salicin broth, 1%, 1.2; saline 0.85 pH 7.3, 304; saline 20x for F.T.A., 36; Schiffner's med. finished, 3.9; semi-solid motility, 73; sodium azide blood infusion plates, 145.5; sodium hydroxide, IN, 70; sorbitol broth, 1%, 9.6; Strep agar Blakes, 34.8; Strep assay agar, 65; Strep agar base, 40; sucrose broth, 1%, 53; tetrathionate broth base, 80; tetrathionate broth tubes, 20; thiogel med, 2; thioglycollate agar, 10; thioglycollate broth, 1,554; thio. water broth, 1.7; tomato agar base, 100; tomato agar sodium azide plates, 93.5; triple sugar agar, 168; trypticose soy agar, 666; trypticose soy broth, 90; tryptone glucose extract agar, 440; tryptose agar with 1% dextrose, 4; tryptone broth, 51; tryptose broth, 1; tryptose phosphate broth, 2; tryptose phosphate broth with gelatin, 2.5; typhoid vaccine agar, 56; urea agar base, 120; urea agar slants, 113.4; urea broth base, 20; urea broth tubes, 19.5; veal infusion base, 910; veal infusion agar, 1.1%, 50; veal infusion agar, 1.5%, 466; veal infusion agar, 2%, 6; veal infusion broth, 15; violet red bile agar, 150; V.P.M.R. broth, 58; xylose broth, 1%, 6; yeast ext. veal infusion agar, 2; and 24 types of media of less than 1 liter each.
Minn.	Petrognagni, 38.5; Lowenstein-Jensen, 38.5; egg yolk, 6; motility, 12; MRVP, 10; nutrient agar, 7; meat infusion broth, 74.6; Simmons citrate, 9; Sabouraud's-glucose, 9; carbohydrates, 112.9; urine, 1.4.
Miss.	Only an occasional special media in very small quantities.
Mo.	Practically all media purchased in dehydrated form. Of the few made from basic ingredients probably less than 50 liters prepared per year.
Mont.	SS agar, 70; tryptose blood agar base, 75; lauryl tryptose broth, 1,352; minimum essential medium (Eagles), 150.
Nebr.	-
Nev.	*
N.H.	-
N.J.	Lowenstein-Jensen's, 167; fermentation broth, 1,060; special BHK, 120; MEM, 162; BAF, 15; MeLo A, 213; EM, 177; PBS and BSS, 172.

TABLE 13-1. MEDIA MADE IN THE LABORATORY  
(Continued)

Amounts in Liters

N.M.	Blood agar; chocolate agar; modified Lowensteins, 240.
N.Y.	#5524, 64.7; 90-1 solution, 6; beef infusion, 13.6; beef infusion Strep broth, 74.1; chopped meat broth, 19.3; influenza media 2.0; extract broth, 215.4; lactose broth, single strength, 619.4; lactose broth, double strength, 866; Lowenstein-Jensen, 87.8; Skim milk, 10.6; skim milk plus brom cresol purple, 12.3; leptospira media, 20; peptone medium, 11.5; peptone water, 56.9; brilliant green media, 459.5; tetracyanate broth, 106; tryptone solution, 24.5; tryptone solution plus nitrate, 4.7; beef extract gelatin, 2.6; beef heart infusion, semi-solid, 1; beef infusion agar, 166.4; beef infusion agar plus x and v factors, 2; beef infusion agar with ascitic fluid, 2.1; beef infusion agar, semi-solid, with serum, 2; beef infusion serum glucose agar, 3; beef infusion serum glucose agar with tellurite and copper sulfate, 1.3; heart infusion agar, 891.9; beef extract agar, 15.5; phage agar, 3.5; Russell's sugar agar, 8; Shigella and Salmonella agar, 160; DC agar, 100.8; DS agar, 240; Endo, 200.5; citrate agar, 15; urea agar, 30; chocolate, 73; starch gelatin agar, 5.2; potato infusion agar 30; Sabouraud modified agar, 2; Sabouraud agar with glucose, 21.3; Sabouraud broth, 97; Wart agar, 2; thioglycollate broth, 442.5; buffered diluted water, 1,506.4; citrate buffered glycerol solution, 4; 8500% salt solution, 3,396.6; sodium chloride solution 48 borate buffered, 1.5; phosphate buffered salt solution, 6,258.7; buffered glycerol, 52; Alsederf solution, 25.1; sulfate chromate acid cleaning mixture, 418; paraffin vaseline mixture, 3.4; acetamide agar, 3.2; actinomyces broth, 7.7; agar, Bacto and Merth 1:5000, 29.7; agar, Special #1, 355.5; agar, Special #2, 25.7; algae medium, 482.2; ammonium persulfate solution, 3.5; ammonium carbonate, 7.5; antibiotic med., 10.8; A.S.P. #2 med., 12; azide dextrose broth, 10.7; Baptist's med., 49.2; Barbitol buffer solution, 7.5; borate saline solution, 19.9; bovine albumin med., 11.5; brain heart infusion agar, 8.7; brilliant green agar, 20.9; Caldarium med., 21.5; carbonate-bicarbonate solution, 3.8; Casimino acid solution, 39.9; casein hydrolyzate broth, 13.4; casitone starch med., 2.5; CHHA med., 17.4; citric acid solution, 8; citrate solution, 2; citric phos. sol., 4.4; corn meal dextrose agar, 45.2; corn meal agar, 7.1; cryptococcus antigen agar, 3; cryptococcus med., 3; Cy. II med., 65.9; Czappers agar, 8; Czappers broth, 1; decarboxylase broth, 3; desoxycholate lactose agar, 278.4; dextrose-gelatin-veronal med., 9.1; Dubos-Davis med., 687.6; DV med., 11; E.C. med., 18.2; EDTA solution, 1.5; EMB agar, 17.3; EVA broth, 6.4; ferro chloride gelatin, 10; formalin solution, 1.8; F med., 1; gelatin H <sub>2</sub> O, 25.5; glucose solution, 1,552.5; glucose asparagine agar, 2.5; glycine med., 79.9; heart infusion broth, 1.6; Hickey-Treshers agar, 2.9; Jones med., 11; K.A. potato agar, 2; Kosar citrate med., 1; Longs med., 2.3; lysine iron med., 1; MacConkey's med., 36.8; MacRae-Wilkenson med. 6.5; malt agar-broth, 7.3; Martins broth, 5.7; motility test med., 35.4; Mueller-Hinton med., 6; mycobacterium broth, 1; mycosel agar, 19.3; neopeptone agar, 173.3; neopeptone dialysate med., 2; neutralizing buffer, 1.8; Niger seed med., 1; NIH med., 4.9; Noble agar, 2.2; N-D med., 37.6; nutrient broth-agar, 11.1; N-Z case med., 161; penassay seed agar, 9.5; persicinum med., 112.5; phenol red agar, 10.2; phenylalanine agar, 3; phenylethyl alcohol agar, 10.3; phos. buffer solution, 101.1; potato flakes med., 25.2; potato dextrose agar (PHyco), 52.7; potato infusion agar, 6; PK fungal agar, 2; plate count agar, 974.5; polyspora growth med., 1; potassium chloride solution, 71.5; potassium cyanide med., 1.7; PPLO broth-agar, 40.8; prune agar, 1; P.V.A. solution, 12.5; Pyocyanous med., 1.5; Sabouraud dextrose agar, 200.1; saline phos. solution, 13.5; Salvins med., 12.3; sea water SA med., 1; silver nitrate solution, 6; Similac formula, 9.1; skim milk (dehydr.), 9.9; sodium carbonate solution, 3.8; sodium citrate solution, 74; sodium hydroxide solution, 125; sodium phosphate solution, 2.5; sodium thiosulfate, 23.2; Sorensen's med., 59.1; soytone agar, 7.2; Stuarts transport med., 5; sucrose solution, 1.1; TBS, 1,235.5; Todd-Hewitt broth, 129.8; TolyTem med., 36.5; tomato paste oatmeal agar, 5.9; tris buffered solution, 300.8; Tryptone med., 1.8; tryptose agar (dehydr.), 9.3; tryptose agar, 11; tryptone phosphate broth, 50; trypticase soy agar-broth, 374.8; T.S.I. agar, 47.4; TTSS <sub>4</sub> med., 25.8; tyrosine med., 1.6; VDRL med., 12; yeast beef agar, 4.6; yeast carbon base, 1.2; yeast casein agar, 1.5; yeast extract glycerol agar, 3.3; yeast extract solution, 3.4; yeast extract dextrose carbonate med., 5.9; zoospores med., 1.5; #1603, 2; #1640, 6; 199H, 240; Bodians, 55.2; bovine plasma albumin, 26; bovine serum albumin, 3.5; Dulbecco's, 13; Eagles, 1,288.5; Earle's, 11; Hanks med., 310; HI and washed agar, 1; Hyets, 21.9; McCoy SA med., 1; Melnick's monkey med., 21; MEM med. 1; NaHCO <sub>3</sub> solution, 31.8; neutral

TABLE 13-1. MEDIA MADE IN THE LABORATORY  
(Continued)

Amounts in Liters	
N.Y. (Cont.)	red solution, 1; Syvertons med., 1.2; THAM (TRIS), 3.4; trypsin solution-dil., 76.4; tryptose phosphate broth, 40; versene salt base, 27.8; all other, 358.2; total media prepared: 26,015.7 liters.
N.C.	Dehydrated, 5,500.
N.D.	-
Ohio	Hohn's TB med., 208; Loeffler's med., 4.8; cornmeal agar, 4.5; cooked meat, iron milk, rice, etc., 5.
Okla.	*
Ore.	Endo, 100; Loeffler's, 10; Lowenstein-Jensen, 85; lauryl tryptose broth, 1,800; Tinsdale, 5; Elek, 5; paracolon med., 25.
Pa.	-
R.I.	GC media, 19; sugar broth, 12; urea, 2.5; agar slants, 8; Tinsdale, 2; indole broth, 10; carbohydrate broth, 12.
S.C.	Lowenstein-Jensen (partially), 200.
S.D.	*
Tenn.	Lowenstein-Jensen, 600; Middlebrook 7H10 agar, 900; Sabourauds agar, 35; brain heart infusion agar, 35.
Tex.	Lowenstein-Jensen, 1,964; urea 41 med., 235; Middlebrook 7H10, 284; fermentation broth base, 86.
Utah	Lowenstein-Jensen, 72.
Vt.	Lowenstein-Jensen, 100.
Va.	-
Wash.	Stool preservative, 36; motility, 4.8; Tween albumin broth, 1.2; nitrate broth routine, 2.4; TGY, 2.4; infusion nitrate, 2.4; fermentation sugars, 19.2; fermentation CM, 1.6; vernal buffer, 8; buffered diluent, 6; CHO, 1; Sabouraud dextrose agar plus C+C plus thiamin, 4; Lowenstein-Jensen's, 120; PAL, 8; decarboxylase arginine, 6; ornithine, 6; lysine, 6; cooked meat for anaerobes, 2; <u>Bacillus cereus</u> -MYP agar, 1.5; <u>Cl. perfringens</u> antigen, 2; Amies (Wash. State modification), 48; Tech, 1; Flo, 1; Phenylalanine, 1; cornmeal agar, 2; egg yolk plates (food), 3; tomato juice agar, 5; and 19 types of less than 1 liter each.
W.Va.	-
Wisc.	Special test media for Bacteriology Section, 50; tissue culture media for special studies, 40.
Wyo.	-
P.R.	*
V.I.	-

TABLE 13-2. REQUISITIONING OF GLASSWARE FROM CENTRAL SUPPLY

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Ala.	No requisitions.
Alaska	Each laboratory has its own storeroom and purchases new glassware by requisition to Office of Chief.
Ariz.	A "clean" and a "sterile" glassware closet maintained and microbiologists take glassware as needed. As dirty glassware is processed and sterilized, it is placed in these closets.
Ark.	As needed.
Cal.	By order form which specifies special preparation needed, date and time needed, type of wash treatment, etc.
Colo.	By voice and personal pick up.
Conn.	*
Del.	Supplies are requested from Purchasing Office.
D.C.	*
Fla.	Requisition in quadruplicate.
Ga.	Written requisition for new items.
Hawaii	By requisition forms.
Ida.	Picked up when needed.
Ill.	New glassware issued from central supply on interlaboratory supply form. Clean glassware storage areas maintained by individual laboratories.
Ind.	A supply of glassware is maintained in each division by central supply.
Ia.	Telephone or written note.
Kans.	-
Ky.	By use of requisition forms.
La.	*
Me.	By requisition.
Md.	Written requisition, weekly routine or emergency.
Mass.	No central supply. Individual laboratories stock their own.
Mich.	By stock number by requisition.
Minn.	Through written requisition from each section requesting glassware.
Miss.	Glassware is stored in laboratory areas and not central supply.
Mo.	Central supply items distributed to laboratory units as purchased.
Mont.	No central supply. Services order glassware from purchasing twice yearly.
Nebr.	-
Nev.	*
N.H.	As needed.
N.J.	Written orders from programs; delivery by Central Service personnel.
N.M.	Written request.
N.Y.	Glassware requisition forms.
N.C.	Requisition form.
N.D.	-
Ohio	Verbal request and/or written requisition to Administrative Officer of Laboratory. (Some glassware stored in individual laboratories, washed and returned.)
Okla.	*
Ore.	-
Pa.	Internal stores requisition form used to identify and request the quantity of an item wished, and is directed to a glassware unit.
R.I.	No central supply. Glassware items stored in individual sections.
S.C.	Requisitioned by individual responsible for common glassware area.
S.D.	*
Tenn.	By individual request.
Tex.	By telephone or written request.
Utah	By requisition.
Vt.	Verbally.
Va.	-
Wash.	Glassware items distributed on routine basis.
W.Va.	By written order, with maximum of three day waiting period.
Wisc.	Service area pick-up and delivery.
Wyo.	Glassware returned to laboratory for storage.
P.R.	*
V.I.	On regular forms with full description of each item.

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TABLE 13-3. WATER TREATMENT PROCEDURES

	Distilled Water		Demineralized Water		Preparation of Water	
	Prepared	Purchased	Prepared	Purchased	Centrally	Local Lab. Areas
Ala.	X	-	X	-	X	-
Alaska	X	-	-	-	-	X
Ariz.	X	-	X	-	X (a)	X (b)
Ark.	X	-	X	-	X	X
Cal.	X	-	X	-	X (c)	X (a)
Colo.	X	-	X	-	X	X
Conn.	*	*	*	*	*	*
Del.	X	-	-	-	X	-
D.C.	*	*	*	*	*	*
Fla.	-	X	-	X	-	-
Ga.	X	-	X	-	X (a)	X (b)
Hawaii	X	-	X	-	-	X
Ida.	X	-	X	-	X	-
Ill.	X	-	X	-	X	-
Ind.	X	-	X	-	X	-
Ia.	X	-	X	-	X	-
Kans.	X	-	X	-	X	-
Ky.	X	-	X	-	X	-
La.	X	X	X	-	-	X
Me.	X	-	-	-	X	-
Md.	X	-	X	-	X	X
Mass.	X	-	X	-	-	X
Mich.	X	-	X	-	X	-
Minn.	X	-	X	-	X	X
Miss.	X	-	-	-	X	-
Mo.	X	-	X	-	X	-
Mont.	X	-	X	-	X (a)	X (d)
Nebr.	X	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	X	-	X	-	X	-
N. J.	X	-	X	-	X	-
N.M.	X	-	X	-	X	-
N.Y.	X	-	X	-	X	-
N.C.	X	-	X	-	X	-
N.D.	X	-	X	-	-	X
Ohio	X	-	X	-	X	-
Okla.	*	*	*	*	*	*
Ore.	X	-	X	-	X	-
Pa.	-	-	X	-	X	-
R. I.	X	-	X	-	X	-
S.C.	X	-	-	-	X	-
S.D.	*	*	*	*	*	*
Tenn.	X	-	X	-	X	-
Tex.	X	-	-	X	X	-
Utah	-	-	X	-	X	-
Vt.	X	-	-	-	X	-
Va.	X	-	X	-	-	X (e)
Wash.	X	-	X	-	X	X
W.Va.	X	-	X	-	X	X (e)
Wisc.	X	-	X	-	X	-
Wyo.	X	-	X	-	X	-
P.R.	X	-	X	-	-	X
V. I.	X	-	-	-	X	-

TABLE 13-3. WATER TREATMENT PROCEDURES  
(Continued)

Method of Distribution of Centrally Treated Water

Ala.	Very large plastic dispensers.
Alaska	-
Ariz.	Piped from still in equipment room into laboratories. A small demineralizer is used in Chemistry. If double or triple distilled water is required, it is done in Chemistry.
Ark.	The Sections come and get what they need.
Cal.	Gravity flow system.
Colo.	By carboy and by pipe.
Conn.	*
Del.	*
D.C.	*
Fla.	-
Ga.	By centrifugal pump or gravity through tin-lined pipes.
Hawaii	-
Ida.	Aluminum piping.
Ill.	Stainless steel piping.
Ind.	By line distribution.
Ia.	Through PVC distribution system.
Kans.	Jugs.
Ky.	By pipeline to each unit.
La.	-
Me.	By bottle.
Md.	Limited piped distribution in Central Laboratory.
Mass.	-
Mich.	Distilled water - block tin-lined pipe or plastic fittings; demineralized water - plastic pipe and fittings.
Minn.	*
Miss.	Pipe.
Mo.	Carboys.
Mont.	Through special piping (tinned copper pipe).
Nebr.	Hand carried, maximum of 80 feet.
Nev.	*
N.H.	Tin-lined pipes.
N.J.	Gravity, building tin-lined plumbing system throughout laboratory.
N.M.	Single Distillation American Sterilizer Still passed through demineralizer before use.
N.Y.	Piped to various locations.
N.C.	Tin pipe distribution system.
N.D.	-
Ohio	Pipe system (gravity flow).
Okla.	*
Ore.	Two sources - delivered in carboys to operating sections.
Pa.	By cart in covered carboys.
R.I.	Picked up from Water Laboratory by individuals.
S.C.	Piped to various sections of the laboratory.
S.D.	*
Tenn.	Tin-lined brass piping system.
Tex.	Gravity flow through tin-lined metal pipe from still and tank located in penthouse of laboratory building.
Utah	Pyrex carboys or plastic bottles.
Vt.	Tygon tubed to each laboratory.
Va.	-
Wash.	By glass or plastic bottles.
W.Va.	Aluminum pipeline with one or more outlets in each section of laboratory.
Wisc.	Distilled water piped throughout building.
Wyo.	Five gallon carboys are distributed to individual laboratories.
P.R.	-
V.I.	In 5 gallon glass and plastic bottles.

TABLE 13-4. EQUIPMENT MAINTENANCE AND SERVICE PROGRAM

	Organized Preventive Maintenance Program in Effect		Equipment Maintenance Man on Staff		Other Sources of Maintenance
	<u>Yes</u>	<u>No</u>	<u>Yes</u>	<u>No</u>	
Ala.	X	-	X	-	-
Alaska	X (f)	-	-	X	Div. of Building contracts with companies in States.
Ariz.	X	-	X	-	-
Ark.	X	-	X	-	Obtained for some items.
Cal.	X (g)	-	-	X	-
Colo.	X	-	X (h)	-	Manufacturers' representatives and local lab. supply houses.
Conn.	*	*	*	*	*
Del.	X	-	-	X	State Board of Health has contracts with appropriate specialists.
D.C.	*	*	*	*	*
Fla.	X	-	-	X	Private companies.
Ga.	X	-	X	-	-
Hawaii	-	X	-	X	Service or repair calls to appropriate companies.
Ida.	-	X	-	X	Laboratory has a chemist available who is well-trained in electronic maintenance.
Ill.	-	X	X	-	Some service contracts on sophisticated instruments plus emergency repairs when necessary.
Ind.	X (f)	-	X	-	-
Ia.	X	-	-	X	Manufacturers' service contracts.
Kans.	X (i)	-	-	X	From Building and Grounds Section of Administrative Department.
Ky.	X (j)	-	-	X	From outside contractors (electrical, refrigeration and plumbing).
La.	X (f)	-	-	X	Local dealers.
Me.	-	X	-	X	Hit or miss.
Md.	X	-	X	-	Extensive maintenance is on contractual basis.
Mass.	-	X	-	X	By personnel with other maintenance responsibilities and by equipment manufacturers.
Mich.	X	-	X	-	-
Minn.	-	X	-	X	Through contract.
Miss.	-	X	-	X	State Capitol Commission.
Mo.	-	X	-	X	Commercial companies and certain staff members.
Mont.	-	X	-	X	Each laboratory unit takes care of its own equipment. State building maintenance is contracted out.
Nebr.	-	X	-	X	Individual members help.
Nev.	*	*	*	*	*
N.H.	X	-	-	X	By Maintenance Department of New Hampshire Hospital, Concord.
N.J.	X	-	-	X	Own personnel, building engineers, service contractors and/or local tradesmen.
N.M.	X	-	-	X	Provided by U. of New Mexico staff.
N.Y.	X	-	X	-	Through contract for specialized equipment.
N.C.	-	X	-	X	Stock clerks talented in maintenance perform these services. General Services Division, Dept. of Administration.



TABLE 13-4. EQUIPMENT MAINTENANCE AND SERVICE PROGRAM  
(Continued)

	Organized Preventive Maintenance Program in Effect		Equipment Maintenance Man on Staff		Other Sources of Maintenance
	<u>Yes</u>	<u>No</u>	<u>Yes</u>	<u>No</u>	
N.D.	-	X	-	X	-
Ohio	-	X	-	X	Services from commercial firms as needed.
Okla.	*	*	*	*	*
Ore.	X	-	-	X	Commercial contract.
Pa.	-	X	-	X	Purchased on an as needed basis.
R.I.	-	X	-	X	Service contracts with manufacturers.
S.C.	-	X	-	X	Equipment is checked when not function- ing properly. If Scientific Services staff cannot repair equipment, outside vendor services requisitioned.
S.D.	*	*	*	*	*
Tenn.	-	X	-	X	Commercial electric, air conditioning, and plumbing companies.
Tex.	-	X	-	X	By General Services Staff of Texas State Health Department.
Utah	X	-	-	X	By contract.
Vt.	X	-	X	-	-
Va.	-	X	-	X	Either from manufacturers' service representatives on contractual basis or from service department of local laboratory supply house.
Wash.	X	-	X	-	Some equipment on requisitioned preven- tive maintenance agreement.
W.Va.	X	-	X	-	-
Wisc.	X	-	X	-	University Maintenance Department and outside servicemen.
Wyo.	-	X	-	X	-
P.R.	-	X	-	X	From commercial maintenance service.
V.I.	-	X	-	X	Private services are solicited.

TABLE 13-5. NUMBER OF ANIMALS USED BY TYPE

	Guinea Pigs	Mice and Rats	Rabbits	Monkeys	Chickens	Other
Ala.	325	14,296	120	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	7,306	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	700	78,390	800	50	-	Hamsters-9,515;Dogs-50.
Colo.	-	8,000	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	532	-	-	-	-
D.C.	*	*	*	*	*	*
Fla.	4	* (k)	-	-	204 (l)	-
Ga.	55	9,595	29	-	-	-
Hawaii	35	570	-	-	320 (m)	-
Ida.	-	500	-	-	-	-
Ill.	325	6,400	146	-	-	-
Ind.	3	1,225 (n)	5	-	-	-
Ia.	95	2,500	20	-	-	Geese-3
Kans.	-	380	8	-	-	-
Ky.	12	200-300	-	-	3-6	-
La.	*	*	-	-	-	-
Me.	-	160	-	-	-	-
Md.	350	10,060	-	-	-	-
Mass.	1,050	11,000	700	-	-	Goat-1; Horses-24.
Mich.	33,502	95,661	883	-	-	Calves-26;Sheep-100.
Minn.	314	17,890	30	-	-	-
Miss.	6	100	10	-	20 (o)	-
Mo.	6	10,000 (n)	-	-	200	-
Mont.	4	120 (p)	-	-	600 (q)	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N.H.	-	142	-	-	-	-
N.J.	20	94,695 (r)	36	52(s)	180,000 (t)	-
N.M.	50-60	1,106	-	-	-	-
N.Y.	4,484	310,562	896	-	10	Hamsters-1,730.
N.C.	19	6,742	2	-	-	-
N.D.	-	-	-	-	-	-
Ohio	18	14,860	10	-	-	-
Okla.	*	*	*	*	*	*
Ore.	10	100 (n)	-	-	-	-
Pa.	1,200	2,460	30	-	-	-
R.I.	2	100	-	-	-	-
S.C.	-	* (u)	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	7,000	22	-	-	-
Tex.	571	6,669	153	-	1,822 (v)	Sheep-321; Geese-11.
Utah	10-30	500-1,000	1-10	0-12	20-50 (o)	-
Vt.	-	500	-	-	-	-
Va.	-	2,500	-	-	-	-
Wash.	60	6,000	-	-	-	-
W.Va.	200	2,000	6	-	-	-
Wisc.	10	57,906	24	24	522 (w)	-
Wyo.	-	-	-	-	-	-
P.R.	36	1,650	80	-	-	Sheep-36; Fish-12.
V.I.	-	-	-	-	-	-

TABLE 13-6. NUMBER OF ANIMALS BRED BY TYPE

	Guinea Pigs	Mice and Rats	Rabbits	Monkeys	Chickens	Other
Ala.	*	*	*	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	7,306	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	-	78,390	-	-	-	-
Colo.	-	10,000	-	-	-	Hamsters-9,515; Dogs-50.
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D.C.	*	*	*	*	*	*
Fla.	-	25,012	-	-	-	-
Ga.	12	7,195	-	-	-	-
Hawaii	-	650	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	2,500	-	-	-	-
Kans.	-	* (x)	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	3,500-4,500	-	-	-	-
Me.	-	-	-	-	-	-
Md.	516	2,500	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	36,787	116,452	-	-	-	Sheep-100.
Minn.	4	19,969	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	10,000	-	-	-	-
Mont.	-	* (y)	-	-	540	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N.H.	-	70	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	50-60	1,106	-	-	-	-
N.Y.	4,484	419,891	896	-	-	Hamsters-1,730.
N.C.	*	*	*	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	1,200	2,100	-	-	-	-
R. I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	7,000	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	10-30	500-1,000	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	10,000	-	-	-	-
W. Va.	150	4,000	-	-	-	-
Wisc.	-	44,287	-	-	520	-
Wyo.	-	-	-	-	-	-
P.R.	36	1,650	80	-	-	Sheep-36; Fish-12.
V. I.	-	-	-	-	-	-

TABLE 13-7. NUMBER OF ANIMALS PURCHASED BY TYPE

	Guinea Pigs	Mice and Rats	Rabbits	Monkeys	Chickens	Other
Ala.	*	*	*	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	700	-	800	50	-	-
Colo.	-	-	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	532	-	-	-	-
D.C.	*	*	*	*	*	*
Fla.	4	-	-	-	204	-
Ga.	-	2,400	29	-	-	-
Hawaii	- (z)	-	-	-	20 (z)	-
Ia.	-	500	-	-	-	-
Ill.	344	6,644	146	-	-	-
Ind.	3	1,225	5	-	-	-
Ia.	95	-	20	-	3	Geese-3
Kans.	-	-	8	-	-	-
Ky.	12	200-300	-	-	3-6	-
La.	*	*	*	*	*	*
Me.	-	160	-	-	-	-
Md.	-	7,560	-	-	-	-
Mass.	1,050	11,000	700	-	-	Horses-4
Mich.	-	6,310	883	-	-	Calves-26
Minn.	310	-	30	-	-	-
Miss.	6	100	10	-	20	-
Mo.	-	-	-	-	200	-
Mont.	4	-	-	-	60	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N.H.	-	72	-	-	-	-
N.J.	26	94,695	36	52	180,000	-
N.M.	-	-	-	-	-	-
N.Y.	-	-	-	-	10	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	18	14,860	10	-	-	-
Okla.	*	*	*	*	*	*
Ore.	10	100	-	-	-	-
Pa.	-	360	30	-	-	-
R.I.	-	300	-	-	-	-
S.C.	-	50	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	22	-	-	-
Tex.	524	4,692	96	-	1,844 (aa)	-
Utah	-	-	1-10	0-12	20-50	-
Vt.	-	500	-	-	-	-
Va.	-	2,500	-	-	-	-
Wash.	60	-	-	-	-	-
W.Va.	50	1,000	6	-	-	-
Wisc.	10	13,619	24	24	2	-
Wyo.	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 13-8. MAJOR USES OF ANIMALS BY TYPE

Guinea Pigs		Mice and Rats
Ala.	*	*
Alaska	-	-
Ariz.	-	Rabies inoculation; to make brain suspension; mycology.
Ark.	-	-
Cal.	Immune serum production, biological testing.	Virus diagnosis, toxicological evaluations, immune serum production.
Colo.	-	Virology
Conn.	*	*
Del.	-	Rabies diagnosis.
D.C.	*	*
Fla.	Red blood cells.	Rats- red blood cells; 150 litters- enteric viruses; 3000 weanlings- toxoplasmosis, food poisoning; 1500 litters- arbovirus isolation; 2000 weanlings (19-21 days)-rabies, infected and noninfected mouse brain; 300 litters- arbovirus antigens.
Ga.	Complement.	Diagnostic virology.
Hawaii	Pathogenicity, toxin-antitoxin, toxicity, viral serology.	Toxicity, bacterial and viral isolation.
Ida.	-	Rabies.
Ill.	Diphtheria virulence, vaccine testing.	Rabies confirmation, toxoplasmosis, vaccine testing.
Ind.	Diphtheria virulence.	Rabies tests.
Ia.	Inoculation.	Inoculation.
Kans.	-	Virology.
Ky.	Bacteriology.	Rabies.
La.	Identification of Mycobacteria.	Rabies and virology.
Me.	-	Maintenance rabies control slides.
Md.	Tuberculosis.	Virology.
Mass.	Potency testing, safety testing, toxicity testing.	Experimental.
Mich.	Tuberculosis diagnosis, biologics testing.	Rabies diagnosis, biologics testing, research.
Minn.	Tuberculosis.	Virology.
Miss.	Complement.	Rabies.
Mo.	Blood cells.	Rabies inoculation.
Mont.	Rbc for hemabsorption.	Virus isolation, breeders, toxicity tests.
Nebr.	-	-
Nev.	*	*
N.H.	-	Rabies.
N.J.	Preparation of hyperimmune sera.	Virus isolation, serology, and research.
N.M.	Inoculations.	Inoculations.
N.Y.	Research and diagnosis.	Research and diagnosis.
N.C.	Serum production.	Virology.
N.D.	-	-
Ohio	Tuberculosis.	Virology, encephalitis project, rabies, food poison.
Okla.	*	*
Ore.	Blood.	Rabies, miscellaneous virus, shellfish.
Pa.	Diagnostic Services research.	Diagnostic Services research.
R.I.	Diphtheria.	Rabies.
S.C.	-	Mycology, virology.
S.D.	*	*
Tenn.	-	Virology, mycology.
Tex.	Rickettsial serology, isolation of <u>Mycobacterium tuberculosis</u> from fluids; isolation of <u>B. anthracis</u> ; diphtheria animal virulence test, vaccines (safety test, potency test, MLD test).	Vaccines (potency test, safety test, toxicity test); toxins in food, virus isolation, toxoplasma antigen, relapsing fever.

TABLE 13-8. MAJOR USES OF ANIMALS BY TYPE  
(Continued)

Guinea Pigs		Mice and Rats
Utah	Bacteriology.	Virology.
Vt.	-	Rabies, virology.
Va.	-	Rabies, virology.
Wash.	Tuberculosis and special studies.	Virology.
W.Va.	Vaccines, Tuberculosis.	Rabies, virus isolates.
Wisc.	Red blood cells.	Virus isolation and neutralization tests.
Wyo.	-	-
P.R.	Inoculation and bleeding.	Inoculation.
V.I.	-	-

  

Rabbits		Monkeys
Ala.	*	-
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	Immune serum production, biological testing.	Immune serum production, tissue donors.
Colo.	-	-
Conn.	*	*
Del.	-	-
D.C.	*	*
Fla.	-	-
Ga.	Antiserum.	-
Hawaii	-	-
Ida.	-	-
Ill.	Vaccine production and testing.	-
Ind.	Serum source.	-
Ia.	Bleeding.	-
Kans.	Antiserum.	-
Ky.	-	-
La.	-	-
Me.	-	-
Md.	-	-
Mass.	Pyrogen testing, blood immunization.	-
Mich.	Testing purposes.	-
Minn.	Microbiology.	-
Miss.	Silver nitrate testing, blood.	-
Mo.	-	-
Mont.	-	-
Nebr.	-	-
Nev.	*	*
N.H.	-	-
N.J.	Virus isolations, preparation of hyper-immune sera.	Tissue culture and sera.
N.M.	-	-
N.Y.	Research and diagnosis.	-
N.C.	Serum production.	-
N.D.	-	-
Ohio	Immune serum preparation for evaluation program.	-

TABLE 13-8. MAJOR USES OF ANIMALS BY TYPE  
(Continued)

Rabbits		Monkeys
Okla.	*	*
Ore.	-	-
Pa.	Diagnostic Services research.	-
R.I.	-	-
S.C.	-	-
S.D.	*	*
Tenn.	Antiserum production.	-
Tex.	Vaccines (potency test, identity test), production of diagnostic antisera, culture media, rabies brain suspension for FA, ASO.	-
Utah	Bacteriology, virology.	Tissue cultures, virology.
Vt.	-	-
Va.	-	-
Wash.	-	-
W.Va.	Sera bleeding.	-
Wisc.	Antiserum.	Tissue culture.
Wyo.	-	-
P.R.	Bleeding.	-
V.I.	-	-

Chickens		Other
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	-	Hamsters- immune serum production, and tumor production toxin test. Dogs- toxicological evaluations.
Colo.	-	-
Conn.	*	*
Del.	-	-
D.C.	*	*
Fla.	Rubella (chicks), red blood cells (chickens).	-
Ga.	-	-
Hawaii	Viral serology.	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	Geese- bleeding.
Kans.	-	-
Ky.	Virus.	-
La.	-	-
Me.	-	-
Md.	-	-
Mass.	-	Horses- antilymphocyte serum, normal serum, defibrinated blood. Goat- anti- serum.

TABLE 13-8. MAJOR USES OF ANIMALS BY TYPE  
(Continued)

	Chickens	Other
Mich.	-	Sheep- media. Calves- production of smallpox vaccine.
Minn.	-	-
Miss.	Diphtheria.	-
Mo.	HA and HI.	-
Mont.	HA and HI. Arbovirus isolation.	-
Nebr.	-	-
Nev.	*	*
N.H.	-	-
N.J.	Isolation serology and research.	-
N.M.	-	-
N.Y.	Research and diagnosis.	Hamsters- research and diagnosis.
N.C.	-	-
N.D.	-	-
Ohio	-	-
Okla.	*	*
Ore.	-	-
Pa.	-	-
R.I.	-	-
S.C.	-	-
S.D.	*	*
Tenn.	-	-
Tex.	Chickens- production of antisera, rbc for influenza HI tests; baby chicks- rbc for rubella HI tests; chick embryos- virus isolation (influenza and pox viruses). Virology.	Geese- rbc for arbovirus HI test. Sheep- culture media, rbc for CF tests.
Utah		
Vt.	-	-
Va.	-	-
Wash.	-	-
W.Va.	-	-
Wisc.	Red blood cells.	-
Wyo.	-	-
P.R.	-	Sheep- bleeding. Fish- water pollution.
V.I.	-	-



FOOTNOTES: SECTION XIII

- (a) Distilled.
- (b) Demineralized.
- (c) For general supply.
- (d) Distilled or demineralized.
- (e) Some areas.
- (f) Partial program.
- (g) For autoclaves, balances, microscopes.
- (h) Health Department staff.
- (i) Sterilizers and BC-4.
- (j) Autoclaves, sterilizers and deionizer.
- (k) Used 5000 weanlings, 12 rats, and 1950 litters.
- (l) 200 were day-old chicks.
- (m) Includes 300 chicks.
- (n) White mice.
- (o) Baby chicks.
- (p) Represents litters.
- (q) Day-old chicks.
- (r) Weanling mice, 41,600; pregnant mice, 52,000; white footed mice, 1,095.
- (s) Rhesus.
- (t) One-half day old chicks.
- (u) Variable number of Swiss albino mice used.
- (v) This includes 28 chickens, 190 baby chicks and 1,604 chick embryos.
- (w) Includes 520 baby chicks.
- (x) In excess of 380 used.
- (y) 120 litters suckling mice and 100 adult mice.
- (z) Guinea pigs and chicks obtained gratis.
- (aa) 1,604 were chick embryos.

SECTION XIV

MISCELLANEOUS INFORMATION

TABLE 14-1. INDEPENDENT CLINICAL AND HOSPITAL LABORATORIES

	Estimated Number of Labs			Estimated Population	Labs per 100,000 Population		
	Indep. Clin.	Hospital	Total		Indep. Clin.	Hospital	Total
Ala.	15	135	150	3,540,000	0.4	3.8	4.2
Alaska	2	13	15	272,000	0.7	4.8	5.5
Ariz.	*	50	*	1,634,000	*	3.1	*
Ark.	113	12	125	1,968,000	5.7	0.6	6.3
Cal.	940 (a)	565	1,505	19,153,000	4.9	3.0	7.9
Colo.	40	93	133	1,975,000	2.0	4.7	6.7
Conn.	*	*	*	2,925,000	*	*	*
Del.	7	5	12	523,000	1.3	1.0	2.3
D. C.	*	*	*	809,000	*	*	*
Fla.	240	194	434	5,995,000	4.0	3.2	7.2
Ga.	20	150	170	4,509,000	0.4	3.3	3.7
Hawaii	25	30	55	739,000	3.4	4.1	7.5
Ida.	18	49	67	699,000	2.6	7.0	9.6
Ill.	330	368	698	10,893,000	3.0	3.4	6.4
Ind.	100	130	230	5,000,000	2.0	2.6	4.6
Ia.	15	145	160	2,753,000	0.5	5.3	5.8
Kans.	29 (b)	168	197	2,275,000	1.3	7.4	8.7
Ky.	103	97	200	3,189,000	3.2	3.0	6.2
La.	*	*	*	(c)3,662,000	*	*	*
Me.	2	61	63	973,000	0.2	6.3	6.5
Md.	68	49	117	3,682,000	1.8	1.3	3.1
Mass.	98	*	*	5,421,000	1.8	*	*
Mich.	178	271	449	8,584,000	2.1	3.2	5.3
Minn.	12	184	196	3,582,000	0.3	5.1	5.4
Miss.	15	125	140	2,348,000	0.6	5.3	5.9
Mo.	100	166	266	4,603,000	2.2	3.6	5.8
Mont.	36 (d)	68	104	701,000	5.1	9.7	14.8
Nebr.	15	85	100	1,435,000	1.0	5.9	6.9
Nev.	*	*	*	444,000	*	*	*
N. H.	1	28	29	686,000	0.1	4.1	4.2
N. J.	160	140	300	7,003,000	2.3	2.0	4.3
N. M.	9	56	65	1,003,000	0.9	5.6	6.5
N. Y.	192	237	429	18,336,000	1.0	1.3	2.3
N. C.	*	150	*	5,029,000	*	3.0	*
N. D.	*	*	*	639,000	*	*	*
Ohio	145	305	450	10,458,000	1.4	2.9	4.3
Okla.	*	*	*	2,495,000	*	*	*
Ore.	115	85	200	1,999,000	5.8	4.3	10.1
Pa.	160	400	560	11,629,000	1.4	3.4	4.8
R. I.	30	23	53	900,000	3.3	2.6	5.9
S. C.	11	75	86	2,599,000	0.4	2.9	3.3
S. D.	*	*	*	674,000	*	*	*
Tenn.	38	194	232	3,892,000	1.0	5.0	6.0
Tex.	180	*	*	10,869,000	1.7	*	*
Utah	24	41	65	1,024,000	2.3	4.0	6.3
Vt.	5	25	30	417,000	1.2	6.0	7.2
Va.	*	*	*	4,536,000	*	*	*
Wash.	167 (e)	124	291	3,087,000	5.4	4.0	9.4
W. Va.	45	85	130	1,798,000	2.5	4.7	7.2
Wisc.	20	234	254	4,189,000	0.5	5.6	6.1
Wyo.	3	40	43	315,000	1.0	12.7	13.7
P. R.	108	45	153	2,697,000	4.0	1.7	5.7
V. I.	*	*	*	56,000	*	*	*

TABLE 14-2. LOCAL HEALTH DEPARTMENTS

	No. of Local Hlth. Depts. in State	No. with Laboratories	No. of Local Hlth. Depts. by Type				No. with Labs by type			
			City	County	City- County	Other	City	County	City- County	Other
Ala.	67	-	*	*	*	-	-	-	-	-
Alaska	9	-	5	3	-	1 (f)	-	-	-	-
Ariz.	14	1	-	14	-	-	-	1	-	-
Ark.	82	1	2	79	1	-	-	1	-	-
Cal.	62	40	6	53	1	2 (g)	4	33	1	2
Colo.	12	9	-	11	1	-	-	8	1	-
Conn.	*	*	*	*	*	*	*	*	*	*
Del.	3	-	-	3	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*	*	*
Fla.	65	4	-	*	*	-	-	3	1	-
Ga.	159	5	-	159	-	-	-	5	-	-
Hawaii	1	1	-	-	1	-	-	-	1	-
Ida.	3	- (h)	-	2	1	-	-	-	-	-
Ill.	59	10	11	43	-	5 (i)	7	3	-	-
Ind.	101	8	10	87	3	1	6	-	2	-
Ia.	6	3	5	-	1	-	2	-	1	-
Kans.	57 (j)	2	1	45	11	-	-	-	2	-
Ky.	120	6	-	114	6	-	-	-	6	-
La.	*	*	*	*	*	*	*	*	*	*
Me.	4	1	4	-	-	-	1	-	-	-
Md.	24	-	1	23	-	-	-	-	-	-
Mass.	80	13	32	2	-	46 (k)	8	1	-	4
Mich.	53	11	4	49	-	-	4	7	-	-
Minn.	8	3	3	3	-	2	3	-	-	-
Miss.	82	-	-	82	-	-	-	-	-	-
Mo.	52	8	4	45	3	-	4	1	3	-
Mont.	4	2 (l)	-	-	4	-	-	-	2	-
Nebr.	7	5	3	1	3	-	2	-	3	-
Nev.	*	*	*	*	*	*	*	*	*	*
N. H.	8	-	8	-	-	-	-	-	-	-
N. J.	582	9 (m)	567	11	-	4 (n)	6	3	-	-
N. M.	40	-	1	38	1	-	-	-	-	-
N. Y.	33	26	6	27	-	-	1	25	-	-
N. C.	81	18	1	80	-	-	-	18	-	-
N. D.	9	5	4	-	-	5 (i)	1	-	-	4
Ohio	286	16	191	88	7	-	14	1	1	-
Okla.	*	*	*	*	*	*	*	*	*	*
Ore.	33	3	-	32	1	-	-	2	1	-
Pa.	5	2	-	4	1	-	-	2	-	-
R. I.	-	-	-	-	-	-	-	-	-	-
S. C.	121	4	-	46	-	75 (o)	-	4	-	75
S. D.	*	*	*	*	*	*	*	*	*	*
Tenn.	95	1	1	90	4	-	-	-	1	-
Tex.	66	25	6	36 (p)	23	1 (q)	5	3	16	1
Utah	31 (r)	2 (r)	2	4	-	-	2	-	-	-
Vt.	-	-	-	-	-	-	-	-	-	-
Va.	10 (s)	9	8	2	-	-	8	1	-	-
Wash.	33	14	1	27	5	-	1	8	5	-
W. Va.	55	7	-	47	8	-	-	2	5	-
Wisc.	13	12	11	1	1	-	10	1	1	-
Wyo.	2	1	-	-	2	-	-	-	1	-
P. R.	*	*	*	*	*	*	*	*	*	*
V. I.	1	-	*	*	*	*	-	-	-	-

TABLE 14-3. REQUIREMENTS FOR REPORTING LAB RESULTS INDICATING COMMUNICABLE DISEASE (t)

	Requirement for Lab Results Indicating Communicable Disease to be Reported to H.D.		Year Effective	Reporting Program Fully Implemented
	Yes	No		
Ala.	X	-	*	*
Alaska	-	X (u)	-	X
Ariz.	X	-	1968	X
Ark.	-	X	-	-
Cal.	X	-	*	X
Colo.	-	X	-	-
Conn.	*	*	*	*
Del.	-	X (v)	-	-
D. C.	*	*	*	*
Fla.	X	-	1956	X
Ga.	X	-	1964	X
Hawaii	X	-	1865	X
Ida.	X	-	*	X
Ill.	X	-	*	X
Ind.	X	-	1963	X
Ia.	-	X	-	-
Kans.	X	-	1968	X
Ky.	X	-	1957	-
La.	X	-	*	*
Me.	-	X	-	-
Md.	X	-	1969	X
Mass.	-	X	-	-
Mich.	X	-	*	X
Minn.	-	X	-	-
Miss.	X	-	1928	X
Mo.	X	-	1962 (Revs.)	X
Mont.	X	-	1965	X
Nebr.	X	-	1967 (w)	-
Nev.	*	*	*	*
N. H.	X	-	1967 (Revs.)	X
N. J.	X	-	1917, Rev. 1966	X
N. M.	X	-	1957	X
N. Y.	X	-	1920	X
N. C.	X	-	*	*
N. D.	-	X	-	-
Ohio	X	-	1964	X
Okla.	*	*	*	*
Ore.	X	-	1962	X
Pa.	X	-	*	X
R. I.	X	-	1967	X
S. C.	X	-	1958	X
S. D.	*	*	*	*
Tenn.	X	-	*	X
Tex.	X	-	1969	-
Utah	X	-	1953	-
Vt.	X	-	1953	-
Va.	X	-	*	X
Wash.	X	-	1943	-
W. Va.	X	-	1965	X
Wisc.	X	-	1959	X
Wyo.	X	-	1964	X
P. R.	*	*	*	*
V. I.	X	-	1950	X

TABLE 14-4. LIBRARY FACILITIES OF THE LABORATORY

	Library Facilities Located in Lab Building		Journals Circulated in Laboratory		No. of Journals Readily Available to Staff	Distance to Library, if not in Lab Bldg.
	Yes	No	Yes	No		
Ala.	X	-	X	-	40	-
Alaska	X (y)	-	X	-	5-6	-
Ariz.	X	-	X	-	12	-
Ark.	-	X	X	-	6	3 miles
Cal.	-	X	X	-	* (y)	1 block
Colo.	-	X	-	X	3,000	1 block
Conn.	*	*	*	*	*	*
Del.	X	-	X	-	10	-
D. C.	*	*	*	*	*	*
Fla.	-	X	X	-	100	In adjacent, connected building
Ga.	X	-	X	-	200	-
Hawaii	-	X	X	-	30	300 ft. to Medical Library
Ida.	X	-	X	-	20-25	-
Ill.	X	-	X	-	50	-
Ind.	X	-	X	-	11	-
Ia.	X	-	X	-	40	-
Kans.	X	-	X	-	10	(also at 5 and 6 miles)
Ky.	X	-	X	-	>25	-
La.	X	-	X	-	10	-
Me.	-	X	X	-	8	50 yards
Md.	-	X	X	-	10	Health Dept. - 1 mile
Mass.	X	-	-	X	65	-
Mich.	-	X	X	-	300	across the street
Minn.	X	-	X	-	*	-
Miss.	X	-	X	-	*	-
Mo.	-	X (z)	X	-	25	5 blocks to State Library
Mont.	X	-	X	-	35	-
Nebr.	X	-	X	-	4	(10 blocks to Univ. - Library in the Capitol is incomplete)
Nev.	*	*	*	*	*	*
N. H.	X	-	X	-	14	-
N. J.	X	-	X	-	25-30	-
N. M.	-	X	X	-	15	*
N. Y.	X	-	X	-	790	-
N. C.	X	-	X	-	165	-
N. D.	X	-	X	-	30	-
Ohio	-	X	X	-	50	200 yds. (Medical Center)
Okla.	*	*	*	*	*	*
Ore.	X	-	X	-	8	-
Pa.	X	-	X	-	125	1 mile
R. I.	X	-	-	X	75	-
S. C.	X	-	X (aa)	-	25	-
S. D.	*	*	*	*	*	*
Tenn.	X	-	*	*	*	-
Tex.	-	X	-	X (bb)	200 (bb)	Adjoining building
Utah	X (cc)	-	X	-	10	University 1/10th mile
Vt.	-	X	X	-	(dd)	1/4 mile
Va.	-	X	X	-	8	4 blocks to Medical School
Wash.	X (ee)	-	X	-	50	*
W. Va.	X	-	*	*	*	-
Wisc.	X	-	X	-	76	-
Wyo.	X	-	X	-	10	-
P. R.	X	-	X	-	*	-
V. I.	X	-	X	-	*	-

TABLE 14-5. CIVIL DEFENSE ACTIVITIES

	Civil Defense Role Assigned		Role Assigned	Resources Provided by Civil Defense	Training for Role
	Yes	No			
Ala.	-	X	Not clear.	-	No recent training.
Alaska	X	-	Provides clinical and public health lab services needed.	Limited, have purchased blood type cards.	Some training several years ago, very little training in recent years.
Ariz.	-	X	-	-	-
Ark.	X	-	Not specific.	-	-
Cal.	X	-	Provides whatever lab support necessary and possible under disaster conditions.	-	1 or 2 individuals have taken CBW training offered by HEW and Army.
Colo.	X	-	Director and Section Chiefs have Civil Defense corresponding titles.	-	-
Conn.	*	*	*	*	*
Del.	X	-	Lab personnel on call at any time.	(ff)	-
D. C.	*	*	*	*	*
Fla.	X	-	Portable Water Lab - bacterial testing.	-	On the job.
Ga.	-	X	-	-	-
Hawaii	X	-	Health Services Coordinator for Special Health Services, resource personnel, etc.	One Isopor membrane filter kit.	Participation in Civil Defense exercises, orientation courses, etc., PH lab in Civil Defense-Technical aspect at NCDC, newer methods of water analysis-USPHS, First Aid Course, Chemical Warfare Defense, Radiological Defense, shelter training, etc.
Ida.	X	-	Several individuals have been appointed to serve under Ida. survival and recovery plan. Specific duties have not been assigned	*	Several staff members have received Radiological Health training.
Ill.	X	-	Training in Biological Warfare determination.	Training personnel and literature.	Biological warfare.
Ind.	X	-	Lab personnel assigned in areas paralleling lab activities.	-	-
Ia.	-	X	-	-	-
Kans.	-	X	-	-	-

TABLE 14-5. CIVIL DEFENSE ACTIVITIES  
(Continued)

	Civil Defense Role Assigned		Role Assigned	Resources Provided by Civil Defense	Training for Role
	Yes	No			
Ky.	-	X	-	-	-
La.	X	-	*	-	-
Me.	-	X	Informally the Director has been used as a consultant.	FA Microscope (1962) for BW agent detection	-
Md.	X	-	Shelters 150 people.	Water, food, stored; first aid equip.	-
Mass.	X	-	The lab has been designated by the State Director of CD as part of the overall State program for rapid detection and identification of biological agents.	FA Microscope and emergency rations lodged on premises.	Training provided by NCDC to lab personnel.
Mich.	-	X	-	-	-
Minn.	X	-	Continuation of the lab; Public Health.	-	Daily work.
Miss.	X	-	Lab services.	-	Very little.
Mo.	-	X	-	-	-
Mont.	X	-	Representative from lab participates in each CD exercise.	-	-
Nebr.	-	X	-	-	-
Nev.	*	*	*	*	*
N. H.	-	X	-	-	-
N. J.	X	-	All emergency lab services related to civil disasters.	Some scientific equip.	No specific training. Skills already available.
N. M.	-	X	-	FA Microscope, diagnostic reagents for rapid identification and diagnosis.	USPHS Training Course - Adm. officer is retired chemical corps officer in CBR.
N. Y.	X	-	To provide essential emergency services to the extent that conditions permit.	-	Extensive planning and training being carried on by this Dept.'s Bureau of Emergency Medical Services. This has included whatever the Bureau considers suitable. For example, distribution of emergency medical supplies; blood donor and blood supply registry, etc. Exam of public water supplies, etc.



TABLE 14-5. CIVIL DEFENSE ACTIVITIES  
(Continued)

	Civil Defense Role Assigned		Role Assigned	Resources Provided by Civil Defense	Training for Role
	Yes	No			
N. C.	-	X	-	-	-
N. D.	X	-	Medical Microbiology,	-	-
Ohio	X	-	Lab support in determining safety of food, milk, water, drugs, and biologicals.	Radiation monitoring kits, literature	Chief of Bureau has had BW training. Branch lab personnel trained in operation of radiation monitoring kits.
Okla.	*	*	*	*	*
Ore.	X	-	Not an active role - detection of CBR agents.	Fluorescent microscope	Several fluorescence courses at NCDC and 8 yrs. on-the-job training.
Pa.	-	X	-	-	-
R. I.	-	X	-	-	-
S. C.	X	-	Member of lab appointed to serve in Emergency Operation Center in State Capitol.	-	Lectures and written instructions; in actual practice under conditions simulating attack.
S. D.	*	*	*	*	*
Tenn.	-	X	-	-	-
Tex.	-	X	None recently.	-	-
Utah	X	-	Assumes control of all labs in times of major disaster.	-	-
Vt.	-	X	-	-	-
Va.	X	-	Director on Staff Health Mobilization Section.	-	-
Wash.	-	X	-	-	-
W. Va.	X	-	*	-	Consultation with other depts. and Health Mobilization Dept. (St. H.D.)
Wisc.	X	-	Courses in Radiological Defense.	Geiger Counters	-
Wyo.	-	X	-	-	-
P. R.	X	-	*	*	*
V. I.	X	-	Member of the medical team.	-	-

FOOTNOTES. SECTION XIV.

- (a) Includes 27 labs certified in cytology and tissues only - State licensure not required.
- (b) Includes several group practice medical labs.
- (c) Handled by the La. State Dept. of Hospitals.
- (d) Includes clinic and physician operated labs.
- (e) Includes labs in clinics. There are 59 independent laboratories in Medicare Program.
- (f) City-Borough.
- (g) Bi-county.
- (h) The three health depts. use the facilities of the Central Laboratory, Boise, Ida.
- (i) Multi-county.
- (j) Thirty-six of the county Health Depts. are part time.
- (k) Towns.
- (l) One of these does Bacteriology and Milk only.
- (m) Represents major laboratories only.
- (n) Regional laboratories.
- (o) Auxiliary health centers.
- (p) Some include more than one county.
- (q) Metropolitan Health District.
- (r) While local health is on the county basis (29 counties) only two have a full-time director, only 4 counties and 2 cities (Logan and Salt Lake) have organized health departments, and 5 counties do not even have a resident physician. The services of the two city laboratories are restricted to water and milk bacteriology.
- (s) There is only one local health department in Va. independent of the State Health Department. Except for this one county the health departments in the State, both city and county, are administered by the State Health Department and each is a component of the State Health Department. Eight cities and one county have labs. These nine labs are under the technical supervision of the State Health Department Laboratory.
- (t) The diseases to which these regulations refer vary substantially from one State to another. Several States require reporting of Syphilis serology only.
- (u) Legislation proposed in 1968, but has not been introduced. Premarital and prenatal laboratories report weekly all VD Serology.
- (v) Committee is working on such a law.
- (w) Regulations since 1952.
- (x) Each laboratory has its own journals, books, and manuals.
- (y) Numerous.
- (z) Laboratory maintains its own texts, reference books, and journals informally.
- (aa) Available - Librarian in attendance.
- (bb) Reprints, newsletters, etc. are circulated. Of the approximately 200 journals available about one-third are laboratory journals, but many others contain laboratory items.
- (cc) Limited.
- (dd) All journals on hand at the College of Medicine are available to laboratory personnel.

FOOTNOTES. SECTION XIV  
(Continued)

(ee) Only current issues.

(ff) Civil Defense Program is under office of Emergency Health Services.

SECTION XV

DIAGNOSTIC WORKLOAD

TABLE 15-1. DIAGNOSTIC BACTERIOLOGY: CORYNEBACTERIUM DIPHTHERIAE AND STREPTOCOCCUS

	<u>Corynebacterium Diphtheriae</u>			<u>Streptococcus</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	919	3,568	67	31,505	37,110	5,341
Alaska	14	14	-	2,766	4,354	765
Ariz.	-	-	-	6,323	8,261	690
Ark.	243	243	13	1,767	3,534	288
Cal.	*	*	*	*	*	*
Colo.	20	20	-	210,815	246,282	35,467
Conn.	*	*	*	*	*	*
Del.	-	-	-	195	*	*
D. C.	*	*	*	*	*	*
Fla.	14,691	14,691	48	17,208	17,208	3,978
Ga.	390	390	56	7,719 (a)	11,957	3,301
Hawaii	7	7	-	24,280	30,485	3,622
Ida.	15	15	-	13,408	16,388	2,100 (b)
Ill.	2,820	3,312	4 (c)	46,951	46,960	7,219
Ind.	35	35	3	15	15	6
Ia.	235	1,410	2	17,696	19,748	4,937
Kans.	58	58	-	7,189	9,262	1,960
Ky.	21	21	3	7,748	12,611	1,690
La.	*	4,961	860	*	6,403	1,903
Me.	4	4	-	9,975	16,133	3,793
Md.	(d)	(d)	1	56,758	59,816	13,152
Mass.	6	12	1	164,204	203,896 (e)	34,671
Mich.	1,046	1,062	26	119,429	119,841	11,124
Minn.	3,249	3,290	2	83	92	83
Miss.	166	166	6	23,363	46,726	3,995
Mo.	11	11	-	24,808	55,863	6,247
Mont.	14	14	-	820	1,101	354
Nebr.	76	184	13	487	665	96
Nev.	*	*	*	*	*	*
N. H.	-	-	-	22,053	27,069	5,360
N. J.	37	37	-	52	52	7
N. M.	*	228	5	*	808	66
N. Y.	12	*	-	3,764	*	750
N. C.	73	73	-	31,498 (f)	42,679 (g)	6,146
N. D.	40	120	-	15,970	37,479	2,650
Ohio	1,058	1,058	-	47,714	59,378	11,159
Okla.	*	*	*	*	*	*
Ore.	-	-	-	28,863	40,689	6,927
Pa.	38	*	-	*	*	96
R. I.	366	366	-	19,029	28,543	4,107
S. C.	201	197	16	1,444	1,444	264
S. D.	*	*	*	*	*	*
Tenn.	358	380	30	66,033	66,033	13,396
Tex.	6,322	13,889	626	3,087	10,988	701
Utah	-	-	-	18,807	24,221	4,514
Vt.	17,000	17,000	-	17,000	17,000	3,300
Va.	3,753	3,036	-	35,508	39,677	7,230
Wash.	1,297	1,297	49	1,267	1,261	90
W. Va.	11	22	-	9,673	22,880	2,805
Wisc.	25	59	2	48,202	57,565	7,913
Wyo.	1	1	-	63,379	68,694	4,258
P. R.	24,307	*	*	5,268	*	463
V. I.	-	-	-	1,215	1,215	7

TABLE 15-2. DIAGNOSTIC BACTERIOLOGY: STAPHYLOCOCCUS AND VINCENT'S ANGINA

	<u>Staphylococcus</u>			<u>Vincent's Angina</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	796	1,592	744	4,322	4,310	14
Alaska	2,766	2,782	464	7	7	2
Ariz.	34	90	56	-	-	-
Ark.	14	25	3	1	1	1
Cal.	*	*	*	*	*	*
Colo.	33	66	2	33	33	12
Conn.	*	*	*	*	*	*
Del.	-	-	-	13	13	1
D. C.	*	*	*	*	*	*
Fla.	17,208	18,330	1,122	71,300	71,300	555
Ga.	(h)	1,198	889	111	111	32
Hawaii	2,767	7,081	1,927	1	1	-
Ida.	*	*	*	-	-	-
Ill.	4,884	6,137	2,064	653	653	254
Ind.	1,022	1,022	464	30	30	-
Ia.	17,696	1,081	820	130	260	48
Kans.	1,049	3,819	1,049	-	-	-
Ky.	1,610	4,343	1,270	-	-	-
La.	*	2,290	959	*	29	28
Me.	*	1,010	853	38	38	4
Md.	(d)	(d)	12,337	1,569	1,548	23
Mass.	194	*	53 (i)	121	121	14
Mich.	119,428	119,975	11,477	1,709	1,723	373
Minn.	34	34	34	1	1	-
Miss.	587 (j)	1,056	202	13	13	11
Mo.	-	18	3	-	-	-
Mont.	46	126	46	-	-	-
Nebr.	72	191	47	6	6	2
Nev.	*	*	*	*	*	*
N. H.	1,674	2,022	224	13	13	5
N. J.	67	67	26	4	4	1
N. M.	*	1,241	225	-	-	-
N. Y.	1,358	*	261	11	*	6
N. C.	(f)	33,428 (k)	1,623	20	20	2
N. D.	-	*	1,150	132	132	54
Ohio	5,559	18,555	5,537	12	12	-
Okla.	*	*	*	*	*	*
Ore.	216	560	172	50	60	10
Pa.	11	*	11	-	-	-
R. I.	55	165	55	9	9	7
S. C.	1,437	100	268	2	2	-
S. D.	*	*	*	*	*	*
Tenn.	2,917	2,917	2,691	15	15	4
Tex.	431	1,293	205	-	-	-
Utah	156	195	39	7	7	3
Vt.	-	2,500	2,500	100	100	<20
Va.	5,968	9,171	2,832	66	66	31
Wash.	184	184	-	-	-	-
W. Va.	75	102	75	*	4,035	178
Wisc.	2,068	4,136	597	82	82	34
Wyo.	-	-	-	-	-	-
P. R.	*	*	291	-	-	-
V. I.	1,215	1,215	15	-	-	-

TABLE 15-3. DIAGNOSTIC BACTERIOLOGY: DARKFIELD PREPARATIONS AND NEISSERIA GONORRHOEAE

	Darkfield Preparations			Neisseria gonorrhoeae		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	26	26	3	33,631	34,016	4,733
Alaska	16	16	-	1,525	1,757	590
Ariz.	-	-	-	2,774	3,061	425
Ark.	-	-	-	539	547	154
Cal.	*	*	*	*	*	*
Colo.	-	-	-	2,797	2,797	29
Conn.	*	*	*	*	*	*
Del.	15	15	5	4,625	9,250	1,361
D. C.	*	*	*	*	*	*
Fla.	394	394 (1)	138	96,904	96,904	14,025
Ga.	21	21	4	15,803	15,748	5,286
Hawaii	4	4	-	6,825	7,326	637
Ida.	17	17	1	*	7,845	*
Ill.	5	5	-	31,151	31,851	5,098
Ind.	-	-	-	13,986	13,986	1,638
Ia.	-	-	-	2,699	5,398	518
Kans.	-	-	-	5,161	5,206	780
Ky.	5	5	4	3,921	3,921	1,020
La.	*	9	1	*	12,261	4,696
Me.	2	2	1	6,610	6,711	1,213
Md.	15	15	4	19,609	19,793	5,006
Mass.	-	-	-	7,247	7,387	1,274
Mich.	11	11	-	68,119	68,553	2,596
Minn.	11	11	1	8,230	8,256	1,324
Miss.	-	-	-	519	519	52
Mo.	-	-	-	4,494	8,988	1,105
Mont.	-	-	-	654	1,025	51
Nebr.	11	11	3	1,340	1,504	593
Nev.	*	*	*	*	*	*
N. H.	4	8	-	1,562	1,624	295
N. J.	-	-	-	2,586	1,233	1,233
N. M.	*	45	5	*	5,146	844
N. Y.	-	-	-	2,449	*	13
N. C.	1	1	-	2,732	2,732	697
N. D.	12	12	1	1,406	1,406	269
Ohio	3	3	-	5,020	5,423	1,036
Okla.	*	*	*	*	*	*
Ore.	24	24	-	5,732	5,634	873
Pa.	-	-	-	13	*	13
R. I.	8	8	1	4,950	4,950	353
S. C.	-	-	-	12,661	12,661	2,685
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	1,930	2,324	354	37,691	43,908	9,957
Utah	-	-	-	1,906	1,906	*
Vt.	10	10	1	1,800	3,600	275
Va.	19	19	5	16,016	16,016	2,846
Wash.	22	22	6	1,014	1,014	220
W. Va.	4	4	-	4,241	4,255	486
Wisc.	34	34	-	7,259	7,441	614
Wyo.	-	-	-	186	186	36
P. R.	-	-	-	9,166	*	829
V. I.	15	15	6	513	513	197

TABLE 15-4. DIAGNOSTIC BACTERIOLOGY: MYCOBACTERIUM

	Specimens	Exams	Positives			
			Myco. Tuberculosis	Myco., Atypical		
Ala.	55,710	293,246	4,872		2,647	y
Alaska	18,388	35,949	180		14	
Ariz.	9,739	18,226	812		230	
Ark.	20,533	30,580	1,038		241	
Cal.	*	*	*		*	
Colo.	3,914	9,847	67		21	
Conn.	*	*	*		*	
Del.	-	-	-		-	
D. C.	*	*	*		*	
Fla.	65,507	184,827	2,278		2,816	
Ga.	43,513	84,006	1,403		715	
Hawaii	9,053	27,561	165		335	
Ida.	1,001	2,739	42 (m)		*	
Ill.	14,155	61,666	859		446	
Ind.	7,501	39,718	643		335	
Ia.	2,226	33,570	64		148	
Kans.	6,349	32,882	201		258	
Ky.	9,997	33,087	447		120	
La.	*	62,697	3,808		1,410	
Me.	2,662	13,508	132		39	
Md.	20,318	77,829	1,237		629	
Mass.	4,122	*	324		78	
Mich.	16,405	50,215	1,553		383	
Minn.	13,368	63,438	332		155	
Miss.	29,109	95,493	887		696	
Mo.	-	-	-		-	
Mont.	2,566	9,994	174		72	
Nebr.	797	1,811	51		24	
Nev.	*	*	*		*	
N. H.	5,567	10,320	218		1	
N. J.	22,494	87,403	2,082		616	
N. M.	*	7,849	697		17	
N. Y.	5,874	*	384		197	
N. C.	17,207	83,127	402		177	
N. D.	4,744	23,720	70		12	
Ohio	14,787	48,537	689		155	
Okla.	*	*	*		*	
Ore.	5,809	12,155	139		24	
Pa.	*	*	1,071		577	
R. I.	2,816	5,632	78		1	
S. C.	12,664	25,328	496		370	
S. D.	*	*	*		*	
Tenn.	54,561	172,574	3,588		2,206	
Tex.	24,547	183,682	2,159		1,274	
Utah	1,919	6,524	*		*	
Vt.	4,150	*	300		25	
Va.	22,656	27,534	3,181		202	
Wash.	7,026	7,026	199		83	
W. Va.	17,208	61,655	530		124	
Wisc.	8,710	36,810	701		143	
Wyo.	178	567	9		-	
P. R.	*	3,507	*		*	
V. I.	407	814	5		7	



TABLE 15-5. DIAGNOSTIC BACTERIOLOGY: ENTERIC

Specimens	Exams	Positives				
		Salmonella	Shigella	<u>E. coli</u>	Other	
Ala.	3,642	17,425	308	105	80	15
Alaska	3,754	11,609	66	145	490	-
Ariz.	1,163	2,168	241	248	12	17
Ark.	2,900	14,787	206	66	15	56
Cal.	*	*	*	*	*	*
Colo.	3,424	10,272	284	428	2	-
Conn.	*	*	*	*	*	*
Del.	810	3,240	10	8	-	-
D. C.	*	*	*	*	*	*
Fla.	59,739	180,976	1,378	249	132 (n)	(n)
Ga.	25,063	48,680	732	715	5	-
Hawaii	8,473	15,961	880	261	98	4 (o)
Ida.	844	2,086	71 (p)	(p)	8	*
Ill.	9,487	33,410	1,736	1,000	331	18
Ind.	2,174	7,087	482	50	33	-
Ia.	1,461	17,532	177	91	-	113
Kans.	5,501	28,629	582	55	112	375
Ky.	2,562	3,275	37	6	-	-
La.	*	39,604	679	68	42	-
Me.	1,110	5,287	36	4	2	-
Md.	5,486	18,784	273	77	2	2
Mass.	11,979	*	1,516	249	95	820 (q)
Mich.	21,848	61,075	1,875	159	38	-
Minn.	4,193	25,595	297	97	33	7 (r)
Miss.	3,458	3,810	157	60	* (s)	-
Mo.	1,976	*	221	79	164	57
Mont.	1,207	1,522	53	78	75	83
Nebr.	280	898	44	11	-	3
Nev.	*	*	*	*	*	*
N. H.	1,248	4,998	30	8	2	112
N. J.	4,907	15,235	451	9	52	2 (r)
N. M.	*	6,913	348	411	1,034	4
N. Y.	*	2,694	504	147	180	-
N. C.	4,885	21,072	717	214	10	7
N. D.	2,964	4,856	52	83	116	-
Ohio	2,501	7,868	92	45	6	-
Okla.	*	*	*	*	*	*
Ore.	1,849	3,877	79	56	61	-
Pa.	10,626	*	1,869	264	4	-
R. I.	1,881	2,064	134	20	4	2
S. C.	510	510	100	37	60	-
S. D.	*	*	*	*	*	*
Tenn.	5,967	19,032	130	208	1	69
Tex.	5,690	32,825	1,619	1,182	51	326
Utah	1,692	2,197	183	77	7	-
Vt.	900	*	23	5	10	10
Va.	8,733	24,495	298	127	1	24 (t)
Wash.	*	3,794	395	234	-	340
W. Va.	978	5,957	65	24	20	-
Wisc.	6,396	38,399	928	245	69	3 (r)
Wyo.	100	309	9	-	3	9
P. R.	*	*	12	14	42	-
V. I.	2,636	2,636	3	29	2	-

TABLE 15-6. DIAGNOSTIC BACTERIOLOGY: BACTERIOPHAGE TYPING AND BLOOD CULTURES

	<u>Bacteriophage Typing</u>			<u>Blood Cultures</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	-	-	-	22	518	18
Alaska	-	-	-	32	85	4
Ariz.	-	-	-	18	21	*
Ark.	-	-	-	2	2	2
Cal.	*	*	*	*	*	*
Colo.	70	70	-	19	19	1
Conn.	*	*	*	*	*	*
Del.	-	-	-	10	10	-
D. C.	*	*	*	*	*	*
Fla.	-	-	-	68	68	5
Ga.	499	499	499 (u)	561	561	30
Hawaii	3,441	3,441	1,866 (v)	50	65	11
Ida.	585	585	*	61	61	-
Ill.	1,288	1,288	668	184	184	6
Ind.	-	-	-	-	-	-
Ia.	689	27,168	689	64	338	22
Kans.	-	-	-	69	119	50
Ky.	1,417	1,417	*	36	144	*
La.	*	1,114	1,114	*	104	8
Me.	-	-	-	10	10	10
Md.	-	-	-	381	381	-
Mass.	-	-	-	49	*	22
Mich.	3,806	83,732	*	105	464	*
Minn.	-	-	-	138	160	22
Miss.	-	-	-	420	420	-
Mo.	-	-	-	16	121	2
Mont.	-	-	-	17	17	7
Nebr.	-	-	-	27	64	6
Nev.	*	*	*	*	*	*
N. H.	-	-	-	50	150	-
N. J.	-	-	-	2	2	-
N. M.	*	562	9	*	739	2
N. Y.	1,358	*	*	78	*	73
N. C.	-	-	-	* (w)	*	*
N. D.	-	-	-	454	2,270	32
Ohio	-	-	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	28	56	16
Pa.	11	*	-	1	*	1
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	57	57	57	6	6	2
Tex.	2,272	6,816	*	28	315	5
Utah	-	-	-	54	93	13
Vt.	-	-	-	10	10	-
Va.	55	55	38	27	27	23
Wash.	-	-	-	42	42	20
W. Va.	-	-	-	49	147	3
Wisc.	-	-	-	135	135	4
Wyo.	-	-	-	1	1	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	132	132	4

TABLE 15-7. DIAGNOSTIC BACTERIOLOGY: SPINAL FLUID CULTURES AND WOUND CULTURES

	<u>Spinal Fluid Cultures</u>			<u>Wound Cultures</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	20	364	17	64	1,407	71
Alaska	11	41	-	319	998	180
Ariz.	-	-	-	-	-	-
Ark.	17	33	14	43	215	36
Cal.	*	*	*	*	*	*
Colo.	7	7	2	16	16	4
Conn.	*	*	*	*	*	*
Del.	2	6	-	7	21	-
D. C.	*	*	*	*	*	*
Fla.	18	18	5	1,642	1,642	486
Ga.	57	57	12	276	276	121
Hawaii	17	30	11	95	127	81
Ida.	-	-	-	*	*	*
Ill.	19	19	* (x)	54	54	* (x)
Ind.	-	-	-	-	-	-
Ia.	24	168	19	408	3,264	408
Kans.	25	37	12	28	84	28
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	43	43	32
Md.	98	98	*	* (w)	* (w)	-
Mass.	47	*	21	102	*	89
Mich.	-	-	-	5,644 (y)	16,085	*
Minn.	27	54	3	*	*	*
Miss.	8	8	1	529	529	162
Mo.	*	490	*	*	366	14
Mont.	16	16	9	28	28	26
Nebr.	7	14	-	5	14	4
Nev.	*	*	*	*	*	*
N. H.	-	-	-	40	120	35
N. J.	2	2	1	2	2	-
N. M.	-	-	-	-	-	-
N. Y.	47	*	34	47	*	47
N. C.	* (w)	*	*	* (w)	*	*
N. D.	132	264	13	1,697	6,788	1,262
Ohio	-	-	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	44	120	28	36	104	32
Pa.	-	-	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	16	130	3	-	-	-
Utah	19	53	7	7	32	5
Vt.	10	10	-	50	50	-
Va.	13	13	8	139	139	81
Wash.	26	26	20	108	124	101
W. Va.	8	48	3	-	-	-
Wisc.	* (w)	*	*	* (w)	*	*
Wyo.	-	-	-	2	2	1
P. R.	21	*	*	-	-	-
V. I.	71	71	1	165	165	58

TABLE 15-8. DIAGNOSTIC BACTERIOLOGY: DENTAL CARIES CULTURES AND ANAEROBIC CULTURES

	<u>Dental Caries Cultures</u>			<u>Anaerobic Cultures</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	-	-	-	380	3,278	126
Alaska	2	8	2	32	1,278	2
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	12	60	12
Cal.	*	*	*	*	*	*
Colo.	314	314	-	25	25	3
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	1,469	1,469	*	550	550	495
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	130	248	61
Ida.	-	-	-	*	*	*
Ill.	311	311	311 (z)	1,289	1,289	* (x)
Ind.	-	-	-	119	*	119
Ia.	3	12	3	68	476	59
Kans.	-	-	-	1,003	1,049	46
Ky.	-	-	-	649	675	*
La.	*	58	-	-	-	-
Me.	18	18	2	112	112	38
Md.	-	-	-	(aa)	(aa)	-
Mass.	-	-	-	34	*	22
Mich.	4,673	4,673	*	396	3,960	*
Minn.	-	-	-	120	134	89
Miss.	-	-	-	-	-	-
Mo.	-	-	-	*	464	15
Mont.	-	-	-	115	115	40
Nebr.	19	19	-	32	77	9
Nev.	*	*	*	*	*	*
N. H.	-	-	-	12	36	12
N. J.	-	-	-	121	121	34
N. M.	*	9	-	-	-	-
N. Y.	-	-	-	89	*	89
N. C.	* (w)	*	*	* (w)	*	*
N. D.	-	-	-	1,200	4,800	150
Ohio	-	-	-	44 (bb)	44	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	60	120	48
Pa.	-	-	-	*	*	94
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	108	*	77	147	147	35
Tex.	653	1,606	*	206	5,356	*
Utah	-	-	-	21	36	4
Vt.	-	-	-	50	50	10
Va.	199	199	141	64	64	42
Wash.	-	-	-	443	467	88
W. Va.	427	427	74	30	180	7
Wisc.	* (w)	*	*	325	325	*
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	14	14	4

TABLE 15-9. DIAGNOSTIC BACTERIOLOGY: ANTIBIOTIC SENSITIVITY AND ANIMAL INOCULATION

	<u>Antibiotic Sensitivity</u>			<u>Animal Inoculation</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	-	-	-	222	222	-
Alaska	1,208	1,208	1,208	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	2	2	2	-	-	-
Cal.	*	*	*	*	*	*
Colo.	140	140	-	7	7	-
Conn.	*	*	*	*	*	*
Del.	262	262	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	1,928	1,928	167	-	-	-
Ga.	(cc)	993	*	-	-	-
Hawaii	158	480	158	3	25	2
Ida.	1,207	1,207	-	-	-	-
Ill.	-	-	-	4	4	1
Ind.	-	-	-	3	3	3
Ia.	1,125	9,000	1,125	53	212	53
Kans.	320	320	1	-	-	-
Ky.	10	20	*	*	2	*
La.	*	3,369	3,369	*	2	-
Me.	-	-	-	-	-	-
Md.	(dd)	5,703	-	(w)	(w)	(w)
Mass.	-	-	-	4	*	1
Mich.	20,849	202,995	*	-	-	-
Minn.	-	-	-	74	77	7
Miss.	530	3,180	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	117	117	-	6	6	1
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	246	1,458	-	-	-	-
N. J.	-	-	-	15	45	-
N. M.	*	277	*	*	614	5
N. Y.	39	*	*	1	*	-
N. C.	-	-	-	-	-	-
N. D.	7,901	26,978	*	-	-	-
Ohio	4	4	*	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	9	*	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	2,245	2,245	*	274	274	*
Utah	64	64	17	*	3	*
Vt.	-	-	-	10	10	-
Va.	130	130	130	31	31	6
Wash.	516	516	*	2	2	2
W. Va.	87	87	-	21	21	*
Wisc.	4,974	4,974	*	4	4	-
Wyo.	4	4	-	-	-	-
P. R.	1,521	*	*	-	-	-
V. I.	1,042	1,042	1,000	-	-	-

TABLE 15-10. DIAGNOSTIC BACTERIOLOGY: MISCELLANEOUS

	Specimens	Exams	Positives
Ala.	-	-	-
Alaska	372 (ee)	768	49
Ariz.	-	-	-
Ark.	56 (ff)	168	56
Cal.	*	*	*
Colo.	-	-	-
Conn.	*	*	*
Del.	-	-	-
D. C.	*	*	*
Fla.	-	-	-
Ga.	-	-	-
Hawaii	-	-	-
Ida.	-	-	-
Ill.	1,393	1,393	928 (gg)
Ind.	236 (hh)	*	236 (hh)
Ia.	455	2,957	*
Kans.	-	-	-
Ky.	-	-	-
La.	*	11,233	*
Me.	-	-	-
Md.	9,182 (ii)	12,442	*
Mass.	148 (jj)	*	82
Mich.	-	-	-
Minn.	1,474	1,474 (kk)	*
Miss.	-	-	-
Mo.	104 (ll)	4,105	87
Mont.	-	-	-
Nebr.	-	-	-
Nev.	*	*	*
N. H.	-	-	-
N. J.	473 (mm)	*	*
N. M.	-	-	-
N. Y.	-	-	-
N. C.	2,219 (nn)	*	904
N. D.	-	-	-
Ohio	1,459 (oo)	1,459	*
Okla.	*	*	*
Ore.	-	-	-
Pa.	-	-	-
R. I.	-	-	-
S. C.	-	-	-
S. D.	*	*	*
Tenn.	-	-	-
Tex.	-	-	-
Utah	-	-	-
Vt.	-	-	-
Va.	-	-	-
Wash.	-	-	-
W. Va.	-	-	-
Wisc.	13,705 (pp)	13,705	*
Wyo.	-	-	-
P. R.	-	-	-
V. I.	-	-	-

FOOTNOTES. TABLES 15-1 - 15-10.

- (a) Throat cultures only.
- (b) Group A.
- (c) Sources of positives: 1 toxigenic from ear, 3 nontoxigenic from blood, leg abscess, and breast abscess.
- (d) Respiratory diagnostic cultures are examined for C. diphtheriae, streptococci (Group A and non Group A), coagulase positive staphylococci and other pathogens.
- (e) Figures from Branch Laboratories (62,915) include positive FA exams only.
- (f) Includes Streptococci and Staphylococci specimens.
- (g) Includes additional exams done on general bacteriology and diphtheria specimens.
- (h) Specimens cultured for Streptococcus, Staphylococcus incidental finding.
- (i) This represents findings from miscellaneous cultures such as wounds, exudates, sputa, and urines. Number of exams made on throat cultures not included.
- (j) Specimens from oral and respiratory tract only; others included under Miscellaneous Bacteriology.
- (k) Includes additional exams done on streptococcus, general bacteriology and diphtheria specimens.
- (l) Darkfield exams performed in local health department clinics not included.
- (m) Estimated total. Does not include results of the TB Hospital Laboratory.
- (n) "Other" included with "E. coli."
- (o) Clostridium perfringens.
- (p) Salmonella and Shigella included in one total.
- (q) Salmonella typings.
- (r) Arizona.
- (s) Not tabulated.
- (t) Salmonella typhi.
- (u) 63 S. typhi, 436 Staphylococcus.
- (v) Typable strains.
- (w) Included with Miscellaneous Bacteriology, Table 15-10.
- (x) Figures not available; included insignificant findings for miscellaneous bacteriology.
- (y) Includes body fluids.
- (z) Lactobacillus counts.
- (aa) Not tabulated separately; done routinely on all specimens except throat and nose and sputum.
- (bb) Referred anaerobic cultures for 4 months only.
- (cc) Specimens included in "Mycobacterium."
- (dd) Miscellaneous culture.
- (ee) Urine, 223 specimens, 470 exams, 8 positives; miscellaneous cultures, 149 specimens, 298 exams, 41 positives.
- (ff) This consists of cultures of: Bartholin cysts, sputums, water filters, lymph nodes, scaline nodes, uterual, urine, swab-various sources, source unknown, and miscellaneous, other than wound sites.

FOOTNOTES. TABLES 15-1 - 15-10.

(Continued)

- (gg) Illinois reported numbers and types of exams performed on miscellaneous bacteriological specimens as follows: smears for diagnosis, 26; smears for chancroid, 4; smears for T. pallidum, 66; miscellaneous clinical specimens, 816; miscellaneous referred cultures, 473; specimens for PPLO culture, 4; specimens for Leptospira culture, 4.
- The most common sources of clinical specimens for culture were ear, eye, vaginal, abscess, skin, sputum, exudate, and wound. Referred cultures for identification were from blood, urine, CSF, throat, sputum, eye, wound, abscess, etc. This laboratory has noticed a continual increase in miscellaneous specimens, particularly in referred cultures, and especially anaerobes.
- Positives included 667 aerobic, non-enteric organisms identified; 85 enteric organisms, and 99 anaerobic organisms. The most common organisms were Alcaligenes species, 10; Bacillus species, 29; Corynebacterium species, 27; Diplococcus pneumoniae, 11; Haemophilus species, 18; Herellea Vaginicola, 10; Mima polymorpha, 23; Mima polymorpha var. oxidans, 11; Moraxella species, 28; Neisseria species, 41; Pasteurella species, 20; Pseudomonas species, 72; Staphylococcus species, 224; Streptococcus species, 101; yeast-like organisms, 15; Aerobacter 14; Escherichia coli, 28; Proteus species, 31; Bacteroides species, 33; and Clostridium species, 58.
- (hh) Miscellaneous bacteriology represents culture isolates submitted from other laboratories for identification. This included 236 aerobic and 119 anaerobic cultures identified. The most numerous of these isolations were: Bacillus species, 17; Corynebacterium, 32, Fluorescin and Pseudomonas species, 11; Moraxella nonliquefaciens, 10; nonpigmented pseudomonas species, 12; Staphylococcus aureus, coagulase +, 10; anaerobic Corynebacterium species, 11; Bacteroides fragilis, 17; bacteroides species, 15; Clostridium perfringens, 20; and Peptococcus species, 13.
- (ii) Includes 3,635 eye, ear, skin, body fluids and tissues; 4,179 genito-urinary cultures; 981 Staphylococcus phage typing; 43 streptococcus grouping, and 344 for identification.
- (jj) Commercial Products, 56 specimens, 10 positives; other cultures, sputa, urines, exudate, 92 specimens, 72 positives.
- (kk) Miscellaneous bacteriology done includes 595 referred cultures of enteric bacteria (Salmonella, Shigella, enteropathogenic E.coli, and Saprophytes); 122 referred cultures of acid-fast bacilli, both M. tuberculosis and "unclassified" AFB; and 607 miscellaneous referred cultures from a variety of clinical specimens for identification. These included cultures of N. gonorrhoeae for confirmation. There also were approximately 150 specimens of various types such as body tissues and fluids (excluding blood and spinal fluid) for isolation of any aerobic or anaerobic bacteria present, smears for blood parasites and intestinal parasites.
- (ll) Other reference cultures.
- (mm) This consisted of the examination of 161 clinical specimens related to food poisoning episodes and institutional disease outbreaks; 184 cultures referred for identification; and 128 drug products and control sera for sterility check. Organisms studied included: Pseudomonas aeruginosa, Pseudomonas stutzeri, Neisseria gonorrhoeae, Neisseria meningitidis, Haemophilus influenzae, Clostridium perfringens, Corynebacterium acnes, Listeria monocytogenes, Bordetella pertussis, Brucella suis, Lactobacillus sp.
- (nn) Specimens are not separated as to how many were blood, spinal fluid, wound, etc.; however approximately half of them are urine for general culture. They are generally all examined on smear and cultured on suitable solid and liquid media, determined by the specimen (swab, urine, spinal fluid, etc.) and source (in the case of swabs, isolates, etc.), then the appropriate subcultures, smears, biochemical and serological exams made. The most common isolations included: aerobacter sp., 30; citrobacter sp., 10; coliform group, 169; D. pneumoniae, 31; Enterococci and other non-hemolytic streptococcus, 118; Escherichia coli, 96; Haemophilus influenzae, 13; Herella sp., 25; Klebsiella, 36; Mima polymorpha, 11; Neisseria meningitidis, 16; Proteus and Providence sp., 97; Pseudomonas sp., 7; Serratia sp., 25; Streptococcus viridans, 13; Streptococcus unidentified, 20; yeast-like organisms, 25.
- (oo) Represents well water, 2; referred cultures, 1,454; throat cultures, 2; urine cultures, 1.



TABLE 15-11. MYCOLOGY CULTURES

	Specimens	Exams	Positives	
			Dermatophytes	Systemic Fungi
Ala.	578	6,330	7	16
Alaska	101	157	6	20
Ariz.	1,968	6,558	-	751
Ark.	1,213	9,986	5	572
Cal.	*	*	*	*
Colo.	85	170	23	62
Conn.	*	*	*	*
Del.	-	-	-	-
D. C.	*	*	*	*
Fla.	5,030	5,030	352	1,853
Ga.	784	784	189	86
Hawaii	1,064	1,338	183	167
Ida.	603	723	73 (a)	(a)
Ill.	770	770	211	99
Ind.	1,279	1,279	269	310
Ia.	2,198	2,198	9	671
Kans.	198	396	10	30
Ky.	151	1,116	1	35
La.	*	3,871	64	148
Me.	66	132	34	-
Md.	1,428	1,562	24	947
Mass.	221	*	6	113
Mich.	6,316	9,453	493	9
Minn.	2,224	2,290 (b)	56	10
Miss.	1,147	1,147	236 (a)	(a)
Mo.	52	382	6	7
Mont.	127	264	1	119
Nebr.	27	68	4	2
Nev.	*	*	*	*
N. H.	58	174	-	-
N. J.	116	350	11	13
N. M.	*	355	*	*
N. Y.	*	*	129	281
N. C.	322	321 (c)	16	60
N. D.	212	424	13	8
Ohio	593	593	3	31
Okla.	*	*	*	*
Ore.	191	191	17	8
Pa.	271	*	12	45
R. I.	7	14	2	450
S. C.	-	-	-	-
S. D.	*	*	*	*
Tenn.	2,071	6,012	81	93
Tex.	530	5,400	78	34
Utah	25	25	-	4
Vt.	50	50	<50	<10
Va.	803	803	7	261
Wash.	232	*	14	49
W. Va.	113	339	-	41
Wisc.	3,025	6,230	265	898
Wyo.	-	-	-	-
P. R.	-	-	-	-
V. I.	23	52	2	9

TABLE 15-12. PARASITOLOGY: INTESTINAL PARASITES AND BLOOD PARASITES, MICROSCOPIC

	<u>Intestinal Parasites</u>			<u>Blood Parasites, Microscopic</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	20,792	39,584	*	34	34	*
Alaska	461	475	23	3	3	-
Ariz.	786	1,382	93	-	-	-
Ark.	576	1,156	93	1	2	-
Cal.	*	*	*	*	*	*
Colo.	394	394	41	6	6	2
Conn.	*	*	*	*	*	*
Del.	115	345	7	-	-	-
D. C.	*	*	*	*	*	*
Fla.	104,544	104,544	15,992	38	38	3
Ga.	70,638	103,228	9,429	84	80	48
Hawaii	2,294	4,573	165	7	7	-
Ida.	260	458	10	3	3	1
Ill.	1,792	1,792	523	17	17	-
Ind.	3,194	3,194	586	23	23	21
Ia.	338	621	59	31	61	19
Kans.	4,350	8,700	661	13	13	1
Ky.	2,763	2,901	1,220	12	12	12
La.	*	50,111 (d)	14,953 (d)	*	26	16
Me.	26	108	3	4	8	-
Md.	9,398	12,643	1,648	19	19	3
Mass.	-	-	-	3	3	1
Mich.	4,468	4,468	190	-	-	-
Minn.	2,790	5,386	142	5	5	-
Miss.	12,288	12,288	3,567	57	57	6
Mo.	48	96	1	9	18	1
Mont.	66	63	6	1	1	-
Nebr.	153	232	19	5	5	3
Nev.	*	*	*	*	*	*
N. H.	137	262	6	6	9	-
N. J.	882	1,323	136	221	221	215
N. M.	*	337	27	-	-	-
N. Y.	229	*	35	27	*	27
N. C.	13,179	13,179	2,694	23	23	1
N. D.	828	1,656	19	50	50	-
Ohio	636	1,168	126	2	2	1
Okla.	*	*	*	*	*	*
Ore.	729	1,425	*	21	21	16
Pa.	438	*	84	4	*	4
R. I.	306	612	77	-	-	-
S. C.	19,777	19,777	3,803	39	39	1
S. D.	*	*	*	*	*	*
Tenn.	4,398	6,469	561	44	44	11
Tex.	4,827	8,970	815	1,948	2,448	924
Utah	1,659	1,659	34	4	4	4
Vt.	150	150	20	10	10	-
Va.	12,335	20,426	624	8	8	2
Wash.	1,128	1,128	131	3	3	2
W. Va.	643	1,286	74	-	-	-
Wisc.	3,932	5,858	603	6	6	-
Wyo.	28	28	1	-	-	-
P. R.	78,211	75,282	13,951	-	-	-
V. I.	9,972	10,078	1,498	8	8	-

TABLE 15-13. PARASITOLOGY: TRICHOMONAS, PARASITES AND ARTHROPODS

	Examination of Genital Smears			Parasites for Identification		Arthropods for Identification	
	Specimens	Exams	Positives	Specimens	Exams	Specimens	Exams
Ala.	22,760	24,298	*	5	5	10	10
Alaska	14	14	7	-	-	3	3
Ariz.	-	*	56	6	6	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*
Del.	(e)	*	*	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	71,296	71,296	7,449	52	52	-	-
Ga.	15,803	15,748	3,017	76	76	-	-
Hawaii	3	3	1	31	31	-	-
Ida.	-	-	-	4	4	-	-
Ill.	30,528	30,528	3,380	5	5	1	1
Ind.	13,986	13,986	1,804	10	10	7	7
Ia.	72	144	72	4	4	-	-
Kans.	-	-	-	2	2	6	6
Ky.	-	-	-	2	2	16	16
La.	-	-	-	*	19	-	-
Me.	-	-	-	-	-	-	-
Md.	14,250	14,281	1,373	4	4	10	10
Mass.	-	-	-	-	-	-	-
Mich.	21,470	21,470	2,107	-	-	-	-
Minn.	1,054	1,054	844	5	5	4	4
Miss.	-	-	-	-	-	-	-
Mo.	366	732	366	-	-	-	-
Mont.	-	-	-	3	3	1	1
Nebr.	-	-	-	4	4	7	7
Nev.	*	*	*	*	*	*	*
N. H.	59	100	37	4	4	2	2
N. J.	-	-	-	10	10	4	4
N. M.	-	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-
N. C.	-	-	-	3	3	-	-
N. D.	*	2	2	-	-	-	-
Ohio	377	377	286	1	1	10	10
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-
Pa.	203	*	173	12	12	5	5
R. I.	4,527	4,527	427	-	-	-	-
S. C.	11,596	11,596	698	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	78	*	8	-	-	-	-
Tex.	-	-	-	35	75	93,340	93,340
Utah	*	190	(f)	17	17	7	7
Vt.	10	10	-	10	10	10	10
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	6	6	-	-
W. Va.	-	4,035	315	-	-	3	3
Wisc.	5,038	5,038	282	21	21	16	16
Wyo.	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-

TABLE 15-14. VIROLOGY: TOTAL VIRAL ISOLATIONS AND TOTAL HUMAN SOURCE SPECIMENS

	<u>Total Viral Isolations (g)</u>			<u>Total Human Source Specimens</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	230	721	8	173	493	8
Alaska	-	-	-	-	-	-
Ariz.	142	569	1	*	*	*
Ark.	- (h)	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	431	2,586	46	431	2,586	46
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	2,170	2,170	77	879	879	35
Ga.	1,057	7,331	45 (i)	710	* (j)	40
Hawaii	1,420	35,420	183	1,412	35,100	179
Ida.	137	137	7	136	136	6
Ill.	1,572	4,725	199	1,572	4,725	99
Ind.	139	82	*	139	82	*
Ia.	1,212	26,802	109	632	20,645	60
Kans.	386	3,860	101	351	3,510	70
Ky.	346	1,084	41	346	1,084	41
La.	*	32,778	175	*	1,121	88
Me.	-	-	-	-	-	-
Md.	1,988	2,331	259	1,988	2,331	259
Mass.	54,099 (k)	4,964	102	*	400	14
Mich.	819	8,146	40	819	8,146	40
Minn.	*	1,579	115	*	1,568	115
Miss.	-	-	-	-	-	-
Mo.	104	1,091	8	104	1,091	18
Mont.	238	339	40	238	339	40
Nebr.	(l)	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	14,438	100,832	215	2,579	34,610	98
N. M.	*	12	12	*	12	12
N. Y.	5,812	*	167	1,199	*	167
N. C.	406	4,831	91	403	4,824	91
N. D.	106	-	-	106	-	-
Ohio	3,707	3,707	82	965	965	82
Okla.	*	*	*	*	*	*
Ore.	1,004	2,964	173	973	2,871	173
Pa.	3,540	55,300	626	3,540	55,300	626
R. I.	-	-	-	-	-	-
S. C.	853	853	50	853	853	50
S. D.	*	*	*	*	*	*
Tenn.	1,209	1,252	44	1,200	1,243	44
Tex.	81,488	2,455	169	885	1,809	145
Utah	563	*	48	563	*	48
Vt.	120	292	18	120	292	18
Va.	255	255	44	255	255	44
Wash.	502	502	67	490	490	66
W. Va.	423	1,567	15	423	1,567	15
Wisc.	2,113	7,572	140	2,113	7,572 (m)	140
Wyo.	-	-	-	-	-	-
P. R.	586	1,196	*	586	1,196	*
V. I.	-	-	-	-	-	-

TABLE 15-15. VIROLOGY: HUMAN SOURCE SPECIMENS

	Specimens	Throat Washings		Specimens	Fecal	
		Exams	Positives		Exams	Positives
Ala.	23	92	4	56	224	4
Alaska	-	-	-	-	-	-
Ariz.	*	*	*	*	*	*
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	220	1,320	11	137	822	32
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	98	98	14	488	488	15
Ga.	306	*	6	195	*	23
Hawaii	691	18,980	134	259	6,160	27
Ida.	69	69	-	42	42	6
Ill.	367	1,101	22	549	1,647	59
Ind.	66	45	*	18	14	*
Ia.	326	*	18	191	*	34
Kans.	73	730	15	236	2,360	53
Ky.	111	448	6	132	360	12
La.	*	838 (n)	69 (n)	*	283	19
Me.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
Mass.	*	102	5	*	156	8
Mich.	116	1,116	*	545	5,450	*
Minn.	*	167	5	*	958	64
Miss.	-	-	-	-	-	-
Mo.	25	428	3	41	428	4
Mont.	146	165	29	46	86	7
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	275	4,330	12	1,604	16,040	67
N. M.	*	6	6	*	6	6
N. Y.	144	*	28	613	*	106
N. C.	180	*	13	132	*	37
N. D.	-	-	-	-	-	-
Ohio	298	298	6	348	348	62
Okla.	*	*	*	*	*	*
Ore.	461	*	104	387	*	45
Pa.	678	*	224	929	*	135
R. I.	-	-	-	-	-	-
S. C.	206	206	1	85	85	1
S. D.	*	*	*	*	*	*
Tenn.	135	142	7	321	354	33
Tex.	88	288	17	517	1,065	107
Utah	155	*	7	131	*	6
Vt.	54	148	8	34	68	-
Va.	154	154	26	54	54	6
Wash.	69	69	7	357	357	55
W. Va.	187	1,106	3	129	270	5
Wisc.	741	741	47	659	659	67
Wyo.	-	-	-	-	-	-
P. R.	6	36	*	580	1,160	*
V. I.	-	-	-	-	-	-

TABLE 15-15. VIROLOGY: HUMAN SOURCE SPECIMENS  
(Continued)

	Specimens	<u>CSF</u> Exams	Positives	Specimens	<u>Blood</u> Exams	Positives
Ala.	23	92	-	5	20	-
Alaska	-	-	-	-	-	-
Ariz.	*	*	*	*	*	*
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	38	228	2	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	166	166	2	2	2	1
Ga.	92	*	2	10	*	1
Hawaii	169	3,940	14	222	4,480	1
Ida.	13	13	-	1	1	-
Ill.	245	735	-	3	9	-
Ind.	30	16	*	1	1	*
Ia.	59	*	2	7	*	-
Kans.	31	310	2	-	-	-
Ky.	80	173	*	-	-	-
La.	*	(n)	(n)	*	(n)	(n)
Me.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
Mass.	*	73	-	*	4	-
Mich.	61	610	*	-	-	-
Minn.	*	237	1	*	7	1
Miss.	-	-	-	-	-	-
Mo.	25	145	1	2	22	-
Mont.	18	33	2	19	32	2
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	431	3,448	11	-	-	-
N. M.	-	-	-	-	-	-
N. Y.	209	*	18	23	*	1
N. C.	85	*	14	*	*	*
N. D.	-	-	-	-	-	-
Ohio	185	185	14	27	27	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	501	*	43	-	-	-
R. I.	-	-	-	-	-	-
S. C.	10	10	10	550	550	28
S. D.	*	*	*	*	*	*
Tenn.	160	163	3	-	-	-
Tex.	187	302	16	5	7	-
Utah	30	*	-	211	*	27
Vt.	8	17	-	3	6	-
Va.	33	33	6	-	-	-
Wash.	31	31	-	2	2	-
W. Va.	79	143	5	3	7	2
Wisc.	384	384	11	9	9	-
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 15-15. VIROLOGY: HUMAN SOURCE SPECIMENS  
(Continued)

	Specimens	<u>Tissue</u> Exams	Positives	Specimens	<u>Other</u> Exams	Positives
Ala.	9	45	-	57	20	-
Alaska	-	-	-	-	-	-
Ariz.	*	*	*	*	*	*
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	36	216	1	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	73	73	1	52	52	2
Ga.	-	-	-	107	*	3
Hawaii	56	1,240	3	15	300	-
Ida.	6	6	-	5	5	-
Ill.	243	738	3	165 (o)	495	115
Ind.	5	-	-	19	6	*
Ia.	7	*	-	42	*	6
Kans.	-	-	-	11	110	-
Ky.	1	2	*	22	101	*
La.	*	(n)	(n)	*	(n)	(n)
Me.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
Mass.	*	5	1	*	60	-
Mich.	44	440	*	53	530	*
Minn.	*	74	1	*	125	43
Miss.	-	-	-	-	-	-
Mo.	6	58	-	5	10	-
Mont.	6	20	-	3	3	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	180	10,080	7	89	712	1
N. M.	-	-	-	-	-	-
N. Y.	105	*	4	105	*	10
N. C.	*	*	*	6	*	2
N. D.	-	-	-	-	-	-
Ohio	65	65 (p)	-	42	42	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	125	*	24
Pa.	214	*	9	1,218	*	215
R. I.	-	-	-	-	-	-
S. C.	2	2	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	584	584	1
Tex.	59	93	5	29	54	-
Utah	15	*	3	21	*	5
Vt.	2	5	-	19	48	10
Va.	6	6	2	8	8	4
Wash.	14	14	-	17	17	4
W. Va.	14	15	-	11	26	-
Wisc.	91	91	2	229	229	13
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 15-16. VIROLOGY: ANIMAL SOURCE SPECIMENS

	Total Specimens	Total Exams	Total Positives	Specimens	Horses Exams	Positives
Ala.	57	228	*	1	4	*
Alaska	-	-	-	-	-	-
Ariz.	*	*	*	*	*	*
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	1,131	1,131	39	228	228	22
Ga.	347	* (j)	5	10	*	1
Hawaii	8	320	4	-	-	-
Ida.	1	1	1	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	572	5,920	42	-	-	-
Kans.	6	60	2	-	-	-
Ky.	-	-	-	-	-	-
La.	*	31,657	87	*	46	5
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	54,099	4,564	88	-	-	-
Mich.	-	-	-	-	-	-
Minn.	*	11	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	(q)	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	11,859	66,222	117	50	250	22
N. M.	-	-	-	-	-	-
N. Y.	4,613	*	-	2	*	-
N. C.	3	7	-	3	7	-
N. D.	-	-	-	-	-	-
Ohio	2,742	2,742	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	31	93	*	31	93	*
Pa.	-	-	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	9	9	-	-	-	-
Tex.	80,603	646	24	10	10	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	12	12	1	1	1	-
W. Va.	-	-	-	-	-	-
Wisc.	(r)	-	-	-	-	-
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-



TABLE 15-16. VIROLOGY: ANIMAL SOURCE SPECIMENS  
(Continued)

	Specimens	Birds Exams	Positives	Specimens	Mosquitoes Exams	Positives
Ala.	56	224	*	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	*	*	*	*	*	*
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	8	8	3	860 (s)	860	9
Ga.	3	*	-	332	*	4
Hawaii	8	320	4	-	-	-
Ida.	1	1	1	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	1	10	-	572	5,920	42
Ky.	-	-	-	5	50	2
La.	*	10,933 (t)	78	*	20,558 (s)	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	2,403	2,365	5	49,220	1,343	48
Mich.	-	-	-	-	-	-
Minn.	*	4	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	1,942	9,710	36	2,104 (s)	10,520	42
N. M.	-	-	-	-	-	-
N. Y.	2	*	-	4,604	*	-
N. C.	-	-	-	-	-	-
N. D.	-	-	-	-	-	-
Ohio	1	1	-	1,670 (u)	1,670	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	9	9	-	-	-	-
Tex.	21	22	-	80,570	612	24
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	11	11	1	-	-	-
W. Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 15-16. VIROLOGY: ANIMAL SOURCE SPECIMENS  
(Continued)

	Specimens	Other Exams	Positives
Ala.	-	-	-
Alaska	-	-	-
Ariz.	*	*	*
Ark.	-	-	-
Cal.	*	*	*
Colo.	-	-	-
Conn.	*	*	*
Del.	-	-	-
D. C.	*	*	*
Fla.	35	35	5
Ga.	-	-	-
Hawaii	-	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	-	-	-
Ia.	-	-	-
Kans.	-	-	-
Ky.	-	-	-
La.	*	120 (v)	4
Me.	-	-	-
Md.	-	-	-
Mass.	2,476 (w)	856	35
Mich.	-	-	-
Minn.	*	7 (x)	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	*	*	*
N. H.	-	-	-
N. J.	7,763 (y)	45,742	17
N. M.	-	-	-
N. Y.	5	*	-
N. C.	-	-	-
N. D.	-	-	-
Ohio	1,071 (z)	1,071	*
Okla.	*	*	*
Ore.	-	-	-
Pa.	-	-	-
R. I.	-	-	-
S. C.	-	-	-
S. D.	*	*	*
Tenn.	-	-	-
Tex.	2	2	-
Utah	-	-	-
Vt.	-	-	-
Va.	-	-	-
Wash.	-	-	-
W. Va.	-	-	-
Wisc.	-	-	-
Wyo.	-	-	-
P. R.	-	-	-
V. I.	-	-	-

TABLE 15-17. VIROLOGY: OTHER SOURCE SPECIMENS

	Specimens	Exams	Positives
Ala.	-	-	-
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	-	-	-
Conn.	*	*	*
Del.	-	-	-
D. C.	*	*	*
Fla.	160	160	3
Ga.	2	*	-
Hawaii	-	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	-	-	-
Ia.	8	237	7
Kans.	29	290 (aa)	29
Ky.	-	-	-
La.	-	-	-
Me.	-	-	-
Md.	-	-	-
Mass.	-	-	-
Mich.	-	-	-
Minn.	-	-	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	*	*	*
N. H.	-	-	-
N. J.	-	-	-
N. M.	-	-	-
N. Y.	-	-	-
N. C.	-	-	-
N. D.	-	-	-
Ohio	-	-	-
Okla.	*	*	*
Ore.	-	-	-
Pa.	-	-	-
R. I.	-	-	-
S. C.	-	-	-
S. D.	*	*	*
Tenn.	-	-	-
Tex.	-	-	-
Utah	-	-	-
Vt.	-	-	-
Va.	-	-	-
Wash.	-	-	-
W. Va.	-	-	-
Wisc.	-	-	-
Wyo.	-	-	-
P. R.	-	-	-
V. I.	-	-	-

TABLE 15-18. VIROLOGY: RABIES

	Specimens	Exams	Positives
Ala.	3,760	10,440	77
Alaska	114	226	66
Ariz.	1,869	2,912	42
Ark.	1,264	2,258	76
Cal.	*	*	*
Colo.	323	542	9
Conn.	*	*	*
Del.	133	399	-
D. C.	*	*	*
Fla.	3,952	7,904	117
Ga.	1,202	3,393	564
Hawaii	333	666	-
Ida.	187	187	12
Ill.	2,845	2,976	86
Ind.	3,355	6,492	90
Ia.	956	7,084	30
Kans.	1,346	3,702	72
Ky.	1,585	3,733	536
La.	*	5,059	78
Me.	348	348	61
Md.	532	1,431	-
Mass.	672	1,941	5
Mich.	1,990	9,950	15
Minn.	*	2,080	43
Miss.	671	1,141	7
Mo.	1,137	3,141	89
Mont.	(bb)	-	-
Nebr.	934	934	29
Nev.	*	*	*
N. H.	359	687	3
N. J.	2,284	7,309	26
N. M.	*	1,086	37
N. Y.	1,730	-	37
N. C.	924	1,458	8
N. D.	550	1,100	51
Ohio	3,242	4,692	105
Okla.	*	*	*
Ore.	311	569	6
Pa.	-	-	-
R. I.	132	396	1
S. C.	494	951	2
S. D.	*	*	*
Tenn.	7,509	7,509	480
Tex.	23	23	5
Utah	150	435	3
Vt.	410	577	20
Va.	1,382	3,047	78
Wash.	242	242	3
W. Va.	464	1,467	37
Wisc.	1,413	2,230	50
Wyo.	-	-	-
P. R.	103	280	23
V. I.	-	-	-

FOOTNOTES. TABLES 15-11 - 15-18

- (a) Dermatophytes and Systemic Fungi included in same total.
- (b) Includes 623 Candida albicans positives.
- (c) Includes 4 positives not shown in further breakdown.
- (d) Includes 305 exams for occult blood, with 147 positives, which are not shown in further breakdown.
- (e) Examinations for Trichomonas made on all smears for Neisseria gonorrhoeae.
- (f) About 10% of GC Smears.
- (g) Excluding Rabies, which is in Table 15-18.
- (h) Requests and specimens are forwarded to NCDC.
- (i) Includes 5 non-typable isolates.
- (j) Information not available. The figure 7,331 represents total isolation and identification exams on all specimens.
- (k) Represents animal source only.
- (l) Referred to Nebraska University, College of Medicine.
- (m) Represents 4 cell lines, mice and eggs, dependent upon specimen source.
- (n) Throat washings, CSF, Blood, Tissue and other included in one figure.
- (o) TC fluids.
- (p) Includes 50 virus isolations in eggs and 15 virus animal inoculations.
- (q) This work is done largely at Rocky Mountain Laboratory or Diagnostic Laboratory of the Livestock Sanitary Board.
- (r) Performed by Wisconsin Animal Health Laboratories.
- (s) Pools.
- (t) Sentinel chickens included with "Birds."
- (u) Pools ground.
- (v) Rat bloods.
- (w) Mammals, except bats, 1,612 specimens, 117 exams; Experimental bats, 520 specimens, 520 exams, 35 positives; Reptiles, 344 specimens, 219 exams.
- (x) Mice.
- (y) Represents the following: Human, 140 specimens, 700 exams; Ecto pools, 295 specimens, 1,475 exams, 1 positive; Fly pools, 177 specimens, 885 exams, 1 positive; Non-avians (whole animals) 496 specimens, 2,480 exams, 5 positive; Non-avians (bloods only), 1,159 specimens, 5,795 exams, 8 positive; Suckling mice, 2,309 specimens, 18,472 exams, 1 positive; and Chicks, 3,187 specimens, 15,935 exams, 1 positive.
- (z) Mosquitoes, second passage in mice.
- (aa) Sewage.
- (bb) This is done at Livestock Sanitary Board at State University; and some special studies at Rocky Mountain Laboratory.

TABLE 15-19. SEROLOGY: EXAMINATIONS OF BLOOD FOR SYPHILIS

	Specimens	Exams	Positives (a)
Ala.	355,320	387,546	20,510
Alaska	24,085	24,529	791
Ariz.	57,870	65,567	4,971
Ark.	91,551	95,329	3,508
Cal.	*	*	*
Colo.	125,831	129,093	4,033
Conn.	*	*	*
Del.	38,573	40,905	2,332
D. C.	*	*	*
Fla.	805,409	840,147	32,147
Ga.	509,577	520,252	12,301
Hawaii	26,900	30,705	3,226
Ida.	34,305	37,141	578
Ill.	359,790	362,587	16,122
Ind.	143,798	155,346	13,542
Ia.	206,006	206,006	3,921
Kans.	112,193	118,741	4,224
Ky.	139,192	139,357	9,193
La.	*	344,774	29,388
Me.	49,790	54,388	1,502
Md.	149,415	170,410	30,800
Mass.	481,156	481,156	7,592
Mich.	336,428	366,591	13,403
Minn.	180,775	200,418	5,086
Miss.	235,157	241,955	10,570
Mo.	60,744	74,588	5,650
Mont.	32,378	34,711	1,419
Nebr.	93,093	98,077	1,876
Nev.	*	*	*
N. H.	45,669	49,136	2,436
N. J.	215,795	225,109	9,895
N. M.	*	53,158	6,384
N. Y.	*	127,832	10,100
N. C.	344,441	370,088	16,905
N. D.	48,326	50,256	464
Ohio	102,719	119,193	9,564
Okla.	*	*	*
Ore.	89,397	171,325	3,873
Pa.	28,183	33,415	2,989
R. I.	39,529	44,385	2,038
S. C.	331,277	350,698	13,438
S. D.	*	*	*
Tenn.	435,475	435,475	12,916
Tex.	348,206	386,884	38,098
Utah	84,887	93,031	6,012
Vt.	37,500	37,500	880
Va.	201,795	204,909	8,650
Wash.	37,236	39,733	3,250
W. Va.	38,352	42,864	1,797
Wisc.	217,085	227,235	5,541
Wyo.	9,793	9,793	317
P. R.	86,102	86,102	6,708
V. I.	11,488	12,779	286

TABLE 15-20. SEROLOGY: EXAMINATIONS OF SPINAL FLUID FOR SYPHILIS

	Specimens	Exams	Positives (a)
Ala.	1,164	1,168	11
Alaska	102	102	*
Ariz.	135	164	5
Ark.	45	46	1
Cal.	*	*	*
Colo.	465	465	9
Conn.	*	*	*
Del.	147	147	-
D. C.	*	*	*
Fla.	877	877	6
Ga.	453	420	14
Hawaii	259	259	4
Ida.	139	301	*
Ill.	736	736	18
Ind.	1,242	2,459	122
Ia.	1,511	1,511	11
Kans.	315	630	4
Ky.	334	874	109
La.	*	1,707	15
Me.	1,009	3,027	13
Md.	1,062	1,192	15
Mass.	8,563	8,563	46
Mich.	579	624	13
Minn.	4,398	11,443	21
Miss.	31	62	-
Mo.	393	786	175
Mont.	365	365	3
Nebr.	734	1,431	17
Nev.	*	*	*
N. H.	274	319	6
N. J.	657	657	10
N. M.	*	293	29
N. Y.	*	7,664	170
N. C.	1,141	1,181	29
N. D.	367	376	9
Ohio	590	725	114
Okla.	*	*	*
Ore.	211	219	8
Pa.	115	246	4
R. I.	501	953	1
S. C.	661	661	16
S. D.	*	*	*
Tenn.	754	1,057	17
Tex.	923	952	118
Utah	270	313	2
Vt.	500	500	20
Va.	907	937	77
Wash.	1,101	1,111	17
W. Va.	51	102	3
Wisc.	1,301	1,311	11
Wyo.	17	17	1
P. R.	-	-	-
V. I.	12	12	2

TABLE 15-21. SEROLOGY: BACTERIAL AND MISCELLANEOUS

	Total Specimens	Total Exams	Typhoid			
			H antigen		O antigen	
			Exams	Positives	Exams	Positives
Ala.	162	418	-	-	-	-
Alaska	213	746	90	-	90	-
Ariz.	178	416	48	4	49	3
Ark.	896	4,605	508	15	492	6
Cal.	*	*	*	*	*	*
Colo.	400	991	-	-	77	7
Conn.	*	*	*	*	*	*
Del.	39	49	6	-	6	-
D. C.	*	*	*	*	*	*
Fla.	3,924	5,998	-	-	1,728	54
Ga.	4,870	9,067	-	-	1,462	4
Hawaii	765	3,222	110	10	110	4
Ida.	747	2,634	747 (b)	11 (b)	(b)	(b)
Ill.	10,261	17,920	1,160	112	1,160	155
Ind.	1,878	7,838	46	12	1,800	10
Ia.	16,422	21,389	1,120	53	1,120	53
Kans.	2,054	4,166	-	-	-	-
Ky.	922	5,430	890	310	890	288
La.	*	7,129	3,064 (b)	65	(b)	58
Me.	1,290	2,831	307	2	307	6
Md.	2,936	3,979	-	-	-	-
Mass.	906	8,483	906	63	906	82
Mich.	*	3,170	2	-	2	-
Minn.	*	21,453	1,142	388	1,142	231
Miss.	1,582	2,713	-	-	538	5
Mo.	702	2,311	406	-	406	-
Mont.	1,156	2,806	398	-	398	-
Nebr.	10,487	18,957	125	27	5,681	112
Nev.	*	*	*	*	*	*
N. H.	153	751	148	-	148	-
N. J.	*	3,544	-	-	-	-
N. M.	*	2,762	756	-	756	-
N. Y.	*	5,901	290	*	290	*
N. C.	*	5,324	79	10	79	7
N. D.	4,114	17,901	4,114	*	4,114	*
Ohio	4,736	3,784	114	19	447	48
Okla.	*	*	*	*	*	*
Ore.	1,885	2,421	180	20	180	2
Pa.	*	40	-	-	-	-
R. I.	179	415	55	-	55	-
S. C.	33,872	6,680	1,054	282	-	-
S. D.	*	*	*	*	*	*
Tenn.	1,998	5,526	-	-	1,081	93
Tex.	*	3,711	-	-	804	18
Utah	7,346	8,513	60	*	60	*
Vt.	2,700	8,680	820	26	820	16
Va.	8,498	21,250	-	-	2,338	154
Wash.	*	6,476	960	(c)	960	*
W. Va.	*	640	77	1	77	1
Wisc.	19,966	24,818	237	10	237	6
Wyo.	*	971	139	1	139	1
P. R.	2,628	2,834	-	-	-	-
V. I.	280	382	17	-	17	-



TABLE 15-21. SEROLOGY: BACTERIAL AND MISCELLANEOUS  
(Continued)

	Paratyphoid A		Paratyphoid B		Brucella	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	-	-	-	-	81	1
Alaska	87	-	87	-	9	1
Ariz.	47	1	49	6	55	1
Ark.	435	2	434	1	485	3
Cal.	*	*	*	*	*	*
Colo.	77	12	77	11	94	4
Conn.	*	*	*	*	*	*
Del.	6	-	6	-	6	-
D. C.	*	*	*	*	*	*
Fla.	-	-	-	-	1,728	16
Ga.	-	-	-	-	1,472	7
Hawaii	110	1	110	13	91	1
Ida.	-	-	374	6	880	4
Ill.	-	-	-	-	3,806	130
Ind.	46	4	46	4	1,801	1
Ia.	403	4	402	6	12,110	1,375
Kans.	-	-	-	-	2,007	5
Ky.	890	19	890	278	904	15
La.	10	3	10	1	1,663	16
Me.	307	1	307	4	317	4
Md.	-	-	-	-	342	10
Mass.	53	1	906	33	906	15
Mich.	-	-	2	1	272	14
Minn.	21	1	1,142	332	4,628	202
Miss.	-	-	-	-	538	10
Mo.	-	-	-	-	472	14
Mont.	-	-	398	-	512	4
Nebr.	-	-	5,681	179	4,116	144
Nev.	*	*	*	*	*	*
N. H.	148	-	148	-	148	-
N. J.	-	-	-	-	97	9
N. M.	54	-	55	-	742	-
N. Y.	926 (d)	*	(d)	*	432	*
N. C.	-	-	-	-	593	24
N. D.	-	-	-	-	4,114	*
Ohio	57	-	101	-	485	11
Okla.	*	*	*	*	*	*
Ore.	180	-	180	-	180	-
Pa.	-	-	-	-	-	-
R. I.	55	-	55	-	55	-
S. C.	557	58	-	-	525	23
S. D.	*	*	*	*	*	*
Tenn.	190	3	190	6	1,081	15
Tex.	-	-	-	-	714	35
Utah	-	-	12	*	1,988	*
Vt.	820	10	820	11	820	39
Va.	-	-	2,315	135	3,448	287
Wash.	-	-	-	-	961	*
W. Va.	77	1	77	1	104	3
Wisc.	-	-	237	4	3,237	1
Wyo.	-	-	130	3	169	1
P. R.	-	-	-	-	221	*
V. I.	17	-	17	-	17	-

TABLE 15-21. SEROLOGY: BACTERIAL AND MISCELLANEOUS  
(Continued)

	Tularensis		Weil-Felix					
	Exams	Positives	Exams	OX-19 Positives	Exams	OX-2 Positives	Exams	OX-K Positives
Ala.	87	-	-	-	-	-	-	-
Alaska	85	-	87	-	17	-	17	-
Ariz.	14	2	45	1	5	-	4	-
Ark.	934	59	405	10	399	4	25	-
Cal.	*	*	*	*	*	*	*	*
Colo.	85	7	67	1	67	-	67	1
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	6	-	4	-	4	-
D. C.	*	*	*	*	*	*	*	*
Fla.	173	3	173	1	-	-	-	-
Ga.	1,431	9	1,510	18	-	-	-	-
Hawaii	1	-	70	3	-	-	-	-
Ida.	54	6	7	*	7	*	7	*
Ill.	2,392	84	708 (e)	84	108	38	108	8
Ind.	1,799	42	819	41	35	2	35	-
Ia.	62	5	114	10	114	10	114	10
Kans.	1,975	31	-	-	-	-	-	-
Ky.	13	9	893	274	3	*	3	*
La.	122	18	1,632	7	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	355	12	-	-	-	-	-	-
Mass.	20	6	68	16	68	1	68	-
Mich.	19	4	-	-	-	-	-	-
Minn.	428	3	419	51	419	57	-	-
Miss.	538	3	17	7	-	-	-	-
Mo.	458	24	176	2	20	-	20	-
Mont.	497	5	-	-	-	-	-	-
Nebr.	55	2	73	4	-	-	73	-
Nev.	*	*	*	*	*	*	*	*
N. H.	2	-	3	-	3	-	3	-
N. J.	37	1	168 (f)	14	12	2	-	-
N. M.	26	-	45	-	83	-	-	-
N. Y.	186	*	184	*	2	*	-	-
N. C.	589	8	-	-	-	-	-	-
N. D.	8	*	29	*	29	*	29	*
Ohio	84	3	124	46	116	50	117	19
Okla.	*	*	*	*	*	*	*	*
Ore.	24	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-
R. I.	-	-	6	-	6	-	6	-
S. C.	94	1	349	42	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	1,081	18	1,081	13	-	-	-	-
Tex.	714	29	876	39	-	-	-	-
Utah	1,946	*	1,275	*	-	-	-	-
Vt.	-	-	810	81	810	19	810	14
Va.	2,153	31	2,245	340	1,763	365	-	-
Wash.	37	*	59	*	59	*	59	*
W. Va.	83	-	83	14	5	-	6	-
Wisc.	1,533	5	46	-	46	-	46	-
Wyo.	199	9	9	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-
V. I.	17	-	17	-	-	-	-	-

TABLE 15-21. SEROLOGY: BACTERIAL AND MISCELLANEOUS  
(Continued)

	<u>Antistreptolysin O</u>		<u>Leptospiral</u>		<u>Other Bacterial</u>	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	-	-	250	2	-	-
Alaska	78	9	-	-	68 (g)	-
Ariz.	14	3	-	-	2	-
Ark.	15	4	40	4	-	-
Cal.	*	*	*	*	*	*
Colo.	215	*	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	-	-	468	29	-	-
Ga.	-	-	128	5	-	-
Hawaii	-	-	2,310	86	-	-
Ida.	-	-	120	*	-	-
Ill.	-	-	118	4	-	-
Ind.	-	-	256	6	12 (h)	2
Ia.	246	145	1,638	19	-	-
Kans.	-	-	138	4	-	-
Ky.	-	-	-	-	-	-
La.	11	*	98	8	-	-
Me.	-	-	17	2	-	-
Md.	1,011	-	220	-	-	-
Mass.	-	-	-	-	2	-
Mich.	80	-	303	-	-	-
Minn.	591	325	-	-	-	-
Miss.	780	-	43	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	27	7	63	9	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	348	-	263	1	-	-
N. M.	207	-	20	-	-	-
N. Y.	454	*	162	*	-	-
N. C.	2,200	1,371	121	1	-	-
N. D.	1,912	1,912	-	-	-	-
Ohio	-	-	795	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	52	-	20	-
Pa.	-	-	-	-	-	-
R. I.	2	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	*	22	-	-
Tex.	99	67	468	94	-	-
Utah	-	-	13	*	-	-
Vt.	-	-	520	3	130 (i)	64
Va.	671	344	302	2	1	1
Wash.	2,170	*	255	*	-	-
W. Va.	12	1	-	-	-	-
Wisc.	3,766	168	950	10	1,593 (j)	328
Wyo.	-	-	-	-	-	-
P. R.	1,324	*	44	-	-	-
V. I.	146	5	-	-	-	-

TABLE 15-21. SEROLOGY: BACTERIAL AND MISCELLANEOUS  
(Continued)

	<u>Infectious Mononucleosis</u>		<u>Cold Agglutination</u>		<u>C-Reactive Protein</u>	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	-	-	-	-	-	-
Alaska	31	4	-	-	-	-
Ariz.	84	12	-	-	-	-
Ark.	433	27	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	128	21	37	12	-	-
Conn.	*	*	*	*	*	*
Del.	5	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	1,728	154	-	-	-	-
Ga.	3,037	394	27	6	-	-
Hawaii	310	80	-	-	-	-
Ida.	420	*	-	-	-	-
Ill.	8,265	1,675	95	2	-	-
Ind.	1,143	157	-	-	-	-
Ia.	3,520	935	-	-	247	56
Kans.	46	13	-	-	-	-
Ky.	-	-	18	18	-	-
La.	506	291	-	-	13	-
Me.	1,284	969	-	-	-	-
Md.	1,901	743	-	-	34	6
Mass.	4,580	979	-	-	-	-
Mich.	2,456	604	6	-	-	-
Minn.	10,929	5,110	-	-	592	110
Miss.	259	28	-	-	-	-
Mo.	353	41	-	-	-	-
Mont.	603	45	-	-	-	-
Nebr.	3,063	970	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	2,535	191	84	10	-	-
N. M.	18	-	-	-	-	-
N. Y.	1,605	*	-	-	480	*
N. C.	961	219	21	-	681	170
N. D.	3,465	376	83	*	4	*
Ohio	634	261	513	56	-	-
Okla.	*	*	*	*	*	*
Ore.	1,425	375	-	-	-	-
Pa.	40	12	-	-	-	-
R. I.	120	37	-	-	-	-
S. C.	4,101	723	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	478	39	344	14	-	-
Tex.	36	36	-	-	-	-
Utah	3,020	*	139	*	-	-
Vt.	1,500	424	-	-	-	-
Va.	6,014	1,163	-	-	-	-
Wash.	871	*	-	-	-	-
W. Va.	39	11	-	-	-	-
Wisc.	6,693	1,269	516	59	2,249	372
Wyo.	186	13	-	-	-	-
P. R.	65	3	-	-	675	120
V. I.	-	-	-	-	117	5

TABLE 15-21. SEROLOGY: BACTERIAL AND MISCELLANEOUS  
(Continued)

	<u>Rheumatoid Disease</u>		Exams	<u>Other</u>	
	Exams	Positives		Exams	Positives
Ala.	-	-	-	-	
Alaska	-	-	-	-	
Ariz.	-	-	-	-	
Ark.	-	-	-	-	
Cal.	*	*	*	*	
Colo.	-	-	-	-	
Conn.	*	*	*	*	
Del.	-	-	-	-	
D. C.	*	*	*	*	
Fla.	-	-	-	-	
Ga.	-	-	-	-	
Hawaii	-	-	-	-	
Ida.	18	*	-	-	
Ill.	-	-	-	-	
Ind.	-	-	-	-	
Ia.	150	24	29	-	
Kans.	-	-	-	-	
Ky.	-	-	36	18	
La.	-	-	-	-	
Me.	-	-	-	-	
Md.	116	-	-	-	
Mass.	-	-	-	-	
Mich.	-	-	28	-	
Minn.	-	-	-	-	
Miss.	-	-	-	-	
Mo.	-	-	-	-	
Mont.	-	-	-	-	
Nebr.	-	-	-	-	
Nev.	*	*	*	*	
N. H.	-	-	-	-	
N. J.	-	-	-	-	
N. M.	-	-	-	-	
N. Y.	890	*	-	-	
N. C.	-	-	-	-	
N. D.	-	-	-	-	
Ohio	-	-	197 (k)	95	
Okla.	*	*	*	*	
Ore.	-	-	-	-	
Pa.	-	-	-	-	
R. I.	-	-	-	-	
S. C.	-	-	-	-	
S. D.	*	*	*	*	
Tenn.	-	-	-	-	
Tex.	-	-	-	-	
Utah	-	-	-	-	
Vt.	-	-	-	-	
Va.	-	-	-	-	
Wash.	85	-	-	-	
W. Va.	-	-	-	-	
Wisc.	3,432	483	-	-	
Wyo.	-	-	-	-	
P. R.	505	146	-	-	
V. I.	-	-	-	-	

TABLE 15-22. SEROLOGY: FUNGAL

	Total Specimens	Total Exams	Total Positives	<u>Blastomycosis</u>		<u>Coccidioidomycosis</u>	
				Exams	Positives	Exams	Positives
Ala.	1,293	5,172	217	1,293	49	1,293	5
Alaska	-	-	-	-	-	-	-
Ariz.	6,619	12,970	1,269	-	-	12,672	1,267
Ark.	*	4,756	409	1,189	113	1,189	14
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-
Ga.	569	2,276	26	569	14	569	1
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	4,060	11,998	1,045	1,930	253	1,955	9
Ind.	1,310	4,019	431	1,309	86	90	1
Ia.	870	4,420	520	1,105	131	1,105	18
Kans.	466	1,864	114	466	79	466	2
Ky.	1,160	5,198	463	1,334	88	1,137	3
La.	*	1,795	214	496	51	404	2
Me.	-	-	-	-	-	-	-
Md.	701	2,967	*	733	*	747	*
Mass.	-	-	-	-	-	-	-
Mich.	*	6,198	*	2,066	*	2,066	*
Minn.	*	3,715	268	742	29	773	10
Miss.	1,642	5,006	488	1,642	121	80	-
Mo.	991	3,964	421	991	119	991	9
Mont.	9	45	3	9	1	9	1
Nebr.	(1)	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-
N. M.	*	27	*	-	-	15	*
N. Y.	*	3,102	*	1,206	*	204	*
N. C.	*	1,033	46	305	22	131	-
N. D.	-	-	-	-	-	-	-
Ohio	2,517	6,536	1,999	751	159	751	79
Okla.	*	*	*	*	*	*	*
Ore.	*	171	9	57	-	57	3
Pa.	*	1,026	*	341	*	341	*
R. I.	-	-	-	-	-	-	-
S. C.	*	29	14	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	2,757	5,514	147	-	-	-	-
Tex.	*	10,449	392	2,612	155	2,614	38
Utah	-	-	-	-	-	-	-
Vt.	31	93	-	-	-	31	-
Va.	964	2,892	189	964	47	964	-
Wash.	-	-	-	-	-	-	-
W. Va.	73	244	11	51	1	61	-
Wisc.	1,823	1,823	87	499	20	499	8
Wyo.	-	-	-	-	-	-	-
P. R.	*	210	31	-	-	-	-
V. I.	-	-	-	-	-	-	-

TABLE 15-22. SEROLOGY: FUNGAL  
(Continued)

	<u>Histoplasmosis</u>		<u>Other</u>	
	Exams	Positives	Exams	Positives
Ala.	1,293	78	1,293	85 (m)
Alaska	-	-	-	-
Ariz.	298	2	-	-
Ark.	2,378	282	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	*	*	*	*
Del.	-	-	-	-
D. C.	*	*	*	*
Fla.	-	-	-	-
Ga.	1,138	11	-	-
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	8,113	783	-	-
Ind.	2,620	344	-	-
Ia.	2,210	371	-	-
Kans.	466	19	466	14
Ky.	2,727	372	-	-
La.	895	161	-	-
Me.	-	-	-	-
Md.	1,487	*	-	-
Mass.	-	-	-	-
Mich.	2,066	*	-	-
Minn.	1,100	77	1,100	152 (m)
Miss.	3,284	367	-	-
Mo.	1,982	293	-	-
Mont.	27	1	-	-
Nebr.	-	-	-	-
Nev.	*	*	*	*
N. H.	-	-	-	-
N. J.	-	-	-	-
N. M.	12	*	-	-
N. Y.	1,206	*	486 (n)	*
N. C.	597	24	-	-
N. D.	-	-	-	-
Ohio	5,034	1,761	-	-
Okla.	*	*	*	*
Ore.	57	6	-	-
Pa.	341	*	3 (n)	*
R. I.	-	-	-	-
S. C.	29	14	-	-
S. D.	*	*	*	*
Tenn.	5,514	147	-	-
Tex.	2,610	64	2,613	135 (m)
Utah	-	-	-	-
Vt.	62	-	-	-
Va.	964	142	-	-
Wash.	-	-	-	-
W. Va.	132	10	-	-
Wisc.	825	59	-	-
Wyo.	-	-	-	-
P. R.	14	-	196 (o)	31
V. I.	-	-	-	-

TABLE 15-23. SEROLOGY: PARASITOLOGICAL

	Total Specimens	Total Exams	Total Positives	<u>Trichinosis</u>		<u>Toxoplasmosis</u>	
				Exams	Positives	Exams	Positives
Ala.	395	1,501	67	-	-	1,501	67
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	372	372	195	-	-	372	195
Ga.	-	-	-	-	-	-	-
Hawaii	6	6	-	6	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	*	1,136	402	(1)	-	1,136	402
Ind.	51	51	6	33	3	18	3
Ia.	236	236 (p)	53	30	2	199	50
Kans.	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-
La.	*	147	54	(1)	-	147	54
Me.	-	-	-	-	-	-	-
Md.	768	1,856	*	47	*	1,809	*
Mass.	-	-	-	-	-	-	-
Mich.	*	12	1	12	1	-	-
Minn.	*	1,102	242	-	-	1,102	242
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	20	18	-	1	-	17	-
Nebr.	(1)	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	*	145	5	145	5	-	-
N. M.	-	-	-	-	-	-	-
N. Y.	*	1,744	*	178	*	1,566	*
N. C.	*	720	173	-	-	720	173
N. D.	-	-	-	-	-	-	-
Ohio	532	532	116	121	31	411	85
Okla.	*	*	*	*	*	*	*
Ore.	*	148	28	46	4	102	24
Pa.	140	845	39	*	3	845	36
R. I.	-	-	-	-	-	-	-
S. C.	*	65	16	-	-	65	16
S. D.	*	*	*	*	*	*	*
Tenn.	159	159	5	-	-	159	5
Tex.	*	2,206	689	74	3	2,132	686
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	160	160	22	160	22	-	-
Wash.	*	34	*	34	*	-	-
W. Va.	-	-	-	-	-	-	-
Wisc.	489	489	139	3	-	486	139
Wyo.	-	-	-	-	-	-	-
P. R.	*	*	1	*	*	*	1
V. I.	-	-	-	-	-	-	-



TABLE 15-24. SEROLOGY: VIRAL AND RICKETTSIAL

	Total Specimens	Total Exams	Total Positives	Complement Fixation		Exams	HAD I Positives
				Exams	Positives		
Ala.	*	5,964	70	5,478	33	486	37
Alaska	-	-	-	-	-	-	-
Ariz.	420	909	63	886	58	23	5
Ark.	*	*	*	*	*	*	*
Cal.	*	*	*	*	*	*	*
Colo.	-	4,334	595	3,762	131	568	463
Conn.	*	*	*	*	*	*	*
Del.	-	(q)	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	5,937	13,955	2,009 (r)	8,337	1,066	5,586	921
Ga.	3,428	9,985	2,196	5,954	649	2,236	1,336
Hawaii	3,127	40,130	309	19,056	115	10,954	175
Ida.	657	5,034	135	4,869	135	81	-
Ill.	4,893	35,834 (s)	373	30,720	141	2,428	217
Ind.	983	6,750	82	6,590	55	156	27
Ia.	2,639	18,029	3,075	8,602	2,435	743	640
Kans.	1,985	5,012	1,985	800	2,744	1,131	2,210
Ky.	747	2,787	75	2,218	58	550	17
La.	*	16,204	961	2,700	411	13,293	480
Me.	342	342	301	-	-	342	301
Md.	1,541	25,654	-	2,951	-	20,342	-
Mass.	1,783	6,692	1,041	4,708	164	810	558
Mich.	*	14,401	530	10,073	185	2,603	*
Minn.	*	16,156	502	6,218	125	418	57
Miss.	61	81	* (t)	81	*	-	-
Mo.	479	1,271	62	700	7	551	55
Mont.	846	3,582	390	2,616	142	938	248
Nebr.	(u)	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	*	93,153	3,819	4,703	422	44,537	2,859
N. M.	*	767	14	-	-	753	*
N. Y.	-	-	-	-	-	-	-
N. C.	*	3,104	1,131	1,112	325	1,927	781
N. D.	-	-	-	-	-	-	-
Ohio	9,197	19,381	4,646	12,150	4,646	7,123	-
Okla.	*	*	*	*	*	*	*
Ore.	*	13,252	346	9,600	208	3,516	120
Pa.	*	41,207	233	38,336	145	2,357	86
R. I.	-	-	-	-	-	-	-
S. C.	*	3,798	-	400	-	3,398	-
S. D.	*	*	*	*	*	*	*
Tenn.	1,765	9,126	82	8,566	74	60	5
Tex.	*	27,509	641	3,835	242	19,971	119
Utah	677	677	*	145	*	516	*
Vt.	45	446	-	446	-	-	-
Va.	1,175	3,980	1,043	3,366	743	609	299
Wash.	*	3,893	219	3,156	128	402	21
W. Va.	*	1,524	97	735	28	6	2
Wisc.	1,869	12,352	174	9,600	103	2,695	70
Wyo.	-	-	-	-	-	-	-
P. R.	*	136	*	-	-	136	*
V. I.	-	-	-	-	-	-	-

TABLE 15-24. SEROLOGY: VIRAL AND RICKETTSIAL  
(Continued)

	Neutralization		Exams	FA	Exams	Other
	Exams	Positives		Positives		Positives
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	*	*	*	*	*	*
Cal.	*	*	*	*	*	*
Colo.	4	1	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	32	22	-	-	-	-
Ga.	1,795	211	-	-	-	-
Hawaii	10,120	19	-	-	-	-
Ida.	84	-	-	-	-	-
Ill.	2,432	-	-	-	-	-
Ind.	4	-	-	-	-	-
Ia.	8,684	-	-	-	-	-
Kans.	58	54	-	-	-	-
Ky.	19	*	-	-	-	-
La.	-	-	211	70	-	-
Me.	-	-	-	-	-	-
Md.	2,361	-	-	-	-	-
Mass.	812	52	362	267	-	-
Mich.	1,725	345	-	-	-	-
Minn.	5,393	245	2,060	43	2,060 (v)	32
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	20 (w)	-
Mont.	12	-	-	-	16 (v)	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	42,853	293	1,060	245	-	-
N. M.	14	14	-	-	-	-
N. Y.	-	-	-	-	-	-
N. C.	65	25	-	-	-	-
N. D.	-	-	-	-	-	-
Ohio	-	-	-	-	108 (x)	-
Okla.	*	*	*	*	*	*
Ore.	136	18	-	-	-	-
Pa.	514	2	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	500	3	-	-	-	-
Tex.	2	-	3,701	280	-	-
Utah	16	*	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	5	1	-	-	-	-
Wash.	66	66	269	4	-	-
W. Va.	234	13	549	54	-	-
Wisc.	57	1	-	-	-	-
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 15-25. SEROLOGY: BLOOD FACTOR ANTIBODY AND SERUM ELECTROPHORESIS

	Specimens	Rh Antibody	Other Exams	Serum Electrophoresis
Ala.	50	50	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	*	*	*	*
Del.	-	-	-	-
D. C.	*	*	*	*
Fla.	-	-	-	3,313
Ga.	(y)	674	11,783	-
Hawaii	-	-	-	-
Ida.	-	-	-	7
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	-	-	-	-
Ky.	9,361	9,361	1,833	-
La.	-	-	-	-
Me.	-	-	-	-
Md.	4,827	4,827	2,370	-
Mass.	-	-	-	-
Mich.	*	6,942	682	-
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	*	*	*	*
N. H.	-	-	-	-
N. J.	*	-	23,171 (z)	-
N. M.	*	1,409	-	-
N. Y.	*	3,881	775	317
N. C.	-	-	-	-
N. D.	-	-	-	-
Ohio	1,018	1,018	-	-
Okla.	*	*	*	*
Ore.	-	-	-	-
Pa.	-	-	-	-
R. I.	-	-	-	-
S. C.	*	14,435	-	-
S. D.	*	*	*	*
Tenn.	351	351	-	-
Tex.	-	-	-	-
Utah	8,139	9,422	-	-
Vt.	800	800	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W. Va.	-	-	-	-
Wisc.	8,136	8,136	-	-
Wyo.	-	-	-	52
P. R.	-	-	-	-
V. I.	-	-	-	-

FOOTNOTES. TABLES 15-19 - 15-25

- (a) Weakly reactive or above.
- (b) Includes both H & O antigens.
- (c) This Laboratory reports titers obtained, not as positive or negative.
- (d) Paratyphoid A and B included in one figure.
- (e) Figure includes initial screen test, as well as specific OX-19.
- (f) Weil-Felix, 156 exams, 10 positives.
- (g) Paratyphoid C.
- (h) Gonococcus.
- (i) Francisella tularensis.
- (j) Mycoplasma.
- (k) Streptococcus MG.
- (l) Referred to NCDC.
- (m) Histoplasmosis, yeast phase.
- (n) Cryptococcus.
- (o) Cultures.
- (p) Includes 7 exams with 1 positive not shown in further breakdown.
- (q) All Viral and Rickettsial exams are done by the New Jersey State Laboratory.
- (r) Includes multiple sera from 145 patients with 4-fold diagnostic changes; 530 rubella survey sera; and 168 animal arbovirus surveillance sera.
- (s) Includes 254 RMSF and Typhus exams, with 15 positives, not shown in further breakdown.
- (t) Positives undetermined.
- (u) Referred to University of Nebraska College of Medicine.
- (v) Cold agglutinins.
- (w) Capillary agglutination test.
- (x) Gel diffusion.
- (y) Specimens entered under "Exams of Blood for Syphilis", Table 15-19. "Other Exams" represent 11,716 Indirect Coombs, and 67 Rh Antibody Titrations.
- (z) Rubella (HAI test).

TABLE 15-26. HEMATOLOGY OR BLOOD BANK

	Total Specimens	Total Exams	Cell Counts	Smears, "L-E" Cells	Smears, Sickled Cells	Erythrocyte Vol. (hematocrit)	Erythrocyte Sed. Rate
Ala.	10,821	10,821	-	-	-	-	-
Alaska	4,600	9,188	-	-	-	-	-
Ariz.	3,096	8,865	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*
Del.	404	404	28	-	6	167	-
D. C.	*	*	*	*	*	*	*
Fla.	58,831	58,831	6,800	-	5,295	6,207	-
Ga.	(a)	163,232	-	-	-	-	-
Hawaii	1,250	1,276	6	-	-	-	-
Ida.	*	893	-	-	-	-	878 (b)
Ill.	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	483	494	81	-	-	133	64
La.	*	1,543	744	-	5	-	129
Me.	9,533	10,658	-	-	-	-	-
Md.	32,190	87,205	15,718	31 (c)	379	16,996	1,394
Mass.	-	-	-	-	-	-	-
Mich.	*	63,081	11,873	-	8,506	3,444	1,313
Minn.	-	-	-	-	-	-	-
Miss.	26,301	26,301	2,698	-	105	6,171	-
Mo.	-	-	-	-	-	-	-
Mont.	354	694	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	6,000	18,250	5,998	10	-	6,015	81
N. J.	*	246	-	-	-	-	-
N. M.	*	2,037	-	-	-	-	-
N. Y.	*	22,399	39	-	-	39	39
N. C.	-	-	-	-	-	-	-
N. D.	*	15,950	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-
R. I.	2,376	2,376	-	-	-	-	-
S. C.	*	4,960	885	-	22	-	4
S. D.	*	*	*	*	*	*	*
Tenn.	17,106	34,181	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	*	54,474	-	-	-	-	-
Vt.	6,000	6,000	-	-	-	-	-
Va.	3,393	6,786	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W. Va.	113	339	226	-	-	-	-
Wisc.	27,494	27,494	-	4	-	-	-
Wyo.	-	-	-	-	-	-	-
P. R.	*	199,553	59,559	222	53	26,705	2,251
V. I.	-	-	-	-	-	-	-

TABLE 15-26. HEMATOLOGY OR BLOOD BANK  
(Continued)

	Hemoglobin	Blood Group (ABO)	Blood Type (Rh)	Other
Ala.	-	-	10,821	-
Alaska	-	4,600	4,588	-
Ariz.	-	4,426	4,351	88
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	*	*	*	*
Del.	175	-	-	28 (d)
D. C.	*	*	*	*
Fla.	23,109	312	17,108	-
Ga.	-	81,615	81,617	-
Hawaii	3	132	1,135	-
Ida.	15	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	-	-	-	-
Ky.	184	-	-	32
La.	665	-	-	-
Me.	-	9,533	1,125	-
Md.	18,434	6,219	19,889	8,145 (e)
Mass.	-	-	-	-
Mich.	24,415	6,574	6,898	58
Minn.	-	-	-	-
Miss.	9,671	2,845	4,811	-
Mo.	-	-	-	-
Mont.	-	347 (f)	347 (f)	-
Nebr.	-	-	-	-
Nev.	*	*	*	*
N. H.	6,146	-	-	-
N. J.	-	123	123	-
N. M.	-	1,462	575	-
N. Y.	39	9,181	9,181	3,881
N. C.	-	-	-	-
N. D.	-	5,426	10,524	-
Ohio	-	-	-	-
Okla.	*	*	*	*
Ore.	-	-	-	-
Pa.	-	-	-	-
R. I.	2,376	-	-	-
S. C.	4,049	-	-	-
S. D.	*	*	*	*
Tenn.	-	17,106	17,075	-
Tex.	-	-	-	-
Utah	-	25,026	29,448	-
Vt.	-	-	6,000	-
Va.	-	3,393	3,393	-
Wash.	-	-	-	-
W. Va.	113	-	-	-
Wisc.	-	-	27,398	92 (d)
Wyo.	-	-	-	-
P. R.	85,299	6,134	16,397	2,933
V. I.	-	-	-	-

TABLE 15-27. PATHOLOGIC ANATOMY

	Total Specimens	Total Exams	Cytology, Exfoliative	Cytology, Chromosome	Tissue, Human, Micro.	Tissue, Animal, Micro.	Tissue, Gross
Ala.	24,434	24,434	24,434	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	*	*	*	*	*	*	*
Del.	45,838	45,838	45,838	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-
La.	*	11,377	1,609	-	4,884	-	4,884
Me.	-	-	-	-	-	-	-
Md.	22,549	22,166	22,166	-	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-
Minn.	*	82	-	82	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	1,554	8,857	*	*	*	48	*
N. M.	-	-	-	-	-	-	-
N. Y.	19,176	*	*	*	*	*	*
N. C.	125,402	125,402	125,402	-	-	-	-
N. D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-
R. I.	1,153	3,513	-	-	3,513	-	-
S. C.	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-
Wisc.	157,275	152,991	129,362	338	11,569	153	11,569
Wyo.	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-

FOOTNOTES. TABLES 15-26 - 15-27

- (a) Specimens entered under "Examinations of Blood for Syphilis", Table 15-19.
- (b) Performed for TB outpatient clinics only.
- (c) Represents Antibodies, "L-E".
- (d) Differential counts.
- (e) Capillary and Venipuncture Prothrombin and indices.
- (f) This has been discontinued.



TABLE 15-28. SANITARY BACTERIOLOGY: TOTAL SPECIMENS AND EXAMS

	Total Specimens	Total Exams
Ala.	101,612	191,566
Alaska	15,580	16,697
Ariz.	32,089	47,740
Ark.	27,922	29,649
Cal.	*	*
Colo.	23,293	34,169
Conn.	*	*
Del.	4,602	4,964
D. C.	*	*
Fla.	151,008	192,958
Ga.	20,804	65,838
Hawaii	14,241	32,660
Ida.	26,826	48,837
Ill.	94,290	154,262
Ind.	44,372	60,935
Ia.	42,937	87,591
Kans.	60,161	85,521
Ky.	30,064	60,663
La.	*	193,960
Me.	39	273
Md.	65,028	114,334
Mass.	38	*
Mich.	69,346	104,100
Minn.	3,155	5,171
Miss.	87,609	212,677
Mo.	55,304	70,013
Mont.	11,715	18,180
Nebr.	11,135	12,233
Nev.	*	*
N. H.	-	-
N. J.	13,275	21,855
N. M.	*	53,877
N. Y.	23,361	51,222
N. C.	27,052	82,507
N. D.	18,050	37,211
Ohio	50,971	54,759
Okla.	*	*
Ore.	38,200	48,916
Pa.	48,388	*
R. I.	6,924	40,824
S. C.	39,138	40,393
S. D.	*	*
Tenn.	63,889	109,383
Tex.	268,324	706,621
Utah	18,889	25,370
Vt.	10,400	10,400
Va.	53,162	49,746
Wash.	11,333	16,124
W. Va.	20,743	31,772
Wisc.	47,238	48,863
Wyo.	6,713	7,654
P. R.	13,463	*
V. I.	3,437	5,814

TABLE 15-29. SANITARY BACTERIOLOGY: WATER

	Drinking Water		Swimming Pools		Waste Water	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	34,119	39,453	2,766	2,766	346	1,038
Alaska	14,517	14,517	522	1,124	15	15
Ariz.	29,102 (a)	36,972 (a)	(a)	(a)	200	200
Ark.	23,424 (b)	22,887 (b)	(b)	(b)	(b)	(b)
Cal.	*	*	*	*	*	*
Colo.	16,635	16,635	-	-	1,136	1,136
Conn.	*	*	*	*	*	*
Del.	4,470 (a)	4,470 (a)	(a)	(a)	-	-
D. C.	*	*	*	*	*	*
Fla.	95,723	95,723	13,740	13,740	15,449	30,898
Ca.	-	-	-	-	-	-
Hawaii	6,234	15,043	2,844	6,550	143	438
Ida.	17,928	19,109	607	2,726	1,275	1,813
Ill.	60,685	67,876	15,380	46,140	5,188	9,466
Ind.	26,969	26,718	3,797	6,614	4,184	6,164
Ia.	31,939	47,909	750	1,125	228	456
Kans.	32,377	32,377	1,979	1,979	3,351 (c)	7,928
Ky.	17,326	21,261	-	-	-	-
La.	*	38,581	*	4,399	-	-
Me.	-	-	-	-	-	-
Md.	26,502	31,831	3,004	5,685	135	293
Mass.	-	-	-	-	-	-
Mich.	46,895	57,185	*	*	9,423	17,256
Minn.	1,756	1,756	(d)	(d)	1,351	3,321
Miss.	22,689	30,970	-	-	1	1
Mo.	49,033	49,033	289	289	-	-
Mont.	10,780	17,077	42	210	-	-
Nebr.	10,215	11,313	-	-	920	920
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	3,809	5,714	54	81	5,752	8,628
N. M.	*	24,705 (b)	*	(b)	*	(b)
N. Y.	18,506	37,012	515	1,545	73	146
N. C.	24,638	79,807	-	-	2,408 (e)	2,694
N. D.	4,060	4,060	304	304	83	415
Ohio	49,444	49,807	443	443	-	-
Okla.	*	*	*	*	*	*
Ore.	33,663	38,720	368	588	3,567	7,946
Pa.	31,273	*	7,905	*	9,210	*
R. I.	-	-	-	-	-	-
S. C.	30,903	30,903	510	510	938	938
S. D.	*	*	*	*	*	*
Tenn.	21,824	21,824	2,060	2,060	-	-
Tex.	164,932	323,075	325	1,787	408	20,200
Utah	13,520	15,329	2,967	6,082	2,027	3,243
Vt.	9,400	9,400	460	460	-	-
Va.	42,629	23,326	-	-	-	-
Wash.	8,879	11,796	338	748	1,186	2,054
W. Va.	13,133	13,133	1,486	1,541	1,064	3,182
Wisc.	42,449	42,449	4,485	6,074	-	-
Wyo.	6,342	6,745	102	109	262	786
P. R.	5,140	*	167	*	124	*
V. I.	1,886	1,886	-	-	467	913

TABLE 15-30. SANITARY BACTERIOLOGY: DAIRY PRODUCTS

	<u>Milk and Cream</u>		<u>Frozen Desserts</u>		<u>Other Dairy Products</u>	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	34,746	81,745	28,074	59,880	175	666
Alaska	182	333	182	333	-	-
Ariz.	2,639	10,218	119	321	-	-
Ark.	3,518	5,198	240	480	698	958
Cal.	*	*	*	*	*	*
Colo.	3,631 (f)	13,607 (f)	(f)	(f)	(f)	(f)
Conn.	*	*	*	*	*	*
Del.	5	5	-	-	4	4
D. C.	*	*	*	*	*	*
Fla.	17,208	34,416	2,970	5,940	2,022	4,044
Ga.	19,176	64,461	9	27	493	(g)
Hawaii	2,059	4,903	1,230	2,360	-	-
Ida.	5,489	22,029	-	-	266	266
Ill.	8,916	18,288	814	1,628	-	-
Ind.	4,888	13,464	1,439	3,363	1,440	2,896
Ia.	8,850	35,400	54	216	398	1,592
Kans.	18,042	36,028	1,355	2,696	2,695	3,690
Ky.	2,454	9,840	-	-	10,044	25,506
La.	*	85,371 (f)	*	(f)	*	(f)
Me.	-	-	-	-	-	-
Md.	15,483	34,759	3,170	6,580	661	1,787
Mass.	-	-	-	-	-	-
Mich.	9,621	25,912	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	64,501	180,655	(f)	(f)	(f)	(f)
Mo.	4,564	15,762	32	96	23	69
Mont.	-	-	861	861	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	2,352	4,704	6	12	20	40
N. M.	*	21,354	*	6,439 (h)	*	(h)
N. Y.	4,126	12,378	-	-	-	-
N. C.	-	-	-	-	-	-
N. D.	8,461	25,383	1,907	3,814	-	-
Ohio	541	2,012	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	4,065	4,065	118	434	-	-
S. D.	*	*	*	*	*	*
Tenn.	33,234	78,728	-	-	-	-
Tex.	102,169	35,537	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	6,500	19,171	3,323	6,049	660	1,062
Wash.	129	370	33	66	-	-
W. Va.	4,994	13,788	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
P. R.	1,654	*	319	*	413	*
V. I.	420	1,679	-	-	-	-

TABLE 15-31. SANITARY BACTERIOLOGY: FOODS

	Food Poisoning		Food Quality		Beverages	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	126	474	-	-	-	-
Alaska	61	124	61	124	-	-
Ariz.	-	-	-	-	-	-
Ark.	40	120	-	-	1	3
Cal.	*	*	*	*	*	*
Colo.	130	260	385	1,155	-	-
Conn.	*	*	*	*	*	*
Del.	50 (i)	400 (i)	-	-	12	24
D. C.	*	*	*	*	*	*
Fla.	404	1,616	929	3,716	(j)	(j)
Ga.	88	136	234	242	-	-
Hawaii	225	603	262	276	22	22
Ida.	70	70	181	693	-	-
Ill.	141	564	-	-	-	-
Ind.	52	116	1,267	1,104	281	398
Ia.	25	200	-	-	-	-
Kans.	25	184	-	-	-	-
Ky.	-	-	240	4,056	-	-
La.	*	97	*	1,499 (k)	*	(k)
Me.	273	39	-	-	-	-
Md.	257	807	602	2,129	4	8
Mass.	38 (1)	*	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	48	94	-	-	-	-
Miss.	45	90	-	-	-	-
Mo.	3	21	79	241	1,086	4,307
Mont.	32	32	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	61	177	619	1,295	-	-
N. M.	*	240 (m)	*	(m)	-	-
N. Y.	-	-	-	-	-	-
N. C.	-	-	-	-	-	-
N. D.	-	-	-	-	-	-
Ohio	110	516	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R. I.	46	166	6,471	39,437	-	-
S. C.	-	-	824	824	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	16	1,600	-	-
Utah	37	162	338 (n)	554	-	-
Vt.	10	10	10	10	10	10
Va.	50	138	-	-	-	-
Wash.	692	918	-	-	-	-
W. Va.	-	-	-	-	-	-
Wisc.	140	176	-	-	-	-
Wyo.	-	-	7	14	-	-
P. R.	2	*	124	*	175	*
V. I.	-	-	-	-	-	-

TABLE 15-32. SANITARY BACTERIOLOGY: SEA FOODS AND MISCELLANEOUS

	Sea Food		Food Utensil Count		Miscellaneous	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	1,260	5,544	-	-	-	-
Alaska	34	121	6	6	-	-
Ariz.	-	-	29	29	-	-
Ark.	1	3	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	203	203	1,173	1,173 (o)
Conn.	*	*	*	*	*	*
Del.	61 (p)	61	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	151	453	2,412	2,412	-	-
Ga.	84	252	-	-	720	720 (q)
Hawaii	21	63	1,201	2,402	-	-
Ida.	-	-	1,010	2,131	-	-
Ill.	-	-	-	-	3,166	10,300 (r)
Ind.	55	98	-	-	-	-
Ia.	-	-	693	693	-	-
Kans.	-	-	337	639	-	-
Ky.	-	-	-	-	-	-
La.	*	(s)	*	588	*	63,425 (t)
Me.	-	-	-	-	-	-
Md.	1,900	5,630	1,333	1,835	11,977	22,990 (u)
Mass.	-	-	-	-	-	-
Mich.	-	-	3,407	3,747	-	-
Minn.	-	-	-	-	-	-
Miss.	373	961	-	-	-	-
Mo.	-	-	195	195	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	602	1,204	-	-	-	-
N. M.	-	-	*	1,139	-	-
N. Y.	-	-	141	141	-	-
N. C.	6	6	-	-	-	-
N. D.	-	-	3,235	3,235	-	-
Ohio	-	-	-	-	433	1,981 (v)
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	602	1,662 (w)
Pa.	-	-	-	-	-	-
R. I.	407	1,221	-	-	-	-
S. C.	270	270	321	321	1,189	2,128 (x)
S. D.	*	*	*	*	*	*
Tenn.	-	-	6,771	6,771	-	-
Tex.	-	-	474	1,422	-	-
Utah	-	-	-	-	-	-
Vt.	10	10	500	500	-	-
Va.	-	-	-	-	-	-
Wash.	76	172	-	-	-	-
W. Va.	-	-	66	128	-	-
Wisc.	-	-	-	-	164	164 (y)
Wyo.	-	-	-	-	-	-
P. R.	-	-	5,345	*	-	-
V. I.	2	12	662	1,324	-	-

FOOTNOTES. TABLES 15-28 - 15-32

- (a) Drinking water and swimming pools included in the same figure.
- (b) All sources included in one figure.
- (c) Includes the following: raw water (surface water treatment plant influent), filter water (in process of treatment water), stream survey water samples.
- (d) Swimming pools and waste water tallied together.
- (e) Represents sea water.
- (f) "Frozen Desserts," and "Other Dairy Products" included with "Milk and Cream."
- (g) Included with "Milk and Cream."
- (h) "Frozen Desserts" and "Other Dairy Products" included in one figure.
- (i) Represents Food Contamination.
- (j) Included in drinking water.
- (k) "Food Quality," "Beverages," and "Sea Food" included in one figure.
- (l) A total of 38 examples of food were examined from 16 different episodes of "food poisonings." There were two positive findings: 1) S. blockley from a shrimp dip and 2) S. montevideo from chicken.
- (m) Food Poisoning and Food Quality included in one figure.
- (n) Surveillance for Salmonella in egg products.
- (o) Raw Water.
- (p) Clams and oysters.
- (q) Carpet Surface Count (Rodac).
- (r) Stream Quality.
- (s) Included with "Food Quality."
- (t) Wisconsin mastitis test, 28,645; antibiotic test, penicillin, etc., 34,780.
- (u) Ice and other Sanitary Cultures, 69 specimens, 235 exams; Shellfish and Stream Waters, 11,908 specimens, 22,755 exams.
- (v) Project Salmonellosis in Eggs and Egg Products.
- (w) Shellfish water.
- (x) Oyster water.
- (y) Hospital Environment Microbiology.

TABLE 15-33. CLINICAL CHEMISTRY: TOTAL SPECIMENS AND EXAMS

	Total Specimens (a)	Total Exams (a)
Ala.	3,110	7,650
Alaska	-	-
Ariz.	368	787
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	*	*
Del.	-	-
D. C.	*	*
Fla.	44,366	44,366
Ga.	3,609	3,493
Hawaii	-	-
Ida.	1,053	7,543
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	149	149
Ky.	6,235	22,728
La.	-	-
Me.	-	-
Md.	16,421	31,030
Mass.	-	-
Mich.	*	167,451
Minn.	-	-
Miss.	99,476	99,476
Mo.	2,057	2,057
Mont.	-	-
Nebr.	-	-
Nev.	*	*
N. H.	9,343	11,661
N. J.	*	4,573
N. M.	-	-
N. Y.	*	47,992
N. C.	112,428	79,808
N. D.	-	-
Ohio	39,272	40,597
Okla.	*	*
Ore.	39	296
Pa.	-	-
R. I.	35,326	41,677
S. C.	-	-
S. D.	*	*
Tenn.	4,842	4,842
Tex.	*	4,878
Utah	6,604	6,604
Vt.	11,600	12,500
Va.	14,345	14,345
Wash.	-	-
W. Va.	23,234	23,165
Wisc.	111,592	111,592
Wyo.	-	-
P. R.	*	57,589
V. I.	3,003	3,335

TABLE 15-34. CLINICAL CHEMISTRY: BLOOD

	Glucose	Cholesterol	Urea Nitrogen	Uric Acid	Trans-aminase	Other
Ala.	3,110	948	932	933	774	953
Alaska	-	-	-	-	-	-
Ariz.	434	-	353	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	36,762	3,295	7	2,226	-	2,076
Ga.	3,493	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	1,053	1,051	1,050	1,052	1,052	2,285
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	149	-	-	-	-	-
Ky.	14,883	1,361	1,505	1,478	-	3,501
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	15,166	826	6,788	1,125	861	6,264
Mass.	-	-	-	-	-	-
Mich.	75,951	30,500	-	30,500	-	30,500 (b)
Minn.	-	-	-	-	-	-
Miss.	98,542	-	934	-	-	-
Mo.	1,920	-	-	-	-	137 (c)
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	6,427	179	3,862	61	-	1,132
N. J.	3,508	388	107	133	-	437 (d)
N. M.	-	-	-	-	-	-
N. Y.	21,503	2,595	21,503	347	44	2,000
N. C.	29,162	4,371	4,376	4,376	4,376	33,147
N. D.	-	-	-	-	-	-
Ohio	39,272	234	-	-	-	1,091 (e)
Okla.	*	*	*	*	*	*
Ore.	38	38	38	38	-	144 (f)
Pa.	-	-	-	-	-	-
R. I.	20,334	6,407	14,482	29	-	425 (g)
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	4,842	-	-	-	-	-
Tex.	4,878	-	-	-	-	-
Utah	6,604	-	-	-	-	-
Vt.	11,600	600	-	300	-	-
Va.	14,345	-	-	-	-	-
Wash.	-	-	-	-	-	-
W. Va.	4,190	2,278	2,359	2,297	1,665	10,376 (h)
Wisc.	79,578	11,991	7,089	6,759	-	6,175
Wyo.	-	-	-	-	-	-
P. R.	37,511	2,297	5,963	462	3,565	7,791
V. I.	3,335	-	-	-	-	-



TABLE 15-35. CLINICAL CHEMISTRY: URINE AND OTHER

	Urine		Other	
	Specimens	Exams	Specimens	Exams
Ala.	4,060	196	10,409	10,409
Alaska	-	-	-	-
Ariz.	7,586	30,081	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	*	*	*	*
Del.	925	4,725	-	-
D. C.	*	*	*	*
Fla.	216	216	283	283
Ga.	-	-	-	-
Hawaii	89	232	184	368
Ida.	-	-	*	2,057
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	431	431	-	-
Ky.	617	1,654	3,439	4,078
La.	-	-	-	-
Me.	-	-	-	-
Md.	11,730	41,273	175	46,538 (i)
Mass.	-	-	-	-
Mich.	6,318	29,973	-	-
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	*	*	*	*
N. H.	5,083	5,140	103	103
N. J.	*	138	-	-
N. M.	-	-	-	-
N. Y.	-	-	*	3,120 (j)
N. C.	-	-	-	-
N. D.	-	-	-	-
Ohio	2	2	-	-
Okla.	*	*	*	*
Ore.	-	1	-	-
Pa.	-	-	-	-
R. I.	12,760	12,760	9,168	9,168 (k)
S. C.	-	-	-	-
S. D.	*	*	*	*
Tenn.	-	-	-	-
Tex.	-	-	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	22	28
W. Va.	-	-	276	276 (1)
Wisc.	380	380	5,367	5,367
Wyo.	-	-	-	-
P. R.	83,749	308,710	-	-
V. I.	-	-	-	-

TABLE 15-36. CLINICAL CHEMISTRY: PHENYLKETONURIA

	Total Specimens	Total Exams	Screening Test		Confirmatory Test	
			Exams	Positives	Exams	Positives
Ala.	76,969	154,845 (m)	76,969	1	29	3
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	10,157	10,157	10,157	23	-	-
Cal.	*	*	*	*	*	*
Colo.	*	5,990	5,990	60	-	-
Conn.	*	*	*	*	*	*
Del.	18,486	18,486	18,486	2	-	-
D. C.	*	*	*	*	*	*
Fla.	59,014	64,908	64,836	5,894	72	*
Ga.	55,188	55,696	54,784	759	912	3
Hawaii	-	-	-	-	-	-
Ida.	10,031	10,099	10,031	*	68	*
Ill.	68,368	68,422	68,368	231	54	*
Ind.	-	-	-	-	-	-
Ia.	3,639	3,209	2,852	4	357	345
Kans.	18,139	18,139	18,064	62 (n)	(o)	75
Ky.	39,153	40,162	39,153	52	1,009	*
La.	*	60,814	60,718	1,951	96	*
Me.	28,580	28,700	28,610	30	90	-
Md.	56,421	55,926	55,926	346 (p)	-	-
Mass.	*	137,693	187,683 (q)	*	10	*
Mich.	103,597	103,597	103,597	4	*	4
Minn.	*	72,149	71,861	20	288	1
Miss.	-	-	-	-	-	-
Mo.	42,812	42,812	42,812	9	-	-
Mont.	9,974	9,849	9,849	1	-	-
Nebr.	428	428	428	2	-	-
Nev.	*	*	*	*	*	*
N. H.	17,155	17,156	17,155	1	1	1
N. J.	88,002	177,747	177,484	14	263	9
N. M.	*	14,022	14,022	*	-	-
N. Y.	*	179,348 (r)	83,150	*	189	*
N. C.	*	86,915	86,915	*	*	*
N. D.	13,117	13,117	13,117	51 (s)	-	-
Ohio	165,203	165,997	165,203	*	794	12 (t)
Okla.	*	*	*	*	*	*
Ore.	59,003	306,300	301,121	*	5,179	4
Pa.	108,210	108,683	108,262	69	421	17
R. I.	28,701	59,407	59,001	*	406	-
S. C.	27,221	27,222	27,222	235	-	-
S. D.	*	*	*	*	*	*
Tenn.	25,586	25,586	25,586	56	-	-
Tex.	*	122,513	121,939	*	574	*
Utah	-	-	-	-	-	-
Vt.	(u)	-	-	-	-	-
Va.	80,742	80,742	80,742	400	-	-
Wash.	*	9,613 (v)	9,493	3	10	-
W. Va.	19,158	19,147	19,147	41	-	-
Wisc.	36	36	3	-	33	14
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	941	941	941	-	-	-

FOOTNOTES. TABLES 15-33 - 15-36

- (a) PKU not included in these figures.
- (b) Creatinine.
- (c) Lead.
- (d) Creatinine, 117; Phosphorus, 40; Total Protein, 79; Magnesium, 24; Sodium, 21; Potassium, 21; Chloride, 40; Calcium, 65; Carbonate, 7; Carbon Dioxide, 7; Hemoglobin, 16.
- (e) Hemoglobin.
- (f) Bilirubin, Sodium, Potassium, Other.
- (g) Creatinine (done when BUN is over 30 mg.%).
- (h) Includes albumin, alkaline phosphatase, bilirubin, calcium, total protein, sodium, potassium, glucose tolerance, amino acid, magnesium.
- (i) Represents 46,363 Maple Sugar Urine Disease exams, using the same specimen used as for PKU, and 175 other clinical chemistry exams.
- (j) New York State Nutrition Survey.
- (k) Unopettes Glucose.
- (l) AMA Survey - Blood Sugar.
- (m) Includes 77,847 screening tests for MSUD, Tyrosine and Methionine.
- (n) 4 mg.% and above (2 confirmed new PKU cases).
- (o) Includes diagnostic and treatment control specimens.
- (p) Greater than 4 mg./100 ml. (presently screened at greater than 6 mg./100 ml.).
- (q) This figure includes both the routine newborn blood specimens as well as the routine follow-up specimens.
- (r) Includes the following exams other than PKU: Special Investigation, 1,896; Galactosemia Screening, 67,955; MSUD Screening, 26,158.
- (s) Includes repeat on same patient.
- (t) Confirmed cases.
- (u) Performed State-wide at the Medical Center Hospital, Burlington.
- (v) Includes 110 Diet Following Tests.

TABLE 15-37. SANITARY CHEMISTRY: WATER

	Total Specimens	Total Exams	Drinking Water	Swimming Water	Waste Water, Sewage	Continuous Monitoring
Ala.	4,125	33,079	30,313	2,766	-	-
Alaska	891	891	891	-	-	-
Ariz.	2,117	15,874	15,569	-	305	-
Ark.	- (a)	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	3,903	28,977	12,140	-	16,837	X
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	2,848	11,392 (b)	11,392 (b)	(b)	(b)	X (b)
Ga.	-	-	-	-	-	-
Hawaii	2,414	6,495	5,873	345	277	-
Ida.	*	9,801	8,149 (c)	-	1,652	-
Ill.	*	80,804	21,138	26,490	33,176	X
Ind.	8,919	23,971	9,824	-	14,147	X
Ia.	7,215	29,772	28,860	-	912	-
Kans.	9,959	63,731	18,919	3,958	40,854 (d)	-
Ky.	1,048	13,075	13,072	-	3	-
La.	*	8,316	7,002	-	586	X
Me.	-	-	-	-	-	-
Md.	33,526	39,656	35,155	876	3,625	-
Mass.	-	-	-	-	-	-
Mich.	13,558	52,604	34,521	*	18,083	-
Minn.	*	34,909	9,360	25,549 (e)	(e)	-
Miss.	-	-	-	-	-	-
Mo.	2,178	13,701	13,701	-	-	-
Mont.	*	250	250	-	-	-
Nebr.	1,577	14,026	9,962	-	4,064	X
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	*	8,891	1,387	2,073	5,431	-
N. M.	*	11,722	11,506 (f)	(f)	(f)	-
N. Y.	8,164	215,670	58,500	-	157,170	-
N. C.	*	14,037	14,010	15	12	-
N. D.	1,117	935	785	-	150	-
Ohio	3,026	45,470	43,064	230	2,176 (g)	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	959	*	*	*	*	*
R. I.	-	-	-	-	-	-
S. C.	*	5,079	5,079	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	*	143,580	58,644	-	84,936	-
Utah	4,716	51,096	34,177	2,967	13,952	-
Vt.	530	530	530	-	-	-
Va.	1,262	17,604	17,604	-	-	-
Wash.	919	7,037	7,035	-	2	-
W. Va.	-	-	-	-	-	-
Wisc.	9,789	41,719	10,385	300	31,034	-
Wyo.	-	-	-	-	-	-
P. R.	*	3,045	3,045	-	-	-
V. I.	1,925	825	71	754	-	-

TABLE 15-38. SANITARY CHEMISTRY: MILK AND CREAM, MISCELLANEOUS

	Milk and Cream		Miscellaneous	
	Total Specimens	Total Exams	Specimens	Exams
Ala.	*	32,559	-	-
Alaska	80	80	-	-
Ariz.	23	37	-	-
Ark.	3,518	12,123	938 (h)	1,402
Cal.	*	*	*	*
Colo.	1,242	1,242	-	-
Conn.	*	*	*	*
Del.	-	-	-	-
D. C.	*	*	*	*
Fla.	17,208	40,869	-	-
Ga.	(i)	30,024	-	-
Hawaii	2,643	7,315	-	-
Ida.	*	58	-	-
Ill.	*	8,414	-	-
Ind.	4,536	8,835	-	-
Ia.	8,850	17,700	-	-
Kans.	9,167 (j)	10,763	-	-
Ky.	-	-	-	-
La.	*	18,357 (k)	-	-
Me.	-	-	-	-
Md.	17,514	38,856	3,733	15,815 (l)
Mass.	-	-	-	-
Mich.	3,998	3,998	-	-
Minn.	-	-	-	-
Miss.	(i)	(i)	-	-
Mo.	2,172	2,851	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	*	*	*	*
N. H.	-	-	-	-
N. J.	*	1,639	-	-
N. M.	*	3,732	-	-
N. Y.	72	72	-	-
N. C.	-	-	-	-
N. D.	-	-	-	-
Ohio	-	-	*	4 (m)
Okla.	*	*	*	*
Ore.	-	-	-	-
Pa.	-	-	-	-
R. I.	-	-	-	-
S. C.	-	-	-	-
S. D.	*	*	*	*
Tenn.	-	-	-	-
Tex.	26,853	52,874	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	*	129	-	-
W. Va.	-	-	-	-
Wisc.	-	-	-	-
Wyo.	-	-	-	-
P. R.	3,074	4,041	-	-
V. I.	390	875	-	-

FOOTNOTES. TABLES 15-37 - 15-38

- (a) Handled by Division of Radiological Health.
- (b) Includes all types water. Such exams are also performed by Bureau of Sanitary Engineering Labs, which handles the continuous monitoring.
- (c) Separate records not kept until March, 1968.
- (d) Includes Water Quality Network.
- (e) Swimming Water and Waste Water combined.
- (f) Figure represents all sources of water.
- (g) Includes water, miscellaneous, 425.
- (h) Other dairy products and frozen desserts.
- (i) Specimens included in Sanitary Bacteriology Milk and Cream, Table 15-30.
- (j) These specimens also used for Bacteriology.
- (k) Includes frozen desserts.
- (l) Other Foods, Additives.
- (m) Food.

TABLE 15-39. AIR POLLUTION

	Total Samples	Total Exams	Discrete Sampling	Continuous Sampling	No. of Stations
Ala.	-	-	-	-	-
Alaska	-	-	-	-	-
Ariz.	647	650	-	-	-
Ark.	- (a)	-	-	-	-
Cal.	*	*	*	*	*
Colo.	-	-	-	-	-
Conn.	*	*	*	*	*
Del.	-	-	-	-	-
D. C.	*	*	*	*	*
Fla.	753	6,777 (b)	X	-	-
Ga.	-	-	-	-	-
Hawaii	-	-	-	-	-
Ida.	*	186	-	-	-
Ill.	-	-	-	-	-
Ind.	- (c)	-	-	-	-
Ia.	57	114	X	-	33
Kans.	*	232	-	-	-
Ky.	1,233	19,373	-	-	-
La.	(d)	-	-	-	-
Me.	-	-	-	-	-
Md.	5,780	13,523	X	X	49
Mass.	-	-	-	-	-
Mich.	-	-	-	-	-
Minn.	*	940	X	-	-
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	*	3,248	-	-	-
Nebr.	-	-	-	-	-
Nev.	*	*	*	*	*
N. H.	-	-	-	-	-
N. J.	-	-	-	X	7 (e)
N. M.	*	1,200	-	X	10
N. Y.	6,158	12,316	X	X	11
N. C.	-	-	-	-	-
N. D.	*	78	X	X	3
Ohio	376	644	-	-	-
Okla.	*	*	*	*	*
Ore.	-	-	-	-	-
Pa.	-	-	-	-	-
R. I.	-	-	-	-	-
S. C.	-	-	-	-	-
S. D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	-	786	-	-	-
Utah	71	71	X (f)	-	-
Vt.	(g)	-	-	-	-
Va.	-	-	-	-	-
Wash.	*	10,275	X	X	4
W. Va.	-	-	-	-	-
Wisc.	150	150	-	X	6
Wyo.	-	-	-	-	-
P. R.	-	-	-	-	-
V. I.	-	-	-	-	-

TABLE 15-40. OCCUPATIONAL HEALTH AND SAFETY

	Total Specimens	Chemical Analysis	Investigations, Field
Ala.	-	-	-
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	62	248	-
Conn.	*	*	*
Del.	-	-	-
D. C.	*	*	*
Fla.	725	725	70
Ga.	-	-	-
Hawaii	-	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	- (c)	-	-
Ia.	-	-	-
Kans.	254	116	142
Ky.	23	101	-
La.	-	-	-
Me.	-	-	-
Md.	2,595	3,772 (h)	-
Mass.	-	-	-
Mich.	-	-	-
Minn.	*	89	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	*	*	*
N. H.	-	-	-
N. J.	2,511	2,748	3,648
N. M.	-	-	-
N. Y.	-	-	-
N. C.	*	806	-
N. D.	-	-	1
Ohio	225 (i)	418	-
Okla.	*	*	*
Ore.	-	-	-
Pa.	-	-	-
R. I.	-	-	-
S. C.	-	-	-
S. D.	*	*	*
Tenn.	-	-	-
Tex.	-	-	-
Utah	307	412	-
Vt.	(g)	-	-
Va.	-	-	-
Wash.	-	-	-
W. Va.	-	-	-
Wisc.	1,051	1,051	300
Wyo.	-	-	-
P. R.	-	-	-
V. I.	-	-	-



TABLE 15-41. RADIOACTIVITY

	Total Specimens	Total Exams	Air		Milk	
			Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	(a)	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	867	907	-	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	1,974	6,364	1,058	1,058	110	550
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	*	2,630	*	2,271	*	85
Ill.	2,854	5,708	145	290	-	-
Ind.	(c)	-	-	-	-	-
Ia.	2,038	4,191	651	529	172	532
Kans.	908	1,341	346	380	65	123
Ky.	144	509	144	303	-	-
La.	*	1,401	-	-	*	415
Me.	-	-	-	-	-	-
Md.	1,602	2,227	1,167	1,167	53	296
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	*	2,862	*	288	*	521
Miss.	-	-	-	-	-	-
Mo.	792	792	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	4,190	15,533	364	364	808	256
N. M.	-	-	-	-	-	-
N. Y.	1,945	4,098	539	539	377	754
N. C.	1,345	6,950	476	2,318	142	748
N. D.	495	1,951	260	530	154	503
Ohio	1,198	1,883	249	238	237	613
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R. I.	-	-	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	*	315	*	92	*	86
Utah	(j)	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	*	859	*	300	*	94
W. Va.	-	-	-	-	-	-
Wisc.	1,547	1,547	385	385	732	732
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 15-41. RADIOACTIVITY  
(Continued)

	Water and Rainfall		Other	
	Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	867	907	-	-
Conn.	*	*	*	*
Del.	-	-	-	-
D. C.	*	*	*	*
Fla.	413	826	393	3,930
Ga.	-	-	-	-
Hawaii	-	-	-	-
Ida.	*	157	*	117
Ill.	2,193	4,386	516	1,032
Ind.	-	-	-	-
Ia.	1,173	3,058	42	72
Kans.	391	732	106	106
Ky.	-	-	*	206
La.	*	376	*	610
Me.	-	-	-	-
Md.	361	718	21	46 (k)
Mass.	-	-	-	-
Mich.	-	-	-	-
Minn.	*	1,475	*	578
Miss.	-	-	-	-
Mo.	792	792	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	*	*	*	*
N. H.	-	-	-	-
N. J.	566	1,136	2,452	13,777
N. M.	-	-	-	-
N. Y.	747	2,241	282	564
N. C.	550	3,405	177	479
N. D.	70	90	11	828
Ohio	673	987	39	45 (1)
Okla.	*	*	*	*
Ore.	-	-	-	-
Pa.	-	-	-	-
R. I.	-	-	-	-
S. C.	-	-	-	-
S. D.	*	*	*	*
Tenn.	-	-	-	-
Tex.	*	12	*	125
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	*	402	*	63
W. Va.	-	-	-	-
Wisc.	365	365	65	65
Wyo.	-	-	-	-
P. R.	-	-	-	-
V. I.	-	-	-	-

FOOTNOTES. TABLES 15-39 - 15-41

- (a) Handled by Division of Radiological Health.
- (b) These exams are also performed by the Bureau of Sanitary Engineering laboratories and local air pollution control agencies.
- (c) Handled by Laboratory in Bureau of Engineering, Indiana State Board of Health.
- (d) Handled by Louisiana State Department of Health Bureau of Environmental Control.
- (e) Three comprehensive laboratories each recording analog data on 9 contaminants plus wind & weather data. Four "alert" sites each measuring 3 contaminants each.
- (f) Beryllium only.
- (g) Done by Industrial Hygiene Division, Vermont State Health Department, Barre.
- (h) Includes 1,476 body fluids and 966 paints for lead.
- (i) Includes 18 Experimental Laboratory test samples.
- (j) Handled by separate laboratory.
- (k) Includes Shellfish.
- (l) Water Hydrocarbons, 24; Collaborative Study, 21.

TABLE 15-42. PESTICIDES

	Total Specimens	Total Exams	Milk		Water	
			Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	2,500	2,517	*	2,509	*	8
Ark.	- (a)	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	1,214	1,214	1,055	1,055	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D. C.	*	*	*	*	*	*
Fla.	20	200 (b)	-	-	17	170
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	96	96 (c)	91	91	5	5
Ill.	106	106	-	-	106	106
Ind.	880	1,278	708	960 (d)	4	4
Ia.	235	378 (e)	1	2	59	109
Kans.	18	23	-	-	4	4
Ky.	269	473	173	288	20	42
La.	*	1,175	*	302 (f)	*	(f)
Me.	-	-	-	-	-	-
Md.	926	2,262 (g)	2	*	323	*
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	*	254	-	-	*	254
Miss.	-	-	-	-	-	-
Mo.	5	5	-	-	5	5
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	*	*	*	*
N. H.	-	-	-	-	-	-
N. J.	2,708	3,291	-	-	19	19
N. M.	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-
N. C.	-	-	-	-	-	-
N. D.	*	10	-	-	-	-
Ohio	161	212	138	179	10	15
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R. I.	122	122	-	-	-	-
S. C.	-	-	-	-	-	-
S. D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	*	158	*	120	*	9
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
P. R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-

TABLE 15-42. PESTICIDES  
(Continued)

	Food		Miscellaneous	
	Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	159	159	-	-
Conn.	*	*	*	*
Del.	-	-	-	-
D. C.	*	*	*	*
Fla.	3	30	-	-
Ga.	-	-	-	-
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	168	314 (d)	-	-
Ia.	1	2	(e)	(e)
Kans.	14	19	-	-
Ky.	76	143	-	-
La.	*	76	*	797
Me.	-	-	-	-
Md.	601	*	-	-
Mass.	-	-	-	-
Mich.	-	-	-	-
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	*	*	*	*
N. H.	-	-	-	-
N. J.	140	140	2,549 (h)	3,132
N. M.	-	-	-	-
N. Y.	-	-	-	-
N. C.	-	-	-	-
N. D.	*	10	-	-
Ohio	5	5	8	13 (i)
Okla.	*	*	*	*
Ore.	-	-	-	-
Pa.	-	-	-	-
R. I.	122	122	-	-
S. C.	-	-	-	-
S. D.	*	*	*	*
Tenn.	-	-	-	-
Tex.	*	29	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W. Va.	-	-	-	-
Wisc.	-	-	-	-
Wyo.	-	-	-	-
P. R.	-	-	-	-
V. I.	-	-	-	-

TABLE 15-43. FORENSIC TOXICOLOGY

	Drugs		Food, Water, Milk		Tissues or Body Fluids		
	Specimens	Exams	Specimens	Exams	Total Specimens	Total Exams	Barbiturates
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	*	47	6
Conn.	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	2,203	19,827	114	114	5,125	150,893	197
Ga.	-	-	-	-	-	-	-
Hawaii	85	111	2	2	21	21	1
Ida.	-	-	-	-	-	-	-
Ill.	-	-	-	-	*	1,720	267
Ind.	- (j)	-	-	-	-	-	-
Ia.	-	-	-	-	467 (k)	728	-
Kans.	363	889	11	48	2,475	2,300	83
Ky.	1,009	1,009	825	825	-	9	-
La.	-	-	*	46	*	9	-
Me.	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	*	767	-	-	*	2,198	96
Minn.	-	-	-	-	*	2,111	295
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	*	721	-
Nebr.	31	172	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	- (1)	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-
N. C.	-	-	-	-	*	71	-
N. D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	*	376	1
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-
R. I.	4,491	32,554	-	-	*	32,554	2,926
S. C.	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	(m)	-	(m)	-	(m)	-
Vt.	90	90	10	10	1,480	1,480	90
Va.	-	-	-	-	-	-	-
Wash.	-	-	19	19	-	-	-
W. Va.	-	-	-	-	-	-	-
Wisc.	-	-	-	-	739	739	16
Wyo.	-	-	-	-	-	-	-
P. R.	-	-	-	-	*	1,022	-
V. I.	-	-	-	-	-	-	-

TABLE 15-43. FORENSIC TOXICOLOGY  
(Continued)

	Tissues or Body Fluids						
	Bromide	Alcohol	Psychotropic Agents	Drug levels, misc.	Transaminase	Lead	Arsenic
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	10	2	-	-	2	2
Conn.	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*
Fla.	-	1,170	-	36	-	-	17
Ga.	-	-	-	-	-	-	-
Hawaii	-	9	-	2	-	9	-
Ida.	-	-	-	-	-	-	-
Ill.	13	419	24	437	8	100	80
Ind.	-	-	-	-	-	-	-
Ia.	-	2	3	-	-	-	-
Kans.	6	1,758	42	52	-	99	49
Ky.	-	-	-	-	-	-	9
La.	-	1	-	-	-	7	-
Me.	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	-	1,821	2	121	-	2	6
Minn.	-	310	-	42	-	680	179
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	708	-	-	-	9	-
Nebr.	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-
N. C.	-	-	-	-	-	62	6
N. D.	-	-	-	-	-	-	-
Ohio	-	170	-	-	-	174	17
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-
R. I.	14	2,940	49	22,624	-	-	112
S. C.	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	750	-	10	-	10	10
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-
Wisc.	13	302	-	36	-	98	16
Wyo.	-	-	-	-	-	-	-
P. R.	-	1,022	-	-	-	-	-
V. I.	-	-	-	-	-	-	-

TABLE 15-43. FORENSIC TOXICOLOGY  
(Continued)

	Tissues or Body Fluids							
	Mercury	Other Metals	Carbon Monoxide	Poisons	Narcotics	Methemoglobin	Pesticides	Other
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*
Colo.	2	2	5	11	4	1	-	-
Conn.	*	*	*	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-
D. C.	*	*	*	*	*	*	*	*
Fla.	-	2	42	-	-	2	148,946	481
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	10	22	161	95	17	13	7	47
Ind.	-	-	-	-	-	-	-	-
Ia.	2	-	-	-	2	-	-	2 (n)
Kans.	6	13	45	61	31	-	44	11
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	1	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	103	34	2	-	2	-
Minn.	156	60	295	3	-	-	91	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	4	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	*	*	*	*	*	*	*	*
N. H.	-	-	-	-	-	-	-	-
N. J.	-	-	-	-	-	-	-	-
N. M.	-	-	-	-	-	-	-	-
N. Y.	-	-	-	-	-	-	-	-
N. C.	3	-	-	-	-	-	-	-
N. D.	-	-	-	-	-	-	-	-
Ohio	6	1	-	-	-	-	3 (o)	4
Okla.	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-
R. I.	112	256	374	156	2,970	-	-	21
S. C.	-	-	-	-	-	-	-	-
S. D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	10	-	600	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	9	145	16	6	3	2	-	77
Wyo.	-	-	-	-	-	-	-	-
P. R.	-	-	-	-	-	-	-	-
V. I.	-	-	-	-	-	-	-	-



FOOTNOTES. TABLES 15-42 - 15-44

- (a) Handled by Division of Radiological Health.
- (b) Also performed by various other State agencies.
- (c) Routine program only. Does not include Special Pesticide Project.
- (d) Positives: Milk, 252, trace or more; Food, 221, trace or more, 7 violative.
- (e) Includes the following additional pesticide specimens not shown in further breakdown: Sanitary Chemistry (Water, Milk), 84 specimens, 159 exams; Industrial Chemistry, 7 specimens, 15 exams; Clinical (Dialysis Unit), 83 specimens, 91 exams.
- (f) Includes Milk and Water.
- (g) Total exams not broken down by type sample.
- (h) Blood (Cholinesterase), 516 specimens, 1,032 exams; Serum (human), 959 specimens, 959 exams; Urine (human) 973 specimens, 1,040 exams; Tissue (human), 82 specimens, 82 exams; Air, 12 specimens, 12 exams; Miscellaneous, 7 specimens, 7 exams.
- (i) Air - 5; Blood, 8.
- (j) Handled by Laboratories at Indiana University School of Medicine.
- (k) Represents the following additional toxicology not shown in Table: Industrial Hygiene, 37 specimens, 114 exams; Conservation Commission (Fish and Wildlife kills), 50 specimens, 60 exams; Miscellaneous Sources, 364 specimens, 527 exams; Air Pollution, 16 specimens, 16 exams.
- (l) All toxicologies are performed by the State Police Laboratory, Department of Law and Public Safety.
- (m) Started July 1, 1968.
- (n) Fluorescence.
- (o) Herbicides.
- (p) Forensic Serology.
- (q) Drug Chemistry, 1,310 specimens, 7,705 exams; Bedding and Upholstery, 897 specimens, 1,434 exams.
- (r) Pollen counts.

TABLE 15-44. MISCELLANEOUS EXAMS

	Specimens	Exams
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	*	*
Del.	-	-
D. C.	*	*
Fla.	-	-
Ga.	-	-
Hawaii	-	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	153	312 (p)
Ky.	-	-
La.	-	-
Me.	-	-
Md.	2,207 (q)	9,139 (q)
Mass.	-	-
Mich.	-	-
Minn.	-	-
Miss.	-	-
Mo.	-	-
Mont.	-	-
Nebr.	-	-
Nev.	*	*
N. H.	-	-
N. J.	*	430 (r)
N. M.	-	-
N. Y.	-	-
N. C.	-	-
N. D.	-	-
Ohio	-	-
Okla.	*	*
Ore.	-	-
Pa.	-	-
R. I.	-	-
S. C.	-	-
S. D.	*	*
Tenn.	-	-
Tex.	-	-
Utah	-	-
Vt.	-	-
Va.	-	-
Wash.	-	-
W. Va.	-	-
Wisc.	-	-
Wyo.	-	-
P. R.	-	-
V. I.	-	-

TABLE 15-45. SPECIAL QUESTIONS ON WORKLOAD

<u>Laboratory offers routine diagnostic services on:</u>				
	Beta hemolytic Streptococci by FA method:		Enteropathogenic <u>E. Coli</u> by FA method?	
	Yes	No	Yes	No
Ala.	X	-	X	-
Alaska	X	-	X	-
Ariz.	X	-	-	X
Ark.	X	-	X	-
Cal.	-	X	X	-
Colo.	X	-	-	X
Conn.	*	*	*	*
Del.	X	-	-	X
D. C.	*	*	*	*
Fla.	-	X	-	X
Ga.	X	-	X	-
Hawaii	X	-	-	X
Ida.	X	-	X	-
Ill.	-	X	-	X (a)
Ind.	-	X	-	X
Ia.	X	-	X	-
Kans.	X	-	X	-
Ky.	X	-	-	X
La.	X	-	X	-
Me.	X	-	X	-
Md.	-	X	-	X
Mass.	X	-	-	X
Mich.	-	X	-	X
Minn.	-	X	-	X
Miss.	X	-	X	-
Mo.	X	-	-	X
Mont.	-	X	-	X
Nebr.	X	-	-	X
Nev.	*	*	*	*
N. H.	X	-	X	-
N. J.	-	X (b)	X	-
N. M.	X	-	-	X
N. Y.	X	-	X	-
N. C.	X	-	X	-
N. D.	X	-	X	-
Ohio	X	-	-	X
Okla.	*	*	*	*
Ore.	X	-	X	-
Pa.	-	X	-	X
R. I.	X	-	X	-
S. C.	X	-	X	-
S. D.	*	*	*	*
Tenn.	X	-	-	X
Tex.	X	-	-	X
Utah	X	-	-	X
Vt.	-	X (c)	-	X (d)
Va.	X	-	-	X
Wash.	X	-	X	-
W. Va.	X	-	-	X
Wisc.	X	-	-	X
Wyo.	X	-	-	X
P. R.	X	-	-	X
V. I.	X	-	X	-

TABLE 15-45. SPECIAL QUESTIONS ON WORKLOAD  
(Continued)

	Lab uses Truant Fluorescent Staining Method to screen for acid-fast organisms?		Following Methods used for Toxoplasmosis				HI Used for:			
	Yes	No	IHA		CF		Rubella		Vaccinia	
			Yes	No	Yes	No	Yes	No	Yes	No
Ala.	-	X	X	-	X	-	X	-	-	X
Alaska	-	X	-	X	-	X	-	(e)	-	X
Ariz.	-	X	-	X (f)	-	X	X	-	-	X
Ark.	X	-	-	X	-	X	-	X	-	X
Cal.	-	X	-	X	-	X	*	*	*	*
Colo.	X	-	-	X	-	X	X	-	-	X
Conn.	*	*	*	*	*	*	*	*	*	*
Del.	-	X	-	X	-	X	-	X	-	X
D. C.	*	*	*	*	*	*	*	*	*	*
Fla.	-	X	X (g)	-	-	X	X	-	-	X
Ga.	-	X	-	X (f)	-	X	X	-	-	X
Hawaii	-	X	-	X	-	X	X	-	-	X
Ida.	X	-	X	-	-	X	X	-	X	-
Ill.	-	X (h)	-	X	-	X	X	-	-	X
Ind.	-	X	-	X	-	X	X	-	-	X
Ia.	X (i)	-	-	X (f)	-	X	X	-	-	X
Kans.	X	-	-	X	-	X	X	-	-	X
Ky.	-	X	-	X	-	X	X	-	-	X
La.	-	X	-	X (f)	-	X	X	-	-	X
Me.	-	X	-	X	-	X	X	-	-	X
Md.	X	-	X	-	X	-	X	-	X	-
Mass.	-	X	-	X	-	X	X	-	X	-
Mich.	-	X	-	X	-	X	X	-	-	X
Minn.	-	X	-	X	X	-	X	-	X	-
Miss.	X (j)	-	-	X	-	X	X	-	-	X
Mo.	-	X (k)	-	X	-	X	X	-	-	X
Mont.	X	-	-	X	-	X	X	-	-	X
Nebr.	-	X	-	X	-	X	-	X	-	X
Nev.	*	*	*	*	*	*	*	*	*	*
N. H.	-	X	-	X	-	X	-	X	-	X
N. J.	X	-	-	X (f)	-	X	X	-	X	-
N. M.	X	-	-	X	-	X	X	-	-	X
N. Y.	X	-	X	-	X	-	X	-	-	X
N. C.	-	X	X	-	X	-	X	-	-	X
N. D.	X	-	-	X	-	X	X	-	-	X
Ohio	-	X	X	-	-	X	X	-	-	X
Okla.	*	*	*	*	*	*	*	*	*	*
Ore.	X	-	-	X	-	X	X	-	-	X
Pa.	-	X	-	X	-	X	X	-	-	X
R. I.	X	-	-	X	-	X	-	X	-	X
S. C.	X	-	-	X	-	X	X	-	-	X
S. D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-	X	X	-	-	X	X	-	-	X
Tex.	X	-	-	X	X (l)	-	X	-	-	X
Utah	X	-	-	X	-	X	X	-	X	-
Vt.	X	-	X	-	-	X	X(m)	-	-	X
Va.	-	X	-	X	-	X	X	-	X	-
Wash.	-	X	-	X (n)	-	X	-	X	-	X
W. Va.	-	X	-	X (o)	-	X	-	X (o)	-	X
Wisc.	-	X	-	X	X	-	X	-	-	X
Wyo.	-	X	-	X	-	X	X	-	-	X
P. R.	-	X	-	X	-	X	X	-	-	X
V. I.	-	X (l)	-	X	-	X	-	X	-	X

FOOTNOTES. TABLES 15-45 - 15-46

- (a) Used for rapid screening in outbreaks, additional to routine culture.
- (b) Only routinely applied in epidemiologic investigations.
- (c) Due to lack of time and personnel.
- (d) Sporadic requests. Agglutination is less time consuming.
- (e) HI for Rubella will be added to services as soon as a Microbiologist is hired.
- (f) IFA test used.
- (g) Temporarily for comparison with dye test.
- (h) Laboratory has used in the past.
- (i) Used in special cases.
- (j) Beginning August 1, 1969.
- (k) TB not performed by this laboratory.
- (l) Used at times.
- (m) Currently performed at Infectious Unit, College of Medicine.
- (n) FA
- (o) Not during this report period.