

Hausler

**CONSOLIDATED ANNUAL REPORT**  
**on**  
**State and Territorial**  
**Public Health Laboratories**  
**Fiscal Year 1972**



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

CONSOLIDATED ANNUAL REPORT  
on State and Territorial  
Public Health Laboratories  
Fiscal Year 1972  
For Administrative Use Only

May 1973

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

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PUBLIC HEALTH LABORATORY DIRECTORS

1973 - 1974

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## INTRODUCTION

## INTRODUCTION

This is the ninth in a series of unique annual reports which describe State and territorial public health laboratories (STPHL) in quantitative terms, using input data supplied by members of the Association of State and Territorial Public Health Laboratory Directors (ASTPHLD). Unique, we say, in that only between these covers is an attempt made to display at one time and in one place the work offerings and accomplishments of the ASTPHLD.

Also, this is the third compilation of certain data collected on a quadrennial basis. The first quadrennial report was for fiscal year 1964, the second for fiscal year 1968.

Forty-seven States, Washington, D.C., Guam, Puerto Rico, and the Virgin Islands responded to the request for data. Forty-four States, Washington, D.C., Guam, Puerto Rico, and the Virgin Islands reported data for the fiscal year ending June 30, 1972; while, Florida, New York, and Texas responded with data for the 1971 calendar year. This document contains no information on the State public health laboratories in California, New Mexico, and Pennsylvania.

Those STPHL which responded to this voluntary collection and sharing of data so all ASTPHLD members could see what others are doing are to be commended.

Since this is a quadrennial report, many additions and some format changes are contained herein. There are two major omissions. No financial data is included, at the direction of the ASTPHLD. Training data now appears in a separate training booklet; thus, no training data is included in this Consolidated Annual Report (CAR). All sections of this CAR are listed below with appropriate comments about their variation from the 1971 Consolidated Annual Report.

SECTION NUMBER AND TITLE	VARIATION FROM 1971 CAR
I. Summary Tables	<p>Addition of two new tables:</p> <ul style="list-style-type: none"><li>(a) Table 1-6, Ranking of States by Number of Specimens Received</li><li>(b) Table 1-7, Summary of Programs and Activities</li></ul> <p>Note: Some States have work such as field activities which is not reflected in the other summary tables where emphasis is on numbers such as total specimens and examinations. It is hoped a broader picture of a State's work can be gained from such a summary table as 1-7.</p>

SECTION NUMBER AND TITLE	VARIATION FROM 1971 CAR
II. Personnel	Expanded to include quadrennial information on: (a) Personnel policies (b) Employee benefits (c) Education (d) Experience levels of laboratory employees
III. Facilities	This is a quadrennial section.
IV. Production of Biologics and Reagents	No format change.
V. Intrastate Laboratory Improvement, and Proficiency Testing Programs Under Medicare	No format change.
VI. Laboratory Data Processing and Automation	No format change.
VII. Laboratory Field Activities	No format change.
VIII. Organization and Services of the Laboratory	Includes quadrennial information on: (a) Services provided by the Laboratory to other organizations (b) Charges for Laboratory Services
IX. Laboratory Safety, Equipment Maintenance, and Animal Usage	Information on safety is new with this report.
X. Branch Laboratory Information	This is intended to be quadrennial data. However, if it seems to be of value to the majority of ASTPHLD members, it could be collected annually.
XI. Miscellaneous Information	New table added: Use of Workload Weighting Systems.



SECTION NUMBER AND TITLE	VARIATION FROM 1971 CAR
XII. Diagnostic Workload	Few, and slight, modifications in format.
XIII. Special Questions on Diagnostic Workload	Four questions repeated plus four additional questions covering new items such as alcohol programs and sickle cell detection programs.

It should be emphasized that the CAR reflects work done by the STPHL. If some type of activity is not reported herein for a given laboratory, it may mean that some other State or territorial agency performs that work.

Footnotes are placed either at the end of a section or after every few tables, as seems appropriate. The following table explains the use of symbols found in the report.

SYMBOL	MEANING
*	Information was not available for that entry.
-	A report with no activity for that particular item.
X	Represents a "Yes" answer.

Definitions of "examinations" and "specimens" were provided in the questionnaire. These definitions are helpful as a guide in collecting and reporting data for the Quadrennial Report, but it may be difficult to apply them in some instances. Possible differences in definitions and in formats used by laboratories for recording and reporting data are problems which should be kept in mind when making comparisons between laboratories.

SECTION I

SUMMARY TABLES

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

	Laboratory Program Service					
	Analytical Services			Research and Development		
	Personnel %	Expenditures %	Space %	Personnel %	Expenditures %	Space %
Ala.	75.0	85.0	80.0	15.0	10.0	10.0
Alaska	100.0	100.0	92.0	-	-	3.0
Ariz.	63.0	43.0	40.0	2.0	1.0	-
Ark.	90.0	90.0	80.0	-	-	-
Cal.	*	*	*	*	*	*
Colo.	95.5	95.0	75.0	1.5	3.5	5.0
Conn.	88.4	80.0	80.0	5.0	5.0	5.0
Del.	86.4	100.0	90.0	-	-	-
D.C.	95.0	95.0	95.0	-	-	-
Fla.	88.0	80.0	83.0	7.0	15.0	7.0
Ga.	96.0	95.0	96.0	-	1.0	-
Hawaii	99.0	100.0	100.0	1.0	-	-
Ida.	97.5	99.2	98.0	2.0	-	1.5
Ill.	58.5	76.2	55.0	-	0.8	0.2
Ind.	96.0	94.0	96.0	2.0	2.0	2.0
Ia.	55.0	60.0	45.0	7.0	2.0	10.0 (a)
Kans.	59.0	90.0	50.0	-	5.0	-
Ky.	92.0	*	89.0	-	*	10.0
La.	46.2	*	*	-	-	-
Me.	95.6	97.8	98.0	-	-	-
Md.	75.3	97.8	82.3	-	-	-
Mass.	52.0	48.1	32.8	1.5	5.2	-
Mich.	56.0	52.6	17.8	16.0	17.1	9.4
Minn.	94.8	93.8	96.0	1.3	1.6	2.0
Miss.	98.0	84.0	*	1.0	5.0	*
Mo.	90.0	*	80.0	-	-	-
Mont.	99.0	99.0	99.0	0.5	0.5	0.5
Nebr.	89.0	*	*	6.0	*	*
Nev.	99.7	90.0	75.0	-	-	10.0
N.H.	100.0	100.0	100.0	-	-	-
N.J.	74.0	85.0	85.0	20.0	12.0	10.0
N.M.	*	*	*	*	*	*
N.Y.	26.0	52.0	15.0	29.0	38.0	53.0
N.C.	57.0	58.5	42.9	-	-	-
N.D.	90.0	98.0	90.0	-	-	-
Ohio	71.0	58.4	44.7	-	4.0	1.5
Okla.	96.0	96.0	96.0	-	-	-
Ore.	90.3	90.0	93.0	3.0	2.0	-
Pa.	*	*	*	*	*	*
R.I.	100.0 (b)	97.0	100.0	-	-	-
S.C.	96.0	94.0	80.0	2.0	1.0	10.0
S.D.	90.0	*	100.0	5.0	*	-
Tenn.	90.2	91.0	97.9	1.4	1.0	0.1
Tex.	87.0	85.0	20.0	1.0	1.0	5.0
Utah	76.0	86.0	91.0	14.0	4.0	7.0
Vt.	98.0	100.0	98.0	-	-	-
Va.	96.5	*	99.0	0.5	*	-
Wash.	62.0	64.0	42.0	-	-	-
W.Va.	78.0	78.0	32.0	2.0	2.0	3.0
Wisc.	70.0	80.0	80.0	10.0	10.0	10.0
Wyo.	88.0	88.0	94.6	-	-	-
Guam	95.0	90.0	90.0	5.0	10.0	10.0
P.R.	47.0	75.0	*	2.0	5.0	*
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 Lab. Improvement			Other		
	Personnel %	Expenditures %	Space %	Personnel %	Expenditures %	Space %	Personnel %	Expenditures %	Space %
Ala.	-	-	-	10.0	5.0	10.0	-	-	-
Alaska	-	-	3.0	-	-	2.0	-	-	-
Ariz.	10.0	21.0	14.0	7.0	8.0	-	18.0	27.0	46.0
Ark.	-	-	-	10.0	10.0	20.0	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	-	-	-	3.0	1.5	5.0	-	-	15.0
Conn.	1.0	5.0	1.0	5.6	10.0	14.0	-	-	-
Del.	-	-	-	-	-	-	13.6	-	10.0
D.C.	-	-	-	5.0	5.0	5.0	-	-	-
Fla.	-	-	-	5.0	5.0	10.0	-	-	-
Ga.	-	1.0	-	4.0	3.0	4.0	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	-	-	-	0.5	-	0.5	-	0.8	-
Ill.	2.3	1.6	5.0	5.2	4.2	2.0	34.0	17.2	37.8
Ind.	-	-	-	2.0	4.0	2.0	-	-	-
Ia.	-	-	-	5.0 (c)	6.0	5.0	33.0 (d)	32.0 (e)	40.0(e)
Kans.	-	-	-	3.0	5.0	1.2	38.0	-	48.8(f)
Ky.	-	-	-	8.0	*	1.0	-	-	-
La.	1.8	*	*	6.0	*	*	46.0	*	*
Me.	-	-	-	2.2	2.2	2.0	2.2 (g)	-	-
Md.	-	-	-	2.2	2.2	4.9	22.5	-	12.8
Mass.	40.1	43.2	63.4	1.5	3.5	3.8	4.9	-	-
Mich.	25.0	27.0	14.1	3.0	3.3	0.5	-	-	58.2
Minn.	1.3	-	-	2.6	4.6	2.0	-	-	-
Miss.	0.4	1.0	*	0.6	5.0	*	-	5.0	*
Mo.	-	-	-	10.0	*	20.0	-	-	-
Mont.	-	-	-	0.5	0.5	0.5	-	-	-
Nebr.	-	*	*	5.0	*	*	-	*	*
Nev.	-	-	-	0.3	5.0	10.0	-	5.0	5.0
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	6.0	3.0	5.0	-	-	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	-	5.0	-	1.0	5.0	-	44.0 (h)	-	32.0(i)
N.C.	-	-	-	3.3	1.5	2.0	39.7	40.0 (j)	55.1
N.D.	-	-	-	10.0	2.0	10.0	-	-	-
Ohio	-	-	-	3.0	3.0	2.9	26.0	34.6	50.9
Okla.	-	-	-	4.0	4.0	4.0	-	-	-
Ore.	-	-	-	6.7	8.0	7.0	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	3.0	-	-	-	-
S.C.	-	-	-	2.0	5.0	5.0	-	-	5.0
S.D.	-	-	-	5.0	*	-	-	-	-
Tenn.	4.2	2.5	1.0	4.2	5.5	1.0	-	-	-
Tex.	8.0	9.0	15.0	4.0	5.0	5.0	-	-	55.0(k)
Utah	-	-	-	10.0	10.0	2.0	-	-	-
Vt.	-	-	-	2.0	-	2.0	-	-	-
Va.	1.0	*	1.0	2.0	*	-	-	-	-
Wash.	-	-	-	14.0	10.0	9.0	24.0 (l)	26.0 (m)	49.0(n)
W.Va.	-	-	-	20.0	20.0	15.0	-	-	50.0(l)
Wisc.	-	-	-	-	10.0	10.0	20.0	-	-
Wyo.	-	-	-	12.0	12.0	5.4	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	5.0	-	*	-	15.0	*	46.0	5.0	*
V.I.	-	-	-	2.0	2.0	2.0	-	-	-

TABLE 1-2. SUMMARY OF LABORATORY SPECIMENS AND EXAMINATIONS

	Total Specimens (o)	Total Exams (o)	Diagnostic Bacteriology		Mycology	
			Specimens	Exams	Specimens	Exams
Ala.	906,583	1,636,689	189,532	537,364	2,110	19,605
Alaska	117,514	158,009	61,535	88,692	253	256
Ariz.	192,577	291,073	43,546	68,259	3,400	6,698
Ark.	236,995	322,072	38,197	68,519	1,588	15,880
Cal.	*	*	*	*	*	*
Colo.	504,813	642,630	285,196	327,496	163	163
Conn.	662,809	1,147,198	304,824	459,070	1,259	2,577
Del.	117,574	155,754	8,930	20,251	-	-
D.C.	351,038	* (p)	14,222	* (q)	50	100
Fla.	1,841,402	2,346,109	406,831	675,793	3,595	4,482
Ga.	878,372	1,201,946	119,099	185,178	1,381	1,381
Hawaii	123,103	200,569	65,390	109,873	612	1,056
Ida.	117,909	207,214	33,728	44,670	370	450
Ill.	330,416	512,434	107,321	186,228	1,027	4,564
Ind.	207,922	354,237	20,912	51,220	1,570	10,596
Ia.	364,941	735,052	44,276	187,959	295	886
Kans.	285,231	400,572	71,509	116,036	582	582
Ky.	316,454	485,306	43,051	121,729	171	671
La.	749,774	1,038,640	163,419	420,776	1,714	1,714
Me.	187,223	235,210	31,049	42,909	237	550
Md.	869,295	1,276,881	211,564	255,131	3,780	3,793
Mass.	877,750	* (p)	207,129	*	314	*
Mich.	1,044,706	1,650,824	364,498	725,236	3,305	10,236
Minn.	* (p)	443,739	58,106	127,308	2,413	5,125
Miss.	672,265	841,112	103,958	131,338	1,590	1,590
Mo.	282,955	631,797	53,628	179,782	396	5,912
Mont.	87,514	107,518	8,458	20,494	165	1,919
Nebr.	126,036	159,720	8,330	10,396	17	27
Nev.	107,945	224,689	26,083	58,006	69	295
N.H.	133,487	168,559	45,813	62,939	64	126
N.J.	797,956	2,298,386	118,578	369,102	163	408
N.M.	*	*	*	*	*	*
N.Y.	* (p)	753,571	24,473	30,142	2,035	7,224
N.C.	739,003	1,250,156	69,215	109,500	712	712
N.D.	172,750	302,572	45,340	133,911	199	398
Ohio	586,528	928,228	162,814	291,500	404	2,020
Okla.	325,311	342,303	67,929	65,016	428	427
Ore.	326,486	715,564	71,921	96,865	388	928
Pa.	*	*	*	*	*	*
R.I.	183,015	369,346	49,824	90,921	120	180
S.C.	* (p)	799,786	58,844	122,464	1,582	16,217
S.D.	80,917	129,314	14,561	39,299	268	459
Tenn.	782,330	846,499	160,974	160,974	1,730	1,730
Tex.	232,097	666,180	45,242	279,473	977	9,681
Utah	160,916	310,113	38,764	61,167	163	417
Vt.	134,838	191,295	37,209	43,743	54	108
Va.	573,170	738,210	115,942	210,982	470	1,514
Wash.	110,349	253,363	25,424	96,297	427	1,933
W.Va.	180,870	381,381	42,610	83,694	190	938
Wisc.	* (p)	* (p)	91,292	* (r)	2,639	2,639
Wyo.	136,764	145,866	106,793	114,178	-	-
Guam	48,404	59,929	4,208	11,453	10	31
P.R.	291,155	441,171	43,426	71,970	125	160
V.I.	32,536	40,671	6,908	7,750	131	251

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

	Parasitology		Virology		Syphilis Serology	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	25,101	48,544	1,742	3,298	387,722	420,314
Alaska	845	673	-	-	29,485	33,220
Ariz.	835	2,056	2,939	4,953	80,007	90,017
Ark.	1,933	3,841	1,394	2,788	118,857	126,844
Cal.	*	*	*	*	*	*
Colo.	678	1,356	1,243	1,509	124,309	135,579
Conn.	13,337	18,800	8,722	19,453	102,502	122,392
Del.	97	157	166	498	34,575	38,208
D.C.	146	*	3,266	*	184,185	225,785
Fla.	82,812	82,812	6,277	11,078	828,570	870,172
Ga.	69,464	85,159	3,735	14,270	575,158	600,397
Hawaii	1,744	1,733	913	1,022	22,930	31,311
Ida.	182	358	158	158	23,801	26,589
Ill.	958	1,856	4,492	6,473	91,515	107,195
Ind.	2,186	3,666	3,742	7,113	106,250	109,301
Ia.	811	1,492	4,424	38,559	163,489	174,314
Kans.	6,310	12,587	2,603	8,408	111,601	119,979
Ky.	5,763	10,780	1,969	5,203	139,629	145,939
La.	39,876	39,876	8,310	8,310	199,656	199,656
Me.	5	5	1,199	3,671	47,249	50,126
Md.	9,032	9,032	2,733	4,305	181,168	199,702
Mass.	-	-	1,387	3,286	364,331	364,182
Mich.	3,414	5,922	3,155	6,636	332,592	387,878
Minn.	3,756	7,278	5,955	17,965	175,027	201,571
Miss.	10,137	10,137	792	1,532	295,181	305,815
Mo.	720	2,151	1,566	4,698	64,009	78,028
Mont.	176	191	209	250	32,110	35,067
Nebr.	103	185	892	890	83,885	86,516
Nev.	1,661	1,761	-	-	32,571	48,213
N.H.	416	811	216	604	45,445	46,705
N.J.	2,922	8,758	16,166	179,898	232,439	278,047
N.M.	*	*	*	*	*	*
N.Y.	3,161	3,161	6,956	24,300	118,370	128,823
N.C.	8,503	9,351	2,057	9,799	334,395	366,059
N.D.	675	1,330	701	1,402	52,541	53,505
Ohio	1,051	2,285	9,972	18,679	110,890	120,686
Okla.	2,132	1,939	3,287	3,051	137,304	148,530
Ore.	1,023	1,858	1,853	4,160	94,173	97,744
Pa.	*	*	*	*	*	*
R.I.	685	1,281	157	471	43,508	54,969
S.C.	27,846	28,493	1,308	3,454	276,842	299,982
S.D.	4	492	7,441	7,879	30,545	31,893
Tenn.	5,310	10,178	4,118	7,192	500,487	509,747
Tex.	6,626	9,690	5,041	16,396	87,461	90,405
Utah	1,922	1,949	738	3,469	70,917	77,615
Vt.	391	779	465	993	35,420	36,571
Va.	27,059	27,059	2,262	4,769	197,081	206,401
Wash.	1,440	1,493	839	6,934	35,827	49,481
W.Va.	1,048	3,106	1,510	2,988	46,206	50,809
Wisc.	4,462	4,476	5,059	5,285	181,412	196,205
Wyo.	86	86	162	162	11,558	12,280
Guam	5,736	5,736	44	44	5,362	5,899
P.R.	173	173	6,583	6,570	143,105	155,573
V.I.	6,289	6,425	-	-	10,455	13,550

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

	<u>Non-Syphilis Serology</u>		<u>Hematology or Blood Bank</u>		<u>Pathologic Anatomy</u>	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	7,543	31,271	26,019	30,378	29,907	59,814
Alaska	3,824	4,112	4,022	8,647	-	-
Ariz.	15,539	23,562	2,353	4,628	-	-
Ark.	3,525	11,776	2,606	5,614	-	-
Cal.	*	*	*	*	*	*
Colo.	5,119	30,978	-	-	-	-
Conn.	21,292	54,787	21,240	25,230	-	-
Del.	-	-	257	554	49,447	49,447
D.C.	4,383	4,383	36,990	108,414	51,396	51,396
Fla.	22,797	36,236	80,650	80,650	-	-
Ga.	13,573	25,265	-	166,079	-	-
Hawaii	12,568	12,658	-	-	-	-
Ida.	3,300	6,304	1,660	2,761	130	130
Ill.	19,526	63,569	20	60	-	-
Ind.	5,924	21,362	-	-	-	-
Ia.	60,406	83,128	-	-	-	-
Kans.	2,976	17,119	-	-	-	-
Ky.	7,038	18,602	11,119	20,260	-	-
La.	34,844	37,201	1,979	1,979	14,011	14,011
Me.	23,810	27,392	9,339	10,133	-	-
Md.	63,741	85,807	74,940	141,228	57,210	57,210
Mass.	13,260	* (s)	-	-	-	-
Mich.	27,942	53,007	19,248	49,103	-	-
Minn.	* (t)	83,617	-	-	251	502
Miss.	5,132	11,035	40,250	61,020	-	-
Mo.	19,956	167,146	-	-	-	-
Mont.	17,647	17,647	-	-	-	-
Nebr.	5,364	7,078	-	-	-	-
Nev.	2,188	2,329	1,554	6,925	-	-
N.H.	113	236	6,231	17,979	-	-
N.J.	246,763	1,092,644	27,563	27,563	-	-
N.M.	*	*	*	*	*	*
N.Y.	*	15,676	*	16,588	*	18,588
N.C.	34,080	47,453	357	367	96,758	96,758
N.D.	13,293	17,775	16,437	16,437	-	-
Ohio	11,948	39,567	1,212	2,423	-	-
Okla.	3,600	8,516	3,503	5,889	-	-
Ore.	37,291	48,311	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	14,518	29,000	-	-	-	-
S.C.	30,830	40,920	*	55,156	-	-
S.D.	7,667	10,864	-	-	-	-
Tenn.	15,817	27,200	1,843	37,427	-	-
Tex.	22,527	49,914	-	-	-	-
Utah	14,906	18,488	-	2,400	-	-
Vt.	14,685	32,986	-	-	-	-
Va.	30,163	30,163	5,499	10,998	-	-
Wash.	8,690	11,789	1,396	1,396	-	-
W.Va.	1,143	4,675	158	475	22,522	38,869
Wisc.	25,362	45,761	*	29,093	149,874	160,191
Wyo.	9,560	9,994	-	-	-	-
Guam	12	12	20,885	21,902	6,504	6,504
P.R.	1,730	1,654	28,355	82,723	-	-
V.I.	1,725	1,766	-	-	-	-

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

	PKU & Other Inborn Errors		Clinical Chemistry		Sanitary & Environmental Micro.	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	93,144	103,227	2,755	2,755	109,454	307,001
Alaska	1,087	1,078	-	-	10,789	11,390
Ariz.	-	-	3,090	8,176	35,701	44,015
Ark.	18,291	18,228	1,833	5,330	43,974	53,743
Cal.	*	*	*	*	*	*
Colo.	6,327	6,327	-	-	21,638	39,192
Conn.	76,469	118,895	23,385	30,699	28,319	68,179
Del.	17,149	17,149	1,163	5,567	5,790	23,923
D.C.	2,730	3,150	25,252	50,374	2,819	7,656
Fla.	78,219	78,609	109,424	109,424	182,016	230,512
Ga.	72,995	73,347	7,234	7,295	15,733	29,099
Hawaii	-	-	4,662	4,680	9,415	22,576
Ida.	12,684	12,684	16	23	29,031	47,589
Ill.	-	-	-	-	49,748	79,688
Ind.	-	-	-	-	48,381	71,285
Ia.	4,057	5,229	-	-	46,096	157,255
Kans.	16,587	16,649	370	370	50,849	53,333
Ky.	38,509	38,509	14,014	14,965	36,694	73,539
La.	59,923	59,923	5	5	215,643	215,643
Me.	28,972	28,911	-	-	26,255	32,816
Md.	59,689	174,486	81,099	86,195	72,659	125,561
Mass.	291,306	938,951	-	-	23	*
Mich.	109,543	109,543	33,075	78,647	88,576	120,108
Minn.	72	145	-	-	57	228
Miss.	-	-	145,304	143,964	69,286	174,046
Mo.	50,419	50,419	11,669	11,669	74,246	110,819
Mont.	9,899	9,764	1,437	1,437	12,763	15,347
Nebr.	1,103	1,103	-	-	21,509	21,597
Nev.	15,232	15,232	440	2,843	19,724	34,274
N.H.	18,167	19,167	17,022	19,992	-	-
N.J.	90,382	176,275	29,783	29,783	19,523	36,043
N.M.	*	*	*	*	*	*
N.Y.	*	245,764	*	33,226	17,491	37,258
N.C.	88,677	88,912	56,749	316,177	39,144	183,630
N.D.	13,102	13,102	-	-	24,523	52,621
Ohio	166,133	182,738	45,554	92,187	64,049	65,852
Okla.	34,680	34,602	3,159	3,157	53,999	53,907
Ore.	80,075	413,879	-	-	39,762	51,819
Pa.	*	*	*	*	*	*
R.I.	14,337	38,877	41,908	43,308	4,617	12,596
S.C.	39,472	39,472	* (u)	49,145	70,154	95,076
S.D.	-	-	-	-	16,212	29,260
Tenn.	63,003	63,003	12,888	12,888	16,160	16,160
Tex.	344	549	17,246	17,205	26,636	35,043
Utah	-	-	-	7,800	19,876	24,672
Vt.	-	-	20,373	26,543	20,084	21,304
Va.	91,558	91,558	18,355	18,355	71,941	71,941
Wash.	14,908	14,908	-	-	16,294	26,775
W.Va.	22,389	22,183	15,578	136,498	27,516	37,146
Wisc.	-	-	125,453	125,453	65,005	146,320
Wyo.	-	-	-	-	8,345	8,906
Guam	3,365	3,365	1,254	1,462	1,024	3,521
P.R.	-	-	39,768	39,768	15,520	27,358
V.I.	1,081	1,081	2,993	3,052	2,700	6,067



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

	<u>Sanitary &amp; Envir. Chemistry</u>		<u>All Other Examinations</u>	
	<u>Specimens</u>	<u>Exams</u>	<u>Specimens</u>	<u>Exams</u>
Ala.	31,554	73,118	-	-
Alaska	5,674	9,941	-	-
Ariz.	2,058	30,561	3,109	8,148
Ark.	4,797	9,509	-	-
Cal.	*	*	*	*
Colo.	4,056	40,471	56,084	59,559
Conn.	35,148	159,803	26,312	67,313
Del.	-	-	-	-
D.C.	3,623	15,310	21,976	35,140
Fla.	22,011	45,435	18,200	120,906
Ga.	-	14,476	-	-
Hawaii	4,681	15,281	188	379
Ida.	3,170	40,041	9,679	25,457
Ill.	52,060	55,468	3,749	7,333
Ind.	18,011	77,602	946	2,092
Ia.	25,448	63,165	15,639	23,065
Kans.	14,515	45,435	7,329	10,074
Ky.	3,271	12,470	15,226	22,639
La.	9,669	37,860	725	1,686
Me.	14,528	33,983	4,580	4,714
Md.	33,574	108,696	18,106	25,735
Mass.	-	-	-	-
Mich.	50,908	54,077	8,450	50,431
Minn.	-	-	-	-
Miss.	635	635	-	-
Mo.	6,045	19,525	301	1,648
Mont.	2,509	3,261	2,141	2,141
Nebr.	3,900	29,411	933	2,517
Nev.	6,953	52,633	1,470	2,178
N.H.	-	-	-	-
N.J.	8,814	78,609	4,860	21,256
N.M.	*	*	*	*
N.Y.	7,064	170,395	10,293	22,426
N.C.	6,961	11,843	1,395	9,595
N.D.	1,334	7,525	4,605	4,566
Ohio	7,166	101,757	5,335	8,534
Okla.	15,290	17,269	-	-
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	5,055	35,385	8,286	62,358
S.C.	8,551	20,109	9,783	29,298
S.D.	4,219	9,168	-	-
Tenn.	-	-	-	-
Tex.	19,109	156,009	888	1,815
Utah	3,813	80,642	9,817	31,494
Vt.	3,718	25,814	2,439	2,454
Va.	12,840	64,470	-	-
Wash.	2,935	31,905	2,169	10,452
W.Va.	-	-	-	-
Wisc.	32,600	47,001	9,973	13,510
Wyo.	-	-	260	260
Guam	-	-	-	-
P.R.	9,212	52,064	3,158	3,158
V.I.	51	337	203	392

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

	Diag. Bact. %	Mycology, Parasitology, Virology %	All Serology %	Hematology, Pathologic Anatomy, PKU, Clin. Chem. %	Sanitary & Environmental Microbiology %	Sanitary & Environmental Chemistry %	All Other Exams %
Ala.	32.8	4.4	27.6	12.0	18.7	4.5	-
Alaska	56.1	0.6	23.6	6.2	7.2	6.3	-
Ariz.	23.5	4.7	39.0	4.4	15.1	10.5	2.8
Ark.	21.3	7.0	43.0	9.0	16.7	3.0	-
Cal.	*	*	*	*	*	*	*
Colo.	51.0	0.5	25.9	1.0	6.1	6.3	9.2
Conn.	40.0	3.6	15.5	15.2	5.9	13.9	5.9
Del.	13.0	0.4	24.5	46.7	15.4	-	-
D.C.	*	*	*	*	*	*	*
Fla.	28.8	4.2	38.6	11.5	9.8	1.9	5.2
Ga.	15.4	8.4	52.1	20.5	2.4	1.2	-
Hawaii	54.8	1.9	21.9	2.3	11.3	7.6	0.2
Ida.	21.5	0.5	15.9	7.5	23.0	19.3	12.3
Ill.	36.3	2.5	33.3	0.1	15.6	10.8	1.4
Ind.	14.5	6.0	36.9	-	20.1	21.9	0.6
Ia.	25.6	5.6	35.0	0.7	21.4	8.6	3.1
Kans.	29.0	5.4	34.2	4.2	13.3	11.4	2.5
Ky.	25.1	3.4	33.9	15.2	15.1	2.6	4.7
La.	40.5	4.8	22.8	7.3	20.8	3.6	0.2
Me.	18.2	1.8	33.0	16.6	14.0	14.4	2.0
Md.	20.0	1.3	22.4	36.0	9.8	8.5	2.0
Mass.	*	*	*	*	*	*	*
Mich.	43.9	1.4	26.7	14.4	7.3	3.3	3.0
Minn.	28.7	6.8	64.3	0.1	0.1	-	-
Miss.	15.5	1.6	37.7	24.4	20.7	0.1	-
Mo.	28.5	2.0	38.8	9.8	17.5	3.1	0.3
Mont.	19.1	2.2	49.0	10.4	14.3	3.0	2.0
Nebr.	6.5	0.7	58.6	0.7	13.5	18.4	1.6
Nev.	25.8	0.9	22.5	11.1	15.3	23.4	1.0
N.H.	37.3	0.9	27.9	33.9	-	-	-
N.J.	16.1	8.2	59.6	10.2	1.6	3.4	0.9
N.M.	*	*	*	*	*	*	*
N.Y.	4.0	4.6	19.2	41.7	4.9	22.6	3.0
N.C.	8.7	1.6	33.1	40.2	14.7	0.9	0.8
N.D.	44.2	1.0	23.6	9.8	17.4	2.5	1.5
Ohio	31.4	2.5	17.2	29.9	7.1	11.0	0.9
Okla.	19.0	1.6	45.9	12.8	15.7	5.0	-
Ore.	13.6	1.0	20.4	57.8	7.2	-	-
Pa.	*	*	*	*	*	*	*
R.I.	24.6	0.5	22.7	22.3	3.4	9.6	16.9
S.C.	15.3	6.0	42.6	18.0	11.9	2.5	3.7
S.D.	30.4	6.8	33.1	-	22.6	7.1	-
Tenn.	19.0	2.3	63.4	13.4	1.9	-	-
Tex.	41.9	5.4	21.0	2.7	5.3	23.4	0.3
Utah	19.7	1.9	31.0	3.3	8.0	26.0	10.1
Vt.	22.8	1.0	36.4	13.9	11.1	13.5	1.3
Va.	28.6	4.5	32.1	16.4	9.7	8.7	-
Wash.	38.0	4.1	24.2	6.4	10.6	12.6	4.1
W.Va.	21.9	1.9	14.6	51.9	9.7	-	-
Wisc.	*	*	*	*	*	*	*
Wyo.	78.2	0.2	15.3	-	6.1	-	0.2
Guam	19.1	9.7	9.9	55.4	5.9	-	-
P.R.	16.3	1.6	35.6	27.8	6.2	11.8	0.7
V.I.	19.0	16.4	37.7	10.2	14.9	0.8	1.0

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

	Estimated Population (v)	Number of Specimens	Number of Exams	Ratio of Specimens to Exams	Ratio of Exams to Population
Ala.	3,479,000	906,583	1,636,689	1:1.8	1:2.1
Alaska	313,000	117,514	158,009	1:1.3	1:2.0
Ariz.	1,849,000	192,577	291,073	1:1.5	1:6.4
Ark.	1,944,000	236,995	322,072	1:1.4	1:6.0
Cal.	20,223,000	*	*	*	*
Colo.	2,283,000	504,813	642,630	1:1.3	1:3.6
Conn.	3,081,000	662,809	1,147,198	1:1.7	1:2.7
Del.	558,000	117,574	155,754	1:1.3	1:3.6
D.C.	741,000	351,038	*	*	*
Fla.	7,041,000	1,841,402	2,346,109	1:1.3	1:3.0
Ga.	4,664,000	878,372	1,201,946	1:1.4	1:3.9
Hawaii	789,000	123,103	200,569	1:1.6	1:3.9
Ida.	732,000	117,909	207,214	1:1.8	1:3.5
Ill.	11,196,000	330,416	512,434	1:1.6	1:21.9
Ind.	5,274,000	207,922	354,237	1:1.7	1:14.9
Ia.	2,852,000	364,941	735,052	1:2.0	1:3.9
Kans.	2,258,000	285,231	400,572	1:1.4	1:5.6
Ky.	3,282,000	316,454	485,306	1:1.5	1:6.8
La.	3,681,000	749,774	1,038,640	1:1.4	1:3.5
Me.	1,003,000	187,223	235,210	1:1.3	1:4.3
Md.	4,000,000	869,295	1,276,881	1:1.5	1:3.1
Mass.	5,758,000	877,750	*	*	*
Mich.	8,997,000	1,044,706	1,650,824	1:1.6	1:5.5
Minn.	3,881,000	*	443,739	*	1:8.8
Miss.	2,226,000	672,265	841,112	1:1.3	1:2.7
Mo.	4,749,000	282,955	631,797	1:2.2	1:7.5
Mont.	708,000	87,514	107,518	1:1.2	1:6.6
Nebr.	1,512,000	126,036	159,720	1:1.3	1:9.5
Nev.	507,000	107,945	224,689	1:2.1	1:2.3
N.H.	762,000	133,487	168,559	1:1.3	1:4.5
N.J.	7,300,000	797,956	2,298,386	1:2.9	1:3.2
N.M.	1,030,000	*	*	*	*
N.Y.	18,391,000	*	753,571	*	1:24.4
N.C.	5,146,000	739,003	1,250,156	1:1.7	1:4.1
N.D.	625,000	172,750	302,572	1:1.8	1:2.1
Ohio	10,778,000	586,528	928,228	1:1.6	1:11.6
Okla.	2,610,000	325,311	342,303	1:1.1	1:7.6
Ore.	2,158,000	326,486	715,564	1:2.2	1:3.0
Pa.	11,879,000	*	*	*	*
R.I.	960,000	183,015	369,346	1:2.0	1:2.6
S.C.	2,627,000	*	799,786	*	1:3.3
S.D.	670,000	80,917	129,314	1:1.6	1:5.2
Tenn.	3,990,000	782,330	846,499	1:1.1	1:4.7
Tex.	11,460,000	232,097	666,180	1:2.9	1:17.2
Utah	1,099,000	160,916	310,113	1:1.9	1:3.5
Vt.	458,000	134,838	191,295	1:1.4	1:2.4
Va.	4,714,000	573,170	738,210	1:1.3	1:6.4
Wash.	3,449,000	110,349	253,363	1:2.3	1:13.6
W.Va.	1,752,000	180,870	381,381	1:2.1	1:4.6
Wisc.	4,476,000	*	*	*	*
Wyo.	340,000	136,764	145,866	1:1.1	1:2.3
Guam	85,000	48,404	59,929	1:1.2	1:1.4
P.R.	2,712,000	291,155	441,171	1:1.5	1:6.2
V.I.	62,000	32,536	40,671	1:1.3	1:1.5

TABLE 1-5. RATIOS OF PERSONNEL TO POPULATION

	Estimated Population (v)	Total Personnel (w)	Professional and Technical Personnel (w)	Ratio of Total Personnel to Population	Ratio of Prof. & Tech. Personnel to Population
Ala.	3,479,000	175	109	1:19,880	1:31,917
Alaska	313,000	28	11	1:11,179	1:28,455
Ariz.	1,849,000	48	31	1:38,521	1:59,645
Ark.	1,944,000	48	29	1:40,500	1:67,034
Cal.	20,223,000	*	*	*	*
Colo.	2,283,000	67	41	1:34,075	1:55,683
Conn.	3,081,000	196	127	1:15,719	1:24,260
Del.	558,000	22	14	1:25,364	1:39,857
D.C.	741,000	76	65	1:9,750	1:11,400
Fla.	7,041,000	198 (x)	122 (x)	1:35,561	1:57,713
Ga.	4,664,000	146	79	1:31,945	1:59,038
Hawaii	789,000	36	24	1:21,917	1:32,875
Ida.	732,000	50	37	1:14,640	1:19,784
Ill.	11,196,000	135	81	1:82,933	1:138,222
Ind.	5,274,000	70	42	1:75,343	1:125,571
Ia.	2,852,000	90	51	1:31,689	1:55,922
Kans.	2,258,000	65	41	1:34,738	1:55,073
Ky.	3,282,000	59	30	1:55,627	1:109,400
La.	3,681,000	138	63	1:26,674	1:58,429
Me.	1,003,000	44	28	1:22,795	1:35,821
Md.	4,000,000	273	175	1:14,652	1:22,857
Mass.	5,758,000	198	121	1:29,081	1:47,587
Mich.	8,997,000	386	211	1:23,308	1:42,640
Minn.	3,881,000	81	49	1:47,914	1:79,204
Miss.	2,226,000	44	26	1:50,591	1:85,615
Mo.	4,749,000	49	31	1:96,918	1:153,194
Mont.	708,000	21	11	1:33,714	1:64,364
Nebr.	1,512,000	27	16	1:56,000	1:94,500
Nev.	507,000	18	10	1:28,167	1:50,700
N.H.	762,000	21	14	1:36,286	1:54,429
N.J.	7,300,000	210	133	1:34,762	1:54,887
N.M.	1,030,000	*	*	*	*
N.Y.	18,391,000	587	348	1:31,330	1:52,848
N.C.	5,146,000	117	68	1:43,983	1:75,676
N.D.	625,000	27	15	1:23,148	1:41,667
Ohio	10,778,000	126	72	1:85,540	1:149,694
Okla.	2,610,000	57	32	1:45,789	1:81,563
Ore.	2,158,000	40	25	1:53,950	1:86,320
Pa.	11,879,000	*	*	*	*
R.I.	960,000	57	40	1:16,842	1:24,000
S.C.	2,627,000	94	62	1:27,947	1:42,371
S.D.	670,000	18	11	1:37,222	1:60,909
Tenn.	3,990,000	140	80	1:28,500	1:49,875
Tex.	11,460,000	118	85	1:97,119	1:134,824
Utah	1,099,000	53	35	1:20,736	1:31,400
Vt.	458,000	26	17	1:17,615	1:26,941
Va.	4,714,000	62	34	1:76,032	1:138,647
Wash.	3,449,000	66	31	1:52,258	1:111,258
W.Va.	1,752,000	47	27	1:37,277	1:64,889
Wisc.	4,476,000	141	85	1:31,745	1:52,659
Wyo.	340,000	8	4	1:42,500	1:85,000
Guam	85,000	14	11	1:6,071	1:7,727
P.R.	2,712,000	128	67	1:21,188	1:40,478
V.I.	62,000	9	6	1:6,889	1:10,333

TABLE 1-6. RANKING OF STATES BY NUMBER OF SPECIMENS RECEIVED (y)

Rank	State	Number of Specimens Received
1	Florida	1,841,402
2	Michigan	1,044,706
3	Alabama	906,583
4	Georgia	878,372
5	Massachusetts	877,750
6	Maryland	869,295
7	New Jersey	797,956
8	Tennessee	782,330
9	Louisiana	749,774
10	North Carolina	739,003
11	Mississippi	672,265
12	Connecticut	662,809
13	Ohio	586,528
14	Virginia	573,170
15	Colorado	504,813
16	Iowa	364,941
17	D.C.	351,038
18	Illinois	330,416
19	Oregon	326,486
20	Oklahoma	325,311
21	Kentucky	316,454
22	Puerto Rico	291,155
23	Kansas	285,231
24	Missouri	282,955
25	Arkansas	236,995
26	Texas	232,097
27	Indiana	207,922
28	Arizona	192,577
29	Maine	187,223
30	Rhode Island	183,015
31	West Virginia	180,870
32	North Dakota	172,750
33	Utah	160,916
34	Wyoming	136,764
35	Vermont	134,838
36	New Hampshire	133,487
37	Nebraska	126,036
38	Hawaii	123,103
39	Idaho	117,909
40	Delaware	117,574
41	Alaska	117,514
42	Washington	110,349
43	Nevada	107,945
44	Montana	87,514
45	South Dakota	80,917
46	Guam	48,404
47	Virgin Islands	32,536

TABLE 1-7. SUMMARY OF PROGRAMS AND ACTIVITIES

	Bacteriology	Mycology	Parasitology	Virology	Syphilis Serology	Non-Syphilis Serology	Hematology or Blood Bank
Ala.	X	X	X	X	X	X	X
Alaska	X	X	X	-	X	X	X
Ariz.	X	X	X	X	X	X	X
Ark.	X	X	X	X	X	X	X
Cal.	*	*	*	*	*	*	*
Colo.	X	X	X	X	X	X	-
Conn.	X	X	X	X	X	X	X
Del.	X	-	X	X	X	-	X
D.C.	X	X	X	X	X	X	X
Fla.	X	X	X	X	X	X	X
Ga.	X	X	X	X	X	X	X
Hawaii	X	X	X	X	X	X	-
Ida.	X	X	X	X	X	X	X
Ill.	X	X	X	X	X	X	X
Ind.	X	X	X	X	X	X	-
Ia.	X	X	X	X	X	X	-
Kans.	X	X	X	X	X	X	-
Ky.	X	X	X	X	X	X	X
La.	X	X	X	X	X	X	X
Me.	X	X	X	X	X	X	X
Md.	X	X	X	X	X	X	X
Mass.	X	X	-	X	X	X	-
Mich.	X	X	X	X	X	X	X
Minn.	X	X	X	X	X	X	-
Miss.	X	X	X	X	X	X	X
Mo.	X	X	X	X	X	X	-
Mont.	X	X	X	X	X	X	-
Nebr.	X	X	X	X	X	X	-
Nev.	X	X	X	-	X	X	X
N.H.	X	X	X	X	X	X	X
N.J.	X	X	X	X	X	X	X
N.M.	*	*	*	*	*	*	*
N.Y.	X	X	X	X	X	X	X
N.C.	X	X	X	X	X	X	X
N.D.	X	X	X	X	X	X	X
Ohio	X	X	X	X	X	X	X
Okla.	X	X	X	X	X	X	X
Ore.	X	X	X	X	X	X	-
Pa.	*	*	*	*	*	*	*
R.I.	X	X	X	X	X	X	-
S.C.	X	X	X	X	X	X	X
S.D.	X	X	X	X	X	X	-
Tenn.	X	X	X	X	X	X	X
Tex.	X	X	X	X	X	X	-
Utah	X	X	X	X	X	X	X
Vt.	X	X	X	X	X	X	-
Va.	X	X	X	X	X	X	X
Wash.	X	X	X	X	X	X	X
W.Va.	X	X	X	X	X	X	X
Wisc.	X	X	X	X	X	X	X
Wyo.	X	-	X	X	X	X	-
Guam	X	X	X	X	X	X	X
P.R.	X	X	X	X	X	X	X
V.I.	X	X	X	-	X	X	-
	51/51#	49/51	50/51	48/51	51/51	50/51	34/51

#51/51 = Indicates 51 States reported this type data out of 51 States reporting.

TABLE 1-7. SUMMARY OF PROGRAMS AND ACTIVITIES  
(Continued)

	Pathologic Anatomy	PKU	Screening Programs (Other Than PKU)	Clinical Chemistry	Sanitary and Environmental Microbiology	Sanitary and Environmental Chemistry	Air Pollution
Ala.	X	X	X	X	X	X	-
Alaska	-	X	X	-	X	X	-
Ariz.	-	-	-	X	X	X	X
Ark.	-	X	X	X	X	X	-
Cal.	*	*	*	*	*	*	*
Colo.	-	X	-	-	X	X	X
Conn.	-	X	X	X	X	X	X
Del.	X	X	-	X	X	-	-
D.C.	X	X	X	X	X	X	-
Fla.	-	X	-	X	X	X	X
Ga.	-	X	-	X	X	X	-
Hawaii	-	-	-	X	X	X	-
Ida.	X	X	-	X	X	X	X
Ill.	-	-	X	-	X	X	X
Ind.	-	-	-	-	X	X	-
Ia.	-	X	X	-	X	X	X
Kans.	-	X	-	X	X	X	X
Ky.	-	X	-	X	X	X	X
La.	X	X	X	X	X	X	-
Me.	-	X	-	-	X	X	-
Md.	X	X	X	X	X	X	X
Mass.	-	X	X	-	X	-	-
Mich.	-	X	-	X	X	X	-
Minn.	X	X	-	-	X	-	-
Miss.	-	-	X	X	X	X	-
Mo.	-	X	X	X	X	X	-
Mont.	-	X	-	X	X	X	-
Nebr.	-	X	-	-	X	X	-
Nev.	-	X	-	X	X	X	X
N.H.	-	X	X	X	-	-	-
N.J.	-	X	X	X	X	X	-
N.M.	*	*	*	*	*	*	*
N.Y.	X	X	X	X	X	X	X
N.C.	X	X	X	X	X	X	-
N.D.	-	X	-	-	X	X	X
Ohio	-	X	X	X	X	X	X
Okla.	-	X	X	X	X	X	-
Ore.	-	X	X	-	X	-	-
Pa.	*	*	*	*	*	*	*
R.I.	-	X	X	X	X	X	-
S.C.	-	X	X	X	X	X	-
S.D.	-	-	-	-	X	X	-
Tenn.	-	X	X	X	X	-	-
Tex.	-	X	X	X	X	X	-
Utah	-	-	-	X	X	X	X
Vt.	-	-	X	X	X	X	-
Va.	-	X	X	X	X	X	-
Wash.	-	X	X	-	X	X	-
W.Va.	X	X	X	X	X	-	-
Wisc.	X	-	X	X	X	X	X
Wyo.	-	-	-	-	X	-	-
Guam	X	X	-	X	X	-	-
P.R.	-	-	-	X	X	X	X
V.I.	-	X	X	X	X	X	-

12/51      40/51      29/51      37/51      50/51      42/51      17/51

TABLE 1-7. SUMMARY OF PROGRAMS AND ACTIVITIES  
(Continued)

	Occupational Health and Safety	Radioactivity	Pesticides	Toxicology	Research and Development	Production of Biologics and Reagents (z)
Ala.	-	-	-	-	X	-
Alaska	-	-	-	-	X	-
Ariz.	-	-	X	-	X	X
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	X	X	X	X	X	-
Conn.	X	X	X	X	X	X
Del.	-	-	-	-	-	-
D.C.	X	-	X	X	-	-
Fla.	-	X	X	X	X	-
Ga.	-	-	-	-	X	-
Hawaii	-	-	X	X	X	X
Ida.	-	-	-	X	X	-
Ill.	-	X	X	X	X	X
Ind.	-	-	X	-	X	X
Ia.	X	X	X	X	X	X
Kans.	X	X	X	X	X	X
Ky.	X	-	X	X	X	-
La.	X	X	X	X	-	X
Me.	-	X	X	X	-	-
Md.	X	X	X	-	-	-
Mass.	-	-	-	-	X	X
Mich.	-	-	X	X	X	X
Minn.	-	-	-	-	X	X
Miss.	-	-	-	-	X	X
Mo.	X	-	X	-	-	X
Mont.	-	-	-	X	X	X
Nebr.	-	-	X	X	X	-
Nev.	-	-	X	-	X	-
N.H.	-	-	-	-	-	-
N.J.	X	X	X	-	X	X
N.M.	*	*	*	*	*	*
N.Y.	-	X	-	-	X	X
N.C.	-	X	-	-	-	-
N.D.	-	X	-	-	-	-
Ohio	X	X	X	X	X	X
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	X	-
Pa.	*	*	*	*	*	*
R.I.	-	-	X	X	-	-
S.C.	-	X	X	X	X	-
S.D.	-	-	-	-	X	-
Tenn.	-	-	-	-	X	X
Tex.	X	X	X	X	X	X
Utah	X	X	X	X	X	-
Vt.	-	-	-	X	-	-
Va.	-	-	-	-	X	X
Wash.	-	X	X	-	-	-
W. Va.	-	-	-	-	X	-
Wisc.	X	X	X	X	X	X
Wyo.	-	-	-	X	-	-
Guam	-	-	-	-	X	-
P.R.	-	-	-	-	X	X
V.I.	-	-	-	X	X	-

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TABLE 1-7. SUMMARY OF PROGRAMS AND ACTIVITIES  
(Continued)

	Laboratory Field Activities	Intrastate Laboratory Improvement	Proficiency Testing Program Under Medicare	Safety Program	Preventive Maintenance Program
Ala.	X	X	X	X	X
Alaska	X	X	-	-	-
Ariz.	X	X	X	-	X
Ark.	-	X	X	-	-
Cal.	*	*	*	*	*
Colo.	X	X	X	X	-
Conn.	X	X	X	X	X
Del.	X	X	X	-	X
D.C.	X	X	X	X	-
Fla.	X	X	X	X	X
Ga.	-	X	X	X	X
Hawaii	X	X	X	X	-
Ida.	X	X	-	X	X
Ill.	X	X	X	X	*
Ind.	X	X	X	X	X
Ia.	X	X	X	X	X
Kans.	X	X	X	-	-
Ky.	-	X	-	-	X
La.	X	X	-	-	*
Me.	X	X	X	-	-
Md.	-	X	X	X	X
Mass.	X	X	X	-	-
Mich.	X	X	X	X	X
Minn.	-	X	X	X	X
Miss.	X	X	-	-	X
Mo.	X	X	X	-	X
Mont.	X	X	X	X	-
Nebr.	-	X	-	-	-
Nev.	-	X	X	-	-
N.H.	X	-	-	X	X
N.J.	X	X	X	*	-
N.M.	*	*	*	*	*
N.Y.	X	X	X	*	*
N.C.	X	X	-	X	X
N.D.	-	X	X	X	X
Ohio	X	X	X	X	X
Okla.	X	X	-	-	X
Ore.	X	X	X	X	X
Pa.	*	*	*	*	*
R.I.	X	X	X	X	X
S.C.	X	X	X	X	X
S.D.	X	X	X	X	X
Tenn.	-	X	-	-	-
Tex.	-	X	X	X	-
Utah	X	X	X	X	X
Vt.	X	X	-	X	X
Va.	-	X	-	-	-
Wash.	*	X	X	X	X
W.Va.	X	X	X	-	-
Wisc.	X	X	X	X	X
Wyo.	X	X	X	-	-
Guam	-	-	X	-	-
P.R.	X	X	X	X	-
V.I.	-	X	-	X	X

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TABLES 1-1 - 1-7. FOOTNOTES

- (a) Performed in same space as analytical services in most instances.
- (b) Several (8-10) spend 5-20% of their time on Intrastate Laboratory Improvement. None full time.
- (c) Includes fractions of personnel utilized in workshop presentations.
- (d) Management, clerical, and supportive.
- (e) Administrative and supportive.
- (f) Support services, 22; administrative services, 9.3; halls, utilities, restrooms, etc., 17.5.
- (g) Distribution of drugs and biologics.
- (h) Environmental Health, 21%; other, 23%.
- (i) Environmental Health, 15%; Management, 17%.
- (j) Administrative, clerical, and supportive.
- (k) Diagnostic Services.
- (l) Support Services.
- (m) Supplies, Equipment and Laboratory Support.
- (n) Laboratory Support, Library, Conference Room, Dressing Room, Main Office Space, Storage.
- (o) Where reporting of specimens and/or examinations 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: D.C., 516,633 exams; Mass., 1,325,941 exams; Minn., 281,577 specimens; N.Y., 189,843 specimens; S.C., 554,070 specimens; Wisc., 693,131 specimens, 995,882 exams.
- (q) Incomplete, 14,925 reported exams.
- (r) 219,948 reported exams.
- (s) 19,522 reported exams.
- (t) Incomplete, 35,940 reported specimens.
- (u) Incomplete, 28,858 reported specimens.
- (v) Estimated population as of July 1, 1971. Taken from Statistical Abstract of the United States: 1972. U. S. Bureau of the Census. (93rd Edition) Washington, D.C., 1972, pages 14 and 792. Figures for Guam, Puerto Rico, and the Virgin Islands are as of April 1, 1970, based on census count.
- (w) Based on filled positions.
- (x) Budgeted positions.
- (y) States not included in Table: California, Minnesota, New Mexico, New York, Pennsylvania, South Carolina, and Wisconsin.
- (z) Includes reported production of any of the following: Biologics, Antisera, Antigens, or Solutions.

**SECTION II**

**PERSONNEL**

TABLE 2-1. LABORATORY STAFFING

	Total Budgeted Positions	Management Positions (a)	Clerical Positions (b)	Professional and Technical Positions (c)	Supportive Services Positions (d)	Maintenance Positions (e)
Ala.	176	2	22	110	36	6
Alaska	28 (f)	4	6 (f)	11	7	-
Ariz.	50 (g)	2	10	32	5	1
Ark.	49	1	9	30	8	1
Cal.	*	*	*	*	*	*
Colo.	68	1	5	41	21	-
Conn.	213	6	33	138	35	1
Del.	24	1 (h)	3	16	4	-
D.C.	75	2	8	61	4	-
Fla.	198	15	25	122	34	2
Ga.	152	5	24	85	38	-
Hawaii	39 (i)	2	4	25 (i)	8	-
Ida.	46	2	6	34	1	3
Ill.	135	5	24	81	17	8
Ind.	71	7	10	42	12	-
Ia.	95	11	13	56	15	-
Kans.	67	1	12	42	11	1
Ky.	61	5	8	31	16	1
La.	148	7	36	72	33	-
Me.	44	2	7	28	7	-
Md.	276	6	39	177	46	8
Mass.	205	8	37	123	21	16
Mich.	395	16	31	220	84	44
Minn.	81	1	16	49	15	-
Miss.	44	1	8	26	9	-
Mo.	49	2	6	31	9	1
Mont.	21 (j)	-	4	11	6	-
Nebr.	29	2	5	17	5	-
Nev.	22	2	1	14	5	-
N.H.	21	1	4	14	2	-
N.J.	225	9	24	143	49	-
N.M.	*	*	*	*	*	*
N.Y.	661	11	98	399	76	77
N.C.	121	10	20	72	18	1
N.D.	27	2	5	15	4	1
Ohio	140	6	16	81	23	14
Okla.	61 (g)	2	7	35	17	-
Ore.	45	2	10	29	4	-
Pa.	*	*	*	*	*	*
R.I.	57	2	6	40	9	-
S.C.	97	10	11	63	13	-
S.D.	18	1	2	11	3	1
Tenn.	142	9	21	80	32	-
Tex.	119	3	16	86	14	-
Utah	48	3	7	31	7	-
Vt.	26	1	4	17	4	-
Va.	62	3	11	34	14	-
Wash.	66	9	14	31	11	1
W.Va.	48	3	9	28	5	3
Wisc.	152	4	25	97	26	-
Wyo.	10	1	1	6	2	-
Guam	14	1	1	11	1	-
P.R.	138	13	19	74	23	9
V.I.	9	1	1	6	1	-

TABLE 2-2. PERSONNEL DISTRIBUTION

	PERCENT OF TOTAL				
	Management Positions	Clerical Positions	Professional and Technical Positions	Supportive Services Positions	Maintenance Positions
	%	%	%	%	%
Ala.	1.1	12.5	62.5	20.5	3.4
Alaska	14.3 (k)	21.4	39.3	25.0	-
Ariz.	4.0	20.0	64.0	10.0	2.0
Ark.	2.0	18.4	61.2	16.4	2.0
Cal.	*	*	*	*	*
Colo.	1.5	7.3	60.3	30.9	-
Conn.	2.8	15.5	64.8	16.4	0.5
Del.	4.1	12.5	66.7	16.7	-
D.C.	2.7	10.7	81.3	5.3	-
Fla.	7.6	12.6	61.6	17.2	1.0
Ga.	3.3	15.8	55.9	25.0	-
Hawaii	5.1	10.3	64.1	20.5	-
Ida.	4.3	13.1	73.9	2.2	6.5
Ill.	3.7	17.8	60.0	12.6	5.9
Ind.	9.9	14.1	59.1	16.9	-
Ia.	11.6	13.7	58.9	15.8	-
Kans.	1.5	17.9	62.7	16.4	1.5
Ky.	8.2	13.1	50.8	26.2	1.7
La.	4.7	24.3	48.7	22.3	-
Me.	4.6	15.9	63.6	15.9	-
Md.	2.2	14.1	64.1	16.7	2.9
Mass.	3.9	18.0	60.0	10.3	7.8
Mich.	4.1	7.8	55.7	21.3	11.1
Minn.	1.2	19.8	60.5	18.5	-
Miss.	2.3	18.2	59.1	20.4	-
Mo.	4.1	12.2	63.3	18.4	2.0
Mont.	-	19.0	52.4	28.6	-
Nebr.	6.9	17.2	58.7	17.2	-
Nev.	9.1	4.6	63.6	22.7	-
N.H.	4.8	19.0	66.7	9.5	-
N.J.	4.0	10.7	63.5	21.8	-
N.M.	*	*	*	*	*
N.Y.	1.7	14.8	60.4	11.5	11.6
N.C.	8.3	16.5	59.5	14.9	0.8
N.D.	7.4	18.5	55.6	14.8	3.7
Ohio	4.3	11.4	57.9	16.4	10.0
Okla.	3.3	11.5	57.4	27.8	-
Ore.	4.4	22.2	64.5	8.9	-
Pa.	*	*	*	*	*
R.I.	3.5	10.5	70.2	15.8	-
S.C.	10.3	11.3	65.0	13.4	-
S.D.	5.6	11.1	61.1	16.7	5.5
Tenn.	6.3	14.8	56.4	22.5	-
Tex.	2.5	13.4	72.3	11.8	-
Utah	6.2	14.6	64.6	14.6	-
Vt.	3.8	15.4	65.4	15.4	-
Va.	4.8	17.8	54.8	22.6	-
Wash.	13.6	21.2	47.0	16.7	1.5
W.Va.	6.3	18.7	58.3	10.4	6.3
Wisc.	2.6	16.5	63.8	17.1	-
Wyo.	10.0	10.0	60.0	20.0	-
Guam	7.1	7.1	78.7	7.1	-
P.R.	9.4	13.8	53.6	16.7	6.5
V.I.	11.1	11.1	66.7	11.1	-

TABLE 2-3. NEW POSITIONS ESTABLISHED DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total No. of New Positions
Ala.	-	1	4	2	1	8
Alaska	-	1 (f)	1	1	-	3 (f)
Ariz.	-	-	-	-	-	-
Ark.	-	1	1	-	-	2
Cal.	*	*	*	*	*	*
Colo.	-	1	4	5	-	10
Conn.	-	3	14	1	-	18
Del.	-	-	-	-	-	-
D.C.	-	2	8	-	-	10
Fla.	-	-	9	-	-	9
Ga.	1	-	1	-	-	2
Hawaii	-	-	-	-	-	-
Ida.	-	1	4	-	-	5
Ill.	1	4	13	4	2	24
Ind.	-	-	-	-	-	-
Ia.	-	-	3	-	-	3
Kans.	-	-	-	-	-	-
Ky.	1	-	-	-	-	1
La.	-	-	-	-	-	-
Me.	1	-	1	1	-	3
Md.	2	1	8	1	-	12
Mass.	-	-	-	-	-	-
Mich.	-	1	14	1	-	16
Minn.	-	1	5	-	-	6
Miss.	-	1	2	-	-	3
Mo.	-	-	2	-	-	2
Mont.	-	-	1	-	-	1
Nebr.	1	1	2	1	-	5
Nev.	-	-	-	-	-	-
N.H.	-	-	1	-	-	1
N.J.	-	1	9	-	-	10
N.M.	*	*	*	*	*	*
N.Y.	-	2	14	1	-	17
N.C.	-	1	1	1	-	3
N.D.	-	-	2	-	-	2
Ohio	-	3	11	3	1	18
Okla.	-	-	2	3	-	5
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	1	4	1	-	6
S.C.	1	-	9	-	-	10
S.D.	-	-	-	-	-	-
Tenn.	-	-	2	-	-	2
Tex.	-	-	2	-	-	2
Utah	-	-	6	1	-	7
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	5	-	-	5
W.Va.	-	-	1	-	-	1
Wisc.	-	2	17	1	-	20
Wyo.	-	-	2	-	-	2
Guam	-	-	1	-	-	1
P.R.	-	-	-	-	-	-
V.I.	-	-	4	2	-	6

TABLE 2-4. POSITIONS ABOLISHED DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total No. of Positions Abolished
Ala.	-	-	5	-	-	5
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	1	-	-	-	1
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	3	5	-	-	8
Del.	-	-	-	-	-	-
D.C.	-	2	2	2	-	6
Fla.	-	-	2	-	-	2
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	1	-	-	1
Ill.	1	2	11	3	3	20
Ind.	-	-	-	1	-	1
Ia.	-	-	-	-	-	-
Kans.	-	2	-	-	-	2
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	1	1
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	1	-	1
Mo.	-	-	-	-	-	-
Mont.	-	-	1	-	-	1
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	1	-	-	1
N.M.	*	*	*	*	*	*
N.Y.	-	11	56	2	2	71
N.C.	-	-	-	1	-	1
N.D.	-	-	-	-	-	-
Ohio	-	-	1	-	-	1
Okla.	-	-	3	3	-	6
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	1	2	-	-	3
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	4	-	-	4
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	1	-	-	1
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-5. TOTAL NUMBER OF EMPLOYEES HIRED DURING YEAR

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total Hired
Ala.	-	3	10	6	3	22
Alaska	-	3 (1)	1	1	-	5
Ariz.	-	2	7	2	-	11
Ark.	-	2	7	5	-	14
Cal.	*	*	*	*	*	*
Colo.	-	1	8	8	-	17
Conn.	-	6	26	6	-	38
Del.	-	-	1	-	-	1
D.C.	-	1	7	-	-	8
Fla.	1	11	12	3	-	27
Ga.	-	6	10	10	-	26
Hawaii	-	-	2	1	-	3
Ida.	-	3	6	-	-	9
Ill.	2	4	18	3	2	29
Ind.	-	1	4	1	-	6
Ia.	2	3	7	4	-	16
Kans.	-	3	7	8	4	22
Ky.	1	1	3	3	-	8
La.	-	-	8	-	-	8
Me.	1	-	1	1	-	3
Md.	2	4	24	3	-	33
Mass.	2	12	10	17	2	43
Mich.	-	5	35	10	5	55
Minn.	-	2	7	1	-	10
Miss.	-	1	2	-	-	3
Mo.	-	1	7	1	-	9
Mont.	-	2	2	-	-	4
Nebr.	-	1	5	3	-	9
Nev.	-	-	-	1	-	1
N.H.	-	-	1	1	-	2
N.J.	2	8	27	27	-	64
N.M.	*	*	*	*	*	*
N.Y.	1	13	35	4	9	62
N.C.	-	5	16	3	1	25
N.D.	-	2	2	1	-	5
Ohio	1	8	9	7	7	32
Okla.	-	2	3	7	-	12
Ore.	-	6	18	3	-	27
Pa.	*	*	*	*	*	*
R.I.	-	1	12	2	-	15
S.C.	-	3	10	1	-	14
S.D.	-	-	2	-	-	2
Tenn.	-	6	19	2	-	27
Tex.	-	4	10	-	-	14
Utah	-	4	6	4	-	14
Vt.	-	1	4	-	-	5
Va.	1	1	2	1	-	5
Wash.	-	3	9	1	-	13
W.Va.	-	-	4	-	-	4
Wisc.	-	9	30	6	-	45
Wyo.	-	-	6	-	-	6
Guam	-	-	3	-	-	3
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-



TABLE 2-6. RESIGNATIONS AND SEPARATIONS DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total Resignations and Separations
Ala.	-	2	11	4	2	19
Alaska	-	3 (1)	-	-	-	3
Ariz.	-	3	8	2	-	13
Ark.	-	2	7	4	-	13
Cal.	*	*	*	*	*	*
Colo.	-	1	4	3	-	8
Conn.	-	4	14	5	-	23
Del.	-	-	3	-	-	3
D.C.	-	2	9	2	-	13
Fla.	1	12	18	7	-	38
Ga.	-	7	9	9	-	25
Hawai	1	1	1	-	-	3
Ida.	-	2	3	-	-	5
Ill.	2	4	9	3	1	19
Ind.	-	1	4	2	-	7
Ia.	2	3	10	5	-	20
Kans.	-	3	7	8	4	22
Ky.	-	1	4	2	-	7
La.	-	-	6	1	-	7
Me.	-	-	1	-	-	1
Md.	-	-	14	-	-	14
Mass.	1	11	9	18	8	47
Mich.	1	2	28	13	4	48
Minn.	-	1	2	-	-	3
Miss.	-	-	-	1	-	1
Mo.	-	1	4	2	-	7
Mont.	-	2	1	-	-	3
Nebr.	-	-	3	2	-	5
Nev.	-	-	1	1	-	2
N.H.	-	-	1	1	-	2
N.J.	-	2	21	19	-	42
N.M.	*	*	*	*	*	*
N.Y.	1	16	34	14	12	77
N.C.	1	1	14	3	-	19
N.D.	-	2	-	1	-	3
Ohio	1	7	9	5	5	27
Okla.	-	2	6	7	-	15
Ore.	-	5	14	3	-	22
Pa.	*	*	*	*	*	*
R.I.	-	1	8	-	-	9
S.C.	-	3	13	1	-	17
S.D.	-	-	-	-	-	-
Tenn.	-	6	14	2	-	22
Tex.	-	4	11	-	-	15
Utah	-	4	2	3	-	9
Vt.	-	1	4	-	-	5
Va.	1	1	2	1	-	5
Wash.	-	3	5	1	-	9
W.Va.	-	-	3	-	-	3
Wisc.	-	6	24	5	-	35
Wyo.	-	-	5	-	-	5
Guam	-	-	1	-	-	1
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-7. NUMBER OF POSITIONS FILLED AS OF CLOSING DATE OF PERIOD COVERED BY REPORT

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total Filled Positions	Percent Budgeted Positions Filled
Ala.	2	22	109	36	6	175	99.4
Alaska	4	6	11	7	-	28	100.0
Ariz.	2	9	31 (g)	5	1	48	96.0
Ark.	1	9	29	8	1	48	98.0
Cal.	*	*	*	*	*	*	*
Colo.	1	4	41	21	-	67	98.5
Conn.	6	31	127	31	1	196	92.0
Del.	1	3	14	4	-	22	91.7
D.C.	2	7	65	2	-	76	101.3
Fla.	*	*	*	*	*	*	*
Ga.	5	24	79	38	-	146	96.1
Hawaii	1	3	24	8	-	36	92.3
Ida.	2	7	37	1	3	50	108.7
Ill.	5	24	81	17	8	135	100.0
Ind.	7	10	42	11	-	70	98.6
Ia.	11	13	51	15	-	90	94.7
Kans.	1	12	41	10	1	65	97.0
Ky.	5	7	30	16	1	59	96.7
La.	7	36	63	32	-	138	93.2
Me.	2	7	28	7	-	44	100.0
Md.	6	38	175	46	8	273	98.9
Mass.	6	36	121	19	16	198	96.6
Mich.	16	30	211	85	44	386	97.7
Minn.	1	16	49	15	-	81	100.0
Miss.	1	8	26	9	-	44	100.0
Mo.	2	6	31	9	1	49	100.0
Mont.	-	4	11	6	-	21	100.0
Nebr.	1	5	16	5	-	27	93.1
Nev.	2	1	10	5	-	18	81.8
N.H.	1	4	14	2	-	21	100.0
N.J.	9	24	133	44	-	210	93.3
N.M.	*	*	*	*	*	*	*
N.Y.	10	83	348	69	77	587	88.8
N.C.	10	20	68	18	1	117	96.7
N.D.	2	5	15	4	1	27	100.0
Ohio	6	13	72	21	14	126	90.0
Okla.	2	7	32	16	-	57	93.4
Ore.	2	9	25	4	-	40	88.9
Pa.	*	*	*	*	*	*	*
R.I.	2	6	40	9	-	57	100.0
S.C.	10	10	62	12	-	94	96.9
S.D.	1	2	11	3	1	18	100.0
Tenn.	8	20	80	32	-	140	98.6
Tex.	3	16	85	14	-	118	99.2
Utah	3	7	35	8	-	53	110.4
Vt.	1	4	17	4	-	26	100.0
Va.	3	11	34	14	-	62	100.0
Wash.	9	14	31	11	1	66	100.0
W.Va.	3	9	27	5	3	47	97.9
Wisc.	4	26	85	26	-	141	92.8
Wyo.	1	1	4	2	-	8	80.0
Guam	1	1	11	1	-	14	100.0
P.R.	11	18	67	23	9	128	92.8
V.I.	1	1	6	1	-	9	100.0

TABLE 2-8. PERCENT TURNOVER IN ALL POSITIONS

	Total Filled Positions	Turnover		Percent Turnover
		Resignations	Separations	
Ala.	175	19	-	10.9
Alaska	28	3	-	10.7
Ariz.	48	13	-	27.1
Ark.	48	12	1	27.1
Cal.	*	*	*	*
Colo.	67	6	2	11.9
Conn.	196	22	1	11.7
Del.	22	3	-	13.6
D.C.	76	5	8	17.1
Fla.	198 (m)	32	6	19.2
Ga.	146	22	3	17.1
Hawaii	36	2	1	8.3
Ida.	50	3	2	10.0
Ill.	135	9	10	14.1
Ind.	70	6	1	10.0
Ia.	90	18	2	22.2
Kans.	65	20	2	33.8
Ky.	59	7	-	11.9
La.	138	7	-	5.1
Mo.	44	1	-	2.3
Md.	273	11	3	5.1
Mass.	198	43	4	23.7
Mich.	386	44	4	12.4
Minn.	81	3	-	3.7
Miss.	44	1	-	2.3
Mo.	49	5	2	14.3
Mont.	21	3	-	14.3
Nebr.	27	5	-	18.5
Nev.	18	2	-	11.1
N.H.	21	2	-	9.5
N.J.	210	41	1	20.0
N.M.	*	*	*	*
N.Y.	587	63	14	13.1
N.C.	117	19	-	16.2
N.D.	27	3	-	11.1
Ohio	126	25	2	21.4
Okla.	57	11	4	26.3
Ore.	40	22	-	55.0
Pa.	*	*	*	*
R.I.	57	8	1	15.8
S.C.	94	16	1	18.1
S.D.	18	-	-	-
Tenn.	140	21	1	15.7
Tex.	118	15	-	12.7
Utah	53	8	1	17.0
Vt.	26	5	-	19.2
Va.	62	5	-	8.1
Wash.	66	9	-	13.6
W.Va.	47	3	-	6.4
Wisc.	141	33	2	24.8
Wyo.	8	4	1	62.5
Guam	14	1	-	7.1
P.R.	128	-	-	-
V.I.	9	-	-	-

TABLE 2-9. PERCENT TURNOVER IN PROFESSIONAL AND TECHNICAL POSITIONS

	Professional and Technical Positions Filled	Turnover		Percent Turnover
		Resignations	Separations	
Ala.	109	11	-	10.1
Alaska	11	-	-	-
Ariz.	31	8	-	25.9
Ark.	29	6	1	24.1
Cal.	*	*	*	*
Colo.	41	4	-	9.8
Conn.	127	14	-	11.0
Del.	14	3	-	21.4
D.C.	65	3	6	13.8
Fla.	122 (m)	16	2	14.8
Ga.	79	9	-	11.4
Hawaii	24	1	-	4.2
Ida.	37	1	2	8.1
Ill.	81	6	3	11.1
Ind.	42	4	-	9.5
Ia.	51	9	1	19.6
Kans.	41	6	1	17.1
Ky.	30	4	-	13.3
La.	63	6	-	9.5
Ma.	28	1	-	3.6
Md.	175	11	3	8.0
Mass.	121	9	-	7.4
Mich.	211	26	2	13.3
Minn.	49	2	-	4.1
Miss.	26	-	-	-
Mo.	31	2	2	12.9
Mont.	11	1	-	9.1
Nebr.	16	3	-	18.8
Nev.	10	1	-	10.0
N.H.	14	1	-	7.1
N.J.	133	20	1	15.8
N.M.	*	*	*	*
N.Y.	348	29	5	9.8
N.C.	68	14	-	20.6
N.D.	15	-	-	-
Ohio	72	9	-	12.5
Okla.	32	3	3	18.8
Ore.	25	14	-	56.0
Pa.	*	*	*	*
R.I.	40	7	1	20.0
S.C.	62	12	1	21.0
S.D.	11	-	-	-
Tenn.	80	13	1	17.5
Tex.	85	11	-	12.9
Utah	35	2	-	5.7
Vt.	17	4	-	23.5
Va.	34	2	-	5.9
Wash.	31	5	-	16.1
W.Va.	27	3	-	11.1
Wisc.	85	22	2	28.2
Wyo.	4	4	1	125.0
Guam	11	1	-	9.1
P.R.	67	-	-	-
V.I.	6	-	-	-

TABLE 2-10. PERSONNEL POLICIES

	<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>	
	Yes	No		Yes	No
Ala.	-	X	-	-	X
Alaska	X	-	1 Year (n)	X	-
Ariz.	X	-	(o)	X	-
Ark.	-	X	-	-	X
Cal.	*	*	*	*	*
Colo.	-	X	-	X	-
Conn.	-	X	-	-	X
Del.	-	X	-	-	X
D.C.	-	X	-	-	X
Fla.	-	X	-	-	X
Ga.	-	X	-	-	X
Hawaii	X (p)	-	3 Years (p)	-	X
Ida.	-	X	-	X	-
Ill.	-	X	-	-	X
Ind.	-	X	-	-	X
Ia.	-	X	-	X	-
Kans.	-	X	-	-	X
Ky.	-	X	-	-	X
La.	-	X	-	-	X
Me.	X	-	(q)	X	-
Md.	-	X	-	-	X
Mass.	X	-	*	X	-
Mich.	-	X	-	-	X
Minn.	-	X (r)	-	X	-
Miss.	-	X	-	X	-
Mo.	X	-	1 Year (s)	X	-
Mont.	-	X	-	-	X
Nebr.	-	X	-	X	-
Nev.	X	-	*	X	-
N.H.	-	X	-	X	-
N.J.	X	-	1 Year (t)	X	-
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	-	X	-	X	-
N.D.	-	X	-	X	-
Ohio	-	X	-	X	-
Okla.	-	X	-	-	X
Ore.	-	X	-	-	X
Pa.	*	*	*	*	*
R.I.	-	X	-	X	-
S.C.	-	X	-	-	X
S.D.	-	X	-	X	-
Tenn.	-	X	-	X	-
Tex.	-	X	-	X	-
Utah	-	X	-	X	-
Vt.	-	X	-	-	X
Va.	-	X	-	-	X
Wash.	-	X	-	-	X
W.Va.	-	X	-	-	X
Wisc.	-	X	-	X	-
Wyo.	-	X	-	X	-
Guam	-	X	-	X	-
P.R.	*	*	*	*	*
V.I.	-	X	-	X	-

TABLE 2-10. PERSONNEL POLICIES  
(Continued)

	Normal Workweek (Hours)	Special Conditions Relating to Work Hours
Ala.	40	Employees rotate weekends and holidays.
Alaska	37½	-
Ariz.	40	Weekends and holidays are covered by one microbiologist and one technical staff member on rotating basis.
Ark.	40	-
Cal.	*	*
Colo.	37½	-
Conn.	35	-
Del.	37½	-
D.C.	40	-
Fla.	40	-
Ga.	40	-
Hawaii	40	Time and a half for overtime, holiday or weekend work.
Ida.	40	-
Ill.	37½	-
Ind.	37½	-
Ia.	40	Non-professionals receive overtime or compensatory time for weekend work.
Kans.	40	-
Ky.	37½	-
La.	40	-
Me.	40	-
Md.	35½	-
Mass.	40	Administrative and clerical workweek is 37½ hours. Doctors' workweek is 48 hours.
Mich.	40	-
Minn.	40	-
Miss.	40	-
Mo.	40	Some laboratory employees are scheduled to work a few hours on Saturdays, Sundays, and holidays.
Mont.	40	-
Nebr.	40	-
Nev.	40	-
N.H.	37½	-
N.J.	35	During summer months 32½ hour workweek.
N.M.	*	*
N.Y.	*	*
N.C.	40	Some essential duties such as rabies examinations, mail pickup and bacteriology are maintained over weekends.
N.D.	40	Compensatory time is hour for hour up to 4 hours. No compensation beyond 4 hours overtime worked.
Ohio	40	Overtime hours must be approved in advance of working.
Okla.	40	-
Ore.	40	-
Pa.	*	*
R.I.	35	-
S.C.	36	-
S.D.	40	-
Tenn.	40	-
Tex.	40	-
Utah	40	-
Vt.	*	*
Va.	40	-
Wash.	40	-
W. Va.	37½	-
Wisc.	40	-
Wyo.	37½	-
Guam	40	-
P.R.	*	*
V.I.	40	-

TABLE 2-10. PERSONNEL POLICIES  
(Continued)

	Personnel Required to Work Overtime Compensated by:			Overtime Pay Applies to:		Rate of Overtime Pay
	Over-time Pay	Time Off	Either O/T or Time Off	All Employees	Only as High as:	
Ala.	-	X	-	-	-	-
Alaska	-	-	X	X	-	1½ times hourly.
Ariz.	-	X	-	-	-	-
Ark.	-	X	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	X	-	Sub-professional level.	1½ times.
Conn.	X	-	-	-	\$12,537 per year level.	Hourly to 40 hours per week. Time and one-half after 40 hours.
Del.	-	X	-	-	-	-
D.C.	-	-	X	-	GS-12.	1½ times.
Fla.	-	X	-	-	-	-
Ga.	-	X	-	-	-	-
Hawaii	-	-	X	-	SR-28.	1½ times up to SR-20 level.
Ida.	-	-	X	-	Pay Group 10.	Hourly rate.
Ill.	-	-	X	-	Lab. Tech. II level.	Hourly rate.
Ind.	-	X	-	-	-	-
Ia.	-	-	X	-	Non-professional level.	Hourly rate.
Kans.	-	X	-	-	-	-
Ky.	-	X	-	-	-	-
La.	-	X	-	-	-	-
Me.	-	X	-	-	-	-
Md.	-	-	X	-	Executive, administrative and professional employees.	Based on 8 hrs./day or 80 hours bi-weekly.
Mass.	X	-	-	*	*	1½ times after 40 hours.
Mich.	X	-	-	-	Level 10.	1½ times.
Minn.	-	-	X	-	Bacteriologist Aide.	Varies with position.
Miss.	-	X	-	-	-	-
Mo.	-	X	-	-	-	-
Mont.	-	X	-	-	-	-
Nebr.	-	X	-	-	-	-
Nev.	-	-	X	*	*	Hourly rate.
N.H.	-	X	-	-	-	-
N.J.	-	-	X	-	Senior Level.	1½ times.
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	-	-	X (u)	-	Non-exempt employees.	1½ times. Employees who work on Christmas Day, Thanksgiving Day, Labor Day and Fourth of July Holidays (Premium Pay Holidays) are paid time and one-half.
N.D.	-	X	-	-	-	-
Ohio	-	-	X	X	-	1½ times regular rate of pay or \$6.60 whichever is the lesser.
Okla.	-	X	-	-	-	-
Ore.	-	-	X	-	Micro. I.	*
Pa.	*	*	*	*	*	*
R.I.	-	-	X	X	-	1½ times.
S.C.	-	X	-	-	-	-
S.D.	-	X	-	-	-	-
Tenn.	-	X	-	-	-	-
Tex.	-	X	-	-	-	-
Utah	-	-	X	X	-	1½ times.
Vt.	-	-	X	-	GR-12.	1½ times.
Va.	-	X	-	-	-	-
Wash.	-	-	X	-	Micro. III level.	1½ times.
W.Va.	-	X	-	-	-	-
Wisc.	-	X	-	-	-	-

TABLE 2-10. PERSONNEL POLICIES  
(Continued)

	Personnel Required to Work Overtime Compensated by:			Overtime Pay Applies to:		Rate of Overtime Pay
	Over- time Pay	Time Off	Either O/T or Time Off	All Employees	Only as High as:	
Wyo.	-	-	-	-	-	-
Guam	-	-	X	-	Med. Tech. III.	1½ times.
P.R.	*	*	*	*	*	*
V.I.	-	-	X	-	18 level.	1½ times.



TABLES 2-1 - 2-10. FOOTNOTES

- (a) Includes Laboratory Directors and Assistant Directors, and Business Managers and Management Officers who spend more than 50 percent of their time on administration and management of laboratory activities.
- (b) Includes Secretaries in the Office of the Director, office services staff, supply and procurement clerks, budget and fiscal clerks and others, other than those covered in supportive services and other categories.
- (c) Those primarily engaged in examining and testing specimens and samples including Laboratory Assistants and Laboratory Helpers who contribute directly to the performance of laboratory tests.
- (d) Includes personnel engaged in preparation of glassware, media, shipping containers, animal handling work, messengers, and supply personnel.
- (e) Includes those who install, repair, or perform preventive maintenance on equipment and maintenance of buildings including housekeeping.
- (f) Includes one half-time clerical employee.
- (g) This includes one professional and technical employee who works half-time.
- (h) Director uses 60% of time for management and 40% for laboratory.
- (i) Includes one position supported by Tuberculosis Program.
- (j) In addition, the following employees are paid on other budgets, but assigned to work in the Laboratory: 1 Microbiologist II; 1 Chemist II, 1 Medical Technologist I; 1 Laboratory and Field Technician II; 2 Work Study Students (Laboratory Helper II).
- (k) Includes Microbiologist IV for each of the three regional laboratories who serve as the overall supervisors.
- (l) All part-time.
- (m) Budgeted positions figure used, as filled positions figure not available.
- (n) Requirement is under review by courts.
- (o) Personnel Commission will waive residency requirement in very unusual circumstances.
- (p) This was the requirement during the reporting period. There is no residency requirement now.
- (q) Required for application; waiver for certain scarce categories.
- (r) Clerk-typists and custodial workers must be residents for one year; for all others, residency requirement is waived.
- (s) Applies to non-professional and non-technical employees.
- (t) Exceptions can be made.
- (u) Laboratory follows guidelines set forth by the Federal Wage and Hour Law.

TABLE 2-11. EMPLOYEE BENEFITS

Annual Leave Earned at Rate of:							Exceptions
Days per Month of Leave	Years Rate Applies	Days per Month of Leave	Years Rate Applies	Days per Month of Leave	Years Rate Applies		
Ala.	1	10	1½	10+	-	-	-
Alaska	1½	0-2	1 3/4	2-5	2	5-10	2½ days per month for 10 years and over.
Ariz.	1	1-3	1½	3-7	1½	7-15	1 3/4 for those with 15+ years.
Ark.	1	0-2	1½	3-8	1½	9-14	1 3/4 for those with 15+ years.
Cal.	*	*	*	*	*	*	*
Colo.	1	5	1½	5-10	1½	10+	Over 15 years at 1 3/4 days/mo.
Conn.	1½	All	-	-	-	-	After 20 years service, 1 additional day per year for next 5 years.
Del.	1½	1-10	1½	10-15	1 3/4	15+	-
D.C.	1 1/12	0-3	1 2/3	3-15	2 1/6	15+	-
Fla.	1	0-5	1½	5-10	1½	10+	-
Ga.	1½	1-5	1½	5-10	1 3/4	10+	-
Hawaii	1 3/4	All	-	-	-	-	-
Ida.	1	5	1½	5-10	1½	10-15	1 3/4 days/mo. with more than 15 years.
Ill.	5/6	0-6	1½	7-14	1 2/3	15+	-
Ind.	1	0-10	-	-	-	-	After 10 years of continuous service, 3 bonus days per year are added. Five additional days are added each year after 20 years service.
Ia.	5/6	2-5	1½	6-12	1 2/3	12+	This applies only to non-professionals. Professionals receive 22½ working days after 1st year of employment.
Kans.	1	1-10	1½	10-15	1½	15+	-
Ky.	1	1-5	1½	5-10	1½	10-15	1 3/4 days/mo. with 15 years and over.
La.	1	3	1½	3-10	1½	10+	-
Me.	1	0-5	1½	6-10	1½	11-15	1 3/4 days per month for 16-20 years; 2 days per month for 20 years and over.
Md.	5/6	2-5	1½	6-10	1 2/3	11-20	2 1/12 days per month - 21st year and thereafter.
Mass.	5/6	1-4	1½	5-9	1 2/3	10+	-
Mich.	1 1/12	½-5	1½	5-10	1 5/12	10-15	1 7/12 days with 15-20 years; 1 3/4 days over 20.
Minn.	3/4	0-2	1	2-5	1½	5-8	8-25 years, 1 3/4 days; 25-30 years, 1 5/6 days; 30 years and over, 2 days per month.
Miss.	1½	All	-	-	-	-	-
Mo.	1½	1-14	1½	15-19	1 3/4	20+	-
Mont.	1½	0-10	1½	11-15	1 3/4	16-20	Over 20 years - 2 days per month.
Nebr.	5/6	0-10	1½	10-20	1 2/3	20+	-
Nev.	1½	1-15	1½	15+	-	-	-
N.H.	1½	1+	-	-	-	-	-
N.J.	1	0-9	1½	10-19	1 3/4	20+	-
N.M.	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*
N.C.	1½	All	-	-	-	-	-
N.D.	1	1-3	1½	4-7	1½	8-12	1 3/4 days per month at 13-18 years. 2 days/mo. over 18 years.
Ohio	5/6	1-10	1½	10-20	1 2/3	20+	-
Okla.	1½	0-5	1½	5+	-	-	-
Ore.	5/6	0-5	1	5-15	1½	15+	-
Pa.	*	*	*	*	*	*	*
R.I.	1½	1-10	1 5/12	10-20	1 5/6	20+	-
S.C.	1½	All	-	-	-	-	-
S.D.	1 1/6	0-15	2	15+	-	-	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

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
Tenn.	1	0-5	1½	5-10	2	10-20	-
Tex.	5/6	0-15	1½	15-20	1 2/3	20+	-
Utah	1	1-5	1½	5-10	1½	10+	-
Vt.	1	1-5	1½	5-10	1½	10+	-
Va.	1	1-5	1½	5-10	1½	10+	-
Wash.	1	0-1	1 1/12	1-2	1 1/6	3-5	From 5 years of service on, annual leave is accumulated on a prorated basis.
W.Va.	1½	0-5	1½	5-15	2	15+	-
Wisc.	5/6	0-5	1½	5-15	1 2/3	15-25	1 1/12 days per month after 25 years of service.
Wyo.	1	1-4	1½	5-9	1½	10-19	-
Guam	1 1/12	1-3	1 2/3	4-14	2 1/6	15+	Not applicable to temporary positions.
P.R.	*	*	*	*	*	*	*
V.I.	1	3	1½	3-14	2	15+	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

	Maximum Amount of Annual Leave that can be Accumulated (days)	Exceptions
Ala.	42	Only 30 days can be carried over at the end of the year.
Alaska	60	-
Ariz.	30 days as of 12/31 of that year	Leave accumulated prior to date of rule change exempt and employee may carry that leave until used.
Ark.	30	-
Cal.	*	*
Colo.	Twice annual allowance	-
Conn.	120	-
Del.	42	-
D.C.	30	-
Fla.	30	-
Ga.	45	Lost leave may be reinstated in case of a long illness when more leave is required than is at hand.
Hawaii	90 (15 days/yr.)	-
Ida.	30	-
Ill.	40	-
Ind.	No limit	-
Ia.	22.5	-
Kans.	18 with 1-5 years service	20 days, 5-10 years service; 22 days, 10-15 years; 24 days, 15+ years service.
Ky.	51	Cannot carry over more than 30 days at end of calendar year.
La.	No limit	-
Me.	24	30 days with 15 years service.
Md.	30	-
Mass.	20	-
Mich.	30	-
Minn.	24	Eligible employees with 30 years continuous service may accumulate 26 days.
Miss.	60	-
Mo.	30 with 1-14 years service	36 days with 15-19 years; 42 days with 20+.
Mont.	30	A person can go up to 36 days during the year.
Nebr.	-	State law requires forfeiture of leave not taken as of January 1.
Nev.	30	-
N.H.	30	-
N.J.	-	Leave 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.
N.M.	*	*
N.Y.	*	*
N.C.	30	-
N.D.	30	-
Ohio	20 days with 1-10 years service	30 days with 10-20 years service; 40 days with 20+.
Okla.	30 with 1-5 years service	48 days with over 5 years service. Part-time employees earn annual leave proportionally.
Ore.	25	-
Pa.	*	*
R.I.	22	-
S.C.	24	-
S.D.	30	-
Tenn.	42	-
Tex.	2 years leave	i.e. An employee with 20 years service cannot accumulate more than 40 days of annual leave.
Utah	30 days as of December 31	-
Vt.	35	-
Va.	36	-
Wash.	30	-
W.Va.	30	-
Wisc.	-	5 days per year after 25 years service.

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

	Maximum Amount of Annual Leave that can be Accumulated (days)	Exceptions
Wyo.	30	Accumulated leave cut back to 20, 23, 26 days respectively on January 1.
Guam	60	-
P.R.	*	*
V.I.	60	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

Sick Leave Earned at Rate of:					
	Days per Month of Leave	Years Rate Applies	Days per Month of Leave	Years Rate Applies	Exceptions
Ala.	1	All	-	-	-
Alaska	1½	All	-	-	-
Ariz.	1	All	-	-	-
Ark.	1	All	-	-	-
Cal.	*	*	*	*	*
Colo.	1½	All	-	-	-
Conn.	1½	All	-	-	-
Del.	1½	0-10	1½	10+	-
D.C.	1 1/12	All	-	-	-
Fla.	1	All	-	-	-
Ga.	1½	All	-	-	-
Hawaii	1 3/4	All	-	-	-
Ida.	1	All	-	-	Must work 1 full month before becoming eligible.
Ill.	1	All	-	-	-
Ind.	1	All	-	-	Bonus sick leave at the rate of 1 week for each year of continuous service over 5 years may be awarded.
Ia.	2½	All	-	-	-
Kans.	1	All	-	-	-
Ky.	1	All	-	-	10 extra sick days are received after employment with State 10 years.
La.	1	0-3	1½	3-10	1½ days, 10 years and over.
Me.	1	All	-	-	-
Md.	2½	All	-	-	-
Mass.	1½	All	-	-	-
Mich.	1 1/12	All	-	-	-
Minn.	½	0-1	3/4	1-2	Over 2 years, 1 1/12 days per month. When 100 days have been accrued and 100 days are maintained, employee accrues ½ day per month.
Miss.	1	All	-	-	-
Mo.	1½	All	-	-	-
Mont.	1	All	-	-	Can't be used during first 90 days of employment.
Nebr.	1	All	-	-	Not granted during initial probation.
Nev.	1½	1-15	1½	15+	Maximum of 240 hours per calendar year.
N.H.	1½	All over 1	-	-	-
N.J.	1½	All over 1	-	-	-
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	5/6	All	-	-	-
N.D.	1	All	-	-	-
Ohio	1½	All	-	-	-
Okla.	1½	All	-	-	-
Ore.	1	All	-	-	-
Pa.	*	*	*	*	*
R.I.	1½	All	-	-	-
S.C.	1½	All	-	-	-
S.D.	1	All	-	-	-
Tenn.	1	All	-	-	-
Tex.	1	All	-	-	-
Utah	1	All	-	-	-
Vt.	1	1-5	1½	5-10	1½ days with 10+ years.
Va.	1½	All	-	-	-
Wash.	1	All	-	-	-
W.Va.	1½	All	-	-	-
Wisc.	1 1/12	All	-	-	-
Wyo.	-	-	-	-	-
Guam	1	All	-	-	-
P.R.	*	*	*	*	*
V.I.	1	All	-	-	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

	Maximum Amount of Sick Leave that can be Accumulated (days)	Exceptions
Ala.	No limit	-
Alaska	No limit	-
Ariz.	No limit	-
Ark.	90	-
Cal.	*	*
Colo.	No limit	-
Conn.	No limit	-
Del.	90	-
D.C.	No limit	-
Fla.	No limit	-
Ga.	90	Any lost leave may be reinstated if needed for a long illness.
Hawaii	No limit	-
Ida.	No limit	-
Ill.	No limit	-
Ind.	No limit	-
Ia.	90	-
Kans.	No limit	-
Ky.	120	-
La.	No limit	-
Me.	90	-
Md.	100 days as of any January 1	-
Mass.	No limit	-
Mich.	No limit	When employees retire from service they are paid for one-half of unused sick leave at their current rate of pay. In case of death, such one-half payment is made to the beneficiary or estate.
Minn.	No limit	When leave is greater than 800 hours, it is accrued at rate of 2 hours per pay period.
Miss.	60	-
Mo.	120	-
Mont.	No limit	Terminated employees are paid a lump sum equivalent to $\frac{1}{2}$ of the value of the accumulated sick leave.
Nebr.	No limit	$\frac{1}{2}$ of accrued sick leave is awarded as bonus on retirement.
Nev.	90	Plus a percentage of accumulated excess.
N.H.	90	-
N.J.	No limit	-
N.M.	*	*
N.Y.	*	*
N.C.	No limit	-
N.D.	No limit	-
Ohio	120	-
Okla.	45	-
Ore.	No limit	-
Pa.	*	*
R.I.	105	-
S.C.	90	-
S.D.	24	-
Tenn.	120	-
Tex.	36	-
Utah	Indefinite	-
Vt.	No limit	-
Va.	No limit	-
Wash.	120	-
W.Va.	90	-
Wisc.	No limit	-
Wyo.	-	-
Guam	No limit	-
P.R.	*	*
V.I.	No limit	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

Special Leave Provisions:							
	Maternity Leave	Military Leave	Court Leave	Educational Leave	Administra- tive Leave	LWOP	Other
Ala.	X	X	-	X	-	-	-
Alaska	X	X	X	X	X	X	-
Ariz.	X	X	X	X	X	X	-
Ark.	X	X	X	X	-	X	-
Cal.	*	*	*	*	*	*	*
Colo.	X	X	X	X	X	X	-
Conn.	X	X	X	X	-	X	-
Del.	X	X	X	X	X	-	-
D.C.	X	X	X	X	X	X	-
Fla.	X	X	X	X	X	X	-
Ga.	X	X	X	X	X	X	Sick leave may be used when presence is required due to illness of a family member.
Hawaii	X	X	X	X	X	X	Funeral leave.
Ida.	X	X	X	X	-	X	Funeral and family sick leave.
Ill.	X	X	X	X	-	X	1-3 days personal leave.
Ind.	-	X	X	X	X	X	-
Ia.	X	X	X	-	X	X	-
Kans.	X	X	X	X	-	X	-
Ky.	X	X	X	X	-	X	-
La.	X	X	X	X	X	X	Advanced sick leave, funeral leave.
Me.	-	X	X	X	-	X	-
Md.	X	X	X	X	X	X	3 personal leave days.
Mass.	-	X	X	X	-	X	-
Mich.	X	X	-	X	X	X	Two days (16 hrs.) of annual leave are credited to each continuing employee upon entry into the classified service, immediately available upon approval of the appointing authority, for personal purposes including time off for voting, religious observance and necessary personal business. Thereafter, this leave is credited annually.
Minn.	-	X	X	-	X	X	X
Miss.	X	X	X	X	-	X	-
Mo.	X	X	X	X	-	X	Leave may be granted for illness after accumulated sick and annual leave are exhausted.
Mont.	-	X	X	-	-	X	-
Nebr.	X	X	X	X	X	X	-
Nev.	-	X	X	X	X	X	-
N.H.	X	X	X	X	-	X	-
N.J.	X	X	X	X	-	X	Convention leave (certain organizations), leave of absence without pay up to one year.
N.M.	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*
N.C.	X	X	X	X	X	X	Petty leave - 14 hours per year.
N.D.	-	X	X (a)	X	-	-	X
Ohio	-	X	X	X	X	-	Emergency leave for inclement weather (acts of God).
Okla.	X	X	X	X	-	X	-
Ore.	X	X	X	X	-	X	-
Pa.	*	*	*	*	*	*	*
R.I.	X (b)	X	X	X	X	X	-
S.C.	X	X	X	X	X	X	Extended sick; excused (funeral).
S.D.	X	X	X	X	X	X	-
Tenn.	X	X	X	X	-	X	-
Tex.	-	X	X	-	-	X	-
Utah	X	X	X	X	X	X	-
Vt.	-	X	X	X	-	X	-



TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

Special Leave Provisions:							
	Maternity Leave	Military Leave	Court Leave	Educational Leave	Administra- tive Leave	LWOP	Other
Va.	X	X	X	X	X	X	-
Wash.	-	X	X	X	-	X	-
W.Va.	X	X	X	X	-	X	-
Wisc.	X	X	X	X	-	X	-
Wyo.	X	-	X	X	X	X	-
Guam	X	X	X	X	X	X	-
P.R.	*	*	*	*	*	*	*
V.I.	X	X	X	X	X	X	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

	No. of Paid Holidays	Group Hospitalization Available		Portion of Hospitalization Premium Paid by:	
		Yes	No	Paid by:	
				Employee	State
Ala.	13	X	-	-	100%
Alaska	11	X	-	-	100%
Ariz.	11 plus general election day in even numbered years.	X	-	100%	-
Ark.	10 plus all general election days.	X	-	100%	-
Cal.	*	*	*	*	*
Colo.	12	X	-	75%	25%
Conn.	11	X	-	-	100% (for employee)
Del.	13 (includes election day).	X	-	20%	80% (\$11.46)
D.C.	9 plus special days.	X	-	Amount varies by plan, whether coverage is for self only, or self and family, and whether high or low option. Example: Indemnity Benefit Plan - Indemnity Benefit Plan - Self Only/Self & Family, Self Only/Self & Family High Option - 63% High Option - 37% Low Option - 50% Low Option - 50% Service Benefit Plan - Service Benefit Plan - Self Only/Self & Family, Self Only/Self & Family High Option - about 67% High Option - about 33% Low Option, 50%. Low Option, 50%.	
Fla.	7	X	-	25%	75%
Ga.	12	X	-	97.5% (4.74 single, 14.72 fam.)	2.5%
Hawaii	14	X	-	Varies by Co. & family size.	5.00 (Single), 15.00 (Family).
Ida.	9	X	-	\$2.60 single low option; 6.50 single high option; 22.05 family low option; 31.50 family high option.	\$8.00
Ill.	10 plus 1 in general election year.	X	-	-	100%
Ind.	12	X	-	-	100%
Ia.	8	X	-	100%	-
Kans.	7½	X	-	-	100%
Ky.	10½	X	-	-	100% (effective 10-1-72)
La.	8	X	-	50%	50%
Me.	*	X	-	50%	50%
Md.	13 plus all general election days.	X	-	Varies w/option.	\$7.00/mo.
Mass.	10	X	-	25%	75%
Mich.	7 (Time off with pay is allowed on the day preceding Christmas and New Year's from 1:00 to 5:00 p.m. when these holidays occur on Tuesday, Wednesday, Thursday or Friday).	X	-	10%	90% (for both employee and dependents).
Minn.	11	X	-	100%	-
Miss.	10	X	-	50%	50%
Mo.	13 (includes primary and general elections).	X	-	100%	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

	No. of Paid Holidays	Group Hospitalization		Portion of Premium	
		Available		Paid by:	
		Yes	No	Employee	State
Mont.	11 plus general election day in even numbered years.	X	-	\$40/mo.	\$10/mo.
Nebr.	12	X	-	100%	-
Nev.	8	X	-	10%	90%
N.H.	11	X	-	18.50	3.00/mo. (Blue Cross, Blue Shield & major medical.)
N.J.	12	X	-	-	100% (4.20)
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	9 (If the day preceding and following Christmas Day are scheduled work days, three work days will be observed).	X	-	Variable	\$10/month
N.D.	9 plus all general election days.	X	-	-	100% (7.50/mo.)
Ohio	9	X	-	33%	67%
Okla.	7-10	X	-	-	100%
Ore.	8	X	-	*	*
Pa.	*	*	*	*	*
R.I.	10	X	-	(dependent on Coverage)	6.37
S.C.	11	X	-	100%	-
S.D.	8	X	-	100%	- (State will pay all beginning Jan. 1973.)
Tenn.	*	X	-	50%	50%
Tex.	13	X	-	100%	-
Utah	12	X	-	-	100%
Vt.	14	X	-	50%	50%
Va.	11	X	-	-	100%
Wash.	11	X	-	Varies w/plan	\$15 per mo.
W.Va.	14 (Includes primary and general elections).	*	-	Varies w/salary	Varies w/salary
Wisc.	9½	X	-	10%	90%
Wyo.	10	X	-	Variable	7.00 per mo.
Guam	10	X	-	50%	50%
P.R.	*	*	*	*	*
V.I.	22	X	-	25%	75%

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

Special Provisions or Requirements - Group Hospitalization

Ala.	Dependents' coverage is offered but employee pays all of this.
Alaska	-
Ariz.	-
Ark.	(State expected to start paying \$5.00/month).
Cal.	*
Colo.	State pays \$10.00/month. Full coverage for employee only is possible.
Conn.	State pays one half for members of family eligible to be covered.
Del.	-
D.C.	Varies by plan. Numerous employee-organization, group-practice prepayment plans, etc., are available.
Fla.	-
Ga.	-
Hawaii	-
Ida.	Must be employed 60 days before becoming eligible.
Ill.	Employee can buy coverage for family members.
Ind.	State pays entire amount for employee coverage (low option).
Ia.	Can enter at employment or any October thereafter.
Kans.	-
Ky.	-
La.	-
Me.	For individual employee only.
Md.	State pays all when employee is 65.
Mass.	-
Mich.	State pays all of premium if an active employee, his spouse, or both are eligible for Medicare benefits.
Minn.	-
Miss.	For the employee only.
Mo.	State will begin paying \$10.00 within next few months.
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	Employee pays for family.
N.M.	*
N.Y.	*
N.C.	-
N.D.	-
Ohio	Must select during first 30 days of employment.
Okla.	Employee pays for dependents and extended benefits.
Ore.	*
Pa.	*
R.I.	Choice of coverage. State pays employee premium for basic plan; employee pays family premium.
S.C.	-
S.D.	-
Tenn.	-
Tex.	-
Utah	The State pays for the basic policy; the employee for increased benefits.
Vt.	-
Va.	Higher options and inclusion of family are paid by employee.
Wash.	-
W.Va.	90 day eligibility - physical may be required.
Wisc.	-
Wyo.	-
Guam	-
P.R.	*
V.I.	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

	Group Life Insurance Available		Portion of Premium Paid by:		Amount of Insurance for Which Employee is Eligible Determined by:
	Yes	No	Employee	State	
Ala.	X	-	100%	-	Salary.
Alaska	X	-	-	100%	Base salary rounded off to closest \$1000 and age.
Ariz.	X	-	100%	-	-
Ark.	X	-	100%	-	Salary level.
Cal.	*	*	*	*	*
Colo.	X	-	100%	-	*
Conn.	X	-	50% (10¢ per wk. per 1000)	50%	Yearly salary and approximately \$3,000.
Del.	X	-	100%	-	Salary (\$.14-.49 semi-monthly per 1000 according to age.)
D.C.	X	-	67%	33%	Salary (annual pay rounded to next higher thousand plus \$2,000, with a minimum of \$10,000. Optional \$10,000 available to all employees at own cost.)
Fla.	X	-	100%	-	Age and salary.
Ga.	X	-	50%	50%	Salary and number of years employed.
Hawaii	X	-	-	100% (2.25)	(Additional insurance available through employees' unions). Reg. insurance provides benefits of 13,000 for an active employee under 45 years of age and a reduced rate of 9,750 for those 45 through 64.
Ida.	X	-	-	100%	Annual salary - natural death - pays one year's salary; accidental death - double annual salary.
Ill.	X	-	-	100%	State pays premium for life insurance equivalent to one half of annual salary, reducing principle benefit 20% each year between ages 56 and 60 to minimum of \$2,000. Employees may buy optional insurance equal to above, with 20% annual reduction from ages 61 through 65.
Ind.	-	X	-	-	-
Ia.	X	-	50%	50%	*
Kans.	X	-	-	100%	One half of annual salary (also disability benefit insurance provided).
Ky.	X	-	-	100%	-
La.	X	-	50%	50%	Salary.
Me.	X	-	100%	-	Salary level.
Md.	X	-	100%	-	-
Mass.	X	-	25%	75%	Option to take automatic increase in coverage with increase in pay to the maximum salary for job group.
Mich.	X	-	25%	75%	Salary (current annual salary rate rounded upward to the nearest thousand dollars).
Minn.	X	-	-	100%	\$5,000 term life.
Miss.	X	-	50%	50%	One times annual earnings rounded to next higher \$1,000.
Mo.	X	-	*	*	6 months to 1 year, \$1,000; 2 years, 2,000; 3 years, 3,000; 4 years, 4,000; 5 or more years, 5,000.
Mont.	-	X	-	-	-
Nebr.	-	-	-	-	-
Nev.	X	-	25%	75%	Salary level.

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

	Group Life Insurance Available		Portion of Premium Paid by:		Amount of Insurance for Which Employee is Eligible Determined by:
	Yes	No	Employee	State	
N.H.	X	-	100%	-	-
N.J.	X	-	-	100%	State pays for insurance 1½ times salary - extra available.
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	X	-	100%	-	Provisions of insurance carrier.
N.D.	X	-	-	100% (\$1.00 per mo.)	Salary.
Ohio	X	-	-	100%	Number of continuous years of service.
Okla.	X	-	-	100%	\$12,000 free - can purchase \$12,000 additional.
Ore.	X	-	Variable	\$10.00	Completeness of medical & hospital coverage.
Pa.	*	*	*	*	*
R.I.	X	-	28.3%	71.7%	Annual salary.
S.C.	X	-	100%	-	Limits of policy.
S.D.	X	-	100%	-	Employee.
Tenn.	X	-	50%	50%	*
Tex.	X	-	100%	-	Salary.
Utah	X	-	*	*	Salary and years of employment.
Vt.	X	-	50%	50%	8,000 or amount equal to salary, with limit of \$20,000.
Va.	X	-	*	*	Annual salary to nearest \$1,000.
Wash.	X	-	100%	-	-
W.Va.	X	-	Varies w/salary.	Varies w/salary..	Annual salary to maximum of \$10,000.
Wisc.	X	-	50%	50%	Annual salary.
Wyo.	X	-	100%	-	-
Guam	X	-	50%	50%	Salary.
P.R.	*	*	*	*	*
V.I.	-	X	-	-	-

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

	Employees Covered by		Employees Eligible for State		Percentage of Salary for Retirement Plan	
	Social Security		Retirement Plan		Employee	State
	Yes	No	Yes	No		
Ala.	X	-	X	-	4%	-
Alaska	X	-	X	-	4.25%	11.21%
Ariz.	X	-	X	-	5%	5%
Ark.	X	-	X	-	5%	7%
Cal.	*	*	*	*	*	*
Colo.	-	X	X	-	7%	8%
Conn.	X	-	X	-	2 or 5%	13.36%
Del.	X	-	X	-	5% (over 6000 annual salary)	*
D.C.	-	X	X	-	7.5%	7.5%
Fla.	X	-	X	-	4%	4%
Ga.	X	-	X	-	5.5-7%	7.5%
Hawaii	X	-	X	-	6%	-
Ida.	X	-	X	-	3% on first 400; 6% on amount above 400.	7.1%
Ill.	X (c)	-	X	-	4% (c)	4% (c)
Ind.	X	-	X	-	3%	Varies
Ia.	X	-	X	-	3½ to 7800 (d)	3½ (d)
Kans.	X	-	X	-	4%	6.1%
Ky.	X	-	X	-	4%	7%
La.	- (e)	X	X	-	6%	8%
Me.	-	X	X	-	5%	5%
Md.	X	-	X	-	5.45-8.90 depending on age & sex.	Matching
Mass.	-	X	X	-	5%	-
Mich.	X	-	X	-	3% up to 4210; 5% on excess.	Determined actuarially each year and appropriated by the Legislature.
Minn.	X	-	X	-	3%	4.5%
Miss.	X	-	X	-	4%	4%
Mo.	X	-	X	-	-	8%
Mont.	X	-	X	-	5.75%	4.6%
Nebr.	X	-	X	-	3% < 4800; 6% > 4800.	102% of individual contributions.
Nev.	-	X	X	-	6%	6%
N.H.	X	-	X	-	Varies w/pay grade	Varies
N.J.	X	-	X	-	Based on age & salary.	Combination of Social Security.
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	X	-	X	-	5% of 1st 5600; 6% above.	8.92%
N.D.	X	-	X	-	4%	4% (on basis of maximum of \$12,000/year salary).
Ohio	-	X	X	-	7.7%	10%
Okla.	X	-	X	-	4% to \$12,000	6% to \$12,000. (State pays all eff. 7/1/72).
Ore.	X	-	X	-	4-7%	4-7%
Pa.	*	*	*	*	*	*
R.I.	X	-	X	-	5%	9.9%
S.C.	X	-	X	-	4% up to \$4800; 6% thereafter	Matching
S.D.	X	-	X	-	3.5%	3.5%
Tenn.	X	-	X	-	*	*
Tex.	X	-	X	-	5%	5%
Utah	X	-	X	-	-	9%
Vt.	X	-	X	-	5%	5%
Va.	X	-	X	-	*	*
Wash.	X	-	X	-	.05%	.0446%
W.Va.	X	-	X	-	4.5%	9.5%
Wisc.	X	-	X	-	.5%	4%
Wyo.	X	-	X	-	5%	5%
Guam	-	X	X	-	6%	8.604%
P.R.	*	*	*	*	*	*
V.I.	-	X	X	-	6%	9.6% up to \$20,000.

TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

Other Employee Benefits (such as free parking)	
Ala.	-
Alaska	-
Ariz.	-
Ark.	Adequate free parking.
Cal.	*
Colo.	- (Free parking very inadequate).
Conn.	Adequate free parking available. Partial tuition paid for job-related courses.
Del.	State employees have free parking.
D.C.	Adequate parking, but most is not free.
Fla.	Adequate free parking in Central and all but the Miami and Tampa Regional Laboratories; Employee's Health Service and Credit Union.
Ga.	Uniforms (and laundry of same) are provided to laboratory workers. Parking is available to a limited number of workers for a fee. A credit union is established in the building for all employees.
Hawaii	Death benefits of one year's salary. Federal Credit Union, blood bank.
Ida.	None significant.
Ill.	-
Ind.	Free parking furnished. Pre-exposure rabies immunization, and other pertinent immunizations according to risk to employee; chest X-ray, and tuberculin skin testing of TB laboratory personnel.
Ia.	Major Medical Insurance and Disability Insurance, both at no cost to the employee.
Kans.	Adequate free parking.
Ky.	-
La.	(Parking not adequate).
Me.	Uniforms and laundry of uniforms.
Md.	Adequate parking, laboratory coats.
Mass.	Free parking.
Mich.	State pays for screening tests of employee to assist in early diagnosis of chronic disease. In case of injury or illness for which an employee is eligible for work disability benefit under the Michigan Workmen's Compensation Law, the State Personnel Director may authorize salary payment which, with his work disability payment, equals two-thirds of his regular salary. Employee is eligible for a group plan of income protection in case of total disability which guarantees income equal to two-thirds of his current basic rate of pay (limited to a maximum payment of \$1,000 per month). State pays a percentage of the premium cost. Free parking provided.
Minn.	Laboratory uniforms are furnished and laundered at no cost to the employee.
Miss.	Adequate free parking, uniforms and laundry furnished.
Mo.	-
Mont.	A group accident policy is available. Adequate free parking available; also, clean air and hunting, fishing, and skiing.
Nebr.	Parking, closeby, reserved at \$4.00/month. Will be free at new laboratory.
Nev.	Free parking, travel expense and per diem, in-service and continuing education.
N.H.	Free parking and laundry for laboratory coats.
N.J.	Free parking, immunization, employee Blood Bank program.
N.M.	*
N.Y.	*
N.C.	Disability salary continuation plan available to all. Death benefits equivalent to 1 year's salary.
N.D.	Longevity pay plan beginning 5 years service 2½% of salary to 15 years service and 10% of salary.
Ohio	Credit Union, Savings Bonds, pay step increases, promotional opportunity adequate.
Okla.	Free parking, Departmental Credit Union (Laboratory coats and cleaning provided FY 1973).
Ore.	-
Pa.	*
R.I.	Free parking.
S.C.	Adequate free parking. Death payment equal to one year's salary (employees of at least one year). Frequent "bonus" holidays. Paid expenses (within State policy) for selected training and attendance at professional meetings.
S.D.	Adequate free parking.
Tenn.	Credit Union.



TABLE 2-11. EMPLOYEE BENEFITS  
(Continued)

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Other Employee Benefits (such as free parking)

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Tex.	Parking, payment for injuries in "hazardous positions."
Utah	Continuing Education. Laboratory technicians without a degree who show promise of becoming career employees are permitted to take classes leading to a degree, providing the course work is approved and the individual can present an adjustable work schedule covering 40 hours per week. Professional employees are allowed the same privilege, to work toward a graduate degree and can be reimbursed for 50% of the tuition for those courses pertinent to the job providing that he or she obtained a satisfactory grade.
Vt.	Laboratory coats provided.
Va.	-
Wash.	-
W.Va.	Adequate free parking.
Wisc.	-
Wyo.	-
Guam	-
P.R.	*
V.I.	-

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TABLE 2-12. SUMMARY OF HIGHEST DEGREES HELD BY PROFESSIONAL EMPLOYEES

	No. of Professional Employees (f)	Advanced Degrees (g)		Number with Highest Degree								
		No.	Percent of Prof. Employees	MD	Ph.D			MS-MA	MPH	BS-BA	None	
				(Path.)	MD	Sc.D	DVM					Dr.PH
Ala.	89 (h)	7	7.9	-	-	1	-	1	5	-	76	-
Alaska	16	1	6.3	-	-	-	-	1	-	-	15	-
Ariz.	22	6	27.3	-	-	2	-	1	3	-	16	-
Ark.	24	6	25.0	-	-	-	-	1	5	-	13	5
Cal.	*	*	*	*	*	*	*	*	*	*	*	*
Colo.	40	10	25.0	-	-	2	-	-	8	-	30	-
Conn.	111	23	20.7	-	-	11 (1)	-	-	15	-	76	9
Del.	8	4	50.0	-	3	-	-	-	1	-	4	-
D.C.	*	*	*	*	*	*	*	*	*	*	*	*
Fla.	72	19	26.4	-	1	3	-	2	10	3	43	10
Ga.	65	17	26.2	-	-	1	-	1	12	3	48	-
Hawaii	25	3	12.0	-	-	-	-	-	2	1	22	-
Ida.	27	5	18.5	-	-	-	-	1	3	1	20	2
Ill.	65	23	35.4	-	-	5	-	-	13	5	39	3
Ind.	40	12	30.0	1	-	-	-	-	5	6	27	1
Ia.	38	14	36.8	-	-	6	-	-	8	-	23	1
Kans.	36	7	19.4	-	-	2	-	-	4	1	29	-
Ky.	30	4	13.3	-	1	1	-	1	1	-	22	4
La.	76	10	13.2	2	1	-	-	-	7	-	52	14
Me.	18	5	27.8	-	-	2	-	-	3	-	13	-
Md.	100	13	13.0	2	-	8	-	-	3	-	87	-
Mass.	60	9	15.0	-	2	4	-	-	3	-	41	10
Mich.	132	58	43.9	-	3	29	4	-	16	6	74	-
Minn.	34	5	14.7	-	-	3	-	1	1	-	29	-
Miss.	22	3	13.6	-	-	-	-	-	3	-	19	-
Mo.	30	5	16.7	-	-	-	-	1	1	3	16	9
Mont.	14	3	21.4	-	-	1	-	-	2	-	11	-
Nebr.	17	6	35.0	-	-	1	-	1	3	1	11	-
Nev.	12	1	8.3	-	-	1	-	-	-	-	11	-
N.H.	15	2	13.3	-	-	-	-	1	1	-	13	-
N.J.	53 (h)	13	*	-	1	2	-	-	10	-	39	1
N.M.	*	*	*	*	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*	*	*	*	*
N.C.	76	14	18.4	-	1	2	-	-	4	7	39	23
N.D.	12	1	8.3	-	-	-	-	-	-	1	-	-
Ohio	56	8	14.3	-	-	1	1	1	3	2	41	7
Okla.	30	5	16.7	-	-	1	-	-	2	2	24	1
Ore.	30	6	20.0	-	-	-	-	-	5	1	24	-
Pa.	*	*	*	*	*	*	*	*	*	*	*	*
R.I.	32	7	21.9	-	-	1	-	-	5	1	22	3
S.C.	45	9	20.0	-	1	1	-	2	5	-	29	7
S.D.	*	*	*	*	*	*	*	*	*	*	*	*
Tenn.	79	16	20.3	-	-	-	-	1	12	2	64	-
Tex.	71	7	9.9	-	-	3	1	1	1	1	64	-
Utah	30	8	26.7	-	-	1	-	1	6	-	23	-
Vt.	16	3	18.8	-	-	1	1	-	1	-	13	-
Va.	*	*	*	*	*	*	*	*	*	*	*	*
Wash.	34	12	35.3	-	2	2	-	-	6	2	22	-
W.Va.	19 (j)	4	21.1	-	-	-	-	-	1	3	14	1
Wisc.	58	14	24.1	1	1	1	-	-	9	2	37	7
Wyo.	5	3	60.0	-	-	-	-	1	2	-	2	-
Guam	6	-	-	-	-	-	-	-	-	-	6	-
P.R.	53	4	7.5	-	2	1	-	-	1	-	49	-
V.I.	2	1	50.0	-	-	-	-	-	1	-	1	-

TABLE 2-13. HIGHEST DEGREE HELD BY LABORATORY DIRECTORS

Corresponding State Title	MD (Path)	MD	PhD ScD	DVM	Dr PH	MS- MA	MPH	BS- BA	None
Ala.	Laboratory Director	-	-	1	-	-	-	-	-
Alaska	Chief, Section of Labs	-	-	-	1	-	-	-	-
Ariz.	Laboratory Director	-	-	1	-	-	-	-	-
Ark.	Laboratory Director	-	-	-	1	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	Laboratory Director	-	-	1	-	-	-	-	-
Conn.	Laboratory Director	-	-	1	-	-	-	-	-
Del.	Program Administrator	-	1	-	-	-	-	-	-
D.C.	Chief, Bureau of Labs	-	-	-	1	-	-	-	-
Fla.	Laboratory Director	-	-	1	-	-	-	-	-
Ga.	Chief, Lab Unit	-	-	-	-	1	-	-	-
Hawaii	Microbiologist VII	-	-	-	-	1	-	-	-
Ida.	Laboratory Director	-	-	-	1	-	-	-	-
Ill.	Chief, P.H. Microbiologist	-	-	-	-	-	1	-	-
Ind.	Laboratory Director	1	-	-	-	-	-	-	-
Ia.	Laboratory Director	-	-	1	-	-	-	-	-
Kans.	Laboratory Director	-	-	1	-	-	-	-	-
Ky.	P.H. Physician IV	-	1	-	-	-	-	-	-
La.	Director	1	-	-	-	-	-	-	-
Me.	Laboratory Director	-	-	1	-	-	-	-	-
Md.	Physician V	1	-	-	-	-	-	-	-
Mass.	Superintendent, St. Lab. Institute	-	1	-	-	-	-	-	-
Mich.	Laboratory Director	-	1	-	-	-	-	-	-
Minn.	Laboratory Director	-	-	1	-	-	-	-	-
Miss.	Laboratory Director	-	-	-	-	1	-	-	-
Mo.	Laboratory Director	-	-	-	1	-	-	-	-
Mont.	Administrator	-	-	1	-	-	-	-	-
Nebr.	Director of Labs	-	-	-	1	-	-	-	-
Nev.	Laboratory Director	-	-	1	-	-	-	-	-
N.H.	Laboratory Director	-	-	-	1	-	-	-	-
N.J.	Assistant Commissioner	-	1	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*	*
N.C.	Laboratory Director	-	-	1	-	-	-	-	-
N.D.	Laboratory Director	-	-	-	-	-	-	1	-
Ohio	Laboratory Director	-	-	1	-	-	-	-	-
Okla.	Chief, Lab Services	-	-	1	-	-	-	-	-
Ore.	Laboratory Director	-	-	-	-	1	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	Chief, Division of Labs	-	-	-	-	1	-	-	-
S.C.	Chief, Bureau of Labs	-	1	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	Laboratory Director	-	-	-	1	-	-	-	-
Tex.	Laboratory Director	-	-	1	-	-	-	-	-
Utah	Laboratory Director	-	-	-	-	1	-	-	-
Vt.	Laboratory Director	-	-	-	1	-	-	-	-
Va.	Deputy Director	-	-	-	1	-	-	-	-
Wash.	Chief, Health Laboratories	-	-	1	-	-	-	-	-
W.Va.	Laboratory Director	-	-	-	-	-	-	-	1
Wisc.	Laboratory Director	1	-	-	-	-	-	-	-
Wyo.	Laboratory Director	-	-	-	1	-	-	-	-
Guam	Laboratory Director	-	-	-	-	-	-	1	-
P.R.	Laboratory Director	-	1	-	-	-	-	-	-
V.I.	Laboratory Director	-	-	-	-	-	-	1	-

TABLE 2-14. HIGHEST DEGREE HELD BY ASSISTANT LABORATORY DIRECTORS

Corresponding State Title		No. of Filled Positions	PhD		Dr	MS-		BS-		None
			MD	ScD	DVM	PH	MA	MPH	BA	
Ala.	Assistant Laboratory Director	1	-	-	-	1	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-
Ariz.	Assistant Laboratory Director	1	-	-	-	1	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	-	-	-
Conn.	Assistant Laboratory Director	3	-	1	-	-	1	-	1	-
Del.	-	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-	-
Fla.	Assistant Laboratory Director	1	-	1	-	-	-	-	-	-
Ga.	Assistant Chief, Lab Unit	2	-	-	-	1	1	-	-	-
Hawaii	Microbiologist VI	-	-	-	-	-	-	-	-	-
Ida.	Assistant Laboratory Director	1	-	-	-	-	-	1	-	-
Ill.	Assistant Chief P.H. Microbiologist	1	-	-	-	-	1	-	-	-
Ind.	Assistant Laboratory Director	1	-	-	-	-	1	-	-	-
Ia.	Associate Director & Principal Chemist	1	-	1	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	-	-
Ky.	P.H. Administrator III	1	-	-	-	-	-	-	1	-
La.	Assistant Head (P.H. Lab. Tech. V)	2	-	-	-	-	-	-	2	-
Me.	Assistant Laboratory Director	1	-	1	-	-	-	-	-	-
Md.	Laboratory Scientist VII	1	-	1	-	-	-	-	-	-
Mass.	Assistant Laboratory Director (k)	2	-	2	-	-	-	-	-	-
Mich.	Coordinating Microbiologist	1	-	1	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-	-	-
Mo.	Assistant Laboratory Director	1	-	-	-	-	-	1	-	-
Mont.	-	-	-	-	-	-	-	-	-	-
Nebr.	Laboratory Scientist IV	-	-	-	-	-	-	-	-	-
Nev.	Assistant Laboratory Director	1	-	-	-	-	-	-	1	-
N.H.	-	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*	*	*
N.C.	Assistant Laboratory Director	1	-	-	-	-	1	-	-	-
N.D.	Assistant Laboratory Director	1	-	-	-	-	-	-	1	-
Ohio	Assistant Laboratory Director	1	-	-	-	1	-	-	-	-
Okla.	Acting Assistant Chief, Lab Services	-	-	-	-	-	-	-	-	-
Ore.	Assistant Laboratory Director	1	-	-	-	-	1	-	-	-
Pa.	*	*	*	*	*	*	*	*	*	*
R.I.	Deputy Chief	1	-	-	-	-	-	-	1	-
S.C.	Assistant for Planning & Administration	1	-	-	-	1	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*	*
Tenn.	Assistant Laboratory Director	1	-	-	-	-	1	-	-	-
Tex.	Assistant Laboratory Director	1	-	-	-	1	-	-	-	-
Utah	Deputy Director	1	-	-	-	1	-	-	-	-
Vt.	Microbiologist C	1	-	-	-	-	1	-	-	-
Va.	Assistant Laboratory Director	1	-	-	-	-	-	-	1	-
Wash.	Physician III	1	1	-	-	-	-	-	-	-
W.Va.	Assistant Laboratory Director	2	-	-	-	-	1	1	-	-
Wis.	Assistant Laboratory Director	1	-	1	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-	-
P.R.	Assistant Laboratory Director	1	1	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-	-

TABLE 2-15. HIGHEST DEGREE HELD BY MICROBIOLOGIST V EMPLOYEES

Corresponding State Title	No. of Filled Positions	PhD		Dr	MS-		BS-		None
		MD	ScD	DVM	PH	MA	MPH	BA	
Ala. Microbiologist V	3 (h)	-	-	-	-	1	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-
Cal. *	*	*	*	*	*	*	*	*	*
Colo. Chief Microbiologist	1	-	-	-	-	-	-	1	-
Conn. Supervising Microbiologist	3	-	-	-	-	-	-	3	-
Del.	-	-	-	-	-	-	-	-	-
D.C. Division Chief	1	-	1	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-	-
Hawaii Microbiologist V	3	-	-	-	-	-	-	3	-
Ida.	-	-	-	-	-	-	-	-	-
Ill. Microbiologist V	2	-	-	-	-	-	2	-	-
Ind.	-	-	-	-	-	-	-	-	-
Ia. Principal Microbiologist	1	-	1	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	-
Ky. Director, Microbiology Section	1	-	-	-	1	-	-	-	-
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md. Laboratory Scientist V	3	-	2	-	-	-	-	1	-
Mass. Chief of Laboratory	4	-	1	-	-	-	-	2	1
Mich.	-	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J. Chief Bacteriologist	1	-	-	-	-	-	-	1	-
N.M. *	*	*	*	*	*	*	*	*	*
N.Y. *	*	*	*	*	*	*	*	*	*
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Okla. Chief Virologist	-	-	-	-	-	-	-	-	-
Ore. Microbiologist V	1	-	-	-	-	1	-	-	-
Pa. *	*	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D. *	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah Microbiologist 25	1	-	-	-	-	-	-	1	-
Vt.	-	-	-	-	-	-	-	-	-
Va. *	*	*	*	*	*	*	*	*	*
Wash. Microbiologist V	2	-	-	-	-	-	2	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc. Microbiologist V	1	-	-	-	-	-	1	-	-
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R. Medical Technologist V	12	-	-	-	-	-	-	12	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 2-16. HIGHEST DEGREE HELD BY MICROBIOLOGIST IV EMPLOYEES

Corresponding State Title		No. of Filled Positions	MD	PhD ScD	DVM	Dr PH	MS-MA	MPH	BS-BA	None
Ala.	Microbiologist IV	5 (h)	-	-	-	-	1	-	-	-
Alaska	Microbiologist IV	3	-	-	-	-	-	-	3	-
Ariz.	Microbiologist IV	2	-	-	-	-	1	-	1	-
Ark.	Microbiologist IV	1	-	-	-	-	1	-	-	-
Cal.	*	*	*	*	*	*	*	*	*	*
Colo.	Supervising Microbiologist	-	-	-	-	-	-	-	-	-
Conn.	Principal Microbiologist	10	-	-	-	-	3	-	7	-
Del.	-	-	-	-	-	-	-	-	-	-
D.C.	Section Chief	4	-	-	-	-	3	-	1	-
Fla.	Microbiologist IV	7	-	-	-	-	1	2	3	1
Ga.	Laboratory Scientist IV	13	-	1	-	-	5	3	4	-
Hawaii	Microbiologist IV	4	-	-	-	-	-	-	4	-
Ida.	-	-	-	-	-	-	-	-	-	-
Ill.	Microbiologist IV	11	-	-	-	-	2	1	8	-
Ind.	Bacteriologist IV, Virologist IV	2	-	-	-	-	1	-	1	-
Ia.	Associate Bacteriologist	1	-	-	-	-	-	-	1	-
Kans.	-	-	-	-	-	-	-	-	-	-
Ky.	Microbiologist IV	1	-	-	-	-	-	-	1	-
La.	P.H. Laboratory Technologist IV	4	-	-	-	-	3	-	1	-
Me.	Microbiologist Supervisor	1	-	-	-	-	1	-	-	-
Md.	Laboratory Scientist IV	16	-	-	-	-	3	-	13	-
Mass.	Senior Bacteriologist	8	-	-	-	-	-	-	7	1
Mich.	Bacteriologist 12	1	-	-	-	-	-	-	1	-
Minn.	Chief Bacteriologist	4	-	2	-	1	-	-	1	-
Miss.	-	-	-	-	-	-	-	-	-	-
Mo.	Microbiologist IV	5	-	-	-	-	-	1	2	2
Mont.	-	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-	-
N.J.	Principal Bacteriologist	1	-	-	-	-	-	-	1	-
N.M.	*	*	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*	*	*
N.C.	-	-	-	-	-	-	-	-	-	-
N.D.	Microbiologist IV	1	-	-	-	-	-	1	-	-
Ohio	-	-	-	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-	-	-	-
Ore.	Microbiologist IV	1	-	-	-	-	1	-	-	-
Pa.	*	*	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-
Tex.	Supervisor	4	-	1	1	-	1	-	1	-
Utah	Microbiologist 23	-	-	-	-	-	-	-	-	-
Vt.	Microbiologist B	2	-	-	-	-	-	-	2	-
Va.	*	*	*	*	*	*	*	*	*	*
Wash.	Microbiologist IV	5	-	-	-	-	3	-	2	-
W.Va.	-	-	-	-	-	-	-	-	-	-
Wisc.	Microbiologist IV	8	-	-	-	-	3	1	4	-
Wyo.	-	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-	-
P.R.	Medical Technologist IV	-	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-	-

TABLE 2-17. HIGHEST DEGREE HELD BY MICROBIOLOGIST III EMPLOYEES

Corresponding State	Title	No. of Filled Positions	PhD			Dr		MS-		BS-		None
			MD	ScD	DVM	PH	MA	MPH	BA			
Ala.	Microbiologist III	21	-	-	-	-	2	-	19	-	-	
Alaska	Microbiologist III	3	-	-	-	-	-	-	3	-	-	
Ariz.	Microbiologist III	6	-	-	-	-	-	-	6	-	-	
Ark.	Microbiologist III	5	-	-	-	-	1	-	3	1	-	
Cal.	*	*	*	*	*	*	*	*	*	*	*	
Colo.	Senior Microbiologist	8	-	-	-	-	2	-	6	-	-	
Conn.	Senior Microbiologist	15	-	-	-	-	-	-	12	3	-	
Del.	Microbiologist III	1	-	-	-	-	1	-	-	-	-	
D.C.	*	*	*	*	*	*	*	*	*	*	*	
Fla.	Microbiologist III	7	-	-	-	-	4	1	2	-	-	
Ga.	Laboratory Scientist III	15	-	-	-	-	1	-	14	-	-	
Hawaii	Microbiologist III	7	-	-	-	-	-	1	6	-	-	
Ida.	Microbiologist III	9	-	-	-	-	1	-	8	-	-	
Ill.	Microbiologist III	11	-	-	-	-	-	-	11	-	-	
Ind.	Bacteriologist III	8	-	-	-	-	-	4	4	-	-	
Ia.	Senior Bacteriologist	7	-	-	-	-	1	-	6	-	-	
Kans.	Microbiologist III	3	-	-	-	-	2	-	1	-	-	
Ky.	Microbiologist III	8	-	-	-	-	-	-	5	3	-	
La.	P.H. Laboratory Technologist III	15	-	-	-	-	-	-	13	2	-	
Me.	-	-	-	-	-	-	-	-	-	-	-	
Md.	Laboratory Scientist III	9	-	-	-	-	-	-	9	-	-	
Mass.	-	-	-	-	-	-	-	-	-	-	-	
Mich.	Bacteriologist II	13	-	-	-	-	2	2	9	-	-	
Minn.	Senior Bacteriologist	4	-	-	-	-	-	-	4	-	-	
Miss.	Laboratory Technologist III	2	-	-	-	-	-	-	2	-	-	
Mo.	Microbiologist III	4	-	-	-	-	-	1	-	3	-	
Mont.	Microbiologist III	1	-	-	-	-	-	-	1	-	-	
Nebr.	Laboratory Scientist III	2	-	-	-	-	-	1	1	-	-	
Nev.	Microbiologist I	2	-	-	-	-	-	-	2	-	-	
N.H.	Medical Bacteriologist	1	-	-	-	-	1	-	-	-	-	
N.J.	Senior Bacteriologist	2	-	-	-	-	-	-	2	-	-	
N.M.	*	*	*	*	*	*	*	*	*	*	*	
N.Y.	*	*	*	*	*	*	*	*	*	*	*	
N.C.	Microbiologist III	3	-	-	-	-	-	2	1	-	-	
N.D.	Microbiologist III	2	-	-	-	-	-	-	2	-	-	
Ohio	Microbiologist III	12	-	-	-	-	-	1	9	2	-	
Okla.	Microbiologist IV	6	-	-	-	-	1	1	4	-	-	
Ore.	Microbiologist III	6	-	-	-	-	1	1	4	-	-	
Pa.	*	*	*	*	*	*	*	*	*	*	*	
R.I.	Principal P.H. Microbiologist	3	-	-	-	-	-	-	3	-	-	
S.C.	P.H. Scientist III	6	-	-	-	-	1	-	3	2	-	
S.D.	*	*	*	*	*	*	*	*	*	*	*	
Tenn.	Microbiologist III	14	-	-	-	-	7	1	6	-	-	
Tex.	Bacteriologist, Virologist, etc.	12	-	-	-	-	-	-	12	-	-	
Utah	Microbiologist 21	2	-	-	-	-	1	-	1	-	-	
Vt.	-	-	-	-	-	-	-	-	-	-	-	
Va.	*	*	*	*	*	*	*	*	*	*	*	
Wash.	Microbiologist III	11	1	-	-	-	3	-	7	-	-	
W.Va.	Microbiologist III	1	-	-	-	-	-	1	-	-	-	
Wisc.	Microbiologist III	11	-	-	-	-	1	-	9	1	-	
Wyo.	-	-	-	-	-	-	-	-	-	-	-	
Guam	Microbiologist III	1	-	-	-	-	-	-	1	-	-	
P.R.	Medical Technologist III	10	-	-	-	-	-	-	10	-	-	
V.I.	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2-18. HIGHEST DEGREE HELD BY MICROBIOLOGIST II EMPLOYEES

Corresponding State Title	No. of Filled Positions	PhD			Dr		MS-		BS-		None
		MD	ScD	DVM	PH	MA	MPH	BA			
Ala.	Microbiologist II	25	-	-	-	-	1	-	24	-	
Alaska	Microbiologist II	8	-	-	-	-	-	-	8	-	
Ariz.	Microbiologist II	3	-	-	-	-	-	-	3	-	
Ark.	Microbiologist II	4	-	-	-	-	1	-	2	1	
Cal.	*	*	*	*	*	*	*	*	*	*	
Colo.	Microbiologist	8	-	-	-	-	2	-	6	-	
Conn.	Microbiologist	7	-	2(1)	-	-	1	-	2	2	
Del.	Microbiologist II	1	-	-	-	-	-	-	1	-	
D.C.	*	*	*	*	*	*	*	*	*	*	
Fla.	Microbiologist	13	1	-	-	-	1	-	7	4	
Ga.	Laboratory Scientist II	24	-	-	-	-	3	-	21	-	
Hawaii	Microbiologist II	-	-	-	-	-	-	-	-	-	
Ida.	Microbiologist II	3	-	-	-	-	-	-	3	-	
Ill.	Microbiologist II	16	-	-	-	-	3	-	10	3	
Ind.	Bacteriologist II	2	-	-	-	-	-	-	1	1	
Ia.	-	-	-	-	-	-	-	-	-	-	
Kans.	Microbiologist II	7	-	-	-	-	1	-	6	-	
Ky.	Microbiologist II	9	-	-	-	-	-	-	9	-	
La.	P.H. Laboratory Technologist II	27	-	-	-	-	2	-	20	5	
Me.	-	-	-	-	-	-	-	-	-	-	
Md.	Laboratory Scientist II	20	-	-	-	-	-	-	20	-	
Mass.	Assistant Bacteriologist	8	-	1	-	-	1	-	5	1	
Mich.	Bacteriologist 09	29	1	1	-	-	3	1	23	-	
Minn.	Bacteriologist	24	-	-	-	-	1	-	23	-	
Miss.	Laboratory Technologist II	9	-	-	-	-	-	-	9	-	
Mo.	Microbiologist II	6	-	-	-	-	1	-	4	1	
Mont.	Microbiologist II	5	-	-	-	-	2	-	3	-	
Nebr.	Laboratory Scientist II	2	-	-	-	-	-	-	2	-	
Nev.	Serologist Bacteriologist II	1	-	-	-	-	-	-	1	-	
N.H.	Medical Laboratory Technician II	9	-	-	-	-	-	-	9	-	
N.J.	Bacteriologist	10	-	-	-	-	-	-	10	-	
N.M.	*	*	*	*	*	*	*	*	*	*	
N.Y.	*	*	*	*	*	*	*	*	*	*	
N.C.	Microbiologist II	8	-	-	-	-	-	3	5	-	
N.D.	Microbiologist II	2	-	-	-	-	-	-	2	-	
Ohio	Microbiologist II	14	-	-	1	-	1	1	10	1	
Okla.	Microbiologist III	8	-	-	-	-	-	-	8	-	
Ore.	Microbiologist II	20	-	-	-	-	-	-	20	-	
Pa.	*	*	*	*	*	*	*	*	*	*	
R.I.	Senior P.H. Microbiologist	7	-	1	-	-	-	1	4	1	
S.C.	P.H. Scientist II	6	-	-	-	-	1	-	4	1	
S.D.	*	*	*	*	*	*	*	*	*	*	
Tenn.	Microbiologist II	22	-	-	-	-	4	1	17	-	
Tex.	Bacteriologist, Virologist, etc.	12	-	1	-	-	-	-	11	-	
Utah	Microbiologist 19	1	-	-	-	-	-	-	1	-	
Vt.	Microbiologist A	8	-	-	-	-	-	-	8	-	
Va.	*	*	*	*	*	*	*	*	*	*	
Wash.	Microbiologist II	4	-	-	-	-	-	-	4	-	
W.Va.	Microbiologist II	2	-	-	-	-	-	1	1	-	
Wisc.	Microbiologist II	7	-	-	-	-	-	-	7	-	
Wyo.	Microbiologist II	1	-	-	-	-	1	-	-	-	
Guam	-	-	-	-	-	-	-	-	-	-	
P.R.	Medical Technologist II	6	-	-	-	-	-	-	6	-	
V.I.	-	-	-	-	-	-	-	-	-	-	



TABLE 2-19. HIGHEST DEGREE HELD BY MICROBIOLOGIST I EMPLOYEES

Corresponding State Title		No. of Filled Positions	MD	PhD ScD	DVM	Dr PH	MS-MA	MPH	BS-BA	None
Ala.	Microbiologist I	33	-	-	-	-	-	-	33	-
Alaska	Microbiologist I	-	-	-	-	-	-	-	-	-
Ariz.	Microbiologist I	4	-	-	-	-	2	-	2	-
Ark.	Microbiologist I	13	-	-	-	-	2	-	8	3
Cal.	*	*	*	*	*	*	*	*	*	*
Colo.	Junior Microbiologist	4	-	-	-	-	-	-	4	-
Conn.	Microbiologist Trainee	6	-	-	-	-	-	-	6	-
Del.	Microbiologist I	5	2	-	-	-	-	-	3	-
D.C.	*	*	*	*	*	*	*	*	*	*
Fla.	Microbiologist I	21	-	-	-	-	1	-	15	5
Ga.	Laboratory Scientist I	8	-	-	-	-	-	-	8	-
Hawaii	-	-	-	-	-	-	-	-	-	-
Ida.	Microbiologist I	4	-	-	-	-	-	-	2	2
Ill.	Microbiologist I	2	-	-	-	-	-	-	2	-
Ind.	Bacteriologist I, Serologist I	9	-	-	-	-	-	-	9	-
Ia.	-	-	-	-	-	-	-	-	-	-
Kans.	Microbiologist I	11	-	-	-	-	-	-	11	-
Ky.	Microbiologist I	3	-	-	-	-	-	-	2	1
La.	P.H. Laboratory Technologist I	14	-	-	-	-	2	-	5	7
Me.	Microbiology Aide	3	-	-	-	-	-	-	3	-
Md.	Laboratory Scientist I	7	-	-	-	-	-	-	7	-
Mass.	Junior Bacteriologist	21	-	-	-	-	-	-	18	3
Mich.	Microbiologist Trainee 07	2	-	-	-	-	1	-	1	-
Minn.	-	-	-	-	-	-	-	-	-	-
Miss.	Laboratory Technologist I	6	-	-	-	-	-	-	6	-
Mo.	Microbiologist I	9	-	-	-	-	-	-	6	3
Mont.	-	-	-	-	-	-	-	-	-	-
Nebr.	Laboratory Scientist I	5	-	1	-	-	-	-	4	-
Nev.	Serologist Bacteriologist I	4	-	-	-	-	-	-	4	-
N.H.	Medical Laboratory Technician I	3	-	-	-	-	-	-	3	-
N.J.	Bacteriologist Trainee	6	-	-	-	-	-	-	6	-
N.M.	*	*	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*	*	*
N.C.	Microbiologist I	7	-	-	-	-	2	-	3	2
N.D.	Microbiologist I	3	-	-	-	-	-	-	3	-
Ohio	Microbiologist I	10	-	-	-	-	-	-	9	1
Okla.	Microbiologist II	11	-	-	-	-	-	1	9	1
Ore.	Microbiologist I	-	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*	*
R.I.	P.H. Microbiologist	3	-	-	-	-	-	-	1	2
S.C.	P.H. Scientist I	10	-	-	-	-	1	-	7	2
S.D.	*	*	*	*	*	*	*	*	*	*
Tenn.	Microbiologist I	41	-	-	-	-	-	-	41	-
Tex.	Bacteriologist, Virologist, etc.	18	-	-	-	-	-	-	18	-
Utah	Microbiologist 17	6	-	-	-	-	1	-	5	-
Vt.	-	-	-	-	-	-	-	-	-	-
Va.	*	*	*	*	*	*	*	*	*	*
Wash.	Microbiologist I	1	-	-	-	-	-	-	1	-
W.Va.	Microbiologist I	9	-	-	-	-	-	-	9	-
Wisc.	Microbiologist I	11	-	-	-	-	3	-	8	-
Wyo.	Bacteriologist-Serologist I	1	-	-	-	-	-	-	1	-
Guam	-	-	-	-	-	-	-	-	-	-
P.R.	Medical Technologist I	9	-	-	-	-	-	-	9	-
V.I.	Microbiologist I	1	-	-	-	-	1	-	-	-

TABLE 2-20. HIGHEST DEGREE HELD BY CHEMIST V EMPLOYEES

Corresponding State Title	No. of Filled Positions	PhD			Dr		MS-		BS-	
		MD	ScD	DVM	PH	MA	MPH	BA	None	
Ala.	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*	*
Colo.	Chief Chemist	1	-	-	-	-	-	-	1	-
Conn.	Supervising Chemist	3	-	-	-	-	1	-	2	-
Del.	-	-	-	-	-	-	-	-	-	-
D.C.	Division Chief	1	-	1	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-	-	-	-
Hawaii	Chemist V	1	-	-	-	-	1	-	-	-
Ida.	Chemist V	2	-	-	-	-	2	-	-	-
Ill.	Chemist V	-	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-	-	-
Ia.	Associate Chemist	5	-	-	-	-	1	-	4	-
Kans.	-	-	-	-	-	-	-	-	-	-
Ky.	Director, Chemistry Section	1	-	-	-	-	1	-	-	-
La.	-	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-	-
Md.	Laboratory Scientist V	-	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-	-
N.J.	Chief Chemist	1	-	-	-	-	1	-	-	-
N.M.	*	*	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*	*	*
N.C.	-	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-	-
Utah	Chemist 25	2	-	-	-	-	1	-	1	-
Vt.	-	-	-	-	-	-	-	-	-	-
Va.	*	*	*	*	*	*	*	*	*	*
Wash.	-	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-	-

TABLE 2-21. HIGHEST DEGREE HELD BY CHEMIST IV EMPLOYEES

Corresponding State Title	No. of Filled Positions	PhD		Dr	MS-	BS-		None
		MD	ScD	PH	MA	MPH	BA	
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	Chemist IV	1	1	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*
Colo.	Supervising Chemist	-	-	-	-	-	-	-
Conn.	Principal Chemist	4	-	-	-	-	4	-
Del.	-	-	-	-	-	-	-	-
D.C.	Section Chief	3	1	-	-	-	2	-
Fla.	Chemist IV	3	-	-	1	2	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	Chemist IV	4	-	-	-	-	4	-
Ida.	-	-	-	-	-	-	-	-
Ill.	Chemist IV	2	1	-	1	-	-	-
Ind.	Chemist IV	3	-	-	-	2	1	-
Ia.	Senior Chemist	7	1	-	2	-	4	-
Kans.	-	-	-	-	-	-	-	-
Ky.	Assistant Director, Chemistry Section	1	1	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	Laboratory Scientist IV	7	1	-	-	-	6	-
Mass.	Senior Chemist	2	-	-	-	-	2	-
Mich.	Chemist 13	3	-	-	-	-	3	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	Chemist IV	1	-	-	-	-	1	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-
N.J.	Principal Chemist	1	-	-	-	-	1	-
N.M.	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	Laboratory Supervisor	2	-	-	-	-	2	-
Okla.	Chief Toxicologist	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	Supervisor	1	-	-	-	-	1	-
Utah	Chemist 23	2	-	-	-	-	2	-
Vt.	Chemist B	1	-	-	-	-	1	-
Va.	*	*	*	*	*	*	*	*
Wash.	Assistant, Project Director	1	1	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-
Wisc.	Chemist IV	1	-	-	-	-	1	-
Wyo.	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-
P.R.	Chemist IV	2	-	-	1	-	1	-
V.I.	-	-	-	-	-	-	-	-

TABLE 2-22. HIGHEST DEGREE HELD BY CHEMIST III EMPLOYEES

Corresponding State Title	No. of Filled Positions	PhD								
		MD	ScD	DVM	Dr PH	MS-MA	MPH	BS-BA	None	
Ala.	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-
Ariz.	Chemist III	3	-	-	-	-	-	-	3	-
Ark.	-	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*	*
Colo.	Senior Chemist	2	-	-	-	-	1	-	1	-
Conn.	Senior Chemist	9	-	-	-	-	2	-	7	-
Del.	-	-	-	-	-	-	-	-	-	-
D.C.	*	*	*	*	*	*	*	*	*	*
Fla.	Chemist III	4	-	-	-	1	-	-	3	-
Ga.	-	-	-	-	-	-	-	-	-	-
Hawaii	Chemist III	4	-	-	-	-	-	-	4	-
Ida.	-	-	-	-	-	-	-	-	-	-
Ill.	Chemist III	2	-	-	-	-	1	-	1	-
Ind.	Chemist III	2	-	-	-	-	-	-	2	-
Ia.	Junior Chemist	2	-	-	-	-	-	-	2	-
Kans.	Chemist III	2	-	1	-	-	1	-	-	-
Ky.	-	-	-	-	-	-	-	-	-	-
La.	Chemist III	1	-	-	-	-	-	-	1	-
Me.	Chemist III	2	-	-	-	-	-	-	2	-
Md.	Laboratory Scientist III	10	-	1	-	-	-	-	9	-
Mass.	-	-	-	-	-	-	-	-	-	-
Mich.	Chemist II	4	-	-	-	-	-	-	4	-
Minn.	-	-	-	-	-	-	-	-	-	-
Miss.	Chemist III	1	-	-	-	-	1	-	-	-
Mo.	Chemist III	1	-	-	-	-	-	-	1	-
Mont.	-	-	-	-	-	-	-	-	-	-
Nebr.	Laboratory Scientist III	1	-	-	-	-	1	-	-	-
Nev.	-	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-	-
N.J.	Senior Chemist	5	-	-	-	-	5	-	-	-
N.M.	*	*	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*	*	*
N.C.	-	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-	-
Ohio	Chemist III	1	-	-	-	-	1	-	-	-
Okla.	Principal Chemist	1	-	-	-	-	1	-	-	-
Ore.	-	-	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-
Tex.	Chemist III	5	-	-	-	-	-	1	4	-
Utah	Chemist 21	1	-	-	-	-	-	-	1	-
Vt.	-	-	-	-	-	-	-	-	-	-
Va.	*	*	*	*	*	*	*	*	*	*
Wash.	Chemist III	1	-	-	-	-	-	-	1	-
W.Va.	Chemist III	1	-	-	-	-	-	-	1	-
Wisc.	Chemist III	3	-	-	-	-	1	-	2	-
Wyo.	-	-	-	-	-	-	-	-	-	-
Guam	Chemist III	1	-	-	-	-	-	-	1	-
P.R.	Chemist III	3	-	-	-	-	-	-	3	-
V.I.	-	-	-	-	-	-	-	-	-	-

TABLE 2-23. HIGHEST DEGREE HELD BY CHEMIST II EMPLOYEES

Corresponding State Title	No. of Filled Positions	PhD			Dr		MS-		BS-	
		MD	ScD	DVM	PH	MA	MPH	BA	None	
Ala.	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-
Ariz.	Chemist II	1	-	-	-	-	-	-	1	-
Ark.	-	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*	*
Colo.	Public Health Chemist	12	-	1	-	-	3	-	8	-
Conn.	Chemist	14	-	1	-	-	2	-	10	1
Del.	-	-	-	-	-	-	-	-	-	-
D.C.	*	*	*	*	*	*	*	*	*	*
Fla.	Chemist II	9	-	-	-	-	-	-	9	-
Ga.	-	-	-	-	-	-	-	-	-	-
Hawaii	Chemist II	1	-	-	-	-	-	-	1	-
Ida.	Chemist II	1	-	-	-	-	-	-	1	-
Ill.	Chemist II	8	-	2	-	-	3	-	3	-
Ind.	Chemist II	3	-	-	-	-	-	-	3	-
Ia.	-	-	-	-	-	-	-	-	-	-
Kans.	Chemist II	5	-	-	-	-	-	-	5	-
Ky.	Senior Chemist	3	-	-	-	-	-	-	3	-
La.	Chemist II	8	-	-	-	-	-	-	8	-
Me.	Chemist II	6	-	-	-	-	1	-	5	-
Md.	Laboratory Scientist II	12	-	-	-	-	-	-	12	-
Mass.	Assistant Chemist	6	-	-	-	-	-	-	5	1
Mich.	Chemist 09	4	-	-	-	-	1	-	3	-
Minn.	Chemist II	1	-	-	-	-	-	-	1	-
Miss.	Chemist II	3	-	-	-	-	1	-	2	-
Mo.	Chemist II	2	-	-	-	-	-	-	2	-
Mont.	Chemist II	3	-	-	-	-	-	-	3	-
Nebr.	Laboratory Scientist II	3	-	-	-	-	1	-	2	-
Nev.	Chemist II	1	-	-	-	-	-	-	1	-
N.H.	-	-	-	-	-	-	-	-	-	-
N.J.	Chemist	9	-	-	-	-	-	-	9	-
N.M.	*	*	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*	*	*
N.C.	Chemical Analyst II	2	-	-	-	-	-	-	2	-
N.D.	Chemist II	1	-	-	-	-	-	-	1	-
Ohio	Chemist II	7	-	-	-	-	-	-	6	1
Okla.	Chemist	1	-	-	-	-	-	-	1	-
Ore.	-	-	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*	*
R.I.	Chemist II	2	-	-	-	-	2	-	-	-
S.C.	P.H. Scientist II	3	-	-	-	-	2	-	1	-
S.D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-
Tex.	Chemist II	8	-	-	-	-	-	-	8	-
Utah	Chemist 19	6	-	-	-	-	1	-	5	-
Vt.	Chemist A	3	-	1	-	-	-	-	2	-
Va.	*	*	*	*	*	*	*	*	*	*
Wash.	Chemist II	3	-	-	-	-	-	-	3	-
W.Va.	Chemist II	1	-	-	-	-	-	-	1	-
Wisc.	Chemist II	3	-	-	-	-	1	-	2	-
Wyo.	Chemist II	1	-	-	-	-	1	-	-	-
Guam	-	-	-	-	-	-	-	-	-	-
P.R.	Chemist II	6	-	-	-	-	-	-	6	-
V.I.	-	-	-	-	-	-	-	-	-	-

TABLE 2-24. HIGHEST DEGREE HELD BY CHEMIST I EMPLOYEES

Corresponding State Title	No. of Filled Positions	No. of Employees with Degree								
		MD	PhD ScD	DVM	Dr PH	MS-MA	MPH	BS-BA	None	
Ala.	-	-	-	-	-	-	-	-	-	
Alaska	Chemist I	1	-	-	-	-	-	1	-	
Ariz.	-	-	-	-	-	-	-	-	-	
Ark.	-	-	-	-	-	-	-	-	-	
Cal.	*	*	*	*	*	*	*	*	*	
Colo.	Junior Chemist	3	-	-	-	-	-	3	-	
Conn.	Chemist Trainee	6	-	-	-	-	-	6	-	
Del.	-	-	-	-	-	-	-	-	-	
D.C.	*	*	*	*	*	*	*	*	*	
Fla.	Chemist I	3	-	-	-	-	-	3	-	
Ga.	-	-	-	-	-	-	-	-	-	
Hawaii	-	-	-	-	-	-	-	-	-	
Ida.	Chemist I	5	-	-	-	-	-	5	-	
Ill.	Chemist I	3	-	-	-	-	1	2	-	
Ind.	Chemist I	3	-	-	-	-	-	3	-	
Ia.	-	-	-	-	-	-	-	-	-	
Kans.	Chemist I	6	-	-	-	-	-	6	-	
Ky.	Chemist	1	-	-	-	-	-	1	-	
La.	Chemist I	1	-	-	-	-	-	1	-	
Me.	Chemist I	3	-	-	-	-	-	3	-	
Md.	Laboratory Scientist I	5	-	-	-	-	-	5	-	
Mass.	Junior Chemist	5	-	-	-	-	1	2	2	
Mich.	Chemist Trainee 07	1	-	-	-	-	-	1	-	
Minn.	Chemist I	-	-	-	-	-	-	-	-	
Miss.	-	-	-	-	-	-	-	-	-	
Mo.	-	-	-	-	-	-	-	-	-	
Mont.	Chemist I	1	-	-	-	-	-	1	-	
Nebr.	Laboratory Scientist I	3	-	-	-	-	1	2	-	
Nev.	Chemist I	2	-	-	-	-	-	2	-	
N.H.	-	-	-	-	-	-	-	-	-	
N.J.	Chemist Trainee	3	-	-	-	-	-	3	-	
N.M.	*	*	*	*	*	*	*	*	*	
N.Y.	*	*	*	*	*	*	*	*	*	
N.C.	Chemical Analyst I	4	-	-	-	-	-	2	2	
N.D.	Chemist I	1	-	-	-	-	-	1	-	
Ohio	Chemist I	5	-	-	-	-	-	4	1	
Okla.	Assistant Chemist	1	-	-	-	-	-	1	-	
Ore.	-	-	-	-	-	-	-	-	-	
Pa.	*	*	*	*	*	*	*	*	*	
R.I.	Chemist I	4	-	-	-	-	1	3	-	
S.C.	P.H. Scientist I	6	-	-	-	-	-	6	-	
S.D.	*	*	*	*	*	*	*	*	*	
Tenn.	-	-	-	-	-	-	-	-	-	
Tex.	Chemist I	8	-	-	-	-	-	8	-	
Utah	Chemist 17	3	-	-	-	-	-	3	-	
Vt.	-	-	-	-	-	-	-	-	-	
Va.	*	*	*	*	*	*	*	*	*	
Wash.	Chemist I	1	-	-	-	-	-	1	-	
W.Va.	Chemist I	2	-	-	-	-	-	2	-	
Wisc.	Chemist I	2	-	-	-	-	-	2	-	
Wyo.	-	-	-	-	-	-	-	-	-	
Guam	-	-	-	-	-	-	-	-	-	
P.R.	-	-	-	-	-	-	-	-	-	
V.I.	-	-	-	-	-	-	-	-	-	

TABLE 2-25. HIGHEST DEGREE HELD BY OTHER PROFESSIONAL EMPLOYEES

State	Title	No. of Filled Positions	MD		PhD		Dr		MS-		BS-	
			(Path)	MD	ScD	DVM	PH	MA	MPH	BA	None	
Ala.	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	-	-	-	-	-
Conn.	Chief Toxicologist	1	-	-	1	-	-	-	-	-	-	-
	Chief Virologist	1	-	-	1	-	-	-	-	-	-	-
	Supervising Serologist	1	-	-	-	-	-	1	-	-	-	-
	Research Microbiologist	2	-	-	2	-	-	-	-	-	-	-
	Principal Serologist	1	-	-	-	-	-	-	-	-	1	-
	Senior Serologist	2	-	-	-	-	-	-	-	-	2	-
	Dairy Technologist	1	-	-	-	-	-	-	-	-	1	-
	Toxicologist	1	-	-	1	-	-	-	-	-	-	-
	Chief Analytical Chemist	1	-	-	-	-	-	-	-	-	1	-
	Clinical Chemist	1	-	-	-	-	-	-	-	-	1	-
	Biochemist	1	-	-	-	-	-	1	-	-	-	-
	Toxicological Chemist	7	-	-	-	-	-	1	-	-	4	2
	Assistant Biochemist	5	-	-	1(m)	-	-	-	-	-	3	1
	Medical Laboratory Examiner	3	-	-	-	-	-	2	-	-	1	-
	Medical Technologist II	1	-	-	-	-	-	-	-	-	1	-
	Medical Technologist I	1	-	-	-	-	-	-	-	-	1	-
Del.	-	-	-	-	-	-	-	-	-	-	-	-
D.C.	Division Chief, Accreditation	1	-	1	-	-	-	-	-	-	-	-
	Division Chief, Serology	1	-	-	-	-	-	1	-	-	-	-
	Consultant, Pathology	1	-	1	-	-	-	-	-	-	-	-
	Serology Section Chief	3	-	-	-	-	-	-	-	-	2	1
	Medical Technologist	4	-	-	-	-	-	-	-	-	4	-
Fla.	Laboratory Manager (Health)	2	-	-	1	-	-	1	-	-	-	-
	Health Program Specialist II	1	-	-	-	-	-	-	-	-	1	-
Ga.	Supervisor, Lab. Diagnostic Services	1	-	-	-	-	-	1	-	-	-	-
	Supervisor, Lab. Staff Services	1	-	-	-	-	-	-	-	-	1	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Ida.	Supervising Drug Analyst	1	-	-	-	-	-	-	-	-	1	-
Ill.	Microbiologist VI	2	-	-	-	-	-	1	-	-	1	-
	Chief Toxicologist	1	-	-	1	-	-	-	-	-	-	-
	Biochemist II	1	-	-	1	-	-	-	-	-	-	-
	P.H. Laboratory Evaluator	2	-	-	-	-	-	-	-	1	1	-
Ind.	Division Director	3	-	-	-	-	-	3	-	-	-	-
	P.H. Trainee	1	-	-	-	-	-	-	-	-	1	-
	Microanalyst	2	-	-	-	-	-	-	-	-	2	-
Ia.	Asst. Director & Prin. Microbiologist	1	-	-	1	-	-	-	-	-	-	-
	Asst. Director & Prin. Virologist	1	-	-	-	-	-	1	-	-	-	-
	Associate Serologist	2	-	-	1	-	-	-	-	-	-	-
	Senior Serologist	1	-	-	-	-	-	-	-	-	1	-
	Associate Virologist	1	-	-	-	-	-	1	-	-	-	-
	Junior Virologist	1	-	-	-	-	-	-	-	-	1	-
	Laboratory Consultant	2	-	-	-	-	-	-	-	-	1	1
	Health Physicist	1	-	-	-	-	-	-	-	-	1	-
	Research Microbiologist	1	-	-	-	-	-	1	-	-	-	-
	Limnologist	1	-	-	-	-	-	1	-	-	-	-
	Statistician	1	-	-	-	-	-	-	-	-	1	-
Kans.	Laboratory Certification Supervisor	1	-	-	-	-	-	-	-	1	-	-
Ky.	-	-	-	-	-	-	-	-	-	-	-	-
La.	P.H. Physician I	1	-	1	-	-	-	-	-	-	-	-
	Part Time Pathologist	1	-	1	-	-	-	-	-	-	-	-
	Cytotechnologist II	1	-	-	-	-	-	-	-	-	1	-
Me.	Laboratory Consultant	1	-	-	-	-	-	1	-	-	-	-

TABLE 2-25. HIGHEST DEGREE HELD BY OTHER PROFESSIONAL EMPLOYEES  
(Continued)

State	Title	No. of Filled Positions	MD	PhD	Dr	MS-	BS-	None
			(Path)	MD	ScD	DVM	PH	
Md.	Physician V	1	1	-	-	-	-	-
	Laboratory Scientist VI (Micro.)	1	-	-	1	-	-	-
	Laboratory Scientist VI (Chemist)	2	-	-	2	-	-	-
	Laboratory Scientist II (Cytotech.)	5	-	-	-	-	-	5
	Lab. Scientist I & III (Cytotech.)	-	-	-	-	-	-	-
Mass.	Laboratory Director, Biologic Labs.	1	-	1	-	-	-	-
	Encephalitis, Program Supervisor	1	-	-	-	-	1	-
	Supervisor Virus Vaccine Production	1	-	-	-	-	-	1
Mich.	Coordinating Physician	1	-	1	-	-	-	-
	Medical Laboratory Supervisor 10	1	-	-	-	-	1	-
	Medical Laboratory Supervisor 09	2	-	-	-	1	-	1
	P.H. Laboratory Scientist 19	2	-	-	1	-	-	-
	P.H. Laboratory Scientist 17	2	-	-	2	-	-	-
	P.H. Laboratory Scientist 16	1	-	-	1	-	-	-
	P.H. Laboratory Scientist 15	8	-	-	7	1	-	-
	P.H. Laboratory Scientist 13	4	-	-	4	-	-	-
	Crime Laboratory Scientist 17	1	-	-	1	-	-	-
	Crime Laboratory Scientist 15	1	-	-	1	-	-	-
	Crime Laboratory Scientist 11	6	-	-	1	-	1	4
	Crime Laboratory Analyst 09	11	-	-	-	-	1	10
	Crime Laboratory Trainee 07	7	-	-	-	-	3	4
	P.H. Laboratory Engineer 16	1	-	-	-	-	-	1
	Virologist 15	1	-	-	1	-	-	-
	Virologist 11	3	-	-	-	-	-	3
	Virologist 09	2	-	-	-	-	1	1
	Biochemist 14	1	-	-	1	-	-	-
	Biochemist 13	5	-	-	5	-	-	-
	Biochemist 11	5	-	-	1	-	-	4
	Biochemist 09	1	-	-	1	-	-	-
	P.H. Administrator 13	1	-	-	-	-	1	-
	Veterinary Pathologist 13	1	-	-	-	1	-	-
	Veterinary Pathologist Technician 11	1	-	-	-	1	-	-
	Mechanical Engineer 12	1	-	-	-	-	-	1
	Serologist 12	1	-	-	-	-	-	1
	Serologist 11	1	-	-	-	-	-	1
	Environmental Sanitarian 11	1	-	-	-	-	1	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	Chief, Chemistry Laboratory Bureau	1	-	-	-	-	-	1
	Chief, Microbiology Lab. Bureau	-	-	-	-	-	-	-
	Virologist I	1	-	-	-	-	-	1
	Medical Technologist I	1	-	-	-	-	-	1
Nebr.	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-
N.H.	Laboratory Technician	1	-	-	-	-	-	1
N.J.	Health Rep. Trainee	1	-	-	-	-	-	1
	Principal Medical Technologist	3	-	-	-	-	2	1
	Senior Medical Technologist	1	-	-	-	-	1	-
	Research Scientist II	2	-	-	2	-	-	-
	Medical Technologist	2	-	-	-	-	-	2
	Chief Serologist	1	-	-	-	-	-	1
	Senior Serologist	1	-	-	-	-	-	1
	Serologist	1	-	-	-	-	-	1
	Serologist, Trainee	1	-	-	-	-	1	-
N.M.	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*



TABLE 2-25. HIGHEST DEGREE HELD BY OTHER PROFESSIONAL EMPLOYEES  
(Continued)

State	Title	No. of Filled Positions	MD	PhD	Dr	MS-	BS-	None		
			(Path)	MD	ScD	DVM	PH	MA	MPH	BA
N.C.	P.H. Administrator	1	-	-	-	-	-	1	-	-
	Laboratory Cert. Evaluators	3	-	-	-	-	1	1	1	-
	Medical Laboratory Supervisor II	1	-	-	-	-	-	-	1	-
	Analytical Chemist II	1	-	-	1	-	-	-	-	-
	Medical Laboratory Technologist I	12	-	-	-	-	-	-	3	9
	Medical Laboratory Technologist II	28	-	1	-	-	-	-	17	10
	Medical Laboratory Technologist III	4	-	-	-	-	-	-	4	-
N.D.	-	-	-	-	-	-	-	-	-	-
Ohio	Public Health Scientist	1	-	-	-	-	-	-	1	-
	Executive IV	2	-	-	-	-	1	-	-	1
Okla.	Virologist	1	-	-	-	-	-	-	1	-
Ore.	-	-	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*	*
R.I.	Sanitary Technician	1	-	-	-	-	-	-	1	-
	Principal Toxicologist	1	-	-	-	-	-	-	1	-
	Senior Toxicologist	3	-	-	-	-	-	-	3	-
	Toxicologist	6	-	-	-	-	1	-	5	-
S.C.	Division Director	2	-	-	1	-	1	-	-	-
	Laboratory Technologist III	2	-	-	-	-	-	-	2	-
	Laboratory Technologist II	4	-	-	-	-	-	-	4	-
	Laboratory Technologist I	4	-	-	-	-	-	-	2	2
S.D.	*	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-	-
Tex.	Laboratory Consultant	1	-	-	-	-	-	-	1	-
Utah	Health Services Coordinator	1	-	-	-	-	-	-	1	-
	Chief, Microbiology Section (27)	1	-	-	-	-	1	-	-	-
	Microbiologist 15 (Trainee)	1	-	-	-	-	-	-	1	-
	Chief, Chemistry Section (29)	1	-	-	1	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-	-	-
Va.	*	*	*	*	*	*	*	*	*	*
Wash.	Research Analysis V	1	-	-	-	-	-	-	1	-
	Medical Technologist II	1	-	-	-	-	-	-	1	-
	Sanitarian I	1	-	-	-	-	-	-	1	-
W.Va.	-	-	-	-	-	-	-	-	-	-
Wisc.	Medical Technologist II	1	-	-	-	-	-	-	1	-
	Cytotechnologist 3	2	-	-	-	-	-	-	1	1
	Cytotechnologist 2	3	-	1	-	-	-	-	-	2
	Cytotechnologist 1	3	-	-	-	-	-	-	-	3
Wyo.	Medical Technologist	1	-	-	-	-	-	-	1	-
Guam	Medical Technologist II	2	-	-	-	-	-	-	2	-
	Cytotechnologist	1	-	-	-	-	-	-	1	-
P.R.	Medical Technologist VI	2	-	-	-	-	-	-	2	-
	Spectrographist	1	-	-	1	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-	-

TABLE 2-26. EDUCATIONAL LEVELS OF LABORATORY TECHNICIAN II EMPLOYEES

	Corresponding State Title	No. of Filled Positions	MS-MA, MPH	BS-BA	None
Ala.	Laboratory Technician II	4	-	-	4
Alaska	-	-	-	-	-
Ariz.	Laboratory Technician II	2	-	-	2
Ark.	Laboratory Technician II	5	-	1	4
Cal.	*	*	*	*	*
Colo.	-	-	-	-	-
Conn.	Laboratory Assistant II	10	-	-	10
Del.	Laboratory Technician II	2	-	-	2
D.C.	*	*	*	*	*
Fla.	Laboratory Technician II	22	-	4	18
Ga.	Laboratory Technician II	15	-	1	14
Hawaii	Laboratory Assistant IV	1	-	-	1
Ida.	Assistant Microbiologist II	7	-	-	7
Ill.	Laboratory Technician II	7	-	-	7
Ind.	Laboratory Technician II	9	-	-	9
Ia.	Laboratory Technician V	2	-	-	2
Kans.	Laboratory Technician II	5	-	-	5
Ky.	Senior Laboratory Assistant	2	-	-	2
La.	Laboratory Technical Assistant II	4	-	-	4
Me.	Laboratory Technician II	2	-	-	2
Md.	-	-	-	-	-
Mass.	Supervising Laboratory Technologist	5	-	-	5
Mich.	Laboratory Technician 05	17	-	-	17
Minn.	Medical Laboratory Technician	10	-	-	10
Miss.	Laboratory Technician	3	-	1	2
Mo.	-	-	-	-	-
Mont.	Laboratory Technician II	2	-	-	2
Nebr.	Laboratory Technician III	-	-	-	-
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	Laboratory Technician	16	-	2	14
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	Laboratory Technician	3	-	-	3
N.D.	Laboratory Technician II	3	-	-	3
Ohio	Laboratory Technician II	3	-	-	3
Okla.	Microbiologist I	5	1	2	2
Ore.	*	*	*	*	*
Pa.	*	*	*	*	*
R.I.	Laboratory Technician II	1	-	-	1
S.C.	Laboratory Technician II	15	1	2	12
S.D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	Laboratory Technician II	5	-	1	4
Utah	Laboratory Technician II	2	-	-	2
Vt.	-	-	-	-	-
Va.	*	*	*	*	*
Wash.	Laboratory Technician II	-	-	-	-
W.Va.	Laboratory Assistant III	5	-	5	-
Wisc.	Laboratory Technician II	11	-	-	11
Wyo.	-	-	-	-	-
Guam	Laboratory Technician II	1	-	1	-
P.R.	-	-	-	-	-
V.I.	Medical Technologist III	4	-	1	3

TABLE 2-27. EDUCATIONAL LEVELS OF LABORATORY TECHNICIAN I EMPLOYEES

Corresponding State Title		No. of Filled Positions	MS-MA	BS-BA	None
Ala.	Laboratory Technician I	14	-	-	14
Alaska	Laboratory Assistant II	4	-	-	4
Ariz.	Laboratory Technician I	2	-	-	2
Ark.	Laboratory Technician I	3	-	-	3
Cal.	*	*	*	*	*
Colo.	Laboratory Technician I	2	-	-	2
Conn.	Laboratory Assistant I	8	-	1	7
Del.	Laboratory Technician I	2	-	-	2
D.C.	*	*	*	*	*
Fla.	Laboratory Technician I	22	-	2	20
Ga.	Laboratory Technician I	1	-	-	1
Hawaii	Laboratory Assistant III	5	-	-	5
Ida.	Assistant Microbiologist I	2	-	-	2
Ill.	Laboratory Technician I	7	-	1	6
Ind.	Laboratory Technician I	7	-	-	7
Ia.	Laboratory Technician IV	5	-	-	5
Kans.	Laboratory Technician I	9	-	1	8
Ky.	Laboratory Assistant	6	-	-	6
La.	Laboratory Technical Assistant I	6	-	-	6
Me.	Laboratory Technician I	1	-	-	1
Md.	-	-	-	-	-
Mass.	Laboratory Technician	20	-	1	19
Mich.	Laboratory Technician 03	29	-	-	29
Minn.	-	-	-	-	-
Miss.	Scientific Aide	5	-	1	4
Mo.	-	-	-	-	-
Mont.	Laboratory Technician I	2	-	-	2
Nebr.	Laboratory Technician II	2	-	-	2
Nev.	Laboratory Technician I	3	-	-	3
N.H.	-	-	-	-	-
N.J.	Laboratory Technician Trainee	4	-	2	2
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	Medical Laboratory Assistant	5	-	-	5
N.D.	Laboratory Technician I	3	-	-	3
Ohio	Laboratory Technician I	9	-	1	8
Okla.	-	-	-	-	-
Ore.	*	*	*	*	*
Pa.	*	*	*	*	*
R.I.	Laboratory Technician I	7	-	-	7
S.C.	Laboratory Technician I	2	-	-	2
S.D.	*	*	*	*	*
Tenn.	Microbiologist Aide	*	*	*	*
Tex.	Laboratory Technician I	5	-	-	5
Utah	Laboratory Technician 09	3	-	-	3
Vt.	Laboratory Technician	2	-	-	2
Va.	*	*	*	*	*
Wash.	Laboratory Technician I	5	1	1	3
W.Va.	-	-	-	-	-
Wisc.	Laboratory Technician I	14	-	-	14
Wyo.	Laboratory Technician I	2	-	-	2
Guam	-	-	-	-	-
P.R.	Microscopist	*	-	-	*
V.I.	Medical Technologist II	1	-	-	1

TABLE 2-28. EDUCATIONAL LEVELS OF OTHER LABORATORY TECHNICIAN EMPLOYEES

	Corresponding State Title	No. of Filled Positions	MD	BS-BA	None
Ala.	Laboratory Technician III	6	-	-	6
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	-	-	-	-	-
Conn.	Laboratory Trainee	3	-	-	3
Del.	Laboratory Technician III	3	-	-	3
D.C.	*	*	*	*	*
Fla.	-	-	-	-	-
Ga.	Laboratory Technician III	5	-	-	5
Hawaii	-	-	-	-	-
Ida.	Assistant Microbiologist III	1	-	-	1
Ill.	-	-	-	-	-
Ind.	-	-	-	-	-
Ia.	Laboratory Technician VII & VIII	13	-	-	13
Kans.	-	-	-	-	-
Ky.	-	-	-	-	-
La.	Laboratory Technical Assistant III	4	-	-	4
Me.	Laboratory Technician III	4	-	-	4
Md.	-	-	-	-	-
Mass.	-	-	-	-	-
Mich.	Laboratory Technician 07, Medical Laboratory Technician 07	12	1	3	8
Minn.	-	-	-	-	-
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	-	-	-	-	-
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	Senior Laboratory Technician, Principal Laboratory Technician, Supervising Laboratory Technician	15	-	1	14
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	-	-	-	-	-
N.D.	Laboratory Technician III	1	-	-	1
Ohio	Laboratory Technologist	8	-	4	4
Okla.	Medical Technician I	1	-	-	1
Ore.	*	*	*	*	*
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	Laboratory Technician III	6	-	-	6
S.D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	Laboratory Technician 13	8	-	1	7
Vt.	-	-	-	-	-
Va.	*	*	*	*	*
Wash.	Laboratory Technician III	2	-	1	1
W.Va.	-	-	-	-	-
Wisc.	Laboratory Technician III & IV	6	-	-	6
Wyo.	-	-	-	-	-
Guam	Laboratory Technician III	4	-	3	1
P.R.	-	-	-	-	-
V.I.	Medical Technologist IV	-	-	-	-

TABLE 2-29. EDUCATIONAL LEVELS OF LABORATORY AIDES

	Corresponding State Title	No. of Filled Positions	BS-BA	None
Ala.	Laboratory Aide I & II	36	-	36
Alaska	Laboratory Assistant I	2	-	2
Ariz.	Laboratory Assistant I & II	12	-	12
Ark.	Laboratory Aide I	8	-	8
Cal.	*	*	*	*
Colo.	Laboratory Aide I & II	20	5	15
Conn.	Laboratory Helper, Senior Laboratory Helper	25	-	25
Del.	Laboratory Aide I	4	-	4
D.C.	*	*	*	*
Fla.	Biological Laboratory Aide I, Laboratory Helper	28	1	27
Ga.	Laboratory Aide I & II	37	-	37
Hawaii	Laboratory Assistant I & II	2	-	2
Ida.	Laboratory Helper	2	-	2
Ill.	Laboratory Helper	5	-	5
Ind.	-	-	-	-
Ia.	Laboratory Attendant V & VIII	2	-	2
Kans.	-	-	-	-
Ky.	Laboratory Aide, Senior Laboratory Aide	10	-	10
La.	Custodial Worker I & II	14	-	14
Me.	Laboratory Aide I	5	-	5
Md.	Laboratory Assistant I, II, & III	79	-	79
Mass.	Laboratory Assistant	34	-	34
Mich.	Laboratory Aide 05, Laboratory Aide Supervisor 07, 08	14	-	14
Minn.	Custodial Worker I & II	15	-	15
Miss.	Laboratory Helper, Laboratory Attendant	10	-	10
Mo.	Laboratory Helper, Laboratory Assistant	7	-	7
Mont.	Laboratory Helper I & II	2	-	2
Nebr.	Laboratory Technician I, Laboratory Aide	4	-	4
Nev.	Laboratory Aide I	2	-	2
N.H.	Laboratory Worker	1	-	1
N.J.	Laboratory Service Worker, Laboratory Assistant	13	-	13
N.M.	*	*	*	*
N.Y.	*	*	*	*
N.C.	Laboratory Helper & Lead Laboratory Helper	10	-	10
N.D.	Laboratory Aide I & II	3	-	3
Ohio	Laboratory Aide I	2	-	2
Okla.	Laboratory Helper	6	-	6
Ore.	*	*	*	*
Pa.	*	*	*	*
R.I.	Laboratory Aide II	8	-	8
S.C.	Laboratory Aide, Laboratory Assistant	14	1	13
S.D.	*	*	*	*
Tenn.	Laboratory Aide	10	-	10
Tex.	Laboratory Aide I & II	5	-	5
Utah	Laboratory Assistant 05 & 06	7	-	7
Vt.	Laboratory Helper & Laboratory Assistant	3	-	3
Va.	*	*	*	*
Wash.	Laboratory Helper I	5	-	5
W.Va.	Laboratory Assistant I & II	9	-	9
Wisc.	-	-	-	-
Wyo.	Laboratory Aide II	1	-	1
Guam	Laboratory Aide II	1	-	1
P.R.	Laboratory Aide	3	-	3
V.I.	Laboratory Aide II	1	-	1

TABLE 2-30. EDUCATIONAL LEVELS OF OTHER TECHNICAL AND SUPPORTIVE SERVICES EMPLOYEES

	State Title	No. of Filled Positions	BS-BA	None
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	Motor Equipment Operators	2	-	2
	Maintainer IV	1	-	1
	Material Storage Manager	1	-	1
	Supervisor of Scientific Supportive Services	1	-	1
	Asst. Supv. of Scientific Supportive Services	2	-	2
Del.	-	-	-	-
D.C.	*	*	*	*
Fla.	Laboratory Technologist I	15	2	13
	Laboratory Technologist II	1	-	1
	Alcohol Breath Testing Inspectors	5	-	5
Ga.	-	-	-	-
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	Laboratory Assistant III	6	-	6
	Laboratory Assistant IV	2	-	2
	Laboratory Assistant V	5	-	5
Kans.	-	-	-	-
Ky.	-	-	-	-
La.	-	-	-	-
Me.	Chemist Assistant	1	-	1
	Animal Medical Tech.	1	-	1
	X-ray Technician	2	-	2
Md.	-	-	-	-
Mass.	Institutional Domestic Aid	11	-	11
	Animal Room Attendant	1	-	1
Mich.	Student Assistant 05	1	-	1
	Laboratory Products Packer 03	6	-	6
	Laboratory Apprentice 01	12	-	12
	Laborer 03	4	-	4
Minn.	Bacteriologist Aide	5	-	5
	Laboratory Services Supervisor	1	-	1
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	*	*	*	*
N.Y.	*	*	*	*
N.C.	Laboratory Animal Technician I & III	4	-	4
N.D.	-	-	-	-
Ohio	-	-	-	-
Okla.	-	-	-	-
Ore.	*	*	*	*
Pa.	*	*	*	*
R.I.	Laborer	1	-	1
S.C.	-	-	-	-
S.D.	*	*	*	*
Tenn.	-	-	-	-
Tex.	Laboratory Worker	2	-	2

TABLE 2-30. EDUCATIONAL LEVELS OF OTHER TECHNICAL AND SUPPORTIVE SERVICES EMPLOYEES  
(Continued)

	State Title	No. of Filled Positions	BS-BA	None
Utah	Storekeeper 09 (n)	1	-	1
Vt.	-	-	-	-
Va.	*	*	*	*
Wash.	Laboratory Assistant I	4	-	4
	Laboratory Animal Keeper	1	-	1
	Maintenance Worker	1	-	1
	Supply Officer I	1	-	1
W.Va.	-	-	-	-
Wisc.	-	-	-	-
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 2-31. SUMMARY OF LENGTH OF LABORATORY EXPERIENCE FOR ALL POSITIONS EXCEPT CLERICAL

	No. of Filled Positions	Less Than One Year	1-4 Years	5-9 Years	10-14 Years	15 Years and Over
Ala.	149	13	40	44	19	33
Alaska	22	1	8	2	5	6
Ariz.	38	8	14	9	3	4
Ark.	40 (o)	7	23	3	1	4
Cal.	*	*	*	*	*	*
Colo.	62	12	25	11	6	8
Conn.	164 (o)	11	39	33	15	33
Del.	19 (o)	1	8	1	1	4
D.C.	*	*	*	*	*	*
Fla.	165	9	39	23	19	75
Ga.	123	10	43	15	7	48
Hawaii	33	3	13	5	1	11
Ida.	39	5	13	9	4	8
Ill.	84	7	20	14	11	32
Ind.	56	6	7	6	7	30
Ia.	73	6	19	15	10	23
Kans.	50 (o)	6	17	9	6	11
Ky.	48	4	15	11	11	7
La.	104	5	17	18	13	51
Me.	34 (o)	3	12	2	1	13
Md.	179 (o)	7	97	31	22	20
Mass.	131	*	*	*	*	*
Mich.	227	30	51	42	35	69
Minn.	65	7	17	14	10	17
Miss.	40	1	3	8	6	22
Mo.	37	6	10	10	2	9
Mont.	20	1	5	5	3	6
Nebr.	23	-	13	7	1	2
Nev.	17	1	8	6	-	2
N.H.	16	2	3	-	8	3
N.J.	101 (o)	30	19	15	3	15
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	98	9	34	22	11	22
N.D.	22 (o)	-	4	4	3	7
Ohio	78	18	20	18	13	9
Okla.	42	6	8	7	2	19
Ore.	30	4	3	2	10	11
Pa.	*	*	*	*	*	*
R.I.	49	9	14	8	6	12
S.C.	82	11	32	26	5	8
S.D.	*	*	*	*	*	*
Tenn.	*	5 (o)	24 (o)	13 (o)	9 (o)	25 (o)
Tex.	88	10	31	14	16	17
Utah	51 (o)	8	14	11	2	15
Vt.	21 (o)	-	3	2	3	5
Va.	*	*	*	*	*	*
Wash.	53 (o)	4	14	14	12	8
W.Va.	33 (o)	2	15	3	1	10
Wisc.	89	30	25	20	8	6
Wyo.	8 (o)	1	-	1	-	1
Guam	12	*	*	*	*	*
P.R.	*	5 (o)	25 (o)	5 (o)	6 (o)	10 (o)
V.I.	8	-	3	-	-	5



TABLE 2-32. LENGTH OF LABORATORY EXPERIENCE OF LABORATORY DIRECTORS

	No. of Filled Positions	Less Than One Year	1-4 Years	5-9 Years	10-14 Years	15 Years and Over
Ala.	1	-	-	-	-	1
Alaska	1	-	-	-	-	1
Ariz.	1	-	-	-	-	1
Ark.	1	-	1	-	-	-
Cal.	*	*	*	*	*	*
Colo.	1	-	-	-	-	1
Conn.	1	-	-	-	-	1
Del.	1	-	-	-	-	1
D.C.	1	-	-	-	-	1
Fla.	1	-	-	-	-	1
Ga.	1	-	-	-	-	1
Hawaii	1	-	-	-	-	1
Ida.	1	-	-	-	-	1
Ill.	1	-	-	-	-	1
Ind.	1	-	-	-	-	1
Ia.	1	-	-	-	1	-
Kans.	1	-	-	-	-	1
Ky.	1	-	-	-	1	-
La.	1	-	-	-	-	1
Me.	1	-	-	-	-	1
Md.	1	-	-	1	-	-
Masa.	1	*	*	*	*	*
Mich.	1	-	-	1	-	-
Minn.	1	-	-	-	-	1
Miss.	1	-	-	-	-	1
Mo.	1	-	-	-	-	1
Mont.	1	-	-	-	-	1
Nebr.	1	-	-	-	-	1
Nev.	1	-	-	-	-	1
N.H.	1	-	-	-	-	1
N.J.	1	*	*	*	*	*
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	1	-	-	-	-	1
N.D.	1	-	-	-	-	1
Ohio	1	-	-	-	-	1
Okla.	1	-	-	-	-	1
Ore.	1	-	-	-	-	1
Pa.	*	*	*	*	*	*
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.	1	*	*	*	*	*
Guam	1	*	*	*	*	*
P.R.	1	*	*	*	*	*
V.I.	1	-	-	-	-	1

TABLE 2-33. LENGTH OF LABORATORY EXPERIENCE OF ASSISTANT LABORATORY DIRECTORS

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

TABLE 2-34. LENGTH OF LABORATORY EXPERIENCE OF ALL MICROBIOLOGISTS AND SIMILAR POSITIONS

	No. of Filled Positions	Less Than One Year	1-4 Years	5-9 Years	10-14 Years	15 Years and Over
Ala.	87	9	23	34	7	14
Alaska	14	-	3	2	4	5
Ariz.	15	3	3	5	2	2
Ark.	23	3	12	3	1	4
Cal.	*	*	*	*	*	*
Colo.	21	4	8	4	1	4
Conn.	51	3	15	10	8	15
Del.	7	1	4	-	1	1
D.C.	*	*	*	*	*	*
Fla.	48	-	10	2	7	29
Ga.	60	4	21	9	3	23
Hawaii	14	-	6	3	-	5
Ida.	16	-	6	6	1	3
Ill.	44	2	10	4	6	22
Ind.	22	3	2	2	5	10
Ia.	15	-	4	3	3	5
Kans.	21	-	9	4	3	5
Ky.	22	2	8	2	6	4
La.	60	1	10	10	8	31
Me.	4	1	2	1	-	-
Md.	61	3	33	5	7	13
Mass.	41	*	*	*	*	*
Mich.	73	9	11	11	15	27
Minn.	32	4	7	7	2	12
Miss.	17	-	1	3	2	11
Mo.	24	5	7	7	1	4
Mont.	8	-	1	2	2	3
Nebr.	9	-	7	-	1	1
Nev.	7	-	6	1	-	-
N.H.	14	1	3	-	8	2
N.J.	32 (o)	6	9	7	1	5
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	63	8	23	13	7	12
N.D.	8 (o)	-	-	1	-	5
Ohio	36	7	12	8	4	5
Okla.	26	1	5	4	2	14
Ore.	28	4	3	2	10	9
Pa.	*	*	*	*	*	*
R.I.	13	-	3	2	1	7
S.C.	32	1	7	19	-	5
S.D.	*	*	*	*	*	*
Tenn.	77 (o)	5	20	13	6	22
Tex.	46	10	7	6	15	8
Utah	12	1	3	2	1	5
Vt.	10 (o)	-	-	1	-	1
Va.	*	*	*	*	*	*
Wash.	25	2	6	5	7	5
W.Va.	12 (o)	-	7	-	1	3
Wisc.	47	15	14	11	2	5
Wyo.	3	*	*	*	*	*
Guam	4	*	*	*	*	*
P.R.	39	4	17	2	6	10
V.I.	1	-	1	-	-	-

TABLE 2-35. LENGTH OF LABORATORY EXPERIENCE OF ALL CHEMISTS AND SIMILAR POSITIONS

	No. of Filled Positions	Less Than One Year	1-4 Years	5-9 Years	10-14 Years	15 Years and Over
Ala.	-	-	-	-	-	-
Alaska	1	-	-	-	1	-
Ariz.	5	-	3	1	1	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	18	-	6	6	3	3
Conn.	53	7	16	12	6	12
Del.	-	-	-	-	-	-
D.C.	*	*	*	*	*	*
Fla.	19	1	6	6	2	4
Ga.	-	-	-	-	-	-
Hawaii	10	2	5	1	-	2
Ida.	9	3	5	1	-	-
Ill.	17	3	8	4	1	1
Ind.	13	2	2	4	2	3
Ia.	14	1	4	-	3	6
Kans.	13	2	4	4	-	3
Ky.	6	-	3	1	1	1
La.	10	1	1	1	2	5
Me.	11	2	7	-	-	2
Md.	34	1	14	12	3	4
Mass.	13	*	*	*	*	*
Mich.	50	12	14	9	4	11
Minn.	1	-	-	-	1	-
Miss.	4	-	-	1	1	2
Mo.	4	-	2	1	-	1
Mont.	4	1	1	2	-	-
Nebr.	7	-	4	3	-	-
Nev.	3	-	2	1	-	-
N.H.	-	-	-	-	-	-
N.J.	19 (o)	3	1	1	-	4
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	7	-	6	1	-	-
N.D.	2	-	1	1	-	-
Ohio	15	5	3	5	1	1
Okla.	3	-	2	-	-	1
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	6	2	2	1	1	-
S.C.	9	-	4	5	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	22	-	13	3	-	6
Utah	15	3	-	6	-	6
Vt.	4	-	1	1	1	1
Va.	*	*	*	*	*	*
Wash.	7	1	1	3	2	-
W.Va.	4 (o)	-	1	1	-	1
Wisc.	9	3	1	4	1	-
Wyo.	1	*	*	*	*	*
Guam	1	*	*	*	*	*
P.R.	12	1	8	3	-	-
V.I.	-	-	-	-	-	-

TABLE 2-36. LENGTH OF LABORATORY EXPERIENCE OF ALL LABORATORY TECHNICIANS AND SIMILAR POSITIONS

	No. of Filled Positions	Less Than One Year	1-4 Years	5-9 Years	10-14 Years	15 Years and Over
Ala.	24	-	2	5	8	9
Alaska	4	1	3	-	-	-
Ariz.	4	1	1	1	-	1
Ark.	8 (o)	-	6	-	-	-
Cal.	*	*	*	*	*	*
Colo.	2	-	-	-	2	-
Conn.	21 (o)	1	3	7	1	2
Del.	7 (o)	-	2	-	-	1
D.C.	*	*	*	*	*	*
Fla.	65	3	16	10	9	27
Ga.	21	1	10	5	1	4
Hawaii	6	-	2	1	1	2
Ida.	10	-	2	2	3	3
Ill.	14	2	1	4	2	5
Ind.	16	1	3	-	-	12
Ia.	20	-	6	6	-	8
Kans.	14 (o)	4	4	1	3	1
Ky.	8	-	1	4	2	1
La.	14	3	2	1	1	7
Me.	9 (o)	-	1	1	-	5
Md.	-	-	-	-	-	-
Mass.	25	*	*	*	*	*
Mich.	58	5	8	12	10	23
Minn.	16	2	5	3	2	4
Miss.	8	1	1	1	1	4
Mo.	-	-	-	-	-	-
Mont.	4	-	1	1	1	1
Nebr.	2	-	-	2	-	-
Nev.	3	-	-	3	-	-
N.H.	-	-	-	-	-	-
N.J.	35 (o)	9	8	7	2	6
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	8	1	3	3	-	1
N.D.	7 (o)	-	2	-	2	-
Ohio	20	5	4	4	7	-
Okla.	6	1	1	2	-	2
Ore.	*	*	*	*	*	*
Pa.	*	*	*	*	*	*
R.I.	8	1	3	3	1	-
S.C.	23	9	5	4	3	2
S.D.	*	*	*	*	*	*
Tenn.	* (o)	-	-	1	1	-
Tex.	10	-	7	2	1	-
Utah	13	2	7	2	1	1
Vt.	2	-	1	-	-	1
Va.	*	*	*	*	*	*
Wash.	11	1	5	2	1	2
W.Va.	5	2	3	-	-	-
Wisc.	31	12	9	4	5	1
Wyo.	2	1	-	-	-	1
Guam	5	*	*	*	*	*
P.R.	*	*	*	*	*	*
V.I.	5	-	2	-	-	3

TABLE 2-37. LENGTH OF LABORATORY EXPERIENCE OF ALL LABORATORY AIDES AND SIMILAR POSITIONS

	No. of Filled Positions	Less Than One Year	1-4 Years	5-9 Years	10-14 Years	15 Years and Over
Ala.	36	4	15	4	4	9
Alaska	2	-	2	-	-	-
Ariz.	12	4	7	1	-	-
Ark.	8	4	4	-	-	-
Cal.	*	*	*	*	*	*
Colo.	20	8	11	1	-	-
Conn.	25 (o)	-	4	2	-	-
Del.	4	-	2	1	-	1
D.C.	*	*	*	*	*	*
Fla.	28	5	7	5	1	10
Ga.	37	5	12	1	3	16
Hawaii	2	1	-	-	-	1
Ida.	2	2	-	-	-	-
Ill.	5	-	1	1	1	2
Ind.	-	-	-	-	-	-
Ia.	15	4	4	5	1	1
Kans.	-	-	-	-	-	-
Ky.	10	2	3	4	1	-
La.	14	-	2	6	1	5
Me.	5 (o)	-	2	-	1	1
Md.	79	2	50	13	12	2
Mass.	46	*	*	*	*	*
Mich.	37	4	16	8	4	5
Minn.	15	1	5	4	5	-
Miss.	10	-	1	3	2	4
Mo.	7	1	1	2	1	2
Mont.	2	-	2	-	-	-
Nebr.	4	-	2	2	-	-
Nev.	2	1	-	1	-	-
N.H.	1	1	-	-	-	-
N.J.	13 (o)	12	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	14	-	2	4	3	5
N.D.	3	-	1	1	1	-
Ohio	2	1	1	-	-	-
Okla.	6	4	-	1	-	1
Ore.	*	*	*	*	*	*
Pa.	*	*	*	*	*	*
R.I.	9	1	4	1	2	1
S.C.	14	-	4	7	2	1
S.D.	*	*	*	*	*	*
Tenn.	10 (o)	-	4	-	3	1
Tex.	7	-	4	2	-	1
Utah	7	2	4	1	-	-
Vt.	3	-	1	-	2	-
Va.	*	*	*	*	*	*
Wash.	8 (o)	-	2	3	2	-
W.Va.	9	-	3	2	-	4
Wisc.	-	-	-	-	-	-
Wyo.	1	-	-	1	-	-
Guam	1	*	*	*	*	*
P.R.	3	*	*	*	*	*
V.I.	1	-	-	-	-	1

TABLE 2-38. LENGTH OF LABORATORY EXPERIENCE IN ALL OTHER POSITIONS

Position		No. of Filled Positions	Less Than One Year	1-4 Years	5-9 Years	10-14 Years	15 Years and Over
Conn.	Medical Laboratory Examiner	3	-	1	1	-	1
Fla.	Laboratory Manager - Health	2	-	-	-	-	2
	Health Program Specialist II	1	-	-	-	-	1
Ga.	Supv., Lab. Diagnostic Services	1	-	-	-	-	1
	Supv., Lab. Staff Services	1	-	-	-	-	1
Ill.	P.H. Laboratory Evaluator	2	-	-	1	1	-
Ind.	Division Directors	3	-	-	-	-	3
Ia.	Asst. Director & Prin. Microbiologist	1	-	-	1	-	-
	Asst. Director & Prin. Virologist	1	-	-	-	-	1
	Laboratory Consultant	2	-	-	-	1	1
	Health Physicist	1	-	-	-	1	-
	Limnologist	1	-	1	-	-	-
	Statistician	1	1	-	-	-	-
Kans.	Laboratory Cert. Supervisor	1	-	-	-	-	1
La.	P.H. Physician I	1	-	1	-	-	-
	Part Time Pathologist	1	-	1	-	-	-
	Cytotechnologist II	1	-	-	-	1	-
Me.	X-ray Technician	2	-	-	-	-	2
	Laboratory Consultant	1	-	-	-	-	1
Md.	Physician V	1	1	-	-	-	-
Mich.	Coordinating Physician	1	-	1	-	-	-
	P.H. Laboratory Engineer 16	1	-	-	-	-	1
	P.H. Administrator 13	1	-	-	-	-	1
	Veterinary Pathologist 13	1	-	1	-	-	-
	Veterinary Path. Tech. II	1	-	-	-	1	-
	Mechanical Engineer 12	1	-	-	-	1	-
	Environmental Sanitarian II	1	-	-	1	-	-
Mont.	Chief, Chemistry Laboratory Bureau	1	-	-	-	-	1
N.J.	Health Rep. Trainee	1	-	1	-	-	-
N.C.	P.H. Administrator I	1	-	-	1	-	-
	Laboratory Cert. Evaluators	3	-	-	-	1	2
Ohio	P.H. Scientist	1	-	-	-	-	1
	Executive IV	2	-	-	1	-	1
R.I.	San. Tech.	1	1	-	-	-	-
	Toxicologists	10	4	2	1	1	2
S.C.	Division Director	2	1	1	-	-	-
Tex.	Laboratory Consultant	1	-	-	-	-	1
Utah	Health Services Coordinator	1	-	-	-	-	1

TABLES 2-11 - 2-38. FOOTNOTES

- (a) Regular salary less jury pay.
- (b) 140 hours maximum if accumulated.
- (c) Employees hired prior to 1969 could elect to be covered by Divided System of Retirement and Social Security, or keep only Retirement System. Those hired after 1-1-69 came under Divided System. Divided System Employee pays 4%, which State is supposed to match. With Retirement only, employee pays 8%.
- (d) Employees are covered by one of two programs determined by annual salary. Iowa Public Employees Retirement System (IPERS) employees earning \$7,800 per year are required to participate. They contribute 3½% of first 7,000 of gross annual earnings; the University contributes a matching amount. TIAA-CREF - the employee contributes 3½% of first \$4,800, 5% of earnings over \$4,800. University contributes twice the amount of employee contribution.
- (e) Part-time employees are covered by Social Security.
- (f) Includes those employed as Microbiologist I or Chemist I and other positions having equivalent duties and all levels above.
- (g) Above B.S. and B.A.
- (h) Degree not shown for all.
- (i) Includes 2 Doctors of Pharmacy and 1 Doctor of Podiatry.
- (j) In addition, Laboratory has a consultant for Cytology one day per week.
- (k) One Assistant Laboratory Director is serving as Acting Director, Diagnostic Laboratories.
- (l) Doctor of Pharmacy and Doctor of Podiatry.
- (m) Doctor of Pharmacy.
- (n) Also serves as immediate supervisor, Central Services Section.
- (o) Length of Experience not shown for all employees.



**SECTION III**

**FACILITIES**

TABLE 3-1. SUMMARY OF NET SPACE ASSIGNMENTS IN  
CENTRAL AND BRANCH LABORATORIES COMBINED

	Professional and Technical (Sq. Ft.)	Laboratory Supportive Services (Sq. Ft.)	Administrative and Clerical (Sq. Ft.)	Total Net Space (Sq. Ft.) .
Ala.	16,704	11,856	5,159	33,719
Alaska	7,200	4,100	1,000	12,300
Ariz.	3,986	4,531	2,110	10,627
Ark.	5,284	4,162	1,424	10,870
Cal.	*	*	*	*
Colo.	6,480	2,645	1,565	10,690
Conn.	25,243	9,096	1,600	35,939
Del.	1,680	1,208	607	3,495
D.C.	10,680	1,820	1,904	14,404
Fla.	21,470	12,779	6,285	40,534
Ga.	13,506	9,446	7,040	29,992
Hawaii	6,180	2,760	1,680	10,620
Ida.	6,373	5,426	2,865	14,664
Ill.	19,662	15,918	7,524	43,104
Ind.	11,265	4,270	2,065	17,600
Ia.	13,785	6,930	3,228	23,943
Kans.	7,606	3,268	1,383	12,257
Ky.	14,673	4,533	1,196	20,402
La.	21,427	14,679	10,602	46,708
Me.	7,210	4,110	2,730	14,050
Md.	59,995 (a)	6,496	2,308	68,799
Mass.	*	*	*	*
Mich.	49,158	37,703	3,140	90,001
Minn.	5,500	8,700	4,000	18,200
Miss.	*	*	*	*
Mo.	4,459	2,549	1,076	8,084
Mont.	5,625	3,700	5,261	14,586
Nebr.	*	*	*	*
Nev.	2,024	1,890	350	4,264
N.H.	2,126	2,930	1,014	6,070
N.J.	11,979	13,001	4,600	29,580
N.M.	*	*	*	*
N.Y.	*	*	*	*
N.C.	10,497	9,614	4,346	24,457
N.D.	3,804	2,460	1,052	7,316
Ohio	18,393	12,778	7,729	38,900
Okla.	*	*	*	*
Ore.	13,370	3,410	3,440	20,220
Pa.	*	*	*	*
R.I.	7,220	1,850	2,450	11,520
S.C.	11,070 (b)	5,280 (b)	4,566 (b)	20,916 (b)
S.D.	* (c)	* (c)	* (c)	*
Tenn.	30,599	17,956	5,121	53,676
Tex.	20,195	9,600	7,239	37,034
Utah	5,271	2,580	929	8,780
Vt.	2,626	2,195	785	5,606
Va.	10,174	6,051	3,746	19,971
Wash.	8,614	5,248	4,300	18,162
W. Va.	5,950	7,618	3,510	17,078
Wisc.	13,520	6,088	833	20,441
Wyo.	1,222	619	670	2,511
Guam	1,131	411	316	1,858
P.R.	*	*	*	*
V.I.	868	354	260	1,482

TABLE 3-2. SUMMARY OF NET SPACE ASSIGNMENTS IN CENTRAL LABORATORIES

	Prof. & Technical Space		Supportive Services Space		Adm. & Clerical Space		Total Net Space Central Lab. (Sq. Ft.)
	No.Sq.Ft.	# Persons Assigned	No.Sq.Ft.	# Persons Assigned	No.Sq.Ft.	# Persons Assigned	
Ala.	8,619	*	4,895	*	2,312	*	15,826
Alaska	-	-	-	-	200	2	200
Ariz.	3,032	24	3,524	7	1,546	6	8,102
Ark.	5,284	24	4,162	14	1,424	10	10,870
Cal.	*	*	*	*	*	*	*
Colo.	6,480	58	2,645	6	1,565	8	10,690
Conn.	25,243	133	9,096	31	1,600	31	35,939
Del.	1,680	13	1,208	6	607	3	3,495
D.C.	10,680	48	1,820	4	1,904	10	14,404
Fla.	8,020	52	4,084	18	3,300	25	15,404
Ga.	9,496	55	6,451	20	6,170	-	22,117
Hawaii	6,180	25	2,760	8	1,680	6	10,620
Ida.	4,670	30	4,525	2	2,773	2	11,968
Ill.	13,373	58	8,028	18	5,446	13	26,847
Ind.	11,265	43	4,270	15	2,065	15	17,600
Ia.	9,777	42	6,336	15	2,823	21	18,936
Kans.	7,606	46	3,268	10	1,383	11	12,257
Ky.	14,482	28	4,488	13	1,196	10	20,166
La.	9,568	43	5,760	19	3,747	12	19,075
Me.	7,210	28	4,110	6	2,730	11	14,050
Md.	40,847	140	6,496	59	2,308	15	49,651
Mass.	*	*	*	*	*	*	*
Mich.	38,098	91	37,703	71	3,140	10	78,941
Minn.	5,500	46	8,700	18	4,000	17	18,200
Miss.	*	*	*	*	*	*	*
Mo.	4,459	30	2,549	9	1,076	10	8,084
Mont.	5,625	14	3,700	3	5,261	8	14,586
Nebr.	*	*	*	*	*	*	*
Nev.	1,974	*	1,340	4	350	2	3,664
N.H.	2,126	13	2,930	3	1,014	5	6,070
N.J.	*	*	*	*	*	*	*
N.M.	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*
N.C.	9,777	70	9,614	23	4,346	27	23,737
N.D.	2,706	11	840	3	380	2	3,926
Ohio	16,384	59	12,094	31	7,244	22	35,722
Okla.	*	*	*	*	*	*	*
Ore.	13,370	*	3,410	*	3,440	*	20,220
Pa.	*	*	*	*	*	*	*
R.I.	7,220	43	1,850	7	2,450	7	11,520
S.C.	11,070	46	5,280	14	4,566	21	20,916
S.D.	*	*	*	*	*	*	*
Tenn.	13,759	39	7,576	15	2,321	8	23,656
Tex.	20,195	80	9,600	30	7,239	28	37,034
Utah	5,271	36	2,580	7	929	9	8,780
Vt.	2,626	17	2,195	4	785	7	5,606
Va.	8,015	34	3,828	13	3,130	13	14,973
Wash.	6,114	22	3,998	10	3,050	11	13,162
W.Va.	5,950	27	7,618	14	3,510	10	17,078
Wisc.	13,520	101	6,088	37	833	10	20,441
Wyo.	1,222	7	619	2	670	5	2,511
Guam	879	9	411	3	316	2	1,606
P.R.	*	*	*	*	*	*	*
V.I.	468	4	204	1	260	1	932

TABLE 3-3. SUMMARY OF NET SPACE ASSIGNMENTS IN BRANCH LABORATORIES

	<u>Prof. &amp; Technical Space</u>		<u>Supportive Services Space</u>		<u>Adm. &amp; Clerical Space</u>		<u>Total Net Space</u> <u>Branch Labs.</u> (Sq. Ft.)
	No.Sq.Ft.	# Persons Assigned	No.Sq.Ft.	# Persons Assigned	No.Sq.Ft.	# Persons Assigned	
Ala.	8,085	*	6,961	*	2,847	*	17,893
Alaska	7,200	20	4,100	10	800	8	12,100
Ariz.	954	8	1,007	1	564	2	2,525
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	(d)	(d)	(d)	(d)	(d)	(d)	(d)
Conn.	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-
Fla.	13,450	64	8,695	26	2,985	13	25,130
Ga.	4,010	18	2,995	11	870	-	7,875
Hawaii	- (e)	-	-	-	-	-	-
Ida.	1,703	12	901	-	92	-	2,696
Ill.	6,289	24	7,890	11	2,078	11	16,257
Ind.	-	-	-	-	-	-	-
Ia.	4,008	13	594	1	405	3	5,007
Kans.	-	-	-	-	-	-	-
Ky.	191	4	45	2	-	-	236
La.	11,859	48	8,919	30	6,855	18	27,633
Me.	-	-	-	-	-	-	-
Md.	*	*	*	*	*	*	19,148
Mass.	*	*	*	*	*	*	*
Mich.	11,060	65	-	-	-	-	11,060
Minn.	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*
Nev.	50	2	550	1	-	-	600
N.H.	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*
N.M.	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*
N.C.	720	1	-	-	-	-	720
N.D.	1,098	8	1,620	4	672	4	3,390
Ohio	2,009	12	684	2	485	1	3,178
Okla.	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-
S.C.	*	*	*	*	*	*	*
S.D.	*	*	*	*	*	*	*
Tenn.	16,840	31	10,380	15	2,800	13	30,020
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	2,159	11	2,223	-	616	6	4,998
Wash.	2,500	9	1,250	-	1,250	6	5,000
W.Va.	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-
Guam	252	1	-	-	-	-	252
P.R.	*	*	*	*	*	*	*
V.I.	400	2	150	1	-	-	550

TABLE 3-4. NET SPACE ASSIGNED TO PROFESSIONAL AND TECHNICAL USE

	Diagnostic Bacteriology (Sq.Ft.)	Sanitary Bacteriology (Sq.Ft.)	Mycology (Sq.Ft.)	Parasitology (Sq.Ft.)	Virology (Sq.Ft.)	Serology (Sq.Ft.)	Hematology (Sq.Ft.)
Ala.	11,108(f)	-	117	306	780	1,759	-
Alaska	5,850	400	150	100	-	600	-
Ariz.	1,392	(g)	230	(g)	230	486	-
Ark.	800	1,150	300	144	800	580	200
Cal.	*	*	*	*	*	*	*
Colo.	1,335	397	(g)	(g)	540	450	-
Conn.	4,250	1,096	500	500	3,932	1,560	400
Del.	230	473	(g)	(g)	-	458	- (h)
D.C.	396	650	748	50	900	1,032	324
Fla.	4,435	2,340	470	1,085	1,795	2,495	170
Ga.	4,352	2,423	300	1,100	1,169	2,148	-
Hawaii	2,000	900	(g)	(g)	600	280	-
Ida.	1,796	525	(g)	(g)	402	123	-
Ill.	3,691	1,974	442	316	1,316	3,131	-
Ind.	2,159	768	418	247	1,123	1,300	-
Ia.	2,151	143	578	293	2,019	988	-
Kans.	1,297	966	(g)	165	1,098	449	-
Ky.	1,680	1,980	1,280	-	1,980	2,617	-
La.	4,889	5,192	353	1,423	1,352	2,496	-
Me.	1,180	700	(g)	-	1,250	500	-
Md.	8,549(b)	1,512(b)	120(b)	120(b)	4,098(b)	360(b)	300(b)
Mass.	*	*	*	*	*	*	*
Mich.	29,012	896	-	-	4,700	2,609	-
Minn.	1,200	-	200	200	1,700	1,400	-
Miss.	*	*	*	*	*	*	*
Mo.	1,122	652	-	-	578	918	-
Mont.	2,200	425	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*
Nev.	300	250	(g)	(g)	-	180	- (i)
N.H.	876	-	(g)	(g)	390	340	130
N.J.	*	*	*	*	*	*	*
N.M.	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*
N.C.	1,672	1,520	176	144	1,055	1,371	100
N.D.	570(j)	856	24	24	100	312	100
Ohio	3,877	880	440	220	3,500	1,824	-
Okla.	*	*	*	*	*	*	*
Ore.	2,730	2,730	2,730	2,730	650	600	-
Pa.	* <sup>7</sup>	*	*	*	*	*	*
R.I.	960	370	(g)	(g)	-	800	-
S.C.	2,310(b)	1,040(b)	786(b)	450(b)	1,562(b)	1,715(b)	220(b)
S.D.	*	*	*	*	*	*	*
Tenn.	14,111	2,023	120	1,380	755	6,200	-
Tex.	2,464	665	413	1,600	4,500	3,497	-
Utah	777	540	(g)	-	600	408	-
Vt.	701	165	50	50	360	360	-
Va.	2,946	1,854	231	333	1,364	1,578	175
Wash.	1,939	1,159	(g)	123	831	334	-
W.Va.	1,442	848	(g)	(g)	460	672	(g)
Wisc.	576	576	256	(k)	2,624	640	64
Wyo.	519	129	(g)	(g)	-	321(l)	-
Guam	305	53	-	125(m)	108	- (i)	252
P.R.	*	*	*	*	*	*	*
V.I.	868(n)	-	-	(n)	-	-	-

TABLE 3-4. NET SPACE ASSIGNED TO PROFESSIONAL AND TECHNICAL USE  
(Continued)

	Pathology (Sq. Ft.)	Clinical Chemistry (Sq. Ft.)	Sanitary Chemistry (Sq. Ft.)	Industrial Chemistry (Sq. Ft.)	Toxicology (Forensic) (Sq. Ft.)	Research (Sq. Ft.)	Other (Sq. Ft.)	Total Space - Professional and Technical (Sq. Ft.)
Ala.	126	825	687	-	-	646	350(o)	16,704
Alaska	-	-	100	-	-	-	-	7,200
Ariz.	-	-	1,072	396(p)	-	-	180	3,986
Ark.	-	600	-	-	-	-	710	5,284
Cal.	*	*	*	*	*	*	*	*
Colo.	-	-	1,205	(q)	342	(r)	2,211	6,480
Conn.	-	1,288	2,988	788	5,743	1,000	1,198	25,243
Del.	316	203	(s)	-	-	-	-	1,680
D.C.	808	1,185	1,777	2,360	450	-	-	10,680
Fla.	-	2,970	950	235	970	2,175	1,380(t)	21,470
Ga.	-	-	(s)	-	-	-	2,014(u)	13,506
Hawaii	-	-	1,900	-	500	-	-	6,180
Ida.	-	439	644	-	430	-	2,014	6,373
Ill.	-	-	680	840	1,130	150	5,992	19,662
Ind.	-	-	5,250	-	-	-	-	11,265
Ia.	-	369	3,012	1,838	631	-	1,763(v)	13,785
Kans.	-	(w)	1,430	202(x)	(w)	-	180(y)	7,606
Ky.	-	-	1,788	1,248	2,100	-	-	14,673
La.	516	3,957	(i)	(i)	(i)	-	1,249	21,427
Me.	-	-	1,500	-	1,600	-	480(z)	7,210
Md.	3,049(b)	3,591(b)	3,212(b)	1,757(b)	-	-	14,179(b)	40,847(b)
Mass.	*	*	*	*	*	*	*	*
Mich.	-	-	-	-	11,941	-	-	49,158
Minn.	-	200	-	-	-	600	-	5,500
Miss.	*	*	*	*	*	*	*	*
Mo.	-	1,057	(i)	(i)	(i)	-	132(aa)	4,459
Mont.	-	-	3,000	-	-	-	-	5,625
Nebr.	*	*	*	*	*	*	*	*
Nev.	-	150	500	-	-	144	500	2,024
N.H.	-	390	-	-	-	-	-	2,126
N.J.	*	*	*	*	*	*	*	11,979
N.M.	*	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*	*
N.C.	-	988	716	-	-	-	2,755(bb)	10,497
N.D.	100	120	692	870(cc)	-	-	36(dd)	3,804
Ohio	-	880	1,620	2,832	-	1,240(ee)	1,080(ff)	18,393
Okla.	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	1,200	13,370
Pa.	*	*	*	*	*	*	*	*
R.I.	-	550	890	-	2,100	800(p)	750(gg)	7,220
S.C.	-	220(b)	1,590(b)	625(b)	-	222(b)	330(o)	11,070(b)
S.D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	10	5,400	30,599
Tex.	-	480	3,504	1,680	-	-	1,392(hh)	20,195
Utah	-	-	840	220	722	520	644(tt)	5,271
Vt.	-	300	340	-	300	-	-	2,626
Va.	-	523	80	1,090	-	-	-	10,174
Wash.	-	262	928	269	-	269	2,500(p)	8,614
W.Va.	250	758	-	-	-	-	1,520(ii)	5,950
Wisc.	64	1,632	1,728	640	(i)	3,520	1,200	13,520
Wyo.	-	-	-	-	118	-	135	1,222
Guam	-	234	(i)	-	-	54	-	1,131
P.R.	*	*	*	*	*	*	*	*
V.I.	-	(n)	(n)	-	-	-	-	868

TABLES 3-1 - 3-4. FOOTNOTES

- (a) Branch Laboratory space of 19,148 sq. ft. not broken down further.
- (b) Represents Central Laboratory space only. Information not available on Branch Laboratories.
- (c) Most areas are multi-purpose and are interchanged.
- (d) Included with Central Laboratory Totals.
- (e) Branch Laboratories are administratively under the respective District Health Officers.
- (f) Includes Sanitary Bacteriology and Chemistry in Branch Laboratories.
- (g) Included in Diagnostic Bacteriology.
- (h) Included with Serology.
- (i) Included with Clinical Chemistry.
- (j) Mycology and Parasitology included with Diagnostic Bacteriology in Central Laboratories.
- (k) Parasitology included with Mycology. \_\_\_\_\_
- (l) Includes Specimen Receiving Space.
- (m) Includes Urinalysis.
- (n) All services in the same area in each laboratory.
- (o) FA Microscopy Laboratory.
- (p) Pesticides.
- (q) Included with Sanitary Chemistry.
- (r) Included with Toxicology (Forensic).
- (s) Included in Sanitary Bacteriology.
- (t) Radiological.
- (u) Biochemistry, 584; Training, 754; Evaluation, 676.
- (v) Radiological Health, 894; LC&D, 325; Limnology, 148; Air Pollution, 396.
- (w) Included with Industrial Chemistry and Toxicology.
- (x) Also includes Clinical Chemistry, Toxicology (Forensic), and Food and Drug.
- (y) Laboratory Certification.
- (z) Radiological Health, 230; Pesticides, 250.
- (aa) FA, Darkroom.
- (bb) Cancer Cytology, 1,802; Environmental Radiation, 953.
- (cc) Radiological Health and Air Pollution.
- (dd) Laboratory Surveyor.
- (ee) Includes Training Laboratory.
- (ff) Alcohol Testing, 440; TV Room, 640.
- (gg) Metabolic Diseases.
- (hh) Food & Drug; Radiological.
- (ii) Evaluation and Training.

TABLE 3-5. NET SPACE ASSIGNED TO LABORATORY SUPPORTIVE SERVICES

	Glassware Preparation (Sq. Ft.)	Media Preparation (Sq. Ft.)	Supply Room and Container Storage (Sq. Ft.)	Container Preparation (Sq. Ft.)	Animal Activities (Sq. Ft.)
Ala.	4,014(a)	431	4,128	-	1,511
Alaska	450	450	600	400	-
Ariz.	1,631	(b)	530	350	487
Ark.	400	400	950	792	400
Cal.	*	*	*	*	*
Colo.	481	302	971	330	272
Conn.	2,520	590	50	2,000	1,064
Del.	396	-	146	198	226
D.C.	375	200	500	300	330
Fla.	3,400	1,670	1,505(c)	1,035	1,065
Ga.	1,950	1,390	2,071	1,415	1,476
Hawaii	600	600	950	-	250
Ida.	1,409	215	1,418	196	588
Ill.	2,240	1,304	2,326	1,006	648
Ind.	1,145	1,145	30	610	-
Ia.	721	402	714	271	1,249
Kans.	608	699	1,074	(d)	209
Ky.	1,613	392	640	640	1,248
La.	2,740	1,691	2,085	48	3,425
Me.	780	330	1,000	300	300
Md.	800(e)	336(e)	-(f)	324(e)	672(e)
Mass.	*	*	*	*	*
Mich.	2,655	2,636	-	836	13,633
Minn.	1,300	1,200	1,200(g)	-	5,000
Miss.	*	*	*	*	*
Mo.	289	347	352	(h)	561
Mont.	650	200	250	900	200
Nebr.	*	*	*	*	*
Nev.	430	280	1,040	70	-
N.H.	286	310	-	286	1,200
N.J.	*	*	*	*	*
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	974	400	1,830	345	5,118
N.D.	700	-	670	(h)	100
Ohio	2,117	1,019	1,070	625	1,880
Okla.	*	*	*	*	*
Ore.	750	750	400	1,050	100
Pa.	*	*	*	*	*
R.I.	550	-	450	-	200
S.C.	1,305(e)	760(e)	1,020(e)	225(e)	1,015(e)
S.D.	*	*	*	*	*
Tenn.	5,070	352	11,247	-	1,122
Tex.	1,680	432	800(c)	300	2,500
Utah	330	150	800	300	800
Vt.	350	150	600	195	-(1)
Va.	1,980	294	1,675	805	494
Wash.	913	789	928	382	409
W.Va.	1,024	(b)	1,550	444	1,500
Wisc.	768	645	1,766	1,498	720
Wyo.	85	334	115	85	-
Guam	53	53	54	-	-
P.R.	*	*	*	*	*
V.I.	354(j)	(j)	-	-	-



TABLE 3-5. NET SPACE ASSIGNED TO LABORATORY SUPPORTIVE SERVICES  
(Continued)

	Mail Room (Sq. Ft.)	Specimen Receiving (Sq. Ft.)	Bulk Storage (Sq.Ft.)	Other (Sq.Ft.)	Total Space - Lab. Supportive Services (Sq. Ft.)
Ala.	544	-	1,228	-	11,856
Alaska	100	100	2,000	-	4,100
Ariz.	(k)	(k)	530	1,003	4,531
Ark.	-	400	820	-	4,162
Cal.	*	*	*	*	*
Colo.	-	-	-	289	2,645
Conn.	(k)	472	2,000	400	9,096
Del.	-	152	90	-	1,208
D.C.	-	-	115	-	1,820
Fla.	440(c)	555(c)	3,109	-	12,779
Ga.	-	-	720(c)	424(1)	9,446
Hawaii	-	-	360	-	2,760
Ida.	(k)	-(k)	1,600	-	5,426
Ill.	(k)	280	7,200	914(m)	15,918
Ind.	-	100	-	1,240(n)	4,270
Ia.	215	750	2,070	594(o)	6,930
Kans.	301	270	(h)	107(p)	3,268
Ky.	-	-	-	-	4,533
La.	380	321	1,429	2,560	14,679
Me.	-	-	1,000	400(q)	4,110
Md.	120(e)	204(e)	2,000(e)	2,040(e)	6,496(e)
Mass.	*	*	*	*	*
Mich.	-	-	7,973	9,970(r)	37,703
Minn.	-	-	-	-	8,700
Miss.	*	*	*	*	*
Mo.	-	-	1,000	-	2,549
Mont.	(k)	(k)	1,500	-	3,700
Nebr.	*	*	*	*	*
Nev.	50	20	-	-	1,890
N.H.	-	-	848	-	2,930
N.J.	*	*	*	*	13,001
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	467	-	(h)	480(1)	9,614
N.D.	(h)	90	900	-	2,460
Ohio	352	100	5,090	525(s)	12,778
Okla.	*	*	*	*	*
Ore.	360	-	-	-	3,410
Pa.	*	*	*	*	*
R.I.	-	-	350	300(t)	1,850
S.C.	225(e)	-	730(e)	-	5,230(e)
S.D.	*	*	*	*	*
Tenn.	-	165	-	-	17,956
Tex.	528(c)	360	3,000(c)	-	9,600
Utah	(k)	-	200	-	2,580
Vt.	-	300	600	-	2,195
Va.	512	42	249	-	6,051
Wash.	249	(k)	1,378	200(1)	5,249
W.Va.	200	(d)	2,500	400(1)	7,618
Wisc.	(k)	691	-	-	6,085
Wyo.	-	-	-	-	619
Guam	-	-	-	251(u)	417
P.R.	*	*	*	*	*
V.I.	-	-	-	-	-

TABLE 3-6. NET SPACE ASSIGNED TO ADMINISTRATIVE AND CLERICAL USES

	Office Space (Sq. Ft.)	Conference Rooms (Sq. Ft.)	Library (Sq. Ft.)	Other (Sq. Ft.)	Total Space - Administrative and Clerical (Sq. Ft.)
Ala.	4,176	-	578	405(v)	5,159
Alaska	1,000	-	-	-	1,000
Ariz.	1,195	300	-	615(w)	2,110
Ark.	1,084	340	-	-	1,424
Cal.	*	*	*	*	*
Colo.	1,565	-	-	-	1,565
Conn.	1,200	400	-	-	1,600
Del.	607	-	-	-	607
D.C.	1,904	-	-	-	1,904
Fla.	5,030	1,255	-	-	6,285
Ga.	6,540	500	-	-	7,040
Hawaii	1,680	-	-	-	1,680
Ida.	1,765	660	308	132	2,865
Ill.	5,804	992	728	-	7,524
Ind.	2,065	-	-	-	2,065
Ia.	2,786	233	209	-	3,228
Kans.	930	453(x)	-	-	1,383
Ky.	1,196	-	-	-	1,196
La.	6,822	835	810	2,135(y)	10,602
Me.	1,550	370(x)	-	810(z)	2,730
Md.	2,268(e)	-	40(e)	-	2,308(e)
Mass.	*	*	*	*	*
Mich.	2,660	480	-	-	3,140
Minn.	3,500	500	-	-	4,000
Miss.	*	*	*	*	*
Mo.	1,076	-	-	-	1,076
Mont.	1,500	1,200	400	2,161	5,261
Nebr.	*	*	*	*	*
Nev.	250	100	-	-	350
N.H.	780	234(x)	-	-	1,014
N.J.	*	*	*	*	4,600
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	3,052	-	997	297	4,346
N.D.	980	72	-	-	1,052
Ohio	6,127	962	-	640(aa)	7,729
Okla.	*	*	*	*	*
Ore.	860	860	860	860	3,440
Pa.	*	*	*	*	*
R.I.	1,000	-	350	1,100(bb)	2,450
S.C.	2,775(e)	-	586(e)	1,205(aa)	4,566(e)
S.D.	*	*	*	*	*
Tenn.	4,650	-	471	-	5,121
Tex.	2,940	957	1,530	1,812(aa)	7,239
Utah	334	150	-	445(cc)	929
Vt.	785	-	-	-	785
Va.	2,668	237	-	841	3,746
Wash.	3,203	609	303	185	4,300
W. Va.	2,850	660(x)	-	-	3,510
Wisc.	450	307	76	-	833
Wyo.	670	-	-	-	670
Guam	190	126	-	-	316
P.R.	*	*	*	*	*
V.I.	260	(dd)	-	-	260

TABLES 3-5 - 3-6. FOOTNOTES

- (a) Includes media preparation in Branch Laboratories.
- (b) Included with Glassware Preparation.
- (c) Health Department space, not solely laboratory.
- (d) Included with mail room.
- (e) Represents Central Laboratory space only. Information not available on Branch Laboratories.
- (f) Included with Bulk Storage.
- (g) Supply Room only.
- (h) Included with Supply Room and Container Storage.
- (i) Rented at the University of Vermont College of Medicine.
- (j) All services in same area in each laboratory.
- (k) Combined with container preparation.
- (l) Maintenance Shop.
- (m) Volatile storage, 114; Training Room, 800.
- (n) Heat Chemistry, 600; Training Area, 640.
- (o) Branch Laboratory support area.
- (p) Maintenance, messenger, Chem. Safety Building, storage outside.
- (q) Biologics Distribution, 250; Volatile Storage, 150.
- (r) Cancer Prod.
- (s) TV Room.
- (t) Toxicology Evidence Room.
- (u) Cytology, 91; Dark Room, 35; TB, 125.
- (v) Snack Rooms.
- (w) Darkroom, Shop and Boiler Room.
- (x) Includes Library space.
- (y) Records, 1,335; Waiting Room, 800.
- (z) Lounge, 260; Training Laboratory, 550.
- (aa) Laboratory Training Rooms.
- (bb) Personnel Rooms, Training Room, Clinic Room.
- (cc) Clerical.
- (dd) Same area as Office Space.

TABLE 3-7. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES

	Year Present Lab. Completed	Lab. Space Increased or Changed in FY72 - Net Sq. Ft. Added	Planning Now in Progress (FY73)	Planning Anticipated (FY74)	Funds Appropriated for:	
					Planning	Construction
Ala.	1954	x *	*	*	*	*
Alaska	1937(a)	-	x(b)	-	-	x
Ariz.	1954	-	x	x	-	-
Ark.	1969	-	-	x	-	-
Cal.	*	*	*	*	*	*
Colo.	1960	x 420	x	x	x	*
Conn.	1967	x 1136	x	-	x	-
Del.	1959	-	-	-	-	-
D.C.	1940	-	-	-	-	-
Fla.	1954(c)	x 1925	x	x	x	x
Ga.	1960	-	-	-	-	-
Hawaii	1961	x 725	x(d)	-	x	x
Ida.	1966	-	x(e)	x(e)	x	x
Ill.	1930	[Lost 14,825 sq.ft. (f)]	x(g)	-	-	-
Ind.	1950	x 2900(h)	-	-	-	-
Ia.	1926	x 2371	-	-	-	-
Kans.	1967	-	-	-	-	-
Ky.	1960	-	-	-	-	-
La.	1957	-	-	-	-	-
Me.	1969	-	-	-	-	-
Md.	1951	-	x	-	x	x
Mass.	1948(i)	-	-	-	x	x
Mich.	1936-71(j)	-	-	x	-	-
Minn.	1969	-	-	-	-	-
Miss.	1959	-	-	-	-	-
Mo.	1939	-	-(k)	x	-	-
Mont.	1958	x 3000(l)	-	-	-	-
Nebr.	1931-68	-	x	-	x	x
Nev.	1967	x 1000	-	-	-	-
N.H.	1943	-	-	-	x	x
N.J.	1969	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	1918-48	x 5000	x	-	x	x
N.C.	1940	-	x(m)	-	x	x
N.D.	1968	-	-	-	-	-
Ohio	1971	-	-	-	-	-
Okla.	1952	-	-	-	-	-
Ore.	1950	-	x	-	-	-
Pa.	*	*	*	*	*	*
R.I.	1935(n)	x 4000	-	-	-	-
S.C.	1965	-	-	-	-	-
S.D.	1951	x 4000	-	-	-	-
Tenn.	1955	-	-	-	-	-
Tex.	1958	-	-	-	-	-
Utah	1952	x 240	x	-	x	x
Vt.	1953	-	-	-	-	-
Va.	1970	-	-	-	-	-
Wash.	1906(o)	-	-	-	-	-
W.Va.	1954	-	-	-	-	-
Wisc.	1953	-	x	-	x	x
Wyo.	1952	-	x	-	x	x
Guam	1969	-	x	-	x	x
P.R.	*	*	*	*	*	*
V.I.	1960	-	x	x	x	x

TABLE 3-7. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES  
(Continued)

	Architect Has Been Selected	Construction Should Begin by:	Estimated Cost	Estimated Gross Sq. Ft.	Estimated Net Sq. Ft.
Ala.	*	*	\$ *	*	*
Alaska	x	7/1/72	83,000(b)	5,100	4,000
Ariz.	-	FY1974	2,394,990	23,000(p)	*
Ark.	x	-	-	-	-
Cal.	*	*	*	*	*
Colo.	-	FY1973	750,000	*	10,690
Conn.	x	FY1974	3,500,000	50,000	44,000
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	x	FY1973	1,100,000	*	13,000
Ga.	-	-	-	-	-
Hawaii	-	FY1972(q)	420,000	3,785	2,800
Ida.	x	(e)	(e)	(e)	(e)
Ill.	-	-	-	-	-
Ind.	-	-	-	-	-
Ia.	-	-	-	-	-
Kans.	-	-	-	-	-
Ky.	-	-	-	-	-
La.	-	-	-	-	-
Me.	-	-	-	-	-
Md.	x	(Began Dec. 1971)	15,500,000	160,000	80,000
Mass.	x	(Began FY1970)	12,025,199	193,000	155,000
Mich.	-	-	997,500	-	-
Minn.	-	-	-	-	-
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	x	FY1972	880,000	34,800	5,600
Nev.	-	-	-	-	-
N.H.	x	(Began 4/71)	2,540,000	*	60,000
N.J.	-	-	-	-	-
N.M.	*	*	*	*	*
N.Y.	x	(Began 1969)	57,000,000	475,000	275,000
N.C.	x	(Under Constr.)	3,900,000	120,512	57,000(r)
N.D.	-	-	-	-	-
Ohio	-	-	-	-	-
Okla.	-	(Began FY1970)	1,922,000	57,310	41,564
Ore.	-	-	3,500,000	67,580	41,140
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	-	-	-	-	-
S.D.	-	-	-	-	-
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	x	FY1972	1,600,000	34,845	18,500
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	-	-	-	-	-
W. Va.	-	-	-	-	-
Wisc.	x	FY1973	875,000	12,845	8,220
Wyo.	x	Apr. 1972	4,400,000	125,500	75,700
Guam	x	FY1972	217,870	5,775	*
P.R.	*	*	*	*	*
V.I.	x	(Began FY1971)	110,000	3,850	*

TABLE 3-7. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES  
(Continued)

	Lab. to be a Separate Building	Planned Building to		Substantial Alterations will be made to Existing Building
		Replace Present Lab.	Be in Addition to Present Lab.	
Ala.	*	*	*	*
Alaska	x	x	-	-
Ariz.	x	-	x	x
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	-	-	x	-
Conn.	-	-	x	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	x	x	-(a)	-
Ga.	-	-	-	-
Hawaii	x	-	x	-
Ida.	(e)	(e)	(e)	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	-	-	-	-
Ky.	-	-	-	-
La.	-	-	-	-
Me.	-	-	-	-
Md.	x	x	-	-
Mass.	x	x	-	-
Mich.	-	-	x	x
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	x	x	-	-
Nev.	-	-	-	-
N.H.	x	x	-	-
N.J.	-	-	-	-
N.M.	*	*	*	*
N.Y.	-	x	-	-
N.C.	-	x	-	-
N.D.	-	-	-	-
Ohio	-	-	-	-
Okla.	-	x	-	-
Ore.	x	x	-	-
Pa.	*	*	*	*
R.I.	-	-	-	-
S.C.	-	-	-	-
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	-	-	-	-
Utah	x	x	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W. Va.	-	-	-	-
Wisc.	-	-	x	x
Wyo.	-	x	-	-
Guam	-	-	x	-
P.R.	*	*	*	*
V.I.	-	x	-	-

TABLE 3-7. FOOTNOTES

- (a) This represents Juneau (Southeastern Regional Laboratory); Anchorage (Southcentral Regional Laboratory) completed 1962; and Fairbanks (Northern Regional Laboratory), 1963.
- (b) Planning is for new laboratory in Juneau. Previous laboratory building was demolished to make way for new State Courthouse. The legislature has provided funds for leasing and estimated costs are for equipping of facilities.
- (c) Central Laboratory at Jacksonville. Regional Laboratories completed as follows: Miami, 1958; Tallahassee, 1950; West Palm Beach, 1953; Orlando, 1957; Pensacola, 1965; and Tampa, 1966.
- (d) Virus Laboratory.
- (e) Approval was given to construct regional laboratory in Coeur d'Alene, Idaho, by 1969 Legislature. State funding and Hill-Burton funds were allotted. Numerous legal problems have prevented completion of this project. Laboratory is to be a portion of multi-health complex. Requests for new regional laboratory in Idaho Falls made in 1971 and 1972 not approved. A similar request is being prepared for 1973 (1,596 square feet - approximately \$90,000.00). A request for a 14,412 square foot addition to central laboratory in Boise (two floors plus basement) was made in 1971 and 1972 and was not approved. A similar request is being prepared for 1973.
- (f) Close down of 3 branch laboratories.
- (g) To be occupied in FY1973.
- (h) Laboratory space gained when offices were moved to a recently completed annex to the original building.
- (i) Occupancy of existing building in 1948.
- (j) There are 28 buildings in the laboratory complex that were constructed between 1936 and 1971.
- (k) The proposition is currently being considered by legislative committee to appropriate planning money.
- (l) Addition of Chemistry Laboratory in November 1971 to create a Laboratory Division.
- (m) Laboratory currently under construction. Occupancy expected mid-1973.
- (n) Original building. Partial enlargement and modernization 1967, 1968, and 1969.
- (o) The last expansion was in FY1971. The building was built in 1906.
- (p) In addition, 10,000 square feet to be remodelled.
- (q) Funds are frozen pending study of alternate site where only alterations needed.
- (r) Net space for laboratories.
- (s) Old building will also be used (5,000 square feet).

SECTION IV

PRODUCTION OF BIOLOGICS AND REAGENTS



TABLE 4-1. STATES PRODUCING BIOLOGICS AND REAGENTS

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

TABLE 4-2. PRODUCTION OF BIOLOGICS FOR HUMAN USE

(Amounts Produced in Doses)

Ill.	Typhoid Vaccine, 95,280 Diphtheria-Tetanus-Pertussis, 76,425 Tetanus and Diphtheria Toxoid, combined aluminum phosphate precipitated for adult use, 96,250 Silver Nitrate, 195,750 P.P.D., 481,820 Schick Test Material, 41,690 Rabies Vaccine, 1,792	Miss.	Silver Nitrate, 6,580 ampules
		Tenn.	Typhoid Vaccine, 22,120 Tetanus Toxoid, 94,640 Old Tuberculin, 45,000 Silver Nitrate, 27,152 Sterile Physiological Saline, 463,000 ml. Sterile Distilled Water, 612,950 ml.
Kans.	Fluoride, 60	Tex.	Typhoid Vaccine, 117,040 Smallpox Vaccine, 342,310 Pertussis Vaccine, 420 Diphtheria Toxoid, 4,038 Diphtheria-Tetanus-Pertussis, 515,250 Tetanus and Diphtheria Toxoid, combined aluminum phosphate precipitated for adult use, 580,260 Tetanus Toxoid, 34,980 Old Tuberculin, 74,800 Silver Nitrate, 18,526
Mass.	Albumin, Normal, 888,450 ml. Globulin, Immune, 110,770 ml. Globulin, Rh Immune, 3,550 Globulin, Tetanus Immune, 660,250 units Diphtheria and Tetanus Toxoids, 124,090 Diphtheria-Tetanus-Pertussis, 500,780 Diphtheria Antitoxin, 291,000 units Schick Test Outfit, 19,850 tests Silver Nitrate, 207,890 ampules Smallpox Vaccine, 258,630 Tetanus Toxoid, 331,730 Tetanus and Diphtheria Toxoid (Adult), 187,150 Tuberculin, old, diluted, 260,440 Typhoid Vaccine, 68,960 Anti-Lymphocyte Globulin, 16,975 ml. Horse Blood (defibrinated), 55,000 ml. Horse Serum, 145,200 ml. Purified Diphtheria Toxoid, 620 ml. Purified Tetanus Toxoid, 880 ml. Hepatitis Associated Antibody, 1,290 ml.	Va.	Old Tuberculin, 6,000
Mich.	Typhoid Vaccine, 72,690 Smallpox Vaccine, 589,235 Pertussis Vaccine, 8,910 Diphtheria Toxoid, 920 Diphtheria-Tetanus-Pertussis, 642,200 Tetanus and Diphtheria Toxoid, combined aluminum phosphate precipitated for adult use, 192,200 Tetanus Toxoid, 519,827 Silver Nitrate, 231,880 Fluoride, 160,600 Factor VIII Concentrate (AHF), 341 Diphtheria Immune Globulin - 250 unit, 2 Dried Fibrinogen (Human), 549 Immune Serum Globulin (Human), 148,572 Normal Serum Albumin (Human), 50,352 Tetanus Immune Globulin (Human) 250 unit, 7,356 Tetanus Immune Globulin (Human) 2,000 unit, 12 Vaccinia Immune Globulin (Human), 39 Diphtheria Antitoxin, 10,000 unit, 55 Tetanus Antitoxin, 20,000 unit, 51 Diphtheria-Tetanus Toxoid, 135,010 Diphtheria-Tetanus-Polio, 43,350 Diphtheria-Tetanus-Pertussis-Polio, 156,690 Histoplasmin, 38,905 Rabies Vaccine, 3,755		
Minn.	Old Tuberculin, 47,000 ml.		

TABLE 4-3. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTISERA

State		Amount Produced	Amount Distributed to Other Laboratories
Conn.	VDRL slide serum controls	660	660
	Ox cell hemolysin reactive control	1	1
	FTA-ABS reactive control	6	6
	Salmonella "O" 1, 2, 12	20 ml.	-
	Salmonella "O" 5	16 ml.	-
Ill.	E. coli	598 ml.	-
Iowa	Infectious Mononucleosis, Beef Cell Sorbent	600 ml.	-
	Infectious Mononucleosis, Guinea Pig Sorbent	1,000 ml.	-
Minn.	Salmonella "O"	44 ml.	-
	Salmonella "H"	140 ml.	-
	Shigella	87 ml.	-
Tenn.	Group A Streptococcus FITC Conjugated		
	Rabbit Globulin	170 ml.	-

TABLE 4-4, PRODUCTION OF DIAGNOSTIC REAGENTS: ANTIGENS

State		Amount Produced	Amount Distributed to Other Laboratories
Ariz.	Coccidioidin CF	21,500 ml.	-
Conn.	VDRL slide flocculation	1,456	1,318
	VDRL buffered saline	1,459	1,321
Hawaii	Influenza A <sub>2</sub> /Hong Kong	50 ml.	-
	Influenza B/Massachusetts	50 ml.	-
	Coxsackie B-3	20 ml.	-
	Coxsackie B-4	20 ml.	-
	ECHO-9	20 ml.	-
Ind.	Histoplasmin (yeast phase)	100 ml.	-
	Gonococcal	75 ml.	-
Iowa	Influenza A, CF	110 ml.	-
	Influenza B, CF	76 ml.	-
	Influenza A, HA	200 ml.	-
	Influenza B, HA	300 ml.	-
	Mumps, CF	15 ml.	-
	St. Louis Encephalitis, CF-HA	50 ml.	-
	WEE, CF-HA	44 ml.	-
	Trivittatus, CF	30 ml.	-
	Rabies Mouse Brain Positive (MBP)		
	Sorbent for FRA Blocking Control System	100 ml.	-
	Rabies Mouse Brain Normal (MBN)		
	Sorbent for FRA Blocking Control System	100 ml.	-
Rabies FRA Positive Control	500 slides	-	
La.	Hemolysin	1,000	500
Minn.	Salmonella typhi "O"	600 ml.	-
	Francisella tularensis	200 ml.	-
Ohio	Influenza	200 ml.	10 ml.
	Mumps, CF, viral	200 ml.	-
	Mumps, soluble	200 ml.	-
	Coxsackie B1-6	20 ml. ea.	-
N.J.	Eastern encephalitis	50 ml.	-
	Western encephalitis	50 ml.	-
	St. Louis encephalitis	50 ml.	-
	Powassan encephalitis	50 ml.	-
	California encephalitis	50 ml.	-
	Venezuelan encephalitis	*	-
	Vaccinia	50 ml.	-
	Herpes Simplex	200 ml.	-
	Hyperimmune Sera:		
	Vaccinia	50 ml.	-
	Venezuelan encephalitis	*	-
Hepatitis Associated	2,000 ml.	-	
Tenn.	Brucella	-	80 ml.
	Typhosa	-	120 ml.
	S. paratyphi A	-	40 ml.
	S. paratyphi B	-	40 ml.
	Proteus OX19	-	70 ml.
	Tularemia	-	110 ml.
Tex.	VDRL	4,000 ml.	2,898 ml.
	FTA-ABS Sorbent	6,615 ml.	3,642 ml.
	Diagnostic Antigens	2,245 ml.	2,245 ml.

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

State		Amount Produced	Amount Distributed to Other Laboratories
Wisc	Adenovirus	130 ml.	-
	Cytomegalovirus	50 ml.	-
	Herpes Simplex	100 ml.	-
	Influenza type B	90 ml.	-
	Mumps	120 ml.	-
	Rubella	150 ml.	-
	Rubeola	90 ml.	-
	Rabies CVS	95 ml.	-
	ECHO (several types)	60 ml.	-
	Coxsackie B-6	20 ml.	-
	Rhinovirus	20 ml.	-
	Respiratory syncytial	20 ml.	-

TABLE 4-5. PRODUCTION OF DIAGNOSTIC REAGENTS: SOLUTIONS

State		Amount Produced	Amount Distributed to Other Laboratories
Ariz.	Solutions & Media	2,912.5 liters	-
Ind.	Physiological Saline	300,000	-
	0.9% Saline	5,000	-
	Veronal Buffered Saline	8,000	-
Iowa	<u>Water Quality Reagents</u> (supplied to University Water Treatment Plant)		
	Versenate Solution (for the University Water Plant)	120 liters	-
	H <sub>2</sub> SO <sub>4</sub> (0.02N) (for the University Water Plant)	156 liters	-
	Sodium Thiosulfate (0.025N)	1 liter	-
	HNO <sub>3</sub> (0.1N)	3 liters	-
	NaOH (1N)	1 liter	-
	Starch	12 liters	-
	Standard Versenate	30 liters	-
	Potassium Bilodate	15 liters	-
	HCl 50%	10.5 liters	-
	HCl 10%	2 liters	-
	H <sub>2</sub> SO <sub>4</sub> (conc.)	3 liters	-
	Methyl Purple	2.5 liters	-
	NH <sub>4</sub> OH Solution	15.5 liters	-
	Orthophenanthroline	6.8 liters	-
	Acetic Acid (conc.)	12 liters	-
	pH Buffer	7.5 liters	-
	Alkaline Iodide	0.5 liters	-
	1, 2 Naphthoquinone (dry)	100 gms.	-
	Soap Solvent (Std)	3.75 liters	-
	Hydroxylamine	3 liters	-
	Phenolphthalein	1 liter	-
	MnSO <sub>4</sub> Solution	2.3 liters	-
	H <sub>2</sub> SO <sub>4</sub> (N/50)	26.25 liters	-
	H <sub>2</sub> SO <sub>4</sub> (N/4)	6.7 liters	-
La.	Normal Saline	20,000	20,000
	Distilled Water	100,000	90,000
	Ferric Chloride	2,000	2,000
	Copper Sulphate	3,000	3,000
	Phenol Red	40,000	39,000
Mo.	*	967,900	-
Mont.	Alcohol for use in Simulators	-	56 liters
N.J.	Borate Saline	40 liters	-
	Borate Saline with Albumin	40 liters	-
	Kaolin	20 liters	-
	Rubella Buffer	30 liters	-
	Tris Buffer (0.05M)	52 liters	-
	Electrophoresis Buffer	300 liters	-
	NaCl (1.5M)	9 liters	-
	Na <sub>2</sub> HPO <sub>4</sub> (0.2M)	2 liters	-
	NaH <sub>2</sub> PO <sub>4</sub> (0.12M)	15 liters	-
	NaH <sub>2</sub> PO <sub>4</sub> (0.1M)	30 liters	-
	Boric Acid	10 liters	-
	NaOH (1.0M)	1 liter	-
	Sodium Bicarbonate	0.5 liter	-
	Phosphate Buffered Saline (PBS)	15 liters	-
	1% Heparin in PBS	2 liters	-
	Receptor Destroying Enzyme (RDE)	2 liters	-
	Sodium Citrate	2 liters	-
	CA Saline Solution	8 liters	-

TABLE 4-5. PRODUCTION OF DIAGNOSTIC REAGENTS: SOLUTIONS  
(Continued)

State		Amount Produced	Amount Distributed to Other Laboratories
	Dextrose Gelatin - Veronal	2 liters	-
	Acid-Citrate-Dextrose	1 liter	-
	Alsever's Solution	1 liter	-
	KH <sub>2</sub> PO <sub>4</sub> H <sub>2</sub> O	5 liters	-
	K <sub>2</sub> HPO <sub>4</sub>	5 liters	-
	Media (Tissue Culture)	2,207 liters	-
Ohio	Hank's Balanced Salt	50 liters	-
	Earle's Balanced Salt	50 liters	-
Tenn.	Ferric Chloride, 10%	-	8,160 ml.
	Buffered Physiological Sterile Saline	-	49,500 ml.
	VDRL Buffered Saline	-	70,250 ml.
Tex.	VDRL Buffered Saline	30,000 ml.	28,290 ml.
	Reactive Control - Syphilis (Dehyd.)	2,205 ml.	1,850 ml.
	Weakly Reactive Control - Syphilis	1,000 ml.	470 ml.
	Non-Specific Control - FTA-ABS	-	105 ml.
Wisc.	All solutions for tissue culture, rabies, virus isolation, virus identification, virus serology, etc.	*	-
P.R.	*	4,080.4 liters	1,000 liters

SECTION V

INTRASTATE LABORATORY IMPROVEMENT, AND  
PROFICIENCY TESTING PROGRAMS UNDER MEDICARE



TABLE 5-1. STATUS OF LABORATORY LICENSURE AND REGISTRATION LAWS AS OF JUNE 30, 1972

	Laboratory Licensure Law		Laboratory Personnel Licensure Law		Laboratory Registration Law	
	State Has Law:	Eff. Date	State Has Law:	Eff. Date	State Has Law:	Eff. Date
Ala.	-	-	X (a)	1940	-	-
Alaska	- (b)	-	-	-	-	-
Ariz.	X	1/1/70	- (c)	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	X	1962 (d)	X	1962 (d)	-	-
Del.	X (e)	1/1/72	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	X	6/30/67	X	6/30/67
Ga.	X	7/1/70	-	-	-	-
Hawaii	-	-	X	1968 (Rev.)	-	-
Ida.	-	-	-	-	-	-
Ill.	X	1966	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	- (f)	-	-	-	-	-
Ky.	X	Jan. 1969	-	-	-	-
La.	-	-	-	-	-	-
Me.	X (g)	1965	-	-	-	-
Md.	X	6/1/66	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	X	1968	- (h)	-	X	1927
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	X	1/1/72	X	1/1/72	-	-
N.H.	-	-	-	-	-	-
N.J.	X	May 1963	-	-	X	9/18/53
N.M.	*	*	*	*	*	*
N.Y.	X (i)	7/1/65	X	12/27/71 (Rev.)	X (j)	12/27/71 (Rev.)
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	X	7/1/70	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	X	1961	-	-	-	-
S.C.	X	6/19/72	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	X	6/1/67	X	6/1/67	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	X	1970
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	- (k)	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	X	June 1962	X	1939, 57	-	-
V.I.	-	-	-	-	-	-

TABLE 5-2. LABORATORIES AND PERSONNEL COVERED BY LABORATORY LICENSURE LAWS

	<u>Independent Clinical Labs</u>		<u>Hospital Labs</u>		<u>Group Practice Labs</u>		
	Covered By Law	Number Licensed	Covered By Law	Number Licensed	# Physicians Considered Forming Such Laboratory	Covered By Law	Number Licensed
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	X	53	X	68 (1)	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	X	75	X	54	-	(m)	-
Del.	X	7	-	-	-	-	-
D.C.	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-
Ga.	X	(n)	X	(n)	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	X (o)	307	X	309	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	X	*	-	-	*	X (p)	*
La.	-	-	-	-	-	-	-
Me.	X	-	-	-	-	-	-
Md.	X	89	X	59	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	X	148	X	242	3	-	-
Minn.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	X	*	X	*	*	*	*
N.H.	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*
N.Y.	X	215	X	232	2	X	19
N.C.	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-
Ore.	X	50	X	86	5	X	43
Pa.	*	*	*	*	*	*	*
R.I.	X	30	-	-	-	-	-
S.C.	X	(q)	X	(q)	3	X	(q)
S.D.	-	-	-	-	-	-	-
Tenn.	X	22	X	155	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
P.R.	X	134	X	66	-	-	-
V.I.	-	-	-	-	-	-	-

TABLE 5-2. LABORATORIES AND PERSONNEL COVERED BY LABORATORY LICENSURE LAWS  
(Continued)

	Doctors' Office Labs		Local Public Health Labs		State Public Health Labs	
	Covered by Law	Number Licensed	Covered by Law	Number Licensed	Covered by Law	Number Licensed
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	X	4	X	3
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	X	11	X	5
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	-	-	X	(n)	X	(n)
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	X (p)	*	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	X	8	X	4
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	-	-	X	2
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	X	45	X (r)	21
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	X	8	X	2	X	2
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	X	(q)	X	(q)
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-2. LABORATORIES AND PERSONNEL COVERED BY LABORATORY LICENSURE LAWS  
(Continued)

	Non-Clinical Labs		Blood Banks		Directors	
	Covered by Law	Number Licensed	Covered by Law	Number Licensed	Covered by Law	Number Licensed
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	X	60 (c)
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	X	72	X	1	X	210
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	X	(n)	X	(n)	X	(n)
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	X	4	X	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	X	354 (s)
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	*	*	X	2	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	X	141	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	X	7	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	X	2	X	193
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	X	14	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	X (t)	21	X	20	-	-
V.I.	-	-	-	-	-	-

TABLE 5-2. LABORATORIES AND PERSONNEL COVERED BY LABORATORY LICENSURE LAWS  
(Continued)

	Supervisors		Technologists		Technicians	
	Covered by Law	Number Licensed	Covered by Law	Number Licensed	Covered by Law	Number Licensed
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	X	-	-	-	-	-
Masa.	-	-	-	-	-	-
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.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-3. PERSONNEL COVERED BY LABORATORY PERSONNEL LICENSURE LAWS

	Lab. Directors		Supervisors		Technologists		Technicians	
	Covered By Law	Number Licensed	Covered By Law	Number Licensed	Covered By Law	Number Licensed	Covered By Law	Number Licensed
Ala.	-	-	-	-	X	*	X	*
Alaska	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	-
Conn.	-	-	-	-	X (u)	228	-	-
Del.	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-
Fla.	X	282	X	995	X	2,518	X	2,191
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	X	50	X	438	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	X	53	X	356 (v)	X	(v)	X	(v)
N.H.	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*
N.Y.	X	488	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-	-
Tenn.	X	36	X	560	X	1,170	X	1,730
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-
P.R.	X	200	X	62	X	410	X	34
V.I.	-	-	-	-	-	-	-	-

TABLE 5-4. LABORATORIES AND PERSONNEL COVERED BY LABORATORY REGISTRATION LAWS

	<u>Independent Clinical Labs</u>		<u>Hospital Labs</u>		<u>Group Practice Labs</u>		
	Covered By Law	Number Registered	Covered By Law	Number Registered	# Physicians Considered Forming Such Laboratory	Covered By Law	Number Registered
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-
Fla.	X	276	X	229	6	X	(w)
Ga.	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	X	96	X	217	3	X	4
Minn.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	X	207	X	152	-	-	-
N.M.	*	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	X	6	X	20	2	X	6
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-

TABLE 5-4. LABORATORIES AND PERSONNEL COVERED BY LABORATORY REGISTRATION LAWS  
(Continued)

	<u>Doctors' Office Labs</u>		<u>Local Public Health Labs</u>		<u>State Public Health Labs</u>	
	Covered by Law	Number Registered	Covered by Law	Number Registered	Covered by Law	Number Registered
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	X	12 (x)	X	(x)
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	X	10	X	8	X	4
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	X	6	-	-
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.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-



TABLE 5-4. LABORATORIES AND PERSONNEL COVERED BY LABORATORY REGISTRATION LAWS  
(Continued)

	Non-Clinical Labs		Blood Banks		Directors	
	Covered by Law	Number Registered	Covered by Law	Number Registered	Covered by Law	Number Registered
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	X (y)	22	-	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	X	42	X	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	X	312
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	X	1	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-4. LABORATORIES AND PERSONNEL COVERED BY LABORATORY REGISTRATION LAWS  
(Continued)

	Supervisors		Technologists		Technicians	
	Covered by Law	Number Registered	Covered by Law	Number Registered	Covered by Law	Number Registered
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	X	*	X	*	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLES 5-1 - 5-4. FOOTNOTES

- (a) Covers premarital only.
- (b) State has no licensure or registration law, but has separate laws for certification of laboratories for premarital-prenatal syphilis serology, PKU, blood alcohol, and water. Also voluntary certification in certain designated test areas.
- (c) Laboratory licensure law specifies requirements for laboratory director, but there is no personnel licensure.
- (d) Effective 1962 for private clinical laboratories; 1927 for dairy, water and hospital.
- (e) Official regulations.
- (f) In accordance with the authority granted by the hospital licensing law, the laboratory segment of the Board of Health Hospital Regulations requires certification of all hospital laboratories.
- (g) Law covers independent clinical labs only; none operating presently.
- (h) House bill in Committee.
- (i) Laboratory Permit Law.
- (j) Personnel registration law filed 12/27/71 covers supervisors and technologists. No other data available.
- (k) Annual Laboratory Registration requirement is not a law, but a rule and regulation of the State Board of Health.
- (l) Under law, hospital laboratories must meet the same requirements as independent clinical laboratories but are not issued laboratory licenses.
- (m) Law requires two or more practitioners of the healing arts to be registered as independent laboratory.
- (n) Number covered is as follows: Independent Clinical Labs, 62; Hospital Labs, 219; Local P.H. Labs, 4; State P.H. Labs, 4; Tissue Lab, 1; Blood Banks, 12; Directors, 182. As of Nov. 1, 1972, 195 applications received, but none yet licensed.
- (o) An independent clinical laboratory is one that performs diagnostic tests independent of a hospital or physician's office, unless the physician's office qualifies as an independent laboratory, i.e., a) three physicians or more performing laboratory work, one of which will then be designated the laboratory worker; b) two physicians, if they handle laboratory referral work.
- (p) Only if referrals are received.
- (q) In process of implementation of the law.
- (r) Voluntary.
- (s) Certificates of Qualification issued to laboratory directors under licensing law.
- (t) Histopathology.
- (u) Syphilis Serology.
- (v) Figure of 356 includes Supervisors, Technologists, and Technicians.
- (w) Included in Independent Clinical Laboratories.
- (x) State and local public health labs included together.
- (y) Plasmaphoresis also covered for 20 Blood Banks.

TABLE 5-5. ESTIMATED NUMBER OF HOSPITAL, INDEPENDENT CLINICAL,  
AND GROUP PRACTICE LABORATORIES OPERATING IN STATE

	Estimated Number of Laboratories			Estimated Population (a)	Estimated Number of Laboratories per 100,000 Population		
	Hospital	Independent Clinical	Group Practice		Hospital	Independent Clinical	Group Practice
Ala.	141	16	16	3,479,000	4.1	0.5	0.5
Alaska	25	2	15	313,000	8.0	0.6	4.8
Ariz.	68	60	*	1,849,000	3.7	3.2	*
Ark.	160	11	*	1,944,000	8.2	0.6	*
Cal.	*	*	*	20,223,000	*	*	*
Colo.	95	30	*	2,283,000	4.2	1.3	*
Conn.	54	75	-	3,081,000	1.8	2.4	-
Del.	4	7	*	558,000	0.7	1.3	*
D.C.	17	5	5 (b)	741,000	2.3	0.7	0.7
Fla.	229	276	*	7,041,000	3.3	3.9	*
Ga.	219	62	*	4,664,000	4.7	1.3	*
Hawaii	27	31	9	789,000	3.4	3.9	1.1
Ida.	48	17	*	732,000	6.6	2.3	*
Ill.	309	307	*	11,196,000	2.8	2.7	*
Ind.	115	40	*	5,274,000	2.2	0.8	*
Ia.	155	14	96	2,852,000	5.4	0.5	3.4
Kans.	167	25	12	2,258,000	7.4	1.1	0.5
Ky.	106	25	*	3,282,000	3.2	0.8	*
La.	* (c)	* (c)	* (c)	3,681,000	*	*	*
Me.	62	-	*	1,003,000	6.2	-	*
Md.	59	89	*	4,000,000	1.5	2.2	*
Mass.	172	95	*	5,758,000	3.0	1.6	*
Mich.	253	150	7	8,997,000	2.8	1.7	0.1
Minn.	184	10	257	3,881,000	4.7	0.3	6.6
Miss.	120	17	*	2,226,000	5.4	0.8	*
Mo.	177	70	20	4,749,000	3.7	1.5	0.4
Mont.	70	6	44	708,000	9.9	0.8	6.2
Nebr.	*	*	*	1,512,000	*	*	*
Nev.	23	21	*	507,000	4.5	4.1	*
N.H.	28	2	12	762,000	3.7	0.3	1.6
N.J.	136	161	*	7,300,000	1.9	2.2	*
N.M.	*	*	*	1,030,000	*	*	*
N.Y.	271	235	19	18,391,000	1.5	1.3	0.1
N.C.	168	13 (d)	-	5,146,000	3.3	0.3	-
N.D.	59	5	22	625,000	9.4	0.8	3.5
Ohio	197	137	*	10,778,000	1.8	1.3	*
Okla.	172	46	*	2,610,000	6.6	1.8	*
Ore.	87	50	42	2,158,000	4.0	2.3	1.9
Pa.	*	*	*	11,879,000	*	*	*
R.I.	22	30	2	960,000	2.3	3.1	0.2
S.C.	80	16	100	2,627,000	3.0	0.6	3.8
S.D.	*	6	*	670,000	*	0.9	*
Tenn.	166	22	*	3,990,000	4.2	0.6	*
Tex.	*	*	*	11,460,000	*	*	*
Utah	40	17	15	1,099,000	3.6	1.5	1.4
Vt.	20	6	6	458,000	4.4	1.3	1:3
Va.	*	*	*	4,714,000	*	*	*
Wash.	131	80	73 (e)	3,449,000	3.8	2.3	2.1
W.Va.	85	50	*	1,752,000	4.9	2.9	*
Wisc.	225	19	*	4,476,000	5.0	0.4	*
Wyo.	26	3	7	340,000	7.6	0.9	2.1
Guam	2	-	2	85,000	2.4	-	2.4
P.R.	97	143	-	2,712,000	3.6	5.3	-
V.I.	3	3	-	62,000	4.8	4.8	-

TABLE 5-6. INTRASTATE EVALUATION OF LABORATORIES

	Type of Evaluation Program:					Number of Labs Participating in State Program
	Licensure	Permit	Registration	Approval	Voluntary	
Ala.	-	-	-	X	-	71
Alaska	-	X	-	-	-	6
Ariz.	X	-	-	X (f)	-	88
Ark.	-	-	-	X	-	130
Cal.	*	*	*	*	*	*
Colo.	-	X	-	-	-	141
Conn.	X	-	-	-	-	210
Del.	X	-	-	-	-	9
D.C.	X	-	-	X	-	30
Fla.	X	-	X	-	-	558
Ga.	X	-	-	X	-	195
Hawaii	X	-	-	X	-	39
Ida.	-	-	-	X	X	54
Ill.	X	-	-	X	-	625
Ind.	-	-	-	X	X	232
Ia.	-	-	-	X	X	135
Kans.	-	-	-	X	-	203
Ky.	-	-	-	X	-	210
La.	-	-	-	-	-	- (c)
Me.	-	-	-	-	X	54
Md.	-	X	-	X	-	152
Mass.	-	-	-	X	X	277
Mich.	X	-	X	X	X	397
Minn.	-	-	-	-	X	200
Miss.	-	-	-	X (g)	-	132
Mo.	-	-	-	X	-	253
Mont.	-	-	X	-	-	134
Nebr.	*	*	*	*	*	*
Nev.	X	-	-	-	-	44
N.H.	-	-	-	-	-	-
N.J.	-	-	-	X	X	301
N.M.	*	*	*	*	*	*
N.Y.	-	X	-	X	-	506
N.C.	-	-	-	X	-	210
N.D.	-	-	-	X	-	10
Ohio	-	-	-	X	X	324
Okla.	-	-	-	X	-	224
Ore.	X	-	-	-	-	193
Pa.	*	*	*	*	*	*
R.I.	X	-	-	-	-	30
S.C.	-	-	-	-	-	-
S.D.	-	-	-	X	-	45
Tenn.	X	-	-	-	-	206
Tex.	-	-	-	X	-	1,563
Utah	-	-	-	X	X	56
Vt.	-	-	X	-	-	33
Va.	-	-	-	X	-	210
Wash.	-	-	-	X	-	125
W.Va.	-	-	-	X	-	130
Wisc.	-	-	-	X	X	437
Wyo.	-	-	-	X	-	38
Guam	-	-	-	-	-	-
P.R.	X	-	-	-	-	228
V.I.	-	-	-	-	-	-

TABLE 5-6. INTRASTATE EVALUATION OF LABORATORIES  
(Continued)

Frequency of Inspection of or Visits to Laboratories Covered  
by Evaluation or Proficiency Testing Programs:

Ala.	Annually, or more when indicated.
Alaska	Annually for site survey and as required when problems arise.
Ariz.	Annually.
Ark.	Rarely, except for initial approval or re-instatement.
Cal.	*
Colo.	Annually.
Conn.	Annually.
Del.	Annually.
D.C.	Annually with repeat visits as required to correct deficiencies.
Fla.	Annually to those 130 which are Medicare Certified. Biannually to others (not yet completely implemented).
Ga.	Law provides for annual visits; program now being implemented.
Hawaii	Minimum of once annually on Medicare Independent Laboratories and twice annually on non-JCAH Hospital Laboratories.
Ida.	Two times per year.
Ill.	All newly licensed laboratories are visited initially. Deviant laboratories are visited; frequency of visits depends on frequency of deviancy.
Ind.	Biennially or as needed, Serology. Annually for Milk and Water Bacteriology.
Ia.	The only laboratories which are inspected are those involved in the syphilis serology program. These are visited when initial approval is requested, and afterwards when problems are encountered or deemed necessary by the Principal Serologist.
Kans.	Annually, or oftener as occasion warrants.
Ky.	2-3% of all laboratories are visited yearly when personnel is available.
La.	(Handled by La. State Department of Hospitals).
Me.	Visit on request under voluntary program.
Md.	Annually.
Mass.	Only when necessary.
Mich.	Biennially required. Some labs more often (6 months or 1 year), if necessary.
Minn.	Annually.
Miss.	When proficiency testing results indicate need.
Mo.	Now endeavoring to do it annually.
Mont.	Very occasionally.
Nebr.	*
Nev.	Annually.
N.H.	-
N.J.	At least once a year.
N.M.	*
N.Y.	Two times per year.
N.C.	Annually, or more often if need is indicated.
N.D.	Annually (Medicare laboratories).
Ohio	Once in every 3-year period (Serology). Annually for Medicare.
Okla.	Syphilis serology, initially, and subsequently as required; milk, biannually; water, biannually; Medicare, annually.
Ore.	Annually.
Pa.	*
R.I.	At least once in 12 months.
S.C.	-
S.D.	- (Visitations are through Medical Facilities Section).
Tenn.	Annually.
Tex.	Visit 24 Regional Laboratories 2 or 3 times annually. Laboratory personnel does not visit the remainder.
Utah	Annually.
Vt.	Annually.
Va.	*
Wash.	About 25 laboratories per year. Time intervals vary according to need.
W.Va.	Biannually - Syphilis Serology; annually - Independent Medicare Laboratories.
Wisc.	Every 6-12 months.
Wyo.	Annually.
Guam	-
P.R.	One or more times per year.
V.I.	-

TABLE 5-6. INTRASTATE EVALUATION OF LABORATORIES  
(Continued)

Components of State Health Department, Other Than Laboratory, with Responsibilities for the Laboratory Improvement Program and Responsibilities Involved:

Ala.	Bureau of Licensure and Certification.
Alaska	Medicare Unit - Survey of independent clinical laboratories.
Ariz.	-
Ark.	Certification for Medicare and Social Security by the Division of Hospitals and Nursing Homes.
Cal.	*
Colo.	-
Conn.	-
Del.	-
D.C.	The laboratory examiners from the public health laboratory make the inspections and prepare the reports, but there is an Office of Inspections covering all types of facilities. The laboratory works in cooperation with that office.
Fla.	-
Ga.	-
Hawaii	-
Ida.	Adult Health Division has responsibility for surveillance of laboratories under Medicare. Same individual is working on Laboratory Improvement Program and Medicare Certification Program.
Ill.	There is a division of labor between the Laboratory Evaluation Section in Chicago, which has charge of the proficiency testing programs and the Bureau of Personal and Community Health in Springfield which has the responsibility of site surveys as well as regulatory functions.
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	-
Md.	The Division of Facilities Inspection and Certification coordinates Medicare certification and inspects the reports and records submitted by the Director of Certification and Field Services, Laboratories and Research Administration.
Mass.	-
Mich.	Bureau of Health Facilities - Medicare Independent Laboratories. Reports to Chicago Regional Office the status of independent laboratories at the end of each month.
Minn.	-
Miss.	-
Mo.	-
Mont.	Hospital and Medical Facilities Division. Title XVIII and Title XIX of the Social Security Act as amended. Independent laboratories and laboratories in non-JCAH hospitals. However, Medicare is going into JCAH hospitals on a selective basis.
Nebr.	Division of Standards. One employee (MT-ASCP) investigates compliance re. Medicare.
Nev.	-
N.H.	Two independent laboratories under the Bureau of Medical Care Administration.
N.J.	-
N.M.	*
N.Y.	-
N.C.	-
N.D.	Division of Health Facilities Medicare Certification activity - laboratory surveyor paid by State Health Department and working out of Laboratory.
Ohio	-
Okla.	Medicare approval and inspection of independent laboratories and hospitals by Health Facilities Services, Medical Care Division.
Ore.	-
Pa.	*
R.I.	Division of Planning and Standards for Medicare Certification.
S.C.	-
S.D.	Medical Facilities Section.
Tenn.	-
Tex.	*
Utah	-
Vt.	Medicare Licensure.
Va.	*
Wash.	-

TABLE 5-6. INTRASTATE EVALUATION OF LABORATORIES  
(Continued)

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Components of State Health Department, Other Than Laboratory, with Responsibilities for the Laboratory Improvement Program and Responsibilities Involved:

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W.Va.	-
Wisc.	The Wisconsin Division of Health, Section of Laboratory Evaluation, has the legal responsibility for laboratory examination, proficiency testing and evaluation. The State Laboratory of Hygiene, University of Wisconsin, furnishes the laboratory facilities, reference laboratory services, consultation and training.
Wyo.	-
Guam	-
P.R.	-
V.I.	-

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TABLE 5-7. PROFICIENCY TESTING PROGRAMS UNDER MEDICARE

	Proficiency Testing Programs Available:				Number of Labs Participating in Proficiency Testing Programs
	State-operated Program	State Approved Program			
		CAP	AAB	Other	
Ala.	X	X	X	-	71
Alaska	-	X	-	-	4
Ariz.	X (h)	X	X	-	156
Ark.	X	-	-	-	141
Cal.	*	*	*	*	*
Colo.	X	X	-	-	68
Conn.	X	X	-	-	183
Del.	X	X	X	-	15
D.C.	X	-	-	-	30
Fla.	X	X	X	-	496
Ga.	X	X	-	-	195
Hawaii	X	X	X	-	39
Ida.	-	X	-	-	33
Ill.	X	X	X	Chicago Blood Donor Service	625
Ind.	X	X	-	CDC	11
Ia.	X	X	X	-	135
Kans.	X	X	X	-	196
Ky.	-	X	X	-	20
La.	-	X	-	-	(c)
Me.	X	-	-	-	62
Md.	X	-	-	-	152
Mass.	X	X	X	CDC	92
Mich.	X	X	X	USPHS, Institute for Clinical Science	87
Minn.	X	X	-	-	202
Miss.	-	X	X	-	50
Mo.	X	X	X	-	119
Mont.	X	X	-	American Society of Clinical Pathologists	69
Nebr.	-	X	-	-	104
Nev.	X	X	-	-	43
N.H.	-	X	X	-	2
N.J.	X	X	X	-	301
N.M.	*	*	*	*	*
N.Y.	X	-	-	-	138
N.C.	-	X	X	-	*
N.D.	X	X	X	-	15
Ohio	X	X	X	-	324
Okla.	-	X	X	-	42
Ore.	X	X	X	CDC	*
Pa.	*	*	*	*	*
R.I.	X	X	-	-	51
S.C.	X	X	-	Sundermann	10
S.D.	X	X	-	-	45
Tenn.	-	X	-	-	206
Tex.	X	X	X	Sundermann	*
Utah	X	X	-	-	56
Vt.	-	X	-	-	26
Va.	-	X	X	-	*
Wash.	X	X	-	-	12
W.Va.	X	-	-	-	74
Wisc.	X	-	-	-	59
Wy.	X	X	-	-	27
Guam	X	-	-	-	1
P.R.	X	-	-	-	228
V.I.	-	-	-	CDC	1

TABLE 5-8. LABORATORIES LOSING CERTIFICATION UNDER MEDICARE

	# of Labs Losing Cert. During Year	Reasons for Losing Certification
Ala.	-	-
Alaska	-	-
Ariz.	4	Voluntary withdrawals.
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	3	Voluntary termination.
Del.	-	-
D.C.	-	-
Fla.	12	Voluntary withdrawal (8); unqualified personnel (3); poor performance (1).
Ga.	-	-
Hawaii	2	Laboratories sold. One recertified under new ownership. Certification pending on the other subject to refurbishing and staffing.
Ida.	-	-
Ill.	-	-
Ind.	1	Refused on-site survey.
Ia.	-	-
Kans.	-	-
Ky.	-	-
La.	(c)	-
Me.	-	-
Md.	-	-
Mass.	7	Closed (3); withdrew (4).
Mich.	5	No qualified director (2). Closed (3).
Minn.	-	-
Miss.	-	-
Mo.	2	Voluntary (One due to lack of qualified supervisor, and one to lack of business).
Mont.	-	-
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	11	Merged with another laboratory (1); closed (3); withdrew because unable or unwilling to meet requirements (4); withdrew voluntarily (3).
N.M.	*	*
N.Y.	14	Converted to collecting depots (3); closed (6); withdrew - unable to meet supervision standard (3); recommended for denial (4) - 2 confirmed because of inadequate quality control.
N.C.	-	-
N.D.	-	-
Ohio	8	Became collecting stations (2); voluntary withdrawal (3); deficiencies, terminated (1); considered group practice (1); new director not qualified (1).
Okla.	2	Converted to MD office, laboratories not covered by Medicare.
Ore.	1	Lack of qualified technical personnel.
Pa.	*	*
R.I.	-	-
S.C.	1	Laboratory closed due to death of Director.
S.D.	*	*
Tenn.	1	Ceased to operate.
Tex.	1	Laboratory could not find a general supervisor.
Utah	1	Closed voluntarily.
Vt.	-	-
Va.	-	-
Wash.	6	Closed (3); blood-drawing station (1); determined to be a hospital laboratory (1); voluntary termination (1).
W.Va.	-	-
Wisc.	-	-
Wyo.	-	-
Guam	-	-
P.R.	3	Violation.
V.I.	-	-

TABLES 5-5 - 5-8. FOOTNOTES

- (a) Estimated population as of July 1, 1971. Taken from Statistical Abstract of the United States: 1972. U. S. Bureau of the Census. (93rd Edition) Washington, D. C., 1972, pages 14 and 792.
- (b) In addition, there are three laboratories operated by one physician.
- (c) Handled by Louisiana State Department of Hospitals.
- (d) Medicare laboratories.
- (e) No record of number of doctors in the practice - some may be less than three.
- (f) Approval program in syphilis serology is operated for laboratories exempt from laboratory licensure law (physician office laboratories), but they must participate in evaluation program if they wish to perform premarital blood tests. There are 28 such laboratories. All laboratories covered by the licensure law and licensed to perform syphilis serology are automatically approved to perform premarital blood tests.
- (g) Premarital syphilis serology only.
- (h) Discontinued 6/1/72 due to lack of resources.

TABLE 5-9. INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS:  
NUMBER OF DIRECTORS AND TECHNOLOGISTS LICENSED BY DISCIPLINE

State	Discipline	Directors (a)	Technologists
Ala.	Syphilis Serology	39	32
Conn.	Clinical Chemistry	108	-
	Hematology	109	-
	Syphilis Serology	-	244
	Bacteriology	82	-
	Mycology	49	-
	Parasitology	88	-
	Serology (non VD)	102	-
	Virology	15	-
	Water	61	-
Milk	11	33	
D.C.	Syphilis Serology	30	-
	Bacteriology	22	-
Fla.	Blood Alcohol	-	46 (analysts)
Guam	Clinical Chemistry	-	1
	Hematology	-	1
	PKU	-	1
Hawaii	Syphilis Serology	39	53
Ill.	Water	22	22
	Milk	53	103
Md.	Water	22	68
	Milk	28	83
	Shellfish	6	23
Tenn.	Clinical Chemistry	25	1,042
	Hematology	15	1,032
	Immunohematology	22	1,009
	Bacteriology	18	1,008
	Parasitology	18	4

TABLE 5-10. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS: CLINICAL CHEMISTRY

	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.	
Ala.	*	*	*	
Alaska	2	* (b)	*	
Ariz.	106	4	(c)	
Ark.	106	8	4	
Cal.	*	*	*	
Colo.	68	6	6	
Conn.	108	4	2	
Del.	7	*	*	
D.C.	-	-	-	
Fla.	496	*	*	
Ga.	*	*	*	
Hawaii	26	*	*	
Ida.	33	4	4-10 (d)	
Ill.	*	*	*	
Ind.	11	*	*	
Ia.	73	4	3	
Kans.	189	4	2	
Ky.	*	*	*	
La.	-	-	-	
Me.	53	4	2	
Md.	126	2	2	
Mass.	43	4	4	
Mich.	371	4	2	
Minn.	200	7	7	
Miss.	*	*	*	
Mo.	*	*	*	
Mont.	34	* (d)	* (d)	
Nebr.	*	*	*	
Nev.	*	*	*	
N.H.	2	*	*	
N.J.	241	4	3-5	
N.M.	*	*	*	
N.Y.	420	6-10	3-4	
N.C.	-	-	-	
N.D.	-	-	-	
Ohio	305	2	2	
Okla.	*	*	*	
Ore.	170	4	2	
Pa.	*	*	*	
R.I.	19	4	2	
S.C.	-	-	-	
S.D.	*	*	*	
Tenn.	187	4	*	
Tex.	-	-	-	
Utah	31	4	5	
Vt.	*	*	*	
Va.	*	*	*	
Wash.	12	* (d)	* (d)	
W.Va.	62	4	4	
Wisc.	250	6	20	
Wyo.	31	24 (e)	6	
Guam	1	2	78	
P.R.	201	13	6	
V.I.	-	-	-	

  

<p>NOTE: The following States reported constituents tested.</p> <p><u>Constituents tested</u></p> <p>Ia. 3 or 4 components: glucose, urea nitrogen, cholesterol, sodium, potassium, creatinine, total protein</p> <p>Kans. 8 constituents</p> <p>Minn. 7 constituents</p> <p>Ohio 16 constituents</p> <p>W.Va. 3 constituents</p> <p>Wisc. 9 constituents</p> <p>Wyo. 10 (State), 8 (CAP)</p>	<p>Levels of each <u>Constituent</u></p> <p>*</p> <p>2</p> <p>*</p> <p>*</p> <p>2 levels</p> <p>3 or 4</p> <p>6 levels for State; 2 levels CAP</p>
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TABLE 5-11. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS: HEMATOLOGY AND IMMUNOHEMATOLOGY

	Hematology			Immunochemistry		
	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.
Ala.	*	*	*	*	*	*
Alaska	2	* (b)	*	-	-	-
Ariz.	107	4	(c)	102	4	(c)
Ark.	99	7	3	99	4	3
Cal.	*	*	*	*	*	*
Colo.	68	6	6	68	6	6
Conn.	109	4	2	-	-	-
Del.	7	*	*	-	-	-
D.C.	-	-	-	-	-	-
Fla.	496	*	*	496	*	*
Ga.	*	*	*	6	11	10
Hawaii	27	*	*	27	*	*
Ida.	33	4	4-10 (d)	33	4	4-10 (d)
Ill.	*	*	*	*	*	*
Ind.	11	*	*	9	*	*
Ia.	*	*	*	*	*	*
Kans.	184	4	5	159	4	3
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	30	2	5
Md.	121	- (f)	-	95	- (f)	-
Mass.	45	4	4	215	2	10
Mich.	383	4	2	332	4	2
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	2	*	*	2	*	*
N.J.	257	4	3-6	124	*	*
N.M.	*	*	*	*	*	*
N.Y.	450	3-4	10	380	4-10	(Varies)
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	300	2	5	300	2	5
Okla.	*	*	*	*	*	*
Ore.	165	4	2	144	4	2
Pa.	*	*	*	*	*	*
R.I.	21	4	2	19	4	2
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	187	4	*	201	4	*
Tex.	-	-	-	-	-	-
Utah	31	4	2	31	6	2
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	12	* (d)	* (d)	7	* (d)	* (d)
W.Va.	71	2	6	-	-	-
Wisc.	227	4	7	172	4	4
Wyo.	31	12 (e)	6	31	12 (e)	6
Guam	1	4	4	-	-	-
P.R.	227	7	4-6	184	4	3
V.I.	-	-	-	-	-	-

TABLE 5-12. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS: SYPHILIS SEROLOGY AND BACTERIOLOGY

	Syphilis Serology			Bacteriology		
	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.
Ala.	71	6	20	*	*	*
Alaska	6	4	10	2	* (b)	*
Ariz.	137	4	10	104	4	(c)
Ark.	141	10	10	66	4	3
Cal.	*	*	*	*	*	*
Colo.	98	4	6	55	4	6
Conn.	*	3 (g)	10	82	5	2
Del.	12	10	10	3	*	*
D.C.	30	10	10	22	6	2
Fla.	348	4	10	496 (h)	*	*
Ga.	165	10	10	60	3	5
Hawaii	39	4	10	27	*	*
Ida.	54	2	25	33	4	4-10(d)
Ill.	547	2-4	5-10	375 (i)	2-4	5-10
Ind.	160	12	8	4	*	*
Ia.	86	5	20	44	3	3-5
Kans.	134	6	10	89	4	2
Ky.	210	4	15	*	*	*
La.	7	10	20	-	-	-
Me.	-	-	-	49	5	2
Md.	111	1	10	85	1	7
Mass.	221	6	10	204	7	5
Mich.	341	6	10	302	4	2
Minn.	62	12	12	-	-	-
Miss.	132	5	10	*	*	*
Mo.	227	10	10	*	*	*
Mont.	64	4	10	69	2	5
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	241	5	10	220	4	5
N.M.	*	*	*	*	*	*
N.Y.	288	1-3	10-20	360	3-4	(Varies)
N.C.	210	10	10	-	-	-
N.D.	8	3	20	-	-	-
Ohio	325	6	10	229	2	5
Okla.	206	8	10	*	*	*
Ore.	142	3	10	154	4	2
Pa.	*	*	*	*	*	*
R.I.	38	3	20	17	4	1
S.C.	73	6	10	51	4	4-5
S.D.	45	*	*	*	*	*
Tenn.	167	10	10	187	4	*
Tex.	1,465	4	5	135	3	4
Utah	43	6	10	24	5	4
Vt.	9	5	10	*	*	*
Va.	150	10	15	*	*	*
Wash.	120	6	10	12	* (d)	* (d)
W.Va.	128	5	12	41	2	2
Wisc.	154	10	10	176	6	4
Wyo.	31	50	10	22	2 (e)	1
Guam	1	10	10	-	-	-
P.R.	172	4	10	114	4	3
V.I.	-	-	-	-	-	-

TABLE 5-13. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS: MYCOLOGY AND PARASITOLOGY

	Mycology			Parasitology		
	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	17	4	(c)	100	4	(c)
Ark.	22	2	3	69	2	3
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	49	4	2	88	2	2
Del.	1	*	*	4	*	*
D.C.	-	-	-	-	-	-
Fla.	(h)	-	-	(h)	-	-
Ga.	37	3	5	58	3	5
Hawaii	1	*	*	27	*	*
Ida.	-	-	-	33	4	4-10(d)
Ill.	16	*	*	*	*	*
Ind.	-	-	-	-	-	-
Ia.	*	*	*	48	2	3-5
Kans.	-	-	-	84	4	1
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	86	1	5
Mass.	-	-	-	-	-	-
Mich.	196	4	2	274	4	2
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	123	1	20	260	10	(Varies)
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	161	1	5	214	1	5
Okla.	*	*	*	*	*	*
Ore.	20	4	2	145	4	1
Pa.	*	*	*	*	*	*
R.I.	-	-	-	16	4	1
S.C.	20	4	3	64	4	5
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	187	4	*
Tex.	35	4	5	170	5	5
Utah	-	-	-	18	5	4
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	-	-	-	10	* (d)	* (d)
W.Va.	-	-	-	48	2	2
Wisc.	99	2	6	134	2	6
Wyo.	-	-	-	19	4 (d)	1
Guam	-	-	-	-	-	-
P.R.	-	-	-	214	4	3
V.I.	-	-	-	-	-	-



TABLE 5-14. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS: SEROLOGY (NON VD) AND VIROLOGY

	SeroLOGY (Non-Vd)				ViroLOGY			
	No. of labs Participating	Yearly no. of eval. shpts./lab	No. of specimens per shpt.	No. of Participants: Australia Antigen	No. of labs Participating	Yearly no. of eval. shpts./lab	No. of specimens per shpt.	No. of Participants: Rubella
Ala.	*	*	*	*	*	*	*	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	104	4	(c)	-	-	-	-	-
Ark.	74	1	3	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*
Colo.	68	5	20	-	-	-	-	-
Conn.	102	2	2	*	17	1	8	*
Del.	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-
Fla.	496	*	*	*	28 (j)	4	5	-
Ga.	*	*	*	*	15	4	5	15
Hawaii	27	*	*	*	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	*	*	*	*	78	2-4	5-10	78
Ind.	-	-	-	-	-	-	-	-
Ia.	20	2	3	*	*	*	*	*
Kans.	123	4	1	-	-	-	-	-
Ky.	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-
Ma.	23	1	5	*	-	-	-	-
Md.	107	- (f)	-	-	18	- (f)	-	-
Mass.	210	2	5	*	36	1	5	36
Mich.	317	4	2	-	19	-	-	19
Minn.	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-
N.J.	92	*	*	92	-	-	-	-
N.M.	*	*	*	*	*	*	*	*
N.Y.	400	1-5	3-18	400	27	10	1	27
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	180	1	5	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*
Ore.	155	4	1	-	1	-	-	-
Pa.	*	*	*	*	*	*	*	*
R.I.	21	4	1	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	59	3	3	-	-	-	-	-
Utah	24	5	4	-	8	5	4	8
Vt.	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*
Wash.	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-
Wisc.	182	38	12	32	34	4	20	34
Wyo.	19	4 (d)	1	-	-	-	-	-
Guam	1	*	*	*	1	2	6	-
P.R.	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-

TABLE 5-15. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS: PKU AND WATER

	PKU			Water		
	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	17	1	20	8	-	-
Conn.	-	-	-	61	5	2
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	59	-	-
Ga.	20 (k)	4	10	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	2	*	10	-	-	-
Ill.	112 (k)	2-4	4	22	*	*
Ind.	-	-	-	48	-	-
Ia.	31	4	12 (1)	20	1	4
Kans.	-	-	-	-	-	-
Ky.	*	*	*	23	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	26	2	10
Mass.	-	-	-	61 (m)	-	-
Mich.	25	2	10	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	10	8	10	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	4	2	20	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	15 (n)	-	-
N.D.	-	-	-	7	-	-
Ohio	4	1	4	13	1	6
Okla.	*	*	*	12	-	-
Ore.	-	-	-	14	1	10
Pa.	*	*	*	*	*	*
R.I.	-	-	-	3	1	4
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	24	30	2-5
Utah	11	2	6	4	(o)	(o)
Vt.	*	*	*	4	1-4	1
Va.	*	*	*	*	*	*
Wash.	-	-	-	22	-	-
W.Va.	-	-	-	-	-	-
Wisc.	70 (k)	6	6	119 (p)	2	17
Wyo.	-	-	-	-	-	-
Guam	1	2	5	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-16. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS: MILK AND URINALYSIS

	Milk			Urinalysis		
	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	5	2	*	96	4	(c)
Ark.	5	2	14	-	-	-
Cal.	*	*	*	*	*	*
Colo.	13	2	20	-	-	-
Conn.	11	2	12	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	38	2	10	-	-	-
Ga.	7	2	11	*	*	*
Hawaii	-	-	-	-	-	-
Ida.	7	2	14	-	-	-
Ill.	53	2	9	*	*	*
Ind.	14	2	10	-	-	-
Ia.	*	*	*	*	*	*
Kans.	14	*	*	162	*	*
Ky.	12	2	16	*	*	*
La.	8	2	10	-	-	-
Me.	-	-	-	-	-	-
Md.	30	2	22	119	- (f)	-
Mass.	55 (q)	-	-	-	-	-
Mich.	-	-	-	211	4	2
Minn.	-	-	-	-	-	-
Miss.	5	2	20	*	*	*
Mo.	15	23	23	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	2	*	*
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	38 (n)	-	-	-	-	-
N.D.	4	-	-	-	-	-
Ohio	30	2	22	-	-	-
Okla.	6	2	22	*	*	*
Ore.	-	-	-	148	4	1
Pa.	*	*	*	*	*	*
R.I.	2	2	20	22	4	*
S.C.	9	2	14	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	21	2	10	-	-	-
Tex.	23	2	8	-	-	-
Utah	-	-	-	22	4	2
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	12	4	6	12	* (d)	* (d)
W.Va.	9	2	17	-	-	-
Wisc.	(p)	(p)	(p)	-	-	-
Wyo.	-	-	-	19	4 (d)	1
Guam	-	-	-	-	-	-
P.R.	-	-	-	228	2	2
V.I.	-	-	-	-	-	-

TABLE 5-17. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND  
PROFICIENCY TESTING PROGRAMS: OTHER DISCIPLINES

State	Discipline	No. of labs Participating	Yearly no. of evaluation shpts. per lab	No. of specimens per shpt.
Ariz.	Toxicology	1	-	-
Fla.	Rabies	5	4	4
	Blood Alcohol	46 (r)	4	2
Ga.	PKU (McCaman-Robins)	8	4	5
Ill.	TB Culture	159	2-3	3-9
	Quantitative Analysis	51	2-4	4
Md.	Mycobacteriology	50	1	4
	Shellfish	7	1	6
N.Y.	Mycobacteriology	115	2	4
	Exfoliative Cytology	197	(on-site)	10
	Toxicology	30	(Varies)	36
Ore.	Toxicology	1	*	*
R.I.	Cytology	3	*	*
Utah	Blood Alcohol	8	2	3
Wisc.	PKU Quantitative	12	6	6

TABLES 5-9 - 5-17. FOOTNOTES

- (a) New York - all directors of laboratories under permit must hold certificates of qualification. Not required for technologists outside of New York City.
- (b) CAP specialty series.
- (c) Varies with the particular program in which a laboratory is enrolled.
- (d) CAP Basic Survey Program.
- (e) Represents State program. Figures under CAP program are as follows: (First figure is yearly number of evaluation shipments per laboratory; 2nd figure is number of specimens per shipment) Clinical Chemistry, 8, 2; Hematology, 8, 2; Immunohematology, 8, 2; Bacteriology, 4, 1.
- (f) None in FY 72.
- (g) Each certified syphilis serologist receives 3 shipments of 10 specimens each. CLIA licensed laboratories receive an additional 30 specimens.
- (h) Bacteriology, Mycology, and Parasitology included together.
- (i) Represents TB Smear. TB Culture shown under "Other Disciplines," Table 5-17.
- (j) Figures represent Rubeola. Rabies shown under "Other Disciplines," Table 5-17.
- (k) Represents Guthrie. Quantitative Analysis shown under "Other Disciplines," Table 5-17.
- (l) Four specimens in Quantitative Test Survey.
- (m) Laboratories evaluated by Water Testing Laboratory, Massachusetts Department of Public Health.
- (n) Agent U. S. Public Health Service.
- (o) Irregular.
- (p) Figures for Water and Milk included together.
- (q) Laboratories evaluated by Food and Drug Control Laboratory, Massachusetts Department of Public Health.
- (r) Represents number of analysts participating.

TABLE 5-18. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: CLINICAL CHEMISTRY

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Group Practice, Other
Ala.	*	*	*	*	*	*
Alaska	2	-	-	-	-	-
Ariz.	41	62	2	-	1	-
Ark.	11	77	-	-	18	-
Cal.	*	*	*	*	*	*
Colo.	27	32	8	-	1	-
Conn.	55	44	9	-	-	-
Del.	*	*	*	*	*	*
D.C.	-	-	-	-	-	-
Fla.	*	*	*	*	*	*
Ga.	*	*	*	*	*	*
Hawaii	*	*	*	*	*	*
Ida.	6	24	3	-	-	-
Ill.	*	*	*	*	*	*
Ind.	11	-	-	-	-	-
Ia.	6	61	-	-	6	-
Kans.	25	164	-	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	49	-	-	4	-
Md.	58	61	7	-	-	-
Mass.	*	*	*	*	*	*
Mich.	112	233	8	4	14	-
Minn.	10	170	-	1	19	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	*	*	*	*	*	*
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	2	-	-	-	-	-
N.J.	106	124	5	6	-	-
N.M.	*	*	*	*	*	*
N.Y.	196	198	36	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	119	184	2	-	-	-
Okla.	*	*	*	*	*	*
Ore.	35	85	3	-	7	40
Pa.	*	*	*	*	*	*
R.I.	19	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	22	165	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	7	24	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	12	-	-	-	-	-
W.Va.	15	45	-	2	-	-
Wisc.	10	172	-	2	66	-
Wyo.	3	25	-	-	3	-
Guam	-	-	1	-	-	-
P.R.	162	31	8	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-19. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: HEMATOLOGY

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	2	-	-	-	-	-
Ariz.	41	62	2	-	2	-
Ark.	10	71	-	-	18	-
Cal.	*	*	*	*	*	*
Colo.	27	32	8	-	1	-
Conn.	57	43	9	-	-	-
Del.	*	*	*	*	*	*
D.C.	-	-	-	-	-	-
Fla.	*	*	*	*	*	*
Ga.	*	*	*	*	*	*
Hawaii	*	*	*	*	*	*
Ida.	6	24	3	-	-	-
Ill.	*	*	*	*	*	*
Ind.	11	-	-	-	-	-
Ia.	*	*	*	*	*	*
Kans.	24	160	-	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Ma.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
Mass.	*	*	*	*	*	*
Mich.	117	241	8	3	14	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	2	-	-	-	-	-
N.J.	120	124	5	6	2	-
N.M.	*	*	*	*	*	*
N.Y.	200	220	30	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	112	188	1	-	-	-
Okla.	*	*	*	*	*	*
Ore.	31	84	2	-	7	41
Pa.	*	*	*	*	*	*
R.I.	21	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	22	165	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	7	24	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	12	-	-	-	-	-
W.Va.	20	47	2	2	-	-
Wisc.	15	164	-	-	48	-
Wyo.	3	25	-	-	3	-
Guam	-	-	1	-	-	-
P.R.	170	49	8	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-20. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: IMMUNOHEMATOLOGY

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	39	61	2	-	-	-
Ark.	11	71	-	-	18	-
Cal.	*	*	*	*	*	*
Colo.	27	32	8	-	1	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	*	*	*	*	*	*
Ga.	-	2	4	-	-	-
Hawaii	*	*	*	*	*	*
Ida.	6	24	3	-	-	-
Ill.	*	*	*	*	*	*
Ind.	9	-	-	-	-	-
Ia.	*	*	*	*	*	*
Kans.	24	135	-	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	30	-	-	-	-
Md.	*	*	*	*	*	*
Mass.	*	*	*	*	*	*
Mich.	102	220	10	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	2	-	-	-	-	-
N.J.	-	124	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	148	226	6	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	110	186	4	-	-	-
Okla.	*	*	*	*	*	*
Ore.	28	83	1	-	5	27
Pa.	*	*	*	*	*	*
R.I.	19	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	18	165	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	8	23	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	7	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	12	155	-	-	5	-
Wyo.	3	25	-	-	3	-
Guam	-	-	-	-	-	-
P.R.	153	25	6	-	-	-
V.I.	-	-	-	-	-	-



TABLE 5-21. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: SYPHILIS SEROLOGY

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	21	40	9	1	-	-
Alaska	1	5	-	-	-	-
Ariz.	43	62	4	-	28	-
Ark.	11	84	-	-	46	-
Cal.	*	*	*	*	*	*
Colo.	38	52	8	-	-	-
Conn.	*	*	*	-	-	-
Del.	6	6	-	-	-	-
D.C.	9	17	1	-	3	-
Fla.	*	*	*	*	*	*
Ga.	26	107	10	6	16	-
Hawaii	17	15	6	1	-	-
Ida.	12	35	5	-	-	2
Ill.	40	261	11	218	17	-
Ind.	34	121	4	-	-	1
Ia.	10	67	-	8	1	-
Kans.	24	97	1	-	12	-
Ky.	20	106	4	-	80	-
La.	-	-	*	-	-	-
Me.	-	-	-	-	-	-
Md.	51	57	4	-	-	-
Mass.	*	*	*	*	*	*
Mich.	105	207	12	-	17	-
Minn.	7	55	-	-	-	-
Miss.	15	80	-	-	37	-
Mo.	67	134	8	6	12	-
Mont.	3	42	1	1	17	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	106	124	5	6	-	-
N.M.	*	*	*	*	*	*
N.Y.	126	140	22	-	-	-
N.C.	70	125	15	-	-	-
N.D.	-	5	-	1	2	-
Ohio	109	208	8	-	-	-
Okla.	24	100	6	-	65	11
Ore.	32	79	2	-	7	22
Pa.	*	*	*	*	*	*
R.I.	19	19	-	-	-	-
S.C.	7	66	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	22	145	6	-	24	-
Tex.	*	*	24	*	*	*
Utah	12	32	-	-	-	-
Vt.	-	9	-	-	-	-
Va.	*	*	*	*	*	*
Wash.	28	74	10	-	-	8
W.Va.	36	73	2	6	11	-
Wisc.	14	123	1	3	13	-
Wyo.	3	25	-	-	10	-
Guam	-	-	1	-	-	-
P.R.	139	25	8	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-22. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: BACTERIOLOGY

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	2	-	-	-	-	-
Ariz.	40	62	2	-	-	-
Ark.	10	48	-	-	8	-
Cal.	*	*	*	*	*	*
Colo.	18	32	5	-	-	-
Conn.	29	47	6	-	-	-
Del.	*	*	*	*	*	*
D.C.	3	16	1	-	2	-
Fla.	*	*	*	*	*	*
Ga.	15	36	8	-	1	-
Hawaii	*	*	*	*	*	*
Ida.	6	24	3	-	-	-
Ill.	13 (a)	228	7	121	6	-
Ind.	4	-	-	-	-	-
Ia.	3	39	-	-	2	-
Kans.	23	65	1	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	49	-	-	-	-
Md.	30	45	10	-	-	-
Mass.	*	*	*	*	*	*
Mich.	91	199	12	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	3	57	2	-	7	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	108	101	5	6	-	-
N.M.	*	*	*	*	*	*
N.Y.	150	177	33	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	83	141	5	-	-	-
Okla.	*	*	*	*	*	*
Ore.	31	80	3	-	5	34
Pa.	*	*	*	*	*	*
R.I.	17	-	-	-	-	-
S.C.	6	45	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	21	165	-	-	-	-
Tex.	*	*	6	*	*	*
Utah	6	18	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	12	-	-	-	-	-
W.Va.	9	32	-	-	-	-
Wisc.	11	150	4	1	10	-
Wyo.	3	16	-	-	3	-
Guam	-	-	-	-	-	-
P.R.	90	18	6	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-23. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: MYCOLOGY

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	2	15	-	-	-	-
Ark.	5	15	-	-	2	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	10	39	-	-	-	-
Del.	*	*	*	*	*	*
D.C.	-	-	-	-	-	-
Fla.	*	*	*	*	*	*
Ga.	8	21	7	-	1	-
Hawaii	*	*	*	*	*	*
Ida.	-	-	-	-	-	-
Ill.	*	*	*	*	*	*
Ind.	-	-	-	-	-	-
Ia.	*	*	*	*	*	*
Kans.	-	-	-	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	54	134	8	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	23	80	20	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	59	101	1	-	-	-
Okla.	*	*	*	*	*	*
Ore.	4	14	1	-	-	1
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	2	17	1	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	*	*	*	*	*	*
Utah	-	-	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	5	85	2	1	6	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-24. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: PARASITOLOGY

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	36	61	2	-	-	-
Ark.	10	49	-	-	10	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	37	47	4	-	-	-
Del.	*	*	*	*	*	*
D.C.	-	-	-	-	-	-
Fla.	*	*	*	*	*	*
Ga.	12	37	8	-	1	-
Hawaii	*	*	*	*	*	*
Ida.	6	24	3	-	-	-
Ill.	*	*	*	*	*	*
Ind.	-	-	-	-	-	-
Ia.	3	43	-	-	2	-
Kans.	23	60	1	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	31	45	10	-	-	-
Mass.	-	-	-	-	-	-
Mich.	75	190	9	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	90	142	28	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	78	132	4	-	-	-
Okla.	*	*	*	*	*	*
Ore.	30	78	3	-	5	29
Pa.	*	*	*	*	*	*
R.I.	16	-	-	-	-	-
S.C.	6	51	6	-	1	-
S.D.	*	*	*	*	*	*
Tenn.	21	165	-	-	-	-
Tex.	*	*	8	*	*	*
Utah	5	13	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	10	-	-	-	-	-
W.Va.	10	36	2	-	-	-
Wisc.	6	116	3	1	8	-
Wyo.	3	15	-	-	1	-
Guam	-	-	-	-	-	-
P.R.	157	49	8	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-25. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: SEROLOGY (NON VD)

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	34	58	2	-	-	-
Ark.	10	56	-	-	8	-
Cal.	*	*	*	*	*	*
Colo.	27	32	8	-	1	-
Conn.	51	47	4	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	*	*	*	*	*	*
Ga.	*	*	*	*	*	*
Hawaii	*	*	*	*	*	*
Ida.	-	-	-	-	-	-
Ill.	*	*	*	*	*	*
Ind.	-	-	-	-	-	-
Ia.	2	18	-	-	-	-
Kans.	23	99	1	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	23	-	-	-	-
Md.	*	*	*	*	*	*
Mass.	*	*	*	*	*	*
Mich.	105	202	10	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	3	-	-	89	-	-
N.M.	*	*	*	*	*	*
N.Y.	160	221	19	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	65	112	3	-	-	-
Okla.	*	*	*	*	*	*
Ore.	31	82	4	-	7	31
Pa.	*	*	*	*	*	*
R.I.	21	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	*	*	24	*	*	*
Utah	6	18	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	8	167	-	3	4	-
Wyo.	3	15	-	-	1	-
Guam	-	-	1	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-26. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND  
 PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: VIROLOGY

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	15	2	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	18 (b)	9	1	-	-	-
Ga.	4	8	3	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	41	1	37	-	-
Ind.	-	-	-	-	-	-
Ia.	*	*	*	*	*	*
Kans.	-	-	-	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
Mass.	*	*	*	*	*	*
Mich.	5	14	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	10	15	2	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	1	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	3	5	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	4	28	1	1	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	1	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-27. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: PKU

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	16	1	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	.	-	-
Ga.	-	15 (c)	5	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	2	-	-	-	-
Ill.	1 (c)	95	-	16	-	-
Ind.	-	-	-	-	-	-
Ia.	5	26	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	25	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	2	8	1	1	-	-
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	1	3	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	4	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	2	78	-	2	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	1	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-28. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: WATER

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	8	-	-	-
Conn.	*	*	*	*	*	*
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	*	*	*	*	*	*
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	3	4	3	12	-	-
Ind.	3	-	7	10	-	28
Ia.	-	-	18	2	-	-
Kans.	-	-	-	-	-	-
Ky.	14	-	7	2	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	7	-	12	7	-	-
Mass.	*	*	*	*	*	*
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	7	-	-	-
Ohio	-	-	13	-	-	-
Okla.	-	-	6	-	-	6
Ore.	4	2	1	-	-	7
Pa.	*	*	*	*	*	*
R.I.	3	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	24	-	-	-
Utah	-	-	3	1	-	-
Vt.	-	-	-	4	-	-
Va.	*	*	*	*	*	*
Wash.	1	-	15	2	-	4
W.Va.	-	-	-	-	-	-
Wisc.	-	-	113 (d)	6 (d)	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-



TABLE 5-29. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: MILK

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	1	-	4	-	-	-
Ark.	-	-	3	2	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	8	5	-	-
Conn.	-	-	11	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	*	*	*	*	*	*
Ga.	-	-	7	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	5	2	-	-
Ill.	1	-	12	40	-	-
Ind.	-	-	1	13	-	-
Ia.	*	*	*	*	*	*
Kans.	-	-	3	11	-	-
Ky.	-	-	6	6	-	-
La.	-	-	*	-	-	-
Me.	-	-	-	-	-	-
Md.	5	-	11	14	-	-
Mass.	*	*	*	*	*	*
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	4	1	-	-
Mo.	-	-	13	2	-	-
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	4	-	-	-
Ohio	-	-	16	14	-	-
Okla.	-	-	6	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	2	-	-	-	-	-
S.C.	-	-	4	5	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	6	15	-	-
Tex.	-	-	23	-	-	-
Utah	-	-	-	-	-	-
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	-	-	12 (e)	-	-	-
W.Va.	-	-	7	2	-	-
Wisc.	-	-	(d)	(d)	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-30. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: URINALYSIS

	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ala.	*	*	*	*	*	*
Alaska	-	-	-	-	-	-
Ariz.	33	61	2	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	*	*	*	*	*	*
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	*	*	*	*	*	*
Ind.	-	-	-	-	-	-
Ia.	*	*	*	*	*	*
Kans.	24	138	-	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
Mass.	-	-	-	-	-	-
Mich.	34	163	1	-	13	-
Minn.	-	-	-	-	-	-
Miss.	*	*	*	*	*	*
Mo.	*	*	*	*	*	*
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	*	*	*	*	*	*
N.H.	2	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	*	*	*	*	*	*
Ore.	29	80	1	-	6	32
Pa.	*	*	*	*	*	*
R.I.	22	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	*	*	*	*	*	*
Vt.	*	*	*	*	*	*
Va.	*	*	*	*	*	*
Wash.	12	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	3	15	-	-	1	-
Guam	-	-	-	-	-	-
P.R.	171	49	8	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-31. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF LABORATORY: OTHER DISCIPLINES

State	Discipline	Independent Clinical	Hospital	Public Health	Commercial	M.D. Office Labs	Other
Ariz.	Toxicology	-	1	-	-	-	-
Fla.	Rabies	-	-	5	-	-	-
	Blood Alcohol	*	*	*	*	*	*
Ga.	PKU (McCaman-Robins)	1	2	5	-	-	-
Ill.	TB Culture	1	131	2	25	-	-
	Quantitative Analysis	1	40	-	10	-	-
Md.	Mycobacteriology	12	37	1	-	-	-
	Shellfish	-	-	6	-	-	1
N.Y.	Mycobacteriology	7	87	21	-	-	-
	Exfoliative Cytology	40	141	16	-	-	-
	Toxicology	6	15	9	-	-	-
Ore.	Toxicology	1	-	-	-	-	-
R.I.	Cytology	3	-	-	-	-	-
Utah	Blood Alcohol	1	6	1	-	-	-

TABLE 5-32. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: CLINICAL CHEMISTRY

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	2	-	-	-	-	-	X	-
Ariz.	-	76	30	-	X	-	-	X (f)	-
Ark.	106	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	68	*	-	-	-	-	-	-	X
Conn.	108	6	-	-	X	-	-	-	-
Del.	-	4	3	-	-	-	-	-	X
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	381	115	-	-	-	X	-	-
Ga.	*	*	*	*	*	*	*	*	*
Hawaii	-	26	-	-	-	-	-	-	X
Ida.	-	33	-	-	-	-	-	-	X
Ill.	-	317	119	-	*	*	*	*	*
Ind.	-	11	-	-	-	-	-	X	-
Ia.	73	*	*	-	-	-	-	-	X
Kans.	-	180	9	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	53	38	-	-	-	-	-	-	X
Md.	126	-	-	-	-	X	-	-	-
Mass.	*	*	*	*	-	-	-	-	X
Mich.	153	219	26	2	X	-	-	-	X
Minn.	200	78	-	-	-	-	-	-	X
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	34	-	-	*	*	*	*	*
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	2	-	-	-	-	-	-	-
N.J.	241	51	16	-	-	-	-	X	X
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	420	-	-	-	-	X	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	305	242	6	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	138	20	12	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	19	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	187	-	-	X	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	-	31	-	-	-	-	-	X	X
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	12	-	-	-	-	-	X	-
W.Va.	62	-	-	-	-	-	-	-	X
Wisc.	250	-	-	-	-	-	-	X	X
Wyo.	21	19	-	-	-	-	-	X	-
Guam	1	-	-	-	-	-	-	-	X
P.R.	201	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-33. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: HEMATOLOGY

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	2	-	-	-	-	-	X	-
Ariz.	-	77	30	-	X	-	-	X	-
Ark.	99	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	68	*	-	-	-	-	-	-	X
Conn.	109	6	-	-	X	-	-	-	-
Del.	-	4	3	-	-	-	-	-	X
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	381	115	-	-	-	X	-	-
Ga.	*	*	*	*	*	*	*	*	*
Hawaii	-	27	-	-	-	-	-	-	X
Ida.	-	33	-	-	-	-	-	-	X
Ill.	-	317	119	-	*	*	*	*	*
Ind.	-	11	-	-	-	-	-	X	-
Ia.	-	*	*	-	-	-	-	-	-
Kans.	-	180	9	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	121	-	-	-	-	X	-	-	-
Mass.	*	*	*	*	-	-	-	-	X
Mich.	166	216	27	2	X	-	-	-	X
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	2	-	-	-	-	-	-	-
N.J.	257	51	16	-	-	-	-	X	X
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	450	-	-	-	-	X	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	300	242	6	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	133	20	12	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	21	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	187	-	-	X	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	-	31	-	-	-	-	-	X	X
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	12	-	-	-	-	-	X	-
W.Va.	71	-	-	-	-	-	-	-	X
Wisc.	227	-	-	-	-	-	-	X	X
Wyo.	21	19	-	-	-	-	-	X	-
Guam	1	-	-	-	-	-	-	-	X
P.R.	227	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-34. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: IMMUNOHEMATOLOGY

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	76	26	-	X	-	-	X	-
Ark.	99	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	68	*	-	-	-	-	-	-	X
Conn.	-	-	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	381	115	-	-	-	X	-	-
Ga.	6	*	-	-	-	-	-	-	X
Hawaii	-	27	-	-	-	-	-	-	X
Ida.	-	33	-	-	-	-	-	-	X
Ill.	-	317	119	-	*	*	*	*	*
Ind.	-	9	-	-	-	-	-	X	-
Ia.	-	*	*	-	-	-	-	-	-
Kans.	-	135	9	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	30	38	-	-	-	-	-	-	X
Md.	95	-	-	-	-	X	-	-	-
Mass.	*	*	*	*	-	-	-	X	X
Mich.	140	210	24	-	X	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	2	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*	*
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	380	-	-	-	-	X	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	300	*	6	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	112	20	12	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	19	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	187	-	-	X	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	10	21	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	7	-	-	-	-	-	X	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	172	-	-	-	-	-	-	X	X
Wyo.	21	19	-	-	-	-	-	X	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	184	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-35. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: SYPHILIS SEROLOGY

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	71	-	-	-	-	-	-	X	-
Alaska	6	-	-	-	-	X	-	-	-
Ariz.	137	2	-	-	X	-	-	X	-
Ark.	141	-	-	-	-	-	-	X	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	98	*	-	-	-	-	-	X	-
Conn.	*	*	-	-	X	-	-	-	-
Del.	12	-	-	-	X	-	-	-	-
D.C.	30	-	-	-	-	-	-	X	-
Fla.	348	-	-	-	-	-	X	-	-
Ga.	165	-	-	-	-	-	-	X	-
Hawaii	39	1	-	-	-	-	-	X	-
Ida.	54	-	-	-	-	-	-	X	-
Ill.	547	11	-	-	*	*	*	*	*
Ind.	160	-	-	-	-	-	-	X	X
Ia.	86	-	-	-	-	-	-	X	-
Kans.	134	-	-	-	-	-	-	X	-
Ky.	210	-	-	-	-	-	-	X	-
La.	7	-	-	-	-	-	-	-	X
Me.	-	-	-	-	-	-	-	-	-
Md.	111	-	-	-	-	X	-	-	-
Mass.	*	*	*	*	-	-	-	X	-
Mich.	341	89	1	1	X	-	-	X	-
Minn.	62	-	-	-	-	-	-	-	X
Miss.	132	-	-	-	-	-	-	X	-
Mo.	227	-	-	-	-	-	-	X	-
Mont.	64	-	-	-	-	-	-	X	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	241	-	-	-	-	-	-	X	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	288	-	-	-	-	X	-	-	-
N.C.	210	-	-	-	-	-	-	X	-
N.D.	8	-	-	-	-	-	-	X	-
Ohio	325	5	-	-	-	-	-	X	-
Okla.	206	-	-	-	-	-	-	X	-
Ore.	142	-	-	-	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	38	-	-	-	X	-	-	X	-
S.C.	73	-	-	-	-	-	-	-	X
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	167	-	-	-	-	-	-	X	-
Tex.	*	*	*	*	-	-	-	X	-
Utah	43	1	-	-	-	-	-	X	-
Vt.	9	-	-	-	-	-	-	X	-
Va.	150	-	-	-	-	-	-	X	-
Wash.	120	-	-	-	-	-	-	X	-
W.Va.	128	-	-	-	-	-	-	X	-
Wisc.	154	-	-	-	-	-	-	X	X
Wyo.	38	-	-	-	-	-	-	X	-
Guam	1	-	-	-	-	-	-	-	X
P.R.	172	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-36. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: BACTERIOLOGY

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	2	-	-	-	-	-	X	-
Ariz.	-	78	26	-	X	-	-	X	-
Ark.	66	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	55	*	-	-	-	-	-	-	X
Conn.	82	-	-	-	X	-	-	-	-
Del.	-	1	2	-	-	-	-	-	X
D.C.	22	-	-	-	-	-	-	X	-
Fla.	-	381	115	-	-	-	X	-	-
Ga.	60	*	-	-	-	-	-	-	X
Hawaii	-	27	-	-	-	-	-	-	X
Ida.	-	33	-	-	-	-	-	-	X
Ill.	375 (g)	-	-	-	*	*	*	*	*
Ind.	-	4	-	-	-	-	-	X	-
Ia.	44	*	*	-	-	-	-	-	X
Kans.	-	80	9	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	49	38	-	-	-	-	-	-	X
Md.	85	-	-	-	-	X	-	-	-
Mass.	*	*	*	*	-	-	-	-	X
Mich.	127	210	25	-	X	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	69	-	-	-	-	-	-	-	X
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	220	-	-	-	-	-	-	X	X
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	360	-	-	-	-	X	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	229	242	6	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	122	20	12	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	17	-	-	X	-	-	-	-
S.C.	51	-	-	-	-	-	-	-	X
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	187	-	-	X	-	-	-	-
Tex.	*	*	*	*	-	-	-	X	X
Utah	18	9	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	12	-	-	-	-	-	X	-
W.Va.	41	-	-	-	-	-	-	-	X
Wisc.	176	-	-	-	-	-	-	X	X
Wyo.	3	19	-	-	-	-	-	X	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	114	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-



TABLE 5-37. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: MYCOLOGY

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	17	-	-	X	-	-	X	-
Ark.	22	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	-	-
Conn.	49	-	-	-	X	-	-	-	-
Del.	-	1	-	-	-	-	-	-	X
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	(h)	(h)	-	-	-	X	-	-
Ga.	37	*	-	-	-	-	-	-	X
Hawaii	-	1	-	-	-	-	-	-	X
Ida.	-	-	-	-	-	-	-	-	-
Ill.	-	16	-	-	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-	-
Ia.	-	*	*	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	129	86	-	-	X	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	123	-	-	-	-	X	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	161	12	-	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	19	-	1	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-	-
S.C.	20	-	-	-	-	-	-	-	X
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	*	*	*	*	-	-	-	-	X
Utah	-	-	-	-	-	-	-	-	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	99	-	-	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-38. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: PARASITOLOGY

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	74	26	-	X	-	-	X	-
Ark.	69	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	-	-
Conn.	88	-	-	-	X	-	-	-	-
Del.	-	1	3	-	-	-	-	-	X
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	(h)	(h)	-	-	-	X	-	-
Ga.	58	*	-	-	-	-	-	-	X
Hawaii	-	27	-	-	-	-	-	-	X
Ida.	-	33	-	-	-	-	-	-	X
Ill.	-	317	62	-	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-	-
Ia.	48	*	*	-	-	-	-	-	X
Kans.	-	73	9	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	86	-	-	-	-	X	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	107	210	20	-	X	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	260	-	-	-	-	X	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	214	*	6	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	113	20	12	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	16	-	-	X	-	-	-	-
S.C.	64	-	-	-	-	-	-	-	X
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	187	-	-	X	-	-	-	-
Tex.	*	*	*	*	-	-	-	X	X
Utah	17	1	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	10	-	-	-	-	-	X	-
W.Va.	48	-	-	-	-	-	-	-	X
Wisc.	134	-	-	-	-	-	-	X	X
Wyo.	-	19	-	-	-	-	-	X	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	214	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-39. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: SEROLOGY (NON VD)

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	68	26	-	X	-	-	X	-
Ark.	74	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	68	*	-	-	-	-	-	-	X
Conn.	102	-	-	-	X	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	381	115	-	-	-	X	-	-
Ga.	*	*	*	*	*	*	*	*	*
Hawaii	-	27	-	-	-	-	-	-	X
Ida.	-	-	-	-	-	-	-	-	-
Ill.	-	21	62	-	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-	-
Ia.	20	*	*	-	-	-	-	-	X
Kans.	-	114	9	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	23	38	-	-	-	-	-	-	X
Md.	107	-	-	-	-	X	-	-	-
Mass.	*	*	*	*	-	-	-	-	X
Mich.	146	209	25	-	X	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	92	-	-	-	-	-	-	X	X
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	400	-	-	-	-	X	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	180	7	6	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	123	20	12	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	21	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	*	*	*	*	-	-	-	X	-
Utah	22	2	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	182	-	-	-	-	-	-	X	X
Wyo.	-	19	-	-	-	-	-	X	-
Guam	1	-	-	-	-	-	-	-	X
P.R.	94	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-40. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: VIROLOGY

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	-	-
Conn.	17	-	-	-	X	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	*	*	*	*	-	-	X	-	-
Ga.	15	*	-	-	-	-	-	-	X
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-	-
Ill.	78	-	-	-	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-	-
Ia.	-	*	*	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	18	-	-	-	-	X	-	-	-
Mass.	*	*	*	*	-	-	-	-	X
Mich.	-	17	2	-	X	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	27	-	-	-	-	X	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	1	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	8	-	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	34	-	-	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-	-
Guam	1	-	-	-	-	-	-	-	X
P.R.	-	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-41. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: PKU

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	17	*	-	-	-	-	-	X	-
Conn.	-	-	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-
Ga.	20	*	-	-	-	-	-	-	X
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	2	-	-	-	-	-	-	X	-
Ill.	112 (1)	-	-	-	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-	-
Ia.	31	*	*	-	-	-	-	-	X
Kans.	-	-	-	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	25	-	-	-	-	-	X	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	10	-	-	-	-	-	-	X	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*	*
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	4	-	-	-	-	-	-	X	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	11	-	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	82	-	-	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-	-
Guam	1	-	-	-	-	-	-	-	X
P.R.	-	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-42. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: WATER

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	8	*	-	-	*	-	-	X	-
Conn.	61	-	-	-	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	59	-	-	-	-	-	-	X	X
Ga.	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-	-
Ill.	3	-	-	19	-	-	-	X	-
Ind.	-	-	-	-	-	-	-	-	X
Ia.	20	-	-	-	-	-	-	X	-
Kans.	-	-	-	-	-	-	-	-	-
Ky.	23	-	-	-	-	-	-	X	-
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	26	-	-	-	-	-	-	X	-
Mass.	*	*	*	*	-	-	-	-	X
Mich.	-	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	13	-	-	-	-	-	-	X	X
Okla.	-	-	-	-	-	-	-	X	-
Ore.	14	-	-	-	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	3	-	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	*	*	*	*	-	-	-	-	X
Utah	4	-	-	-	-	-	-	-	X
Vt.	4	-	-	-	-	-	-	X	-
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	-	-	-	-	-	-	X	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	119 (d)	-	-	-	-	-	-	X	-
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-43. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: MILK

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	5	-	-	-	-	-	-	X	-
Ark.	5	-	-	-	-	-	-	X	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	13	*	-	-	-	-	-	X	-
Conn.	11	-	-	-	X	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	38	-	-	-	-	-	-	X	X
Ga.	7	-	-	-	-	-	-	X	-
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	7	-	-	-	-	-	-	X	-
Ill.	3	-	-	50	-	-	-	X	-
Ind.	14	-	-	-	-	-	-	X	-
Ia.	-	*	*	-	-	-	-	-	-
Kans.	14	-	-	-	-	-	-	X	-
Ky.	12	-	-	-	-	-	-	X	-
La.	8 (j)	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	30	-	-	-	-	-	-	X	-
Mass.	*	*	*	*	-	-	-	-	X
Mich.	-	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-	-
Miss.	5	-	-	-	-	-	-	X	-
Mo.	15	-	-	-	-	-	-	X	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	4	-	-	-	-	-	-	X	-
Ohio	30	-	-	-	-	-	-	X	X
Okla.	6	-	-	-	-	-	-	X	-
Ore.	-	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	2	-	-	-	X	-	-	-	-
S.C.	9	-	-	-	-	-	-	X	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	21	-	-	-	-	-	-	X	-
Tex.	*	*	*	*	-	-	-	X	-
Utah	-	-	-	-	-	-	-	-	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	12	-	-	-	-	-	-	X	-
W.Va.	9	-	-	-	-	-	-	X	-
Wisc.	(d)	-	-	-	-	-	-	X	-
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

TABLE 5-44. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: URINALYSIS

	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-	-
Ariz.	-	70	26	-	X	-	-	X	-
Ark.	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	-	-
Conn.	-	-	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-
Ga.	*	*	*	*	*	*	*	*	*
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-	-
Ill.	-	317	-	-	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-	-
Ia.	-	*	*	-	-	-	-	-	-
Kans.	-	162	-	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	119	-	-	-	-	X	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	X	-	-	-	X
Minn.	-	-	-	-	-	-	-	-	-
Miss.	*	*	*	*	*	*	*	*	*
Mo.	*	*	*	*	*	*	*	*	*
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	*	*	*	*	*	*	*	*	*
N.H.	-	2	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	136	-	12	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*	*
R.I.	-	22	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	-	22	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	*	*	*	*	*	*	*	*	*
Wash.	-	12	-	-	-	-	-	-	X
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-	-
Wyo.	-	19	-	-	-	-	-	X	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	228	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-



TABLE 5-45. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS BY TYPE OF PROGRAM: OTHER DISCIPLINES

		No. in Program				Purpose				
		State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ariz.	Toxicology	*	*	*	*	*	*	*	*	*
Fla.	Rabies	5	-	-	-	-	-	X	-	-
	Blood Alcohol	46 (k)	-	-	-	-	X	-	-	-
Ga.	PKU (McCaman-Robins)	8	*	-	-	-	-	-	X	X
Ill.	TB Culture	159	317	62	-	*	*	*	*	*
	Quantitative Analysis	51	-	-	-	*	*	*	*	*
Md.	Mycobacteriology	50	-	-	-	-	X	-	-	-
	Shellfish	7	-	-	-	-	-	-	X	-
N.Y.	Mycobacteriology	115	-	-	-	-	X	-	-	-
	Exfoliative Cytology	197	-	-	-	-	X	-	-	-
	Toxicology	30	-	-	-	-	X	-	-	-
Ore.	Toxicology	-	-	-	1	X	-	-	-	-
R.I.	Cytology	3	-	-	-	X	-	-	-	-
Utah	Blood Alcohol	*	*	-	-	-	-	-	X	-

TABLES 5-18 - 5-45. FOOTNOTES

- (a) Represents TB Smears. TB Cultures shown under "Other Disciplines," Table 5-31.
- (b) These figures represent Rubeola. Rabies shown under "Other Disciplines," Table 5-31.
- (c) Represents Guthrie. Quantitative Analysis shown under "Other Disciplines," Table 5-31.
- (d) Water and Milk included together.
- (e) Plus 3 reference laboratories.
- (f) Hospital laboratories are required under the Arizona Clinical Laboratory Licensure Act to meet the same requirements as independent clinical laboratories but they are exempt from licensure.
- (g) Represents TB Smears. TB Cultures shown under "Other Disciplines," Table 5-45.
- (h) Included with Bacteriology.
- (i) Represents Guthrie. Quantitative Analysis shown under "Other Disciplines," Table 5-45.
- (j) Mandatory participation.
- (k) Figure represents Analysts.

SECTION VI

LABORATORY DATA PROCESSING AND AUTOMATION

TABLE 6-1. CURRENT PREPARATION OF WORKLOAD REPORTS

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

TABLE 6-2. AVAILABILITY AND LOCATION OF COMPUTER EQUIPMENT

	Computer Available to Lab.	Computer Located:		Computer Under Direction of:		Other
		on Premises	off Premises	Laboratory	Health Department	
Ala.	-	-	-	-	-	-
Alaska	X	-	X	-	-	Dept. of Admin.
Ariz.	-	-	-	-	-	-
Ark.	X	-	X	-	X	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	X	-	X	*	*	*
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	X	-	X	-	-	Dept. of Hlth. & Rehab. Svcs., Div. of Admin. Svcs., Data Center
Ga.	X	X	-	-	X	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	X	-	X	-	X	-
Ind.	X	X	-	-	X	-
Ia.	X	-	X	-	-	Univ. Computer Cen.
Kans.	X (e)	-	X	-	-	St. Dept. of Admin.
Ky.	-	X	-	-	-	-
La.	X	X	-	-	X	-
Me.	X	-	X	-	-	St. government
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	X	-	X	-	X	-
Minn.	X	-	X	-	-	Univ. of Minnesota
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	X	-	X	-	-	Dept. of Admin. Svcs.
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	X	X	-	-	X	-
N.M.	*	*	*	*	*	*
N.Y.	X	-	X	-	X	-
N.C.	X	-	X	-	-	Dept. of Admin.
N.D.	-	-	-	-	-	-
Ohio	X (f)	-	X	-	-	Finance Dept.
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	X	-	X	-	-	Control Data Proc.
Tenn.	-	-	-	-	-	-
Tex.	X	X	-	-	X	-
Utah	X	X	-	-	-	Bur. of Hlth. Statistics
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	X	-	X (g)	-	-	Univ. of Washington
W.Va.	-	-	-	-	-	-
Wisc.	{ X	X	-	-	X	-
	{ X	-	X	-	-	St. Administration
	{ X	-	X	-	-	Univ. Computer Cen.

TABLE 6-2. AVAILABILITY AND LOCATION OF COMPUTER EQUIPMENT  
(Continued)

	Computer Available to Lab.	Computer Located:		Computer Under Direction of:		
		on Premises	off Premises	Laboratory	Health Department	Other
Wyo.	X	-	X	-	-	Central Acctg. & Data Processing Div., Revenue Dept.
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 6-3. AVAILABILITY OF COMPUTER SPECIALISTS

	Number of Specialists Available For:					
	Systems Analysis:			Programming:		
	Lab Staff	H D Staff	Other	Lab Staff	H D Staff	Other
Ala.	-	-	-	-	-	-
Alaska	-	1	2	-	1	2
Ariz.	-	1	-	-	1	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	1	4	-	2	10
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	*	-	-	*
Ga.	-	6	-	-	17	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	2	-
Ill.	-	8	-	-	8	-
Ind.	-	1	-	-	1	-
Ia.	-	-	*	-	-	*
Kans.	-	1	(h)	-	2	(h)
Ky.	-	-	-	-	-	-
La.	-	1	-	-	2	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	*	-	-	*	-
Minn.	-	1	2	1	2	2
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	*	-	-	*
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	1	-	-	5	-
N.M.	*	*	*	*	*	*
N.Y.	-	6	-	-	10	-
N.C.	-	2	12	-	4	16
N.D.	-	-	-	-	-	-
Ohio	-	3	-	-	6	-
Okla.	-	-	-	-	-	-
Ore.	-	2	-	-	3	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	3	-	-	7	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	1	*	-	1	-	-
W.Va.	-	-	-	-	-	-
Wisc.	2 (i)	-	-	(i)	-	-
Wyo.	-	-	*	-	-	*
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 6-4. COMPUTER APPLICATIONS DURING FY 72

	Licensure or Registration	Diagnostic Reporting	Workload Statistics	Management Information	Purchasing	Personnel Records (incl. Salaries)	Radiological Health Calculations	Environmental Health Reporting	Clinical Chemistry Calculations	Other
Ala.	.	.	.	.	X	X	.	.	.	.
Alaska	.	.	.	.	.	.	.	.	.	.
Ariz.	.	.	.	.	.	.	.	.	.	.
Ark.	.	.	.	.	.	X	.	.	.	.
Cal.	*	*	*	*	*	*	*	*	*	*
Colo.	.	.	.	.	.	.	.	.	.	.
Conn.	X	.	.	.	.	X	.	X	X	.
Del.	.	.	.	.	.	.	.	.	.	.
D.C.	.	.	.	.	.	.	.	.	.	.
Fla.	X	.	.	.	.	.	X	.	.	.
Ga.	.	.	.	.	.	X	.	.	.	.
Hawaii	.	.	.	.	.	.	.	.	.	.
Ida.	.	.	.	.	.	.	.	.	.	.
Ill.	.	.	X	.	.	.	.	.	.	.
Ind.	.	.	.	.	.	.	.	.	.	.
Ia.	.	.	.	.	X	X	.	X	.	Sero.Lab.Eval.
Kans.	X (j)	.	.	.	.	.	.	X (n)	.	.
Ky.	.	.	.	.	.	.	.	.	.	.
La.	.	.	.	.	X	X	.	.	.	.
Me.	.	.	.	.	.	.	.	.	.	.
Md.	.	.	.	.	.	.	.	.	.	.
Mass.	.	.	.	.	.	.	.	.	.	.
Mich.	.	.	.	X	.	.	.	.	.	.
Minn.	.	.	.	.	.	X (k)	.	.	X	Prof. Test. Data
Miss.	.	.	.	.	.	.	.	.	.	.
Mo.	.	.	.	.	.	.	.	.	.	.
Mont.	.	.	.	.	.	.	.	.	.	.
Nebr.	.	.	.	.	.	.	.	.	.	.
Nev.	.	.	.	.	.	.	.	.	.	.
N.H.	.	.	.	.	.	.	.	.	.	.
N.J.	.	.	.	.	.	X	X	X	.	Blood Bank
N.M.	*	*	*	*	*	*	*	*	*	*
N.Y.	X	X	X	X	.	X	X	X	X	Blood Bank
N.C.	.	X (l)	.	.	.	.	X	X	X	.
N.D.	.	.	.	.	.	.	.	.	.	.
Ohio	.	.	.	X	X	X	.	X	.	Supply Invent.
Okla.	.	.	.	.	.	.	.	.	.	.
Ore.	.	.	.	.	.	X	.	X	.	Property
Pa.	*	*	*	*	*	*	*	*	*	*
R.I.	.	.	.	.	.	.	.	.	.	.
S.C.	.	.	.	.	.	.	.	.	.	.
S.D.	.	.	.	.	.	.	.	.	.	.
Tenn.	.	.	.	.	.	.	.	.	.	.
Tex.	.	.	.	.	.	.	.	.	.	.
Utah	.	.	.	.	.	.	.	X	.	.
Vt.	.	.	.	.	.	.	.	.	.	.
Va.	.	.	.	.	.	.	.	.	.	.
Wash.	X	X	X	X	.	.	X	X	.	.
W.Va.	.	.	.	.	.	.	.	.	.	.
Wisc.	.	X	X	X	.	.	.	.	X	.
Wyo.	.	.	X (m)	.	.	.	.	.	.	Mailing list/ water sample containers
Guam	.	.	.	.	.	.	.	.	.	.
P.R.	.	.	.	.	.	.	.	.	.	.
V.I.	.	.	.	.	.	.	.	.	.	.



TABLE 6-5. COMPUTER APPLICATIONS DURING FY 73

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

TABLE 6-6. 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	X	X	X	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	X	-	-
Cal.	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	-
Conn.	-	X	X	-	-	-	X	-
Del.	-	-	-	-	-	-	-	-
D. C.	-	-	-	-	-	-	-	-
Fla.	-	X	-	-	-	-	-	X
Ga.	X	X	X	X	X	X	-	X
Hawaii	X	X	X	X	X	-	-	X
Ida.	-	-	-	-	-	-	-	-
Ill.	X	X	-	-	-	-	X	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	X	X	X	-	-	X	X
Kans.	-	-	-	-	-	-	-	-
Ky.	-	-	X	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	X	X	X	X	X	X	X	X
Mass.	-	X	X	-	X	-	-	X
Mich.	X	-	-	-	X	-	-	-
Minn.	X	-	X	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-
N.H.	-	X	X	-	-	-	-	-
N.J.	X	X	X	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	X	X	X	-	-	-	X	-
Okla.	-	-	-	-	-	-	-	-
Ore.	-	X	X	X	-	-	-	-
Pa.	*	*	*	*	*	*	*	*
R. I.	-	-	-	-	-	-	-	-
S. C.	X	X	X	X	X	-	-	X
S. D.	-	-	X	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	X	X	-	-	-	X	-
Utah	X	-	X	X	-	-	X	X
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	X	X	X	X	-	-	X	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-
P. R.	X	X	X	X	X	X	-	X
V. I.	-	-	-	-	-	-	-	-

TABLE 6-6. 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.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-	*
Conn.	-	X	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-
Fla.	-	-	X	-	-	-	-	-
Ga.	-	X	X	-	-	X	X	-
Hawaii	-	X	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	X	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	X	X	X	X	X	X	X	-
Mass.	-	X	-	-	X	-	X	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	X	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	X	-	-
N.J.	-	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	-	X	-	-	-	X	-	-
Okla.	-	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-	-
S.C.	-	-	X	X	-	X	-	-
S.D.	-	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	X	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	X	-	X	-	X	X	-
W. Va.	-	-	-	-	-	-	-	-
Wisc.	-	X	-	X	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-
P.R.	X	-	X	X	X	X	X	Statistical Analy.; yearly reports
V.I.	-	-	-	-	-	-	-	-

TABLE 6-7. PERCENTAGE OF DIAGNOSTIC WORKLOAD HANDLED BY AUTOMATED LABORATORY PROCEDURES

	%	
Ala.	10.0	
Alaska	-	
Ariz.	3.0	
Ark.	<1.0	
Cal.	*	
Colo.	-	
Conn.	20.0	
Del.	0.2	
D.C.	*	
Fla.	3.0	
Ga.	<1.0	
Hawaii	<1.0	
Ida.	5.0	
Ill.	100.0	for fluoride testing of public drinking water supplies.
Ind.	1.0	
Ia.	-	used in LC&D Proficiency Testing Program only.
Kans.	-	
Ky.	*	
La.	-	
Me.	5.0	
Md.	5.0	
Mass.	*	
Mich.	10.0	
Minn.	10.0	
Miss.	25.0	
Mo.	<1.0	
Mont.	-	
Nebr.	-	
Nev.	-	
N.H.	7.0	
N.J.	10.0	
N.M.	*	
N.Y.	8.0	
N.C.	98.0	of work in Biochemistry; 5.0 of work in Environmental Sciences.
N.D.	-	
Ohio	15.0	
Okla.	<1.0	
Ore.	1.0	
Pa.	*	
R.I.	3.0	
S.C.	1.0	
S.D.	-	
Tenn.	0.5	
Tex.	1.0	
Utah	0.01	
Vt.	60.0	
Va.	100.0	of the blood sugar tests.
Wash.	-	
W.Va.	21.0	
Wisc.	70.0	
Wyo.	-	
Guam	10.0	
P.R.	10.0	
V.I.	35.0	

TABLE 6-8. AUTOMATED ANALYTICAL EQUIPMENT USED BY LABORATORY: CLINICAL CHEMISTRY

Ala.	Technicon AutoAnalyzer.
Alaska	-
Ariz.	Technicon AutoAnalyzer.
Ark.	Technicon Single Channel AutoAnalyzer.
Cal.	*
Colo.	-
Conn.	Technicon Single Channel AutoAnalyzers (3).
Del.	-
D.C.	Technicon AutoAnalyzer SMA 12/30; Technicon AutoAnalyzer II; Technicon Single and Dual Channel AutoAnalyzers.
Fla.	Technicon Basic AutoAnalyzer (6); Technicon Basic (Fluorometric) AutoAnalyzer (1); Technicon SMA AutoAnalyzer II (1).
Ga.	Technicon AutoAnalyzer.
Hawaii	-
Ida.	Technicon AutoAnalyzer.
Ill.	-
Ind.	-
Ia.	Technicon Dual Channel AutoAnalyzer; IL Flame Spectrophotometer; Turner Fluorometer.
Kans.	-
Ky.	Technicon AutoAnalyzer.
La.	-
Me.	-
Md.	Technicon AutoAnalyzers (3); Helena Labs Electrophoresis Screener (1).
Mass.	Phoenix Precision Instrument Co. Amino Acid Analyzer, Model M-6800; Fundamental Products Punch Indexer Model V.
Mich.	Technicon Single and Dual Channel AutoAnalyzers.
Minn.	Technicon Single Channel AutoAnalyzer; Instrumentation Laboratories Semi-Automatic Flame Photometer, Model 143.
Miss.	Technicon Single Channel AutoAnalyzer.
Mo.	Technicon AutoAnalyzer; Microtek Gas Chromatograph.
Mont.	-
Nebr.	-
Nev.	-
N.H.	Technicon Basic AutoAnalyzer.
N.J.	Technicon Single Channel AutoAnalyzer; LKB Reaction Rate Analyzer 8600; Technicon Four Channel AutoAnalyzer; Thomas Concentration Read-Out Peak Detector No. 8; Coulter Cell Counter-FN; Slide Stainer; Technicon AutoAnalyzer 10604 (shared automated equipment).
N.M.	*
N.Y.	Technicon AutoAnalyzer 1-3 Channels (assembled by Laboratory), A/O Robot Chemist, Beckman Kintrac.
N.C.	Technicon Single Channel AutoAnalyzers (8); Technicon AutoAnalyzer SMA 12/60; Technicon AutoAnalyzer SMA 6/60.
N.D.	-
Ohio	Technicon AutoAnalyzer I (2); Technicon AutoAnalyzer SMA 12/60.
Okla.	Technicon Single Channel AutoAnalyzer.
Ore.	-
Pa.	*
R.I.	Technicon Single Channel AutoAnalyzer (3); Technicon Dual Channel AutoAnalyzer (1).
S.C.	-
S.D.	-
Tenn.	Technicon Single Channel AutoAnalyzer.
Tex.	Technicon AutoAnalyzer I.
Utah	AutoAnalyzer, Single Channel.
Vt.	Jarrell-Ash Gas Chromatograph Model 28710; Technicon Custom Multi-Channel AutoAnalyzer; Bausch and Lomb UV Spectrophotometer 600; Beckman IR-20 Infrared Spectrophotometer; Perkin-Elmer 305 Atomic Absorption Spectrophotometer.
Va.	Technicon Dual Channel AutoAnalyzer.
Wash.	-
W.Va.	Technicon Single Channel AutoAnalyzer; Technicon 12-Channel AutoAnalyzer 12/60; Technicon 3-Channel AutoAnalyzer II.
Wis.	Technicon AutoAnalyzer I (8); Nuclear-Chicago 8-Counter; Coleman-124; H-P Auto-Injector Gas Chromatograph-7600 Series; Hycel Mark X; Technicon SMA 12/60; Beckman R-110 Analatrol.
Wyo.	-
Guam	Technicon Single Channel AutoAnalyzer.
P.R.	Technicon Dual Channel AutoAnalyzer TC; Ames Thyrimeter.
V.I.	Technicon Basic AutoAnalyzer (for Glucose), Technicon Fluorometer II.

TABLE 6-9. AUTOMATED ANALYTICAL EQUIPMENT USED BY LABORATORY: HEMATOLOGY

---

Ala.	-
Alaska	-
Ariz.	-
Ark.	-
Cal.	*
Colo.	-
Conn.	-
Del.	-
D.C.	Technicon AutoAnalyzer SMA 7/A; Technicon 10 Channel AutoAnalyzer.
Fla.	-
Ga.	-
Hawaii	-
Ida.	-
Ill.	-
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	-
Md.	Technicon Cell Counter.
Mass.	-
Mich.	Coulter Counter Model F.
Minn.	-
Miss.	Coulter Hemoglobinometer.
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	(p)
N.M.	*
N.Y.	Coulter Counter Model F, BBL Fibrometer.
N.C.	-
N.D.	-
Ohio	-
Okla.	-
Ore.	-
Pa.	*
R.I.	-
S.C.	-
S.D.	-
Tenn.	-
Tex.	-
Utah	-
Vt.	-
Va.	-
Wash.	-
W.Va.	-
Wisc.	Coulter Cell Counter; BBL Fibrometer; Fisher Diluter 240.
Wyo.	-
Guam	-
P.R.	Coulter Counter Fn; Ames Hema-Tek; Fisher Dade Dilutors 240 2D.
V.I.	-

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TABLE 6-10. AUTOMATED ANALYTICAL EQUIPMENT USED BY LABORATORY: SEROLOGY

Ala.	Cooke Engineering Company 96 Channel Automatic Pipetter and Diluter.
Alaska	-
Ariz.	-
Ark.	-
Cal.	*
Colo.	-
Conn.	Technicon ART AutoAnalyzer.
Del.	Technicon AutoAnalyzer.
D.C.	Aerojet Seromatic FTA-ABS.
Fla.	-
Ga.	Technicon ART AutoAnalyzer.
Hawaii	-
Ida.	Technicon ART AutoAnalyzer.
Ill.	-
Ind.	Technicon AutoAnalyzer Sampler II.
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	Canalco Autotiter II.
Md.	-
Mass.	Aerojet Seromatic
Mich.	Aerojet Seromatic; Technicon ART.
Minn.	Aerojet Seromatic.
Miss.	Technicon Single Channel AutoAnalyzer.
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	(p)
N.M.	*
N.Y.	Technicon ART AutoAnalyzers (2).
N.C.	-
N.D.	-
Ohio	-
Okla.	-
Ore.	Technicon Automated Reagin.
Pa.	*
R.I.	Technicon Single Channel AutoAnalyzer R.P.R.
S.C.	-
S.D.	-
Tenn.	-
Tex.	-
Utah	AutoAnalyzer Single Channel.
Vt.	Technicon AutoAnalyzer.
Va.	-
Wash.	-
W.Va.	Technicon ART AutoAnalyzer.
Wisc.	-
Wyo.	-
Guam	-
P.R.	Technicon ART AutoAnalyzer; Abbott Counterelectrophoresis.
V.I.	Technicon ART.

TABLE 6-11. AUTOMATED ANALYTICAL EQUIPMENT USED BY LABORATORY: OTHER DISCIPLINES

Ala.	-
Alaska	-
Ariz.	Water: Perkin-Elmer Atomic Absorption 403.
Ark.	-
Cal.	*
Colo.	-
Conn.	Technicon 6-Channel AutoAnalyzer, Model CMS-6, for Sanitary Examination of Waters; Technicon Single Channel AutoAnalyzer, Model AA-1, for Fluoride in Water; Perkin-Elmer Gas Chromatograph Model F40 (Blood Alcohols); Perkin-Elmer Gas Chromatograph Model 900 (Blood Alcohols and Drugs); Beckman Ultraviolet Spectrophotometer, Century 3 (Blood Alcohols and Drugs).
Del.	-
D.C.	Chemistry: Hewlett-Packard Automated Gas Chromatograph; Pathology: Lerner Synchro Stainer- cytology; Technicon Autotech- ultra tissue preparation.
Fla.	-
Ga.	-
Hawaii	Analytical Chemistry: Technicon AutoAnalyzer I and II.
Ida.	Technicon AutoAnalyzer for fluoride testing on foliage (air pollution).
Ill.	Fluoride System - Technicon AutoAnalyzer.
Ind.	Technicon Basic AutoAnalyzer; Fisher Titralyzer AutoTitrator.
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	Technicon AutoAnalyzer.
Md.	Technicon AutoAnalyzers (3).
Mass.	-
Mich.	Virology: Cooke Auto-pipetter Model 229-1A and Auto-diluter.
Minn.	-
Miss.	-
Mo.	Perkin-Elmer Atomic Absorption.
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	(p)
N.M.	*
N.Y.	-
N.C.	Low Beta Counters, Beckman II; Packard Scintillation Counter 314 EX.
N.D.	-
Ohio	Environmental Chemistry: Technicon Single, Dual, and Triple Channel AutoAnalyzers.
Okla.	-
Ore.	-
Pa.	*
R.I.	-
S.C.	Perkin-Elmer Atomic Absorption 303; Orion Digital pH Meter Automatic 801.
S.D.	-
Tenn.	-
Tex.	-
Utah	Water Chemistry: Single Channel AutoAnalyzers (2); Beckman Atomic Absorption 440; Beckman Radiologic Counter LS-150.
Vt.	Viral Serology: Cooke Engineering Microdiluter.
Va.	-
Wash.	-
W.Va.	-
Wisc.	-
Wyo.	-
Guam	-
P.R.	Perkin-Elmer Atomic Absorption 403; Beckman DK2A; Millipore Electrophoresis; Beckman DBG; Perkin-Elmer Infrared; Perkin-Elmer Gas Chromatograph F-11; Coleman Mercury Analyzer; Jr. Coleman Fluorometer.
V.I.	Perkin-Elmer 990 (GC).



SECTION VI. FOOTNOTES

- (a) Typewriter and Addressograph plates.
- (b) Virology and Toxicology are prepared by use of longhand entries or typewriter.
- (c) Syphilis Serology Evaluation and Water Bacteriology reporting done by electronic data processing.
- (d) Data for intrastate proficiency testing done by electronic data processing.
- (e) Limited.
- (f) Presently contracted with University Medical Center Computer Service for Proficiency Testing Program.
- (g) With remote terminal.
- (h) Others as assigned to particular projects by Department of Administration.
- (i) Systems Analysis and Programming.
- (j) Syphilis Serology only.
- (k) Under State Department of Administration.
- (l) PKU and Cancer Cytology.
- (m) Water samples only.
- (n) Water Bacteriology only.
- (o) Excluding salaries.
- (p) Included with Clinical Chemistry.

**SECTION VII**

**LABORATORY FIELD ACTIVITIES**

TABLE 7-1. NUMBER OF FIELD INVESTIGATIONS, INSPECTIONS, OR CONSULTATIONS

	Water Pollution Control	Air Pollution Control	Occupational Health And Safety	Laboratory Inspection	Hospital Facility Inspections (Other Than Labs)	Court Appearances Or Other Legal Proceedings
Ala.	-	-	-	71 (a)	-	-
Alaska	-	-	-	8	-	1
Ariz.	-	-	-	70	80	10 (b)
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	15	150	-	30	-	50
Conn.	164	70	-	310	-	5
Del.	-	-	-	13	-	-
D.C.	-	-	*	-	-	*
Fla.	-	-	-	224	-	325
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	19	-	-
Ida.	*	*	-	-	-	-
Ill.	-	-	-	321	-	-
Ind.	-	-	-	120 (c)	-	2
Ia.	49	14	52	36	25	78
Kans.	-	-	-	88	-	38
Ky.	-	-	-	-	-	-
La.	-	-	-	12 (d)	-	-
Me.	-	-	-	17	-	250
Md.	-	-	-	-	-	-
Mass.	8	-	2	128	-	-
Mich.	-	-	-	392 (e)	-	881
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	2
Mo.	-	-	-	163 (f)	-	2
Mont.	-	-	-	-	-	12
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	2	-	-
N.J.	-	-	-	228	-	4
N.M.	*	*	*	*	*	*
N.Y.	535	-	-	1,259	-	-
N.C.	2	-	-	285	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	198 (g)	-	6
Okla.	(h)	(h)	(h)	67	-	-
Ore.	-	-	-	193	-	5
Pa.	*	*	*	*	*	*
R.I.	-	-	-	50	-	-
S.C.	-	-	-	3	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	61	3	350
Vt.	-	-	-	13 (i)	-	>40
Va.	-	-	-	-	-	-
Wash.	*	*	*	*	*	*
W.Va.	-	-	-	84	1	-
Wisc.	-	-	-	1,609	-	36
Wyo.	-	-	-	37	-	11
Guam	-	-	-	-	-	-
P.R.	-	-	-	612	10	-
V.I.	-	-	-	-	-	-

TABLE 7-1. NUMBER OF FIELD INVESTIGATIONS, INSPECTIONS, OR CONSULTATIONS  
(Continued)

	Consultation with:					Total Field Investigations, Inspections, or Consultations
	Professional Societies	Federal Agencies	State Agencies	County Agencies	City or Local Agencies	
Ala.	-	-	-	-	-	71
Alaska	3	2	4	-	3	21
Ariz.	-	-	-	-	-	160
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	6	3	20	15	-	289
Conn.	36	13	3,500	-	1,110	5,208
Del.	-	-	-	-	-	13
D.C.	-	*	-	-	*	*
Fla.	-	*	*	*	*	549
Ga.	-	-	-	-	-	-
Hawaii	-	-	8	-	2	29
Ida.	-	-	-	-	-	*
Ill.	-	4	13	4	-	342
Ind.	-	8	-	-	6	136
Ia.	*(j)	*(j)	*(j)	*(j)	*(j)	254
Kans.	-	6	1	-	-	133
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	12
Me.	2	2	30	-	10	311
Md.	-	-	-	-	-	-
Mass.	7	16	54	-	-	215
Mich.	-	-	-	-	-	1,273
Minn.	-	-	-	-	-	-
Miss.	2	3	4	10	3	24
Mo.	6	3	17	8	8	207
Mont.	4	-	-	-	-	16
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	2
N.J.	-	1	-	-	-	233
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	1,794
N.C.	*	-	-	-	-	287
N.D.	-	-	-	-	-	-
Ohio	-	-	-	1	21	226
Okla.	-	-	-	-	-	67
Ore.	-	-	-	-	-	198
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	50
S.C.	-	1	5	15	-	24
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	2	-	-	-	1	417
Vt.	-	-	-	-	-	>53
Va.	-	-	-	-	-	-
Wash.	*	*	*	*	*	*
W.Va.	-	-	-	-	-	85
Wisc.	2	2	3	-	-	1,652
Wyo.	-	-	-	-	-	48
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	622
V.I.	-	-	-	-	-	-

TABLE 7-2. NUMBER OF REPORTS ISSUED ON FIELD ACTIVITIES

	Water Pollution Control	Air Pollution Control	Occupational Health And Safety	Laboratory Inspection	Hospital Facility Inspections (Other Than Labs)	Court Appearances Or Other Legal Proceedings
Ala.	-	-	-	600	-	-
Alaska	-	-	-	8	-	-
Ariz.	-	-	-	70	80	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	10	70	-	260	-	-
Del.	-	-	-	13	-	-
D.C.	-	-	*	-	-	*
Fla.	-	-	-	-	-	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	40	-	-
Ida.	*	*	-	-	-	-
Ill.	-	-	-	321	-	-
Ind.	-	-	-	110	-	-
Ia.	8	12	52	36	25	-
Kans.	-	-	-	88	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	48	-	-
Me.	-	-	-	17	-	250
Md.	-	-	-	-	-	-
Mass.	-	-	-	113	-	6
Mich.	-	-	-	392	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	163	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	2	-	-
N.J.	-	-	-	186	-	3
N.M.	*	*	*	*	*	*
N.Y.	537	-	-	1,259	-	-
N.C.	2	-	-	285	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	142	-	-
Okla.	-	-	-	67	-	-
Ore.	-	-	-	193	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	50	-	-
S.C.	-	-	-	3	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	61	-	-
Vt.	-	-	-	13	-	-
Va.	-	-	-	-	-	-
Wash.	*	*	*	*	*	*
W.Va.	-	-	-	48	1	-
Wisc.	-	-	-	698	-	-
Wyo.	-	-	-	3	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	612	10	-
V.I.	-	-	-	-	-	-

TABLE 7-2. NUMBER OF REPORTS ISSUED ON FIELD ACTIVITIES  
(Continued)

	Consultation with:					Total Reports Issued
	Professional Societies	Federal Agencies	State Agencies	County Agencies	City or Local Agencies	
Ala.	-	-	-	-	-	600
Alaska	2	1	1	-	1	13
Ariz.	-	-	-	-	-	150
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	2	2	8	-	2	354
Del.	-	-	-	-	-	13
D.C.	-	*	-	-	*	*
Fla.	-	-	-	-	-	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	40
Ida.	-	-	-	-	-	*
Ill.	-	-	-	-	-	321
Ind.	-	3	-	-	1	114
Ia.	*	*	*	*	*	133
Kans.	-	-	-	-	-	88
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	48
Me.	-	-	10	-	2	279
Md.	-	-	-	-	-	-
Mass.	10	-	-	-	-	129
Mich.	-	-	-	-	-	392
Minn.	-	-	-	-	-	-
Miss.	-	-	4	2	3	9
Mo.	-	-	-	-	-	163
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	2
N.J.	-	-	-	-	-	189
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	1,796
N.C.	*	-	-	-	-	287
N.D.	-	-	-	-	-	-
Ohio	-	-	-	1	21	164
Okla.	-	-	-	-	-	67
Ore.	-	-	-	-	-	193
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	50
S.C.	-	-	-	-	-	3
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	2	-	-	-	-	63
Vt.	-	-	-	-	-	13
Va.	-	-	-	-	-	-
Wash.	*	*	*	*	*	*
W.Va.	-	-	-	-	-	49
Wisc.	-	1	-	3	-	702
Wyo.	-	-	-	-	-	3
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	622
V.I.	-	-	-	-	-	-

TABLE 7-3. NUMBER OF MAN-DAYS SPENT IN FIELD ACTIVITIES

	Water Pollution Control	Air Pollution Control	Occupational Health And Safety	Laboratory Inspections	Hospital Facility Inspections (Other Than Labs)	Court Appearances or Other Legal Proceedings
Ala.	-	-	-	60	-	-
Alaska	-	-	-	14	-	1
Ariz.	-	-	-	1,100	-	20
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	20	150	-	90	-	60
Conn.	132	50	-	500	-	4
Del.	-	-	-	22	-	-
D.C.	-	-	*	-	-	*
Fla.	-	-	-	*	-	163
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	18	-	-
Ida.	12	* (k)	-	-	-	-
Ill.	-	-	-	302	-	130
Ind.	-	-	-	301	-	2
Ia.	120	251	84	46	35	78
Kans.	-	-	-	58	-	28
Ky.	-	-	-	-	-	-
La.	-	-	-	12	-	-
Me.	-	-	-	25	-	200
Md.	-	-	-	-	-	-
Mass.	-	-	-	92	-	18
Mich.	-	-	-	329	-	881
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	2
Mo.	-	-	-	328	-	2
Mont.	-	-	-	-	-	18
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	2	-	-
N.J.	-	-	-	365	-	34
N.M.	*	*	*	*	*	*
N.Y.	744	-	-	1,603	-	-
N.C.	5	-	-	500	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	106	-	9
Okla.	-	-	-	67	-	-
Ore.	-	-	-	300	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	30	-	-
S.C.	-	-	-	3	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	74	3	131
Vt.	-	-	-	14	-	>40
Va.	-	-	-	-	-	-
Wash.	*	*	*	*	*	*
W.Va.	-	-	-	55	4	-
Wisc.	-	-	-	1,700	-	10
Wyo.	-	-	-	20	-	15
Guam	-	-	-	-	-	-
P.R.	-	-	-	455	5	-
V.I.	-	-	-	-	-	-

TABLE 7-3. NUMBER OF MAN-DAYS SPENT IN FIELD ACTIVITIES  
(Continued)

	Consultation with:					Total Man-Days Spent in Field Activities
	Professional Societies	Federal Agencies	State Agencies	County Agencies	City or Local Agencies	
Ala.	-	-	-	-	-	60
Alaska	6	4	10	-	4	39
Ariz.	-	-	-	-	-	1,120
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	6	9	20	30	-	385
Conn.	17	7	134	-	26	870
Del.	-	-	-	-	-	22
D. C.	-	*	-	-	*	*
Fla.	-	-	-	-	-	163
Ga.	-	-	-	-	-	-
Hawaii	-	-	3	-	1	22
Ida.	-	-	-	-	-	>12
Ill.	30	36	56	24	15	593
Ind.	-	15	-	-	7	325
Ia.	*	*	*	*	*	614
Kans.	-	20	3	-	-	109
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	12
Me.	-	0.5	5	-	0.5	231
Md.	-	-	-	-	-	-
Mass.	9	-	-	-	-	119
Mich.	-	-	-	-	-	1,210
Minn.	-	-	-	-	-	-
Miss.	2	2	4	5	3	18
Mo.	6	5	17	8	4	370
Mont.	12	-	-	-	-	30
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N. H.	-	-	-	-	-	2
N. J.	-	6	-	-	-	405
N. M.	*	*	*	*	*	*
N. Y.	-	-	-	-	-	2,347
N. C.	*	-	-	-	-	505
N. D.	-	-	-	-	-	-
Ohio	-	-	-	1	17	133
Okla.	-	-	-	-	-	67
Ore.	-	-	-	-	-	300
Pa.	*	*	*	*	*	*
R. I.	-	-	-	-	-	30
S. C.	-	-	-	-	-	3
S. D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	5	-	-	-	1	214
Vt.	-	-	-	-	-	>54
Va.	-	-	-	-	-	-
Wash.	*	*	*	*	*	*
W. Va.	-	-	-	-	-	59
Wisc.	5	5	1	5	-	1,726
Wyo.	-	-	-	-	-	35
Guam	-	-	-	-	-	-
P. R.	-	-	-	-	-	460
V. I.	-	-	-	-	-	-



SECTION VII. FOOTNOTES

- (a) Premarital and CLIA.
- (b) Eight of these appearances in court in conjunction with alcohol program - approval of equipment and issuance of permits.
- (c) Includes Medicare, 35.
- (d) Water and milk inspections.
- (e) Laboratory Inspection, 221; Animal Facility, 171.
- (f) Includes Medicare.
- (g) Serology, 61; Medicare, 122; Milk, 15.
- (h) Field investigations are performed in these areas by laboratorians under jurisdiction of Environmental Health Services, OSDH.
- (i) Serology, 9; Water, 4.
- (j) No records have been kept on the number of consultations with professional societies and governmental agencies. Personnel from the Laboratory regularly consult with the American Society for Microbiology, American Public Health Association, American Water Works Association, plus their State-branch organizations. The Laboratory Director is on the APHA "Action Board" and Chairman of the IPHA "Action Board." In the area of governmental units, personnel from the Laboratory consult with all levels from the federal level (CDC, FDA, etc.) to State level (Bureau of Labor, Conservation Commission, Geological Survey, etc.). Members of the Laboratory are on the Air Pollution Control Commission and Water Pollution Control Commission. At the city-county levels, consultation may be a look-see at a given problem area, or the presentation of a workshop or seminar in a given scientific problem area.
- (k) Occasionally.

SECTION VIII

ORGANIZATION AND SERVICES OF THE LABORATORY

TABLE 8-1. CHANGES DURING THE REPORTING YEAR AFFECTING RELATIONSHIPS OF LABORATORY WITH OTHER UNITS OF GOVERNMENT

Ala.	-
Alaska	-
Ariz.	Discontinued ASO titer, urinalysis, blood grouping, and Rh typing; and routine typhoid and paratyphoid agglutinations as of 12/1/71. Discontinued VDRL and Streptococcus identification and grouping as of June 30, 1972. These services discontinued for physicians, hospitals and independent laboratories.
Ark.	-
Cal.	*
Colo.	-
Conn.	-
Del.	By the new organizational changes the position of the Office of Laboratories in the hierarchy of the Department of Health and Social Services, Division of Physical Health, (since July 1, 1972, changed to Division of Public Health) is as follows: 1. Secretary, 2. Director, 3. Deputy Director, 4. Public Health, 5. Bureau of Disease Control, 6. Office of Laboratories.
D.C.	-
Fla.	-
Ga.	Gradual phasing out of the Milk Program from the Health Department to the Agriculture Department.
Hawaii	-
Ida.	Memorandum agreement with Attorney General concerning operation of Forensic Laboratory.
Ill.	-
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	*
Ma.	-
Md.	*
Mass.	-
Mich.	-
Minn.	-
Miss.	-
Mo.	-
Mont.	-
Nebr.	Pollution control activities were removed from the Health Department 7/1/71 and placed in a new Department of Environmental Control. State Health Laboratory continues to provide support by contract.
Nev.	-
N.H.	-
N.J.	-
N.M.	*
N.Y.	-
N.C.	Legislation was passed in the 1971 session of the General Assembly concerning reorganization of State Government. The Department of Health, Social Services, Mental Health, and other smaller agencies were placed in the Department of Human Resources.
N.D.	-
Ohio	State EPA comes into being October 22, 1972. "The agency shall utilize the laboratory facilities of the department of health... to the maximum practicable extent."
Okla.	-
Ore.	-
Pa.	*
R.I.	-
S.C.	-
S.D.	-
Tenn.	-
Tex.	-
Utah	-
Vt.	-
Va.	*
Wash.	-
W.Va.	-
Wisc.	-
Wyo.	-
Guam	-
P.R.	*
V.I.	-

TABLE 8-2. SERVICES PROVIDED BY THE LABORATORY TO STATE DEPARTMENTS OTHER THAN THE HEALTH DEPARTMENT

Ala.	Rabies testing, water analysis.
Alaska	Chemical and Bacteriological Water Analysis - Department of Environmental Conservation. Chemical and Bacteriological - Department of Fish and Game. Chemical - Department of Public Safety. Bacteriological - Department of Natural Resources.
Ariz.	Microbiology and Environmental Chemistry.
Ark.	*
Cal.	*
Colo.	Consultative service to State Highway Department regarding alcohol tests. Reference laboratory service for State Hospital and Colorado Medical Center.
Conn.	Dairy Division, Department of Agriculture: dairy product analyses. Department of Consumer Protection: analyses of foods. State Police: forensic laboratory analyses. Department of Environmental Protection: laboratory support to air pollution, pesticides, water pollution, and solid waste programs.
Del.	State Police Department: EKG and Urinalysis (check-ups).
D.C.	D.C. Environmental Services Department - Milk, Water, Meat samples. D.C. Department of Economic Development - Lead in paint. D.C. Police Department - Alcohol determinations.
Fla.	Department of Pollution Control - bacteriological testing of water. Department of Agriculture and Consumer Services - milk testing, rabies, reference services. Law Enforcement Agencies - toxicology and narcotics testing.
Ga.	All services are provided when and if requested.
Hawaii	Department of Land and Natural Resources: water pollution (chemical and bacterial) examinations, shellfish and shellfish areas, water development. Stool examination of applicants for watershed entrance permits. Department of Agriculture: Laboratory diagnosis of man-animal disease agents; identification of referred cultures. University of Hawaii: Consultation and coordination of research projects.
Ida.	Blood and breath alcohol tests - Department of Law Enforcement. Drug identification tests - Office of Attorney General. Mercury and water chemistry tests - Fish and Game Department. Water potability and chemical tests - Department of Water Administration and Parks Department.
Ill.	Diagnostic service to: Department of Public Aid (recipients); Department of Mental Health (institutions); Department of Corrections (institutions); University Student Health Services. Forensic Toxicology for Department of Public Safety and Narcotic Control. Meat analysis for Department of Agriculture.
Ind.	No routine services.
Ia.	Conservation Commission, Bureau of Labor, Public Safety, Highway Commission (rest stop water supplies), Iowa Drug Abuse Authority, Iowa Geological Survey, Iowa Air Pollution Control Commission, Iowa Water Pollution Control Commission.
Kans.	Partial to complete laboratory support for the following (including governmental units other than State): Division of Institutional Management, Department of Social Welfare; Board of Agriculture; Kansas Penal Institutions; University of Kansas Medical Center; Veterinary Diagnostic Laboratory, Kansas State University; Alcohol Beverage Commission; Kansas Colleges and Universities; Kansas State Highway Patrol; U. S. Penitentiary; Coroners; Kansas Bureau of Investigation; Sheriffs; City police departments; State Fire Marshall; City fire departments; Federal and State Geological Surveys; Highway Commission; Local water and sewer districts; Kansas Water Resources Board; Forbes Air Force Base; McConnell Air Base; Fort Riley.
Ky.	-
La.	*

TABLE 8-2. SERVICES PROVIDED BY THE LABORATORY TO STATE DEPARTMENTS OTHER THAN THE HEALTH DEPARTMENT  
(Continued)

Me.	Horse racing toxicology for racing commissions; rabies tests for Department of Agriculture to establish basis for indemnity in human non-exposure situations; toxicology for Medical Examiner; drug identification for law enforcement agencies; blood-breath alcohol for Department of Transportation Highway Safety Program; water analysis for Department of Transportation, Highways.
Md.	*
Mass.	Laboratory diagnosis of rabies for the Department of Agriculture, Department of Animal Health.
Mich.	Water bacteriology for Department of Natural Resources. Some milk analyses for Department of Agriculture. A few urinalyses of juveniles for Department of Corrections. Drug testing on investigative cases for Board of Pharmacy and for Drugs Anonymous Programs. Inflammables for State Fire Marshal. Diagnostic microbiology services for Mental Health facilities, Corrections Department, and other State agencies.
Minn.	-
Miss.	All services are available to all State Departments.
Mo.	Missouri Conservation Commission - atomic absorption for trace metals - Water and Fish. Division of Mental Health and Department of Corrections - Syphilis Serology and microbiological procedures. University of Missouri Medical Center - reference culture work and training. School of Veterinary Medicine Diagnostic Center - reference culture identification.
Mont.	Highway alcohol and drug tests to Department of Intergovernmental Relations - Highway Safety Division.
Nebr.	Support by contract to new Department of Environmental Control. Water quality tests are performed for Departments of Roads, Game and Parks, Institutions and several Federal agencies. Drug identification and limited other criminalistics performed for State Patrol.
Nev.	-
N.H.	Department of Agriculture and Department of Fish and Game: rabies check on animals.
N.J.	Laboratory services in all disciplines as needed and by arrangement (e.g. potable water analysis regarding migrant camps; Department of Labor and Industry).
N.M.	*
N.Y.	*
N.C.	Clinical services are provided for the following State agencies: Department of Corrections, Department of Mental Health, North Carolina Sanatorium System, North Carolina Department of Youth Development, Consolidated University of North Carolina. Chemical analyses of drinking water are performed for the State Utilities Commission; Radiation analyses are made for the Division of Water and Air Resources, Department of Natural and Economic Resources. Microbiological analyses of water are performed for the State Highway Department.
N.D.	-
Ohio	Sanitary Chemistry to Department of Natural Resources. Serology to Mental Hygiene and Correction.
Okla.	All services available are offered to other State Departments.
Ore.	Reference work only.
Pa.	*
R.I.	Toxicology to: Medical Examiners, Attorney General's Department, Racing Commission. Food to: Division of Purchases.

TABLE 8-2. SERVICES PROVIDED BY THE LABORATORY TO STATE DEPARTMENTS OTHER THAN THE HEALTH DEPARTMENT  
(Continued)

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S.C.	Vocational Rehabilitation, State Law Enforcement Division, Department of Corrections, State - Federal Livestock Labs, Department of Social Services, Mental Health Agencies. All services available to other State Departments.
S.D.	Department of Agriculture: certification of product laboratories.
Tenn.	Laboratory support for Milk Program of Department of Agriculture.
Tex.	Other State agencies receive services - some through inter-agency contracts where volume is great - in water quality, water pollution, animal health, etc.
Utah	Toxicology: State Medical Examiner and Law Enforcement Agencies.
Vt.	Blood Alcohol: Department of Safety. Drug Analysis: Chief Medical Examiner.
Va.	*
Wash.	Few chemistry tests for Department of Ecology. Cooperate with Department of Agriculture Milk Approval Program. Pesticide tests for Departments of: Game and Fisheries, Agriculture, Labor and Industry, Natural Resources.
W.Va.	Food Microbiology for State Agriculture Department.
Wisc.	Water Bacteriology and Chemistry provided to the Department of Natural Resources.
Wyo.	Assistance in Alcohol Testing provided to State Highway Patrol.
Guam	-
P.R.	*
V.I.	-

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TABLE 8-3. HEALTH-RELATED LABORATORY SERVICES PROVIDED BY OTHER DEPARTMENTS OF THE STATE GOVERNMENT

Ala.	-
Alaska	Dairy and food bacteriology - Department of Natural Resources. Pesticide, air pollution, radiological services - Department of Environmental Conservation.
Ariz.	-
Ark.	*
Cal.	*
Colo.	-
Conn.	Connecticut Agricultural Experiment Station: certain types of chemical food analyses.
Del.	Chemical examination of water by the Department of Water and Air Resources.
D.C.	D.C. Environmental Services Department performs air and radiological determinations. D.C. Department of Corrections has some clinical laboratory facilities.
Fla.	Department of Agriculture and Consumer Services' food and milk testing. Department of Vehicles and Highway Safety and Department of Education - training, blood alcohol testing, and enforcement.
Ga.	-
Hawaii	University of Hawaii: Health research and investigations. Department of Agriculture: Animal diseases.
Ida.	-
Ill.	Environmental Protection Agency: public waters, stream pollution, air pollution.
Ind.	Industrial Hygiene - Indiana State Board of Health. Toxicology - Indiana University.
Ia.	State Department of Agriculture - food and milk, water supplies for Grade A dairies. Veterinary Medical Diagnostic Laboratory, ISU, - rabies.
Kans.	Board of Agriculture Laboratory provides part of laboratory work for Milk Control Program. Veterinary Diagnostic Laboratory, Kansas State University, provides all rabies laboratory work, animal and human, for State.
Ky.	Services of Animal Diagnostic Laboratories in Lexington and Hopkinsville, Ky.
La.	*
Me.	Food and milk by Department of Agriculture; air and water pollution by Department of Environmental Protection.
Md.	*
Mass.	Some laboratory data is on occasion provided by the University of Massachusetts.
Mich.	Complete water chemistry analyses done by Department of Natural Resources. Many institutions have their own clinical laboratories.
Minn.	-
Miss.	None or almost none.
Mo.	Air Conservation - surveillance of air pollution. Water Conservation - surveillance of streams. Department of Agriculture - dairy products, other than Grade A milk and meat. Division of Mental Health - diagnosis and drugs.
Mont.	Rabies laboratory work done by Department of Livestock, Animal Health Division. Bacteriology of milk and frozen desserts in Department of Livestock, Animal Health Division.

TABLE 8-3. HEALTH-RELATED LABORATORY SERVICES PROVIDED BY OTHER DEPARTMENTS OF THE STATE GOVERNMENT  
(Continued)

Nebr.	Milk and food microbiology and chemistry, pesticide testing, some drug analyses are by law performed by Department of Agriculture laboratories.
Nev.	-
N.H.	-
N.J.	Toxicology: State Police Laboratory; Department of Law and Public Safety.
N.M.	*
N.Y.	*
N.C.	Much of the work done by the Division of Water and Air Resources, Department of Natural and Economic Resources has health-related aspects. The Mental Health Department has laboratories in its mental hospitals. The SBI laboratory performs some services in the drug field which have health aspects. The Agriculture Department has the Food and Drug Laboratory services. The State Highway Patrol administers the Alcohol Breathalyzer Program. The Medical Examiner Program at Chapel Hill, N.C. is a Division of the State Board of Health and has its own toxicology laboratory. The Epidemiology Division of the State Board of Health operates its own Occupational Health and Pesticides Laboratories.
N.D.	State Laboratories Department (Regulatory Department) provides water and milk testing.
Ohio	Agriculture: Food, dairies, drugs. Animal disease laboratory.
Okla.	State Board of Medical - Legal Examination - forensic toxicology. State Bureau of Investigation - alcohol detection, laboratory services pursuant to criminal investigation. State Board of Agriculture - bacteriology and chemistry of non-fluid dairy products, brucellosis testing of cattle and swine, salmonella agglutination of poultry, tests for various chemical residues in animal feeds, meat, fish, poultry. (On the local level, City-County Health Department Laboratory in Oklahoma City does sanitary bacteriology, sanitary chemistry, air pollution. City-County Health Department Laboratory in Tulsa - sanitary bacteriology, sanitary chemistry, air pollution, diagnostic bacteriology).
Ore.	Multiphasic Screening. Department of Agriculture - foods, etc. Department of Environmental Quality Control - air and water.
Pa.	*
R.I.	Social Welfare - Hospital Laboratory. Mental Health - Hospital Laboratory.
S.C.	Department of Agriculture - chemistry of agricultural products. Pollution Control - water and air pollution. State Law Enforcement Division - breath alcohol and drug identification. Clemson Livestock Laboratory - animal diagnostics.
S.D.	Department of Agriculture - Milk testing.
Tenn.	-
Tex.	-
Utah	Department of Agriculture: Milk, Food Surveillance.
Vt.	Meat Inspection - Department of Agriculture. Animal diseases - Department of Agriculture, University of Vermont Animal Pathology.
Va.	*
Wash.	The Universities - environmental health samples. State Chemist - Salmonella. State Toxicologist - drugs. Department of Labor and Industries - chemical and air quality tests. Department of Agriculture - pesticide services. Department of Ecology - water quality.



TABLE 8-3. HEALTH-RELATED LABORATORY SERVICES PROVIDED BY OTHER DEPARTMENTS OF THE STATE GOVERNMENT  
(Continued)

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W.Va.	Mental Health, Air Pollution, Natural Resources, Industrial Hygiene, State Agriculture Laboratory, Department of Public Safety.
Wisc.	Wisconsin State Crime Laboratory, Department of Justice. Animal Health Laboratory, Department of Agriculture.
Wyo.	Chemical analysis of water supplies provided by Department of Agriculture.
Guam	-
P.R.	*
V.I.	-

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TABLE 8-4. SERVICES PROVIDED BY THE LABORATORY TO LOCAL HEALTH DEPARTMENTS

Ala.	Complete laboratory services other than clinical.
Alaska	All services required in support of the local programs.
Ariz.	Diagnostic Microbiology and Parasitology, Serology, Virology, Sanitary Bacteriology and Chemistry.
Ark.	*
Cal.	*
Colo.	Direct service in Sanitary Bacteriology and Chemistry, Microbiology, Serology, etc. to local health departments not having laboratories. Training of personnel. Technical direction of laboratory program. Evaluation, review, and consultation.
Conn.	Examinations for infectious disease programs; water, food, and dairy programs; sickle cell anemia and lead poisoning.
Del.	Laboratory diagnosis of: Venereal diseases, Enteric and other bacterial diseases (cultures and serology), Hematology, Parasitology, Urinalysis (and urine cultures), Exfoliative Cervical Cytology, PKU, Sanitary Bacteriology and Rabies.
D.C.	-
Fla.	Microbiological diagnostic services (Bacteriology, Parasitology, Virology, Mycology, and Serology). Screening for selective chronic diseases (Cardiovascular disease, diabetes, sickle cell, PKU). Sanitary Bacteriology (milk, food, and water). Training for local health department personnel (water testing and clinical tests).
Ga.	All public health laboratory diagnostic services and environmental microbiological services.
Hawaii	Diagnostic and reference services to city and county health department. Conferences and in-service training to branch laboratories, which are under the jurisdiction of District Health Officers of the State Department of Health.
Ida.	Complete services supplied to all local departments under the provisions of contractual agreements.
Ill.	All services offered are available for utilization by local health departments and are used in various degrees by them, based on their capabilities, facilities, and needs.
Ind.	Reference services - rabies, syphilis serology, etc.
Ia.	Reference, consultative and direct services.
Kans.	Reference; partial to complete laboratory service according to local capability: Bacteriology, Serology, Parasitology, Virology (all), Mycology, Water Bacteriology and Chemistry, Toxicology.
Ky.	Services include: the provision of certain clinical laboratory procedures for official health agencies and practicing physicians; the chemical and biological examination of food, milk, water, drugs, air and other phases of the environment; laboratory consultation, including assistance in the planning and construction of laboratories, and refresher training for technical laboratory personnel; evaluation and certification of milk, water and medical laboratories in Kentucky; and research in the area of methodology development and the application of new procedures to laboratory practice.
La.	*
Me.	All services in microbiology and water laboratory.
Md.	Nine Branch (Regional) Laboratories provide all routine diagnostic and environmental Microbiology, Hematology, Urinalysis, Clinical Chemistry, Serology, and routine Milk and Food Chemistry.

TABLE 8-4. SERVICES PROVIDED BY THE LABORATORY TO LOCAL HEALTH DEPARTMENTS  
(Continued)

Mass.	Provides laboratory support for epidemiological activities at the local level.
Mich.	All of Laboratory's services are available to them.
Minn.	All services are available to local health departments.
Miss.	All services of PH Laboratory are available to local health departments.
Mo.	Microbiology, Chemistry, Virology, Serology, and Environmental Bacteriology for surveillance and epidemiological purposes.
Mont.	All available services.
Nebr.	-
Nev.	All public health services.
N.H.	Same services for entire State with consultation.
N.J.	Diagnostic Bacteriology, Sanitary Bacteriology, Parasitology, Mycology, PKU screening (Guthrie test), Rabies specimen examinations. Bench training and consultative assistance. Partial chemical on well waters.
N.M.	*
N.Y.	*
N.C.	The Laboratory offers any of its services to local health departments. In certain instances, such as Cancer and Multiphasic Screening the local health department must offer certain clinic services in order to receive the laboratory service.
N.D.	Water and milk testing. Throat cultures. Consultation.
Ohio	Nearly all services, as requested. Largest item is testing private drinking water supplies. Rabies, Syphilis Serology, Gonorrhoea Cultures.
Okla.	All services available offered to local health departments.
Ore.	All available services.
Pa.	*
R.I.	(No local health departments in R.I.)
S.C.	All services provided by the Bureau of Laboratories.
S.D.	Technical training, controls, checking reagents and supplies.
Tenn.	Laboratory provides forms and mailing containers. Provides laboratory support to local programs such as Rabies Control, Milk, and TB Control.
Tex.	Diagnostic Services, Analytical Services.
Utah	All except Water Bacteriology and Chemistry. (The Salt Lake City and County laboratory provides both. Logan City and Ogden City - Weber County provide Water Bacteriology. The Valley View Medical Center laboratory is approved to perform Water Bacteriology for a recently established multi-county health department in southwestern Utah).
Vt.	(No local health departments in Vermont).
Va.	*
Wash.	Training, consultation, laboratory back-up in time of vacations, etc., limited reagents, reference bacteriology, stock cultures, syphilis serology control serum.
W.Va.	All available services.

TABLE 8-4. SERVICES PROVIDED BY THE LABORATORY TO LOCAL HEALTH DEPARTMENTS  
(Continued)

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Wisc.	All services not available in local laboratory.
Wyo.	All routine laboratory services since there are no local health laboratories.
Guam	Supports various programs for detection and prevention of diseases by providing diagnostic laboratory examinations.
P.R.	Quality control, consultation and reference.
V.I.	Bacteriology, Serology, Parasitology, Milk and Water, Chemistry, FA, Virology, Mycology, Chromosomes, Mycobacteriology.

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TABLE 8-5. SERVICES PROVIDED BY THE LABORATORY TO LOCAL HOSPITAL AND INDEPENDENT CLINICAL LABORATORIES

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Ala.	Complete laboratory services other than clinical.
Alaska	Reference, consultation, training, and diagnostic services.
Ariz.	Diagnostic Microbiology and Parasitology, Serology, Virology, Sanitary Bacteriology and Chemistry. (Discontinued ASO titer, urinalysis, blood grouping and Rh typing, and routine typhoid and paratyphoid agglutinations as of 12/1/71. Discontinued VDRL and Streptococcus identification and grouping as of June 30, 1972).
Ark.	*
Cal.	*
Colo.	Reference service in Microbiology. Training. Performance evaluation and proficiency testing. Consultation.
Conn.	Reference laboratory for Syphilis Serology. Pediatric Virology; Diagnostic Microbiology; proficiency testing in Clinical Chemistry, Serology, Hematology, and Microbiology.
Del.	To local hospitals - mostly reference bacteriology. To independent clinical laboratories and some hospital laboratories - surveys and evaluation in Syphilis Serology and reference Bacteriology.
D.C.	Certifications under Medicare. Confirmations of bacterial cultures. Certain specific types of tests (i.e. lead poisoning). Some training is offered.
Fla.	Microbiological reference services (confirmation and/or further identification of positive findings). Viral diagnostic services. Toxicology. Clinical Laboratory Improvement Program (licensure, Medicare or Interstate Laboratory Certifications, proficiency testing services, Implied Consent Law permitting). Training of personnel.
Ga.	Most virologic services except rubella serology. PKU tests. Definitive study of bacterial and fungal isolations. Fungal Serology. Syphilis Serology. Consultation with microbiological problems. Limited workbench training. Designated workshop training.
Hawaii	Diagnostic and reference services. Syphilis proficiency testing. Survey of independent laboratories and non-JCAH hospital laboratories for Medicare certification. Licensing of laboratory directors and technicians. Bench training.
Ida.	Some continuing education programs. Some bench training and consultation. Also operate a Statewide Quality Control Program for hospital and independent clinical laboratories.
Ill.	Laboratory Improvement Program, referral service and confirmation, sophisticated testing, technical aid (consultation).
Ind.	Consultative and reference services - culture identification, etc.
Ia.	Reference, consultative and training. Assist in cost-unit purchasing of VDRL antigen and sell at cost.
Kans.	Reference, partial to complete laboratory services according to local capability: Bacteriology, Serology, Parasitology, Virology (all), Mycology, Water Bacteriology and Chemistry, Toxicology.
Ky.	Clinical laboratory services. Chemical analysis and biological examination of food, milk, and water. Laboratory services for epidemiological study and control of diseases.
La.	*
Me.	All services in Microbiology (both primary and reference), water laboratory, proficiency testing program, laboratory improvement consultation program.

TABLE 8-5. SERVICES PROVIDED BY THE LABORATORY TO LOCAL HOSPITAL AND INDEPENDENT CLINICAL LABORATORIES  
(Continued)

Md.	All services available to State hospitals. Virology and other specialized services to university and local hospitals if in category of infectious diseases or for indigent and medically-indigent patients.
Mass.	Provide education and training through laboratory improvement. Provide highly specialized reference type laboratory services. Provide routine diagnostic services on request, Syphilis Serology.
Mich.	Diagnostic services. Reference services, including identification of isolates, Salmonella and Staphylococcus phage typing. Licensing, including proficiency testing. Training, both bench and courses.
Minn.	All services of the Division of Medical Laboratories are provided.
Miss.	Consultation, training, all diagnostic services.
Mo.	Reference laboratory services, consultation, training of laboratory personnel, evaluation, visitation.
Mont.	All available services.
Nebr.	-
Nev.	Consultation; identification of organisms.
N.H.	Same services for entire State with consultation.
N.J.	Diagnostic Bacteriology, Sanitary Bacteriology, Parasitology, Mycology, PKU screening (Guthrie test), Rabies specimen examinations. Bench training and consultative assistance. Serum phenylalanine proficiency testing.
N.M.	*
N.Y.	*
N.C.	Any of the Laboratory's clinical services, except those limited to certain types of P.H. clinics, are available to hospitals. (Independent clinical laboratories use these services also, submitting occasional specimens under a physician's name rather than the laboratory's name).
N.D.	Clinical microbiological services.
Ohio	Nearly all services, as requested; especially identification of cultures, confirmation and FTA testing for Syphilis, and Virology services.
Okla.	Reference diagnostic services.
Ore.	Reference and confirmation work.
Pa.	*
R.I.	Licensure, evaluation, and trouble-shooting training for independent laboratories. Reference specimens, Syphilis Serology evaluation for hospitals.
S.C.	Those tests required by law. Tests not available locally. Training and proficiency testing. Consultation upon request. Reference cultures.
S.D.	Technical training, controls, checking reagents and supplies.
Tenn.	Reference services. Consultation on technical problems.
Tex.	Reference services; evaluation services.
Utah	All Virology except Rubella HAI. Reference samples for definitive microbiology. Quantitative toxicology. Qualitative and quantitative analyses for heavy metals. Pesticide studies.

TABLE 8-5. SERVICES PROVIDED BY THE LABORATORY TO LOCAL HOSPITAL AND INDEPENDENT CLINICAL LABORATORIES  
(Continued)

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Vt.	Syphilis Serology - laboratory approval, training of personnel, proficiency testing. Microbiology - bench training, workshops, consultations, reference cultures. Sanitary, environmental, bacteriological, and chemical water testing.
Va.	*
Wash.	Training, consultation, reference: Bacteriology, stock cultures, Syphilis Serology control serum.
W.Va.	Reference service.
Wisc.	All services not available in local laboratories.
Wyo.	Consultation, training, control sera and occasional stock cultures.
Guam	Receives referrals for confirmation; provides free examination for detection of cancer.
P.R.	Quality control, consultation.
V.I.	Bacteriology, Serology, Parasitology, Milk and Water, Chemistry, FA, Virology, Mycology, Chromosomes, Mycobacteriology.

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TABLE 8-6. CHARGES FOR LABORATORY SERVICES

	Lab Has Fees for Some Services		If Yes, Services with a Fee and Charge per Unit:
	Yes	No	
Ala.	-	X	-
Alaska	-	X	-
Ariz.	-	X	To be instituted 7/1/72 for Water.
Ark.	X	-	Premarital blood tests, \$1.00 per certificate.
Cal.	*	*	*
Colo.	-	-	-
Conn.	-	X	-
Del.	-	X	-
D.C.	-	X	-
Fla.	-	X	-
Ga.	-	X	-
Hawaii	-	-	-
Ida.	X	-	Complete Chemical Analysis of Water - \$60.00 (includes total dissolved solids, pH, color, turbidity, alkalinity, hardness, calcium, magnesium, iron, manganese, sodium, copper, chloride, nitrate, phosphate, sulfate, fluoride, ammonia, zinc, lead and potassium). The following individual tests are \$4.00 each: alkalinity, hardness, calcium, magnesium, iron, manganese, sodium, copper, potassium, chloride, nitrate, phosphate, sulfate, fluoride, ammonia, zinc, lead, total solids, suspended solids, carbohydrates, ash, fat. The following are \$1.00 each: pH, color, turbidity, settleable solids. Elemental analyses performed by atomic absorption spectrophotometry at \$4.00 each: Ag, Al, As, B, Ba, Be, Ca, Cd, Cl (indirectly), Co, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Se, Si, V, Zn, U. (Other elements can be analyzed on special request). BOD, COD, Kjehdahl nitrogens, and total phosphorus are \$7.50 each. Pesticide residue analysis is \$35.00. Premarital Syphilis Serology, Prenatal Syphilis Serology, and Rubella Serology: \$3.00 each. Cytogenetic test, \$10.00 (count minimum of 20 cells and karyotype minimum of 2 cells). Drug identification tests, \$5.00 per sample. Drug identification expert testimony - \$10.00 minimum charge up to one hour - \$5.00 for each additional hour. (Courts will not be charged for travel time). Bacteriological quality test, \$5.00. Most probable number (MPN), \$7.50.
Ill.	-	-	-
Ind.	X	-	Premarital Syphilis Serology, \$2.50 per specimen; private well waters - Bacteriology, \$2.50 per sample; commercial water, \$10.00 per year.
Ia.	X	-	Milk (raw), \$2.00/specimen. Dairy Products (processed), \$2.00/specimen; Sterility tests (allergic desensitizers), \$10.00/specimen; Water Analysis: Solids Series, \$30.00; Single Solid Exam, \$8.00; Nitrogen series, \$24.00; Nitrate, Nitrite, Ammonium, \$8.00 each; Organic Nitrogen, \$10.00; Sulfate, \$10.00; Bacterial Fecal Coliform, Total Coliform, Fluoride, Chloride, Phosphate (Ortho), \$8.00 each; Polyphosphate (Ortho + Meta), \$10.00; pH, Conductance, Alkalinity (P and T), Hardness (Total), Calcium, Magnesium, Sodium, Potassium, \$5.00 each; Hardness Series (Total Hardness, Calcium, Magnesium), \$10.00; Iron, Manganese, Barium, Copper, Chromium (Total), Cadmium, Zinc, Dissolved Oxygen, \$8.00 each; Silica, Lead, Selenium, Grease, Cyanide, Oil, Sulfide, Detergency (LAS), Phenols, 2-4-D, DDT, \$10.00 each; Arsenic, Mercury, \$15.00 each; BOD, \$30.00; COD, \$20.00; Volatile Acids, \$12.00; Pesticides, \$50.00; Complete Mineral, \$75.00. Additional analytical services available by request and fee arrangement. Charges to cities are as follows: Bacterial (Total Coliform), Iron, Iron Bacteria, and Fluoride, \$2.00 each; Complete Mineral, \$30.00. Private drinking water quality determinations have the following costs: Bacterial (Total Coliform); Iron, pH, Hardness and/or Nitrate; Iron Bacteria, \$2.00 each.



TABLE 8-6. CHARGES FOR LABORATORY SERVICES  
(Continued)

	Lab Has Fees for Some Services		If Yes, Services with a Fee and Charge per Unit:
	Yes	No	
Kans.	X	-	Municipal Water Supplies (Bacteriological and Chemical), \$35.00 - 600.00 per year. Water Bacteriology for private individual, \$2.00 per sample of water; Water Chemistry for private individual, \$7.50 per sample of water; Swimming pools, \$40.00-60.00 per year.
Ky.	-	X	-
La.	-	X	-
Me.	X	-	Potability analysis of private water supplies - \$2.00/test. Potability analysis of public and other supplies - *. Toxicology and drug identification, \$7.50/hr. except marijuana, \$15.00. Blood and breath alcohol analysis, \$15.00.
Md.	-	-	-
Mass.	-	X	-
Mich.	-	X	-
Minn.	-	X	-
Miss.	-	X	-
Mo.	-	X	-
Mont.	X	-	Bacteriological analysis of drinking water - \$2.00. Municipal water supplies - on contract - MPN, water - \$10.00. Chemistry - drinking water - \$5.00. Complete Chemistry drinking water - \$10.00. Alcohol in blood or urine, \$5.00.
Nebr.	-	X	-
Nev.	-	X	-
N.H.	-	X	-
N.J.	-	X	-
N.M.	*	*	*
N.Y.	*	*	*
N.C.	X	-	Specimen Outfits: Throat Swab, \$0.10; Sputum (TB), \$0.25; Feces (culture), \$0.10; Feces (Parasitology), \$0.30; Serology Tube (single, with mailing case) - Syphilis, Rubella, Non-Syphilis, \$0.10 ea.; Serology Tube (10 per container with one mailing case) - Syphilis, Rubella, Non-Syphilis, \$0.50 each. Water Bottle - Bacterial, \$0.40; Chemical, \$0.75; Fluoride, \$0.50; kit containing two micro slides, \$0.10; Micro Slides, Frosted End - 1/2 Gross box, \$1.50. Biologicals: Tetanus - Diphtheria Toxoid (Adult), 5 Immunizations, Diphtheria-Tetanus Toxoid (Pediatric), 5 Immunizations, Triple Antigen - Diphtheria-Tetanus-Pertussis, 5 Immunizations, Tetanus Toxoid - Aluminum Precipitated - 5 Immunizations, Tetanus Antitoxin - 1,500 units (Prophylactic), \$0.75 each; Sabin (Oral) Poliomyelitis Vaccine - 10 dose vial - 100 doses minimum order - \$3.50; Antirabic Treatment (Duck Embryo), 7 Dose - \$10.00; Rabies Antiserum - 1,000 units, \$9.00; Diphtheria Antitoxin - 20,000 units (Therapeutic), \$7.00; Tetanus Antitoxin - 20,000 units, \$5.00. Pap Smear Supplies: Mailing Case (Cytology), large - \$0.20; Cervical Scrapers, \$0.04; Slides (1 x 3 frosted 1/2 gross box), \$1.50; Polyethylene Glycol 400, \$2.00. Water Analyses - Graduated Water fee charged to owners of public water supplies varies from \$15.00 to \$64.00/year depending on number of connections and amount of water sold. Chemical and Bacteriological - \$5.00/test unless accompanied by request from physician or Health Department.
N.D.	-	X	-
Ohio	-	X	-
Okla.	-	X	-
Orè.	-	X	-
Pa.	*	*	*
R.I.	-	X	-
S.C.	-	X	-
S.D.	X	-	Water Chemistries vary from \$1.00-15.00. Water Bacteriology - \$1.00 per sample.

TABLE 8-6. CHARGES FOR LABORATORY SERVICES  
(Continued)

	Lab Has Fees for Some Services		If Yes, Services with a Fee and Charge per Unit:
	Yes	No	
Tenn.	-	X	-
Tex.	-	X	-
Utah	X	-	Quantitative toxicology, \$5.00-30.00. (This does not include heavy metals or pesticides).
Vt.	-	X	-
Va.	-	X	-
Wash.	-	X	-
W.Va.	-	X	-
Wisc.	X	-	\$1.00 per specimen handling fee, except to State and local units of government.
Wyo.	-	X	-
Guam	-	X	-
P.R.	-	X	-
V.I.	-	X	(New law proposed to Senate and not acted upon as yet).

TABLE 8-6. CHARGES FOR LABORATORY SERVICES  
(Continued)

	Estimate of Total Annual Receipts from Charges	Disposition of Funds
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	\$19,000	To pay off the laboratory building bonds.
Cal.	*	*
Colo.	-	-
Conn.	-	-
Del.	-	-
D.C.	-	-
Fla.	-	-
Ga.	-	-
Hawaii	-	-
Ida.	50,000	"Receipts to Appropriations" are returned to Laboratories Division as part of its operating budget. (\$4,000 - salaries; \$4,000 - employee benefits; \$6,000 - other current expense).
Ill.	-	-
Ind.	38,000	State Treasury.
Ia.	152,876	Receipts are estimated in budget planning and thus become budgeted funds.
Kans.	84,712	Water and Sewage Fee Fund which is budgeted for laboratory use.
Ky.	-	-
La.	-	-
Me.	*	Chemistry - Toxicology collections remain in laboratory account; private water testing fees go to General Fund; public water supply testing fees available partially to laboratory from intra-departmental account.
Md.	-	-
Mass.	-	-
Mich.	-	-
Minn.	-	-
Miss.	-	-
Mo.	-	-
Mont.	32,876	Water (28,876) to General Fund. Alcohol (4,000) from Highway Patrol to Department.
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	-	-
N.M.	*	*
N.Y.	*	*
N.C.	174,342	Applied to general operating expenses of laboratory. State and Federal appropriations together with receipts is the source of money.
N.D.	-	-
Ohio	-	-
Okla.	-	-
Ore.	-	-
Pa.	*	*
R.I.	-	-
S.C.	-	-
S.D.	*	General fund.
Tenn.	-	-
Tex.	-	-
Utah	*	General State Funds.
Vt.	-	-
Va.	-	-
Wash.	-	-
W.Va.	-	-
Wisc.	500,000	They are part of the laboratory operating budget.
Wyo.	-	-
Guam	-	-
P.R.	-	-
V.I.	135,000	General and Health Revolving funds.

TABLE 8-7. RECIPIENTS OF LABORATORY'S SERVICES

Percentage of Laboratory's Services Received by:					
State & Local Public Health Activities	Reference Service to Other Labs	Private Physicians	Hospitals and Clinics	Other	
Ala.	40.0	10.0	30.0	20.0	-
Alaska	47.0	5.0	38.0	10.0	-
Ariz.	41.0	-	30.0	7.0	17.0 - Federal Agencies, Indian Health; 4.0 - Water Companies; 1.0 - Private laboratories and blood services.
Ark.	50.0	10.0	25.0	15.0	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	20.0	10.0	60.0	10.0	-
Del.	*	*	*	*	*
D.C.	*	*	*	*	*
Fla.	70.0	2.0	15.0	10.0	3.0 - Law Enforcement Agencies.
Ga.	45.0	2.0	50.0	3.0	-
Hawaii	55.0	5.0	30.0	10.0	-
Ida.	43.0	2.0	10.0	5.0	25.0 - Law Enforcement Agencies; 15.0 - Other State Agencies.
Ill.	42.0	22.0	14.0	8.0	1.0 - Other State Departments (Agriculture, Mental Health); 13.0, Coroners, Law Enforcement.
Ind.	*	*	*	*	*
Ia.	58.0	10.0	22.0	3.0	7.0 - Individual Public Health Activities.
Kans.	30.0 (a)	15.0	25.0	(b)	25.0 - State Welfare Hospitals and Institutions; 5.0 - Law Enforcement other than Health.
Ky.	30.0	10.0	40.0	20.0	-
La.	*	*	*	*	*
Me.	*	*	*	*	*
Md.	75.0	5.0	10.0	10.0	-
Mass.	2.0	8.0	40.0	50.0	-
Mich.	*	*	*	*	*
Minn.	1.0	1.0	90.0	8.0	-
Miss.	75.0	5.0	10.0	10.0	-
Mo.	*	*	*	*	*
Mont.	30.0	20.0	30.0	20.0	-
Nebr.	*	*	*	*	*
Nev.	60.0	5.0	35.0	-	-
N.H.	*	*	*	*	*
N.J.	*	*	*	*	*
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	* (c)	*	*	*	*
N.D.	-	-	-	-	-
Ohio	20.0	20.0	30.0	20.0	10.0 - Support to other State Departments.
Okla.	*	*	*	*	*
Ore.	*	*	*	*	*
Pa.	*	*	*	*	*
R.I.	40.0	5.0	45.0	10.0	-
S.C.	45.0	5.0	40.0	10.0	-
S.D.	25.0	5.0	60.0	10.0	-
Tenn.	60.0	10.0	25.0	5.0	-
Tex.	60.0	10.0	20.0	10.0	-
Utah	30.0	5.0	60.0	5.0	-
Vt.	*	*	*	*	*
Va.	*	*	*	*	*
Wash.	*	*	*	*	*
W.Va.	99.0+	<1.0	-	-	-
Wisc.	20.0	5.0	50.0	25.0	-

TABLE 8-7. RECIPIENTS OF LABORATORY'S SERVICES  
(Continued)

<u>Percentage of Laboratory's Services Received by:</u>					
	State & Local Public Health Activities	Reference Service to Other Labs	Private Physicians	Hospitals and Clinics	Other
Wyo.	-	10.0	60.0	30.0	-
Guam	85.0	5.0	5.0	5.0	-
P.R.	*	*	*	*	*
V.I.	40.0	-	2.0	58.0	-

TABLE 8-8. SCREENING PROGRAMS OTHER THAN PKU IN PROGRESS

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Ala.	Detection of Hemoglobinopathies.
Alaska	Rubella.
Ariz.	-
Ark.	Gonorrhoea.
Cal.	*
Colo.	-
Conn.	Galactosemia, Sickle Cell Anemia, Lead Poisoning.
Del.	-
D.C.	Multiphasic health screening involving Hematology, Clinical Chemistry, Sickle Cell Anemia, Exfoliative Cytology, and Lead Poisoning.
Fla.	-
Ga.	-
Hawaii	-
Ida.	-
Ill.	GC screening; Viral Immunity Study.
Ind.	-
Ia.	Childhood blood lead.
Kans.	-
Ky.	-
La.	Group A Beta Hemolytic Streptococci; GC screening.
Ma.	-
Md.	Genetic metabolic diseases.
Mass.	Premarital and prenatal Syphilis Serology, Rubella Birth Defects Prevention, Other Inborn Errors of Metabolism.
Mich.	-
Minn.	-
Miss.	Diabetic, Sickle Cell, Gonorrhoea.
Mo.	Blood Glucose.
Mont.	-
Nebr.	-
Nev.	-
N.H.	Diabetes.
N.J.	GC Cultures. Urine drug screening in support of the Division of Narcotic and Drug Abuse Control (e.g. Methadone Clinics).
N.M.	*
N.Y.	Galactosemia (Beutler method); MSUD (Difco version).
N.C.	Diabetes screening, Cancer Cytology screening, VDRL screening.
N.D.	-
Ohio	Diabetes detection and multiple screening - SMA-12.
Okla.	Chronic Disease Screening Program - Glucose, Cholesterol.
Ore.	Other Inborn Errors of Metabolism.
Pa.	*
R.I.	Diabetes, Lead, Maple Syrup Urine Disease, Monocystinuria, Galactosemia, Sickle Cell Anemia.
S.C.	Hemoglobinopathies.
S.D.	-
Tenn.	Diabetes.
Tex.	Diabetes.
Utah	-
Vt.	Rubella, Glucose, Uric Acid, Cholesterol, Creatinine, Syphilis Serology, Gonorrhoea cultures.
Va.	Blood glucose.
Wash.	Sickle Cell.
W.Va.	GC, Cytology Pap Smears.
Wisc.	Multiphasic Blood Screening Program.
Wyo.	-
Guam	-
P.R.	-
V.I.	Screening of all newborns.

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TABLE 8-9. NEW SCREENING PROGRAMS CONTEMPLATED

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Ala.	-
Alaska	Hydatid Disease, Sickle Cell Anemia.
Ariz.	Sickle Cell - Fiscal Year 1973.
Ark.	Sickle Cell (if money becomes available).
Cal.	*
Colo.	-
Conn.	-
Del.	Gonorrhea (cultures); Sickle Cell Anemia.
D.C.	D.C. Program for Medicaid recipients will require many laboratory tests beginning during FY 73. This is for youths under the age of 21.
Fla.	Sickle Cell Anemia (hemoglobinopathies). Blood lead determination in children.
Ga.	-
Hawaii	-
Ida.	-
Ill.	Blood lead, Hematocrit, Sickle Cell; expansion of GC screening.
Ind.	-
Ia.	Sickle Cell Anemia.
Kans.	-
Ky.	Sickle Cell.
La.	Sickle Cell Anemia, Lead poisoning; Metabolic diseases other than PKU.
Me.	-
Md.	Lipids in young children.
Mass.	Sickle Cell Anemia, Lead poisoning.
Mich.	Sickle Cell Disease.
Minn.	-
Miss.	-
Mo.	Sickle Cell.
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	Possibly blood leads.
N.M.	*
N.Y.	Alpha-antitrypsin test on blood spots.
N.C.	Sickle Cell Anemia screening.
N.D.	-
Ohio	Lead content. Nutrition. Some Sickle Cell imminent.
Okla.	Sickle Cell Screening (voluntary program).
Ore.	-
Pa.	*
R.I.	Drug screening for patients on methadone.
S.C.	Multiphasic.
S.D.	-
Tenn.	Multiphasic for six chemical components.
Tex.	-
Utah	Hemoglobinopathy.
Vt.	-
Va.	Sickle Cell.
Wash.	Birth defects.
W.Va.	Sickle Cell.
Wisc.	-
Wyo.	Sickle Cell Anemia.
Guam	-
P.R.	-
V.I.	Serum Hepatitis, Sickle Cell, Rubella, and Narcotics.

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SECTION VIII. FOOTNOTES

- (a) These figures are for General Health Laboratory. Figures for Environmental Health Laboratory are: State and local public health activities, 30%; municipal water supplies, 60%; private individuals, 10%.
- (b) Included in "Reference Service to Other Laboratories."
- (c) This varies considerably from one service to another and in some the data is unavailable. For instance, 96% of the Gonorrhea testing is for public clinics, 55% of the Syphilis Serology specimens are from private physicians; 60% of the clinical Mycology specimens come from the State Mental Hospital; 40% of the clinical Enteric Bacteriology specimens are from three groups of Raleigh pediatricians; 70% of all Streptococcus cultures are from Raleigh and Wake County (95% of these originating with private physicians).



SECTION IX

LABORATORY SAFETY, EQUIPMENT MAINTENANCE, AND ANIMAL USAGE

TABLE 9-1. LABORATORY SAFETY PROGRAMS

	Laboratory Has a Safety Program		Lab. Has an Organized Safety Committee		Lab. Has a Written Procedure Manual to Cover Lab. Accidents	
	Yes	No	Yes	No	Yes	No
Ala.	X	-	-	X	-	X
Alaska	-	X	-	X	-	X
Ariz.	-	X	-	X	-	X
Ark.	-	X	-	X	-	X
Cal.	*	*	*	*	*	*
Colo.	X	-	-	X	-	X
Conn.	X	-	X	-	-	X
Del.	-	X	-	X	-	X
D.C	X	-	-	X	X	-
Fla.	X	-	X	-	-	X
Ga.	X	-	X	-	-	X
Hawaii	X (a)	-	-	X	X (b)	-
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
Me.	-	X	-	X	-	X
Md.	X	-	*	*	X	-
Mass.	-	X	-	X	-	X
Mich.	X	-	X	-	-	X
Minn.	X	-	-	X	-	X
Miss.	-	X	-	X	-	X
Mo.	-	X	-	X	-	X
Mont.	X	-	-	X	-	X
Nebr.	-	X	-	X	X	-
Nev.	-	X	-	X	-	X
N.H.	X	-	-	X	-	X
N.J.	*	*	*	*	*	*
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	X	-	X	-	-	X
N.D.	X	-	-	X	-	X
Ohio	X	-	X	-	-	X
Okla.	-	X	-	X	-	X
Ore.	X	-	-	X	X	-
Pa.	*	*	*	*	*	*
R.I.	X	-	X	-	-	X
S.C.	X	-	X	-	-	X
S.D.	X	-	-	X	-	X
Tenn.	-	X	-	X	-	X
Tex.	X	-	X	-	-	X
Utah	X	-	X	-	X	-
Vt.	X	-	-	X	-	X
Va.	-	X	-	X	-	X
Wash.	X	-	X	-	X	-
W.Va.	-	X	-	X	-	X
Wisc.	X	-	X	-	X	-
Wyo.	-	X	-	X	-	X
Guam	-	X	-	X	-	X
P.R.	X	-	-	X	-	X
V.I.	X	-	-	X	-	X

TABLE 9-1. LABORATORY SAFETY PROGRAMS  
(Continued)

	Lab. Has a Designated Safety Officer		If Yes, Name and Title of Safety Officer
	Yes	No	
Ala.	-	X	-
Alaska	-	X	-
Ariz.	-	X	-
Ark.	-	X	-
Cal.	*	*	*
Colo.	X	-	Robert Barr, Chief, Microbiology Section
Conn.	X	-	Miss Kathryn Glynn, Asst. Director
Del.	-	X	-
D.C.	X	-	David Gale, Adm. Officer, Bureau of Laboratories.
Fla.	X	-	Warren R. Hoffert, Ph.D., Asst. Chief, Bur. of Labs.
Ga.	X	-	Richard Gassaway, Lab. Scientist in Charge of Scientific Services Section
Hawaii	X (a)	-	Mr. Gerald Ohta, Training Officer, Personnel Office, Dept. of Health
Ida.	-	X	-
Ill.	X	-	Irving Ray Murphy, Micro. IV.
Ind.	X	-	Mr. Tinsel Eddleman, Dir., Food, Drug & Dairy Lab. Div.
Ia.	-	X	-
Kans.	-	X	-
Ky.	-	X	-
La.	-	X	-
Me.	-	X	-
Md.	X	-	Tomas Jefferies, Technical Executive
Mass.	-	X	-
Mich.	-	X	(Chairman of Safety Committee, Chief of Plant Protection, & Maintenance Chief, all have roles.)
Minn.	-	X	(Each Section Chief is a Safety Officer.)
Miss.	-	X	-
Mo.	-	X	-
Mont.	-	X	(For special security measures when indicated, James Delaney, Lab. Technician II handles.)
Nebr.	-	X	-
Nev.	-	X	-
N.H.	X	-	George A. Coronis, Med. Bacteriologist
N.J.	*	*	*
N.M.	*	*	*
N.Y.	*	*	*
N.C.	X	-	William G. McDowell, Chief, Admin. Services Section
N.D.	-	X	-
Ohio	X	-	Gary D. Davidson, Dr. P.H., Asst. Chief, Bur. of Labs.
Okla.	-	X	-
Ore.	X	-	James W. Keesling, M.S.
Pa.	*	*	*
R.I.	-	X	-
S.C.	X	-	John Dowd, Purchase & Supply Officer
S.D.	-	X	-
Tenn.	-	X	-
Tex.	X	-	Dr. Carl D. Heather, D.V.M., Special Projects Dir.
Utah	X	-	Merlin M. Smith, Environmental Microbiologist
Vt.	-	X	-
Va.	-	X	-
Wash.	X	-	Clarence V. Hall, Supervisor, Environmental Lab.Svc.Unit

TABLE 9-1. LABORATORY SAFETY PROGRAMS  
(Continued)

	Lab. Has a Designated Safety Officer		If Yes, Name and <u>Title of Safety Officer</u>
	<u>Yes</u>	<u>No</u>	
W.Va.	-	X	-
Wisc.	X	-	M. W. Schwonke, Adm. Asst.
Wyo.	-	X	-
Guam	-	X	-
P.R.	-	X	-
V.I.	X	-	Ferdinand Nicholson, Lab. Director

TABLE 9-2. USE OF SAFETY HOODS

Safety Hoods Currently Being Used in Laboratory		Specific Uses
Ala.	Kewaunee	Rabies, Mycology
Alaska	Blickman	TB only
	Blickman	TB and other "hot" materials
	Kewaunee	TB only
Ariz.	Baker Instruments, Inc.	Tuberculosis
	Baker Instruments, Inc.	Mycology
	Baker Instruments, Inc.	Virology
	Kewaunee	Chemistry
Ark.	Safety Hoods (7)	Tuberculosis, Mycology, Food, Bacteriology, Virology
Cal.	*	*
Colo.	Fisher Isolator	Tuberculosis
	Fisher Isolator	Virology
	Fisher Isolator	Rabies
Conn.	Metalab Equipment Co.	Virus Isolation (4)
	Metalab Equipment Co.	TB-Mycology (2)
	Metalab Equipment Co.	General Bact. (2)
Del.	Fume hood	Milk Lab.
	Isolator (no gloves)	Bacteriology Lab.
D.C.	Blickman Safety hood	Virology
	Blickman (2)	Mycobacteria
Fla.	CDC-Type (Hamilton)	Virology, TB, Bacteriology
	Chemical-Fume	Chemical extractions
	Tailor-made	TB, Bacteriology, Mycology, Virology, Toxoplasmosis
Ga.	Custom-built Hood	Mycobacteriology
	Custom-built Hood	Mycology
	Custom-built Hood	Rabies and other Virology
Hawaii	Kewaunee	Virology (tissue culture)
	Allen-Bradley Co. with UV	Tuberculosis
	Allen-Bradley Co., Chem. Hood	Toxicology
	Allen-Bradley Co., Chem. Hood	Bacteriology, Mycology
Ida.	Sheldon Chemical Hood	Drug Lab
	Labconco Chem. Hood	Drug Lab
	Bact. Hood (Type not known)	Tuberculosis
	Bact. Hood (Type not known)	Virology
	Bact. Hood (Type not known)	Animal Room-Animal Inoculations, Rabies
	Sheldon Chemical Hood	Rad. Health Lab
	Sheldon Chem. Hoods (5)	Pesticide and Stream Pollution Lab
	Sheldon Chem. Hoods (2)	Clinical Chemistry
	Bact. Hood (Type not known)	Tuberculosis
	Coeur d'Alene	
	Bact. Hood (Type not known)	Tuberculosis
	Lewiston	
	Labconco Bact. Hood - Pocatello	Tuberculosis
	Sheldon Chemical Hood - Pocatello	Tuberculosis
	Bact. Hood (Type not known)	General Bact.
	Twin Falls	

TABLE 9-2. USE OF SAFETY HOODS  
(Continued)

	Safety Hoods Currently Being Used in Laboratory	Specific Uses
Ill.	Denko (9-remodelled for UV decontamination of exhaust) Blickman (1) Biological-custom Built (2) Kewaunee, Fume (1) Labconco, Fume (2) Custom-built, Fume (4) Special Stainless Steel, Fume (2)	Virology, TB, Other Bact., Mycology  Mycology Bacteriology Chemistry Chemistry Chemistry Chemistry (perchloric acid)
Ind.	Fisher Isolator Fisher Isolator	Mycology Tuberculosis
Ia.	Kewaunee Safety Hoods (3) Kewaunee Safety Hood (1) Hoods (2) Chemical Safety Hoods (5)	TB - Mycology Special Bact. Virology Chemistry (Solvents & Explosives)
Kans.	CDC-Type (Hamilton) Blickman	Virology Mycobacteriology, Mycology
Ky.	Kewaunee Kewaunee Hamilton Hamilton (3) Hamilton Kewaunee Kewaunee (2) Hamilton (3) Kewaunee (2) Kewaunee Kewaunee Hamilton Labline Kewaunee Labline (3) Hamilton (2) Kewaunee Hamilton Hamilton	Fluorescent Antibody Unit Microbiology Microbiology TB & Mycology Virology Milk Bacteriology Analytical Chemistry Analytical Chemistry Occupational Health Air Pollution Water Pollution Water Pollution Pesticides Pesticides Instrumentation Chemistry Instrumentation Chemistry Instrumentation Chemistry Radiological Health Maintenance Service
La.	Kewaunee Safety Hood Kewaunee Safety Hood Kewaunee Safety Hood Kewaunee Safety Hood Kewaunee Safety Hood	Mycobacteria (2) Virology (1) Water and Milk (1) Mycology (1) Bacteriology (1)
Me.	CDC Model Safety Cabinet CDC Model Safety Cabinet	TB and Rabies Virology
Md.	Kewaunee Forma	Virology Tuberculosis
Mass.	Scientific Products Safety Hood Scientific Products Safety Hood Scientific Products Safety Hood Scientific Products Safety Hood	Mycology only All infectious material (Lab. Improvement) Encephalitis Virus Isolation
Mich.	A large number of hoods are in use from varied sources.	Rabies diagnosis, Virus vaccine manufacture, Diagnostic Virology, Mycobacteriology, Mycology

TABLE 9-2. USE OF SAFETY HOODS  
(Continued)

	Safety Hoods Currently Being Used in Laboratory	Specific Uses
Minn.	Custom-made (6) Hamilton Labconco (3) Biological Safety (4)	AFB and Fungus work Toxoplasmosis General Virology Routine Virology and Rabies
Miss.	Custom-made	Tuberculosis
Mo.	Hamilton (3)	Virology (2), Microbiology (1)
Mont.	Biological Safety Cabinet (Modified per CDC review) Safety Hood	Tuberculosis  Virology (Inoculation of tissue cultures and handling clinical specimens). Also used for carbon monoxide
Nebr.	CDC-Type (Blickman)	Tuberculosis
Nev.	Fabricated Fume Hoods (3) Marketed (UV)	Microbiology Chemistry Tuberculosis
N.H.	- (There will be some in new lab building)	-
N.J.	*	*
N.M.	*	*
N.Y.	*	*
N.C.	CDC design (2) CDC design (1) Kewaunee (1)	Tuberculosis Virology (Tissue Culture) Mycology
N.D.	CDC design Chemical	Mycobacteriology Chemistry
Ohio	CDC-Type (Hamilton - 2) Kewaunee (5)	Proficiency Test Specimens, Mycology Virology (2) Research Lab (1), Animal Suite (1)
Okla.	Fisher Chemical Hood Labconco Chemical Hood Labconco Glove Box Fisher Glove Box	Chemistry Chemistry TB TB
Ore.	CDC-Type Chemical (Aloe) Custom-made	Tuberculosis Metabolic Disorders Virology
Pa.	*	*
R.I.	Hamilton	Tuberculosis
S.C.	Kewaunee Kewaunee Kewaunee (4) Westinghouse	Mycology only Animal Room only Mycobacteriology only Virology only
S.D.	Hamilton (4) Safety Hood	Chemistry Tuberculosis
Tenn.	Kewaunee Fabricated hood (Incinerator type) Fabricated hood (Incinerator type)	Virus isolation specimens TB culture work Mycology

TABLE 9-2. USE OF SAFETY HOODS  
(Continued)

	Safety Hoods Currently Being Used in Laboratory	Specific Uses
Tex.	Blickman Safety Hood (3) Blickman Safety Hood (1) Blickman Safety Hood (9)  Labconco Fiberglass Hood (1)  Chemical Hoods (Custom-made and included in Bldg. contract - 6)	Tuberculosis Parasitology, Toxoplasmosis Virology - (Egg Inoculation, Tissue Culture, Hepatitis, Rabies) Encephalitis - (Animal Inoculation), Radiological Chemistry Chemical procedures
Utah Vt.	CDC-Type Hamilton Kewaunee Kewaunee Custom-made	Mycobacteriology TB only Virus Isolation and Rabies only Viral Serology only Mycology only
Va. Wash.	Labconco (locally made) Homemade Biological Safety Cabinets (3) Vertical Laminar Airflow (1) Fume hoods (3)	TB, Mycology, Virology  TB, Mycology, Parasitology Virology (Tissue Culture) Water Chemistry, BioAssay, Radiology
W.Va. Wisc.	Own design and construction Built by University Shops Bio-Quest Biological Cabinet Biological Safety Hood (Built to CDC recommendation) Hamilton Lab Vented Hood  Built-in Vented Hoods 6' - 4' (2)  Built-in Vented Hoods 4' (4)  Labline Laminar Flow Labline Laminar Flow Built-in Vented	Tuberculosis TB TB Antigen Prep. (Zoonoses)  Prep. of Reagents - Extraction and distillation of organic solvents (Chemistry) Extraction and distillation of organic solvents Prep. of reagents (Industrial Hygiene) Distillation and extraction of samples (Water Chemistry) Mycology (Sample Preparation) Enteric Bacteriology (Specimen prep.) Cytology (used for organic solvents)
Wyo. Guam P.R. V.I.	CDC Biological Safety Cabinet Duralab Corp. (3 identical) * Labconco Bact. Hood Labconco Tissue Culture	Tuberculosis Tuberculosis, Bacteriology, Chemistry * Mycobacteriology General Bact.



TABLE 9-2. USE OF SAFETY HOODS  
(Continued)

Maintenance Program for Hoods  
and Provision of Maintenance Service

Ala.	Engineer provides service.
Alaska	Sporadic maintenance. Division of Buildings.
Ariz.	Microbiologists responsible for cleaning, fogging, etc. of hoods. Maintenance engineer responsible for operation of motors, compressors, etc.
Ark.	Checked by laboratory section chiefs.
Cal.	*
Colo.	Semi-annual change of filters; checking of air flow. Staff does work.
Conn.	Internal maintenance by Scientific Supportive Services - oiling motors, checking manometers; changing fuses, etc.
Del.	-
D.C.	Medical Equipment Repair Service of Administrative Services Div.
Fla.	Maintenance checks on filters and UV lights provided by laboratory personnel or building maintenance workers where available.
Ga.	Periodic checks on airflow by Air Quality Control Technician from the Dept. of Natural Resources. Periodic checks for drop in intensity of ultraviolet light emission by mechanic from supporting staff services.
Hawaii	Serviced and repaired locally as needed.
Ida.	Lab. personnel handle own maintenance. This consists primarily of changing filters in bact. when needed; some monitoring of air flow.
Ill.	UV monitoring, biological safety hoods. General maintenance (all labs.), laboratory staff.
Ind.	Air flow monitored by laboratory personnel. Repair or adjustments made by maintenance staff.
Ia.	Filter monitors; air flow monitors and alarms - TB.
Kans.	Responsibility of Section Chiefs.
Ky.	One full time maintenance man.
La.	Maintained by technologists. Serviceman when necessary.
Me.	Monitor air velocity and UV output of lamps; disinfect and replace lamps and filters. Service provided by the Director.
Md.	Maintenance and Engineering Services of Laboratories and Research Administration.
Mass.	Filter replacement after 1200-1500 hours of operation. Done by Laboratorians.
Mich.	Maintenance service provided by Service Division.
Minn.	Periodic inspection and maintenance is provided by the Laboratory Services Section.
Miss.	Building maintenance man.
Mo.	Microbiologists routinely check airflow and UV lamps output. If needed, maintenance man changes filters.
Mont.	Tuberculosis hood decontaminated, and filters changed by laboratory personnel when indicated by decrease in airflow.
Nebr.	In-house check.
Nev.	Continuous surveillance by users.
N.H.	-
N.J.	*
N.M.	*
N.Y.	*
N.C.	Routine checks for filter loading made by in-house preventive maintenance mechanic. Necessary changes and repairs made when needed.
N.D.	One staff member (technician) is responsible for the entire maintenance program.
Ohio	Staff maintenance crew.
Okla.	Minimal maintenance by technical personnel, filters and UV lights.
Ore.	Serviced by lab. staff members or call for local assistance from technical maintenance contractor.
Pa.	*
R.I.	As needed.
S.C.	All checked every three months by Scientific Services Section of the Lab. (UV radiation, airflow, etc.)
S.D.	All new - have 1 year service from manufacturer. TB hood serviced by lab. employees when necessary.
Tenn.	Annual inspection by local company.
Tex.	Filters changed annually by personnel from State Health Dept. Maintenance Dept.
Utah	First line maintenance: Mycobacteriologist. Inspection: Laboratory Improvement Personnel. Repairs, adjustments: Building Engineer.

TABLE 9-2. USE OF SAFETY HOODS  
(Continued)

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Maintenance Program for Hoods  
and Provision of Maintenance Service

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Vt.	Superintendent of the Health Dept. Bldg. - regularly. Manufacturer - when needed.
Va.	Periodic check of airflow by Bureau of Industrial Hygiene.
Wash.	Periodic maintenance on fans - changes in filters as needed when indicated by the drop in airflow by laboratory maintenance personnel. Ducts are cleaned twice a year by contracted commercial service.
W.Va.	Periodic check by Lab. personnel.
Wisc.	Maintenance contract with vendors. Maintenance personnel from Univ. Hospital staff and University staff.
Wyo.	-
Guam	Maintenance Dept. of Public Health and Social Services service the hoods if there is need for it.
P.R.	*
V.I.	Lab's technicians provide the services which consist of cleaning, disinfecting, and changing of filters.

TABLE 9-3. EQUIPMENT MAINTENANCE AND SERVICE PROGRAM

	Organized Preventive Maintenance Program in Effect		Equipment Maintenance Man on Staff		Other Sources of Maintenance
	Yes	No	Yes	No	
Ala.	X	-	X	-	-
Alaska	-	X	-	X	As needed.
Ariz.	X	-	X	-	-
Ark.	-	X	-	X	-
Cal.	*	*	*	*	*
Colo.	-	X	-	X	Local technicians.
Conn.	X	-	X	-	-
Del.	X (c)	-	-	X	On request from guardian's services.
D.C.	-	X	-	X	By ordering the needed service from Medical Equipment Repair Sect.
Fla.	X (d)	-	-	X	Lab personnel participates.
Ga.	X (e)	-	-	X	Department's supporting staff services' mechanic.
Hawaii	-	X	-	X	Maintenance checks made by Section Supervisors; service or repair calls made to appropriate companies. Smaller jobs are attended by Supervisor of Supply Section.
Ida.	X (f)	-	-	X	Have chemists that can handle minimal problems. Balance, out- side source.
Ill.	*	*	*	*	*
Ind.	X (e)	-	X	-	-
Ia.	X	-	-	X	Manufacturer's rep.
Kans.	-	X	X	-	-
Ky.	X	-	X	-	-
La.	*	*	*	*	*
Me.	-	X	-	X	Maintenance contracts with outside firms for microscopes, balances, autoclaves, still.
Md.	X	-	X	-	-
Mass.	-	X	X	-	-
Mich.	X	-	X	-	-
Minn.	X	-	-	X	Through Section of Laboratory Services who purchase maintenance.
Miss.	X	-	-	X	Service contract on most equipment. Honeywell has most of the equip.
Mo.	X	-	X	-	-
Mont.	-	X	-	X	"By guess and by gosh!" Janitorial services and utilities maintenance and engineering contracted by the State.
Nebr.	-	X	-	X	By users only.
Nev.	-	X	-	X	Contract.
N.H.	X	-	-	X	Each lab unit maintains records and quality control checks on equipment located in their respective laboratory.
N.J.	-	X	X	-	Own personnel, building engineers, service contractors and/or local tradesmen.
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	X	-	X	-	-
N.D.	X	-	X	-	-
Ohio	X	-	X	-	-
Okla.	X (g)	-	-	X	By lab. staff where feasible; otherwise, outside lab. equipment service used either by contract or job.

TABLE 9-3. 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>	
Ore.	X	-	-	X	By calling maintenance people (contract).
Pa.	*	*	*	*	*
R.I.	X (h)	-	-	X	Service contracts.
S.C.	X	-	X (e)	-	Requested as indicated by established schedule.
S.D.	X	-	-	X	From Bldgs. and Grounds or local hire.
Tenn.	-	X	-	X	*
Tex.	-	X	-	X	By maintenance personnel of the State Health Dept.
Utah	X	-	-	X	Contract with "Laboratory Instrument Service." Semi-annual with calls as needed.
Vt.	X	-	X (i)	-	-
Va.	-	X	-	X	Contract on major equipment.
Wash.	X	-	X	-	-
W.Va.	-	X	X	-	-
Wisc.	X	-	-	X	University shops.
Wyo.	-	X	-	X	"Catch as catch can!!"
Guam	-	X	-	X	Maintenance Dept. from the whole Division.
P.R.	-	X	-	X	*
V.I.	X	-	-	X	General maintenance crew of the Health Dept.

TABLE 9-4. NUMBER OF ANIMALS USED BY TYPE

	Guinea Pigs	Mice	Rabbits	Chicks	Chickens	Sheep	Other
Ala.	400	12,000	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	4,304 (j)	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	2,000	-	-	-	-	-
Conn.	-	1,422	5	-	-	-	-
Del.	-	350	-	-	-	-	-
D.C.	-	*	-	-	-	-	-
Fla.	6	1,026 (k)	-	432	70	-	-
Ga.	53	4,038 (l)	-	-	-	-	-
Hawaii	12	18	-	600	15	-	-
Ida.	-	300-400	-	-	-	-	-
Ill.	161	558	12	-	-	-	-
Ind.	-	500 (1)	-	-	-	-	-
Ia.	15	4,007	-	-	-	-	Geese, 5.
Kans.	-	944	-	-	-	-	-
Ky.	8	4,276 (1)	-	-	2	-	-
La.	138	4,482 (1)	-	-	-	-	Embryonated chicken eggs, 10.
Me.	-	200	-	-	-	-	-
Md.	500	16,300	-	-	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	12,034	109,302	838	-	-	20	Horses, 2; Hampsters, 330.
Minn.	40	6,500	30	-	-	-	-
Miss.	-	-	12	500	-	-	-
Mo.	2	7,918 (1)	-	-	*	-	-
Mont.	2	150	2	-	-	2	-
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	320	-	-	-	-	-
N.J.	223	33,800 (m)	20	52,000	4	-	Monkeys, 52; Hampsters, 71.
N.M.	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*
N.C.	75	40,500	40	3,120	780	52	Geese, 2.
N.D.	-	-	-	-	-	-	-
Ohio	12	10,000 (n)	2-3	-	-	-	-
Okla.	-	471	-	-	-	-	-
Ore.	-	200	-	-	-	-	-
Pa.	*	*	*	*	*	*	*
R.I.	-	300	-	625	-	-	Rats, 24.
S.C.	-	306 (o)	-	-	-	-	-
S.D.	* (p)	* (p)	* (p)	*	*	-	-
Tenn.	-	25,000	50	-	-	6	-
Tex.	320	5,000	129	576	-	35	Geese, 3.
Utah	20	400 (1)	6	-	-	-	-
Vt.	-	600	-	-	-	-	-
Va.	*	*	*	*	*	*	*
Wash.	60	1,114	-	-	-	-	-
W.Va.	20	4,555	-	624	24	-	Fertile eggs, 2,496.
Wisc.	1,053	34,047	33	-	266	-	Rats, 62; Monkeys, 28; Hamsters, 6.
Wyo	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
P.R.	-	700	-	-	-	6	-
V.I.	-	-	-	-	-	-	-

TABLE 9-5. NUMBER OF ANIMALS BRED BY TYPE

	Guinea Pigs	Mice	Rabbits	Chicks	Chickens	Sheep
Ala.	-	12,000	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	4,104	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	5,000	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	*	-	-	-	-
Fla.	-	1,026 (k)	-	-	-	-
Ga.	-	3,768	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	6,956	-	-	-	-
Kans.	-	300 (q)	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	4,482	-	-	-	-
Me.	-	-	-	-	-	-
Md.	1,200	20,000	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	12,034	99,884	-	-	-	85
Minn.	-	21,949	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	7,144	-	-	-	-
Mont.	-	200	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	472	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	20	10,800	20	300	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	471	-	-	-	-
Ore.	-	300	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	600	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	25,000	-	-	-	-
Tex.	-	750	-	-	-	-
Utah	6	100	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	*	*	*	*	*	*
Wash.	-	60	-	-	-	-
W.Va.	-	*	-	-	-	-
Wisc.	-	27,231	-	-	264	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	2,000	-	-	-	10
V.I.	-	-	-	-	-	-

TABLE 9-6. NUMBER OF ANIMALS PURCHASED BY TYPE

	Guinea Pigs	Mice	Rabbits	Chicks	Chickens	Sheep	Other
Ala.	400	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	200	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	-	1,673	14	-	-	-	-
Del.	-	350	-	-	-	-	-
D.C.	-	*	-	-	-	-	-
Fla.	6	-	-	432	70	-	-
Ga.	-	270	-	-	-	-	-
Hawaii	-	-	-	600	15	-	-
Ida.	-	300-400	-	-	-	-	-
Ill.	161	558	12	-	-	-	-
Ind.	-	500	-	-	-	-	-
Ia.	15	1,335	-	-	-	-	Geese, 3.
Kans.	-	24 (n)	-	-	-	-	-
Ky.	10	4,610	-	-	3	-	-
La.	-	50	-	-	-	-	-
Me.	-	200	-	-	-	-	-
Md.	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	-	9,418	838	-	-	-	Hampsters, 330.
Minn.	40	-	30	-	-	-	-
Miss.	-	-	12	-	-	-	-
Mo.	2	774	-	-	*	-	-
Mont.	2	-	2	-	-	2	-
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	223	33,800 (m)	20	1,000/wk	4	-	Monkeys, 1/week; Hampsters, 71.
N.M.	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*
N.C.	-	-	-	2,820	-	25	-
N.D.	-	-	-	-	-	-	-
Ohio	12	10,000	2-3	-	-	-	-
Okla.	-	-	-	-	-	-	-
Ore.	-	50	-	-	-	-	-
Pa.	*	*	*	*	*	*	*
R.I.	-	300	-	625	-	-	Rats, 24.
S.C.	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	50	-	-	-	-
Tex.	320	798	129	576	-	-	-
Utah	-	-	6	-	-	-	-
Vt.	-	600	-	-	-	-	-
Va.	*	*	*	*	*	*	*
Wash.	60	-	-	-	-	-	-
W.Va.	-	-	-	624	24	-	Fertile eggs, 2,496.
Wisc.	1,053	6,816	33	-	1	-	Rats, 62; Monkeys, 28; Hampsters, 6.
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-

TABLE 9-7. MAJOR USES OF ANIMALS BY TYPE

Guinea Pigs		Mice
Ala.	Tuberculosis.	Virology.
Alaska	-	-
Ariz.	-	Rabies.
Ark.	-	-
Cal.	*	*
Colo.	-	Viral isolation.
Conn.	-	Rabies.
Del.	-	Rabies inoculation.
D.C.	-	All viruses.
Fla.	Virology (influenza).	Mice 2 days old, Virology. Mice 19-21 days old. Virology, fish toxin studies, food poisoning.
Ga.	Virology.	Virology.
Hawaii	Red Blood Cells for HAd & HAI Toxicity Tests.	Bacterial, screening, toxicity tests, etc.
Ida.	-	Rabies inoculation test.
Ill.	Safety and potency of biologics.	Safety and potency of biologics. Diagnostic mycology and bacteriology.
Ind.	-	Rabies tests.
Ia.	Toxicogenicity studies.	Rabies, virus lab., toxigenicity.
Kans.	-	Virus isolation.
Ky.	Microbiology.	Rabies.
La.	Plague.	Rabies.
Me.	-	Rabies control.
Md.	Virology and Tuberculosis.	Virology.
Mass.	-	-
Mich.	Diagnostic and product testing.	Diagnostic and product testing.
Minn.	Tuberculosis.	Rabies, RBC, Toxoplasmosis.
Miss.	-	-
Mo.	Complement Fixation.	Rabies, encephalomyelitis.
Mont.	For bleeding.	Virology unknowns from CDC. Toxicity tests. Inoculation of specimens for viral isolation.
Nebr.	-	-
Nev.	-	-
N.H.	-	Rabies.
N.J.	Hepatitis immune serum and hemadsorption.	Virus isolation.
N.M.	*	*
N.Y.	*	*
N.C.	RBC's for serological tests.	Antigen production, virus isolation.
N.D.	-	-
Ohio	TB, diphtheria, cells.	Calif. encephalitis research.
Okla.	-	Virology.
Ore.	-	Shellfish, Rabies.
Pa.	*	*
R.I.	-	Rabies.
S.C.	-	Virology, Mycology, Bacteriology, Research.
S.D.	Diphtheria.	Rabies.
Tenn.	-	Rabies, Mycology.
Tex.	Rickettsial isolation (source of red cells). Fungus identification.	Virus isolation. Clostridium identification.
Utah	Serum controls, Virology.	Virology.
Vt.	-	Rabies.
Va.	*	*
Wash.	TB; Mycology, Diphtheria.	Virology and shellfish toxicity.
W.Va.	-	Rabies.
Wisc.	Antiserum.	Virus isolation.
Wyo.	-	-
Guam	-	-
P.R.	-	Rabies inoculation.
V.I.	-	-



TABLE 9-7. MAJOR USES OF ANIMALS BY TYPE  
(Continued)

	Rabbits	Chicks
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	Production of antiserum.	-
Del.	-	-
D.C.	-	-
Fla.	-	Virology (Rubella).
Ga.	-	-
Hawaii	-	RBC's for HAI.
Ida.	-	-
Ill.	Antisera production.	-
Ind.	-	-
Ia.	-	-
Kans.	-	-
Ky.	-	-
La.	-	-
Me.	-	-
Md.	-	-
Mass.	-	-
Mich.	Product testing.	-
Minn.	Antisera.	-
Miss.	Biologics testing.	Rubella.
Mo.	-	-
Mont.	For bleeding.	-
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	Immune arbovirus serum.	Virus isolation.
N.M.	*	*
N.Y.	*	*
N.C.	Antiserum production.	RBC's for serological tests.
N.D.	-	-
Ohio	Miscellaneous.	-
Okla.	-	-
Ore.	-	-
Pa.	*	*
R.I.	-	Rubella HAI.
S.C.	-	-
S.D.	Blood.	-
Tenn.	Rabbit blood, bacterial antisera.	-
Tex.	Normal & rabies-infected rabbit brain suspension for rabies FA test. Red cells for media preparation.	Rubella and Encephalitis HI test.
Utah	Leptospira, media preparation.	-
Vt.	-	-
Va.	*	*
Wash.	-	-
W.Va.	-	*
Wisc.	Serum and antiserum.	-
Wyo.	-	-
Guam	-	-
P.R.	-	-
V.I.	-	-

TABLE 9-7. MAJOR USES OF ANIMALS BY TYPE  
(Continued)

Chickens		Sheep
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	-	-
Del.	-	-
D.C.	-	-
Fla.	Virology (Rubella).	-
Ga.	-	-
Hawaii	RBC's for HAI.	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	-	-
Ky.	Virology.	-
La.	-	-
Me.	-	-
Md.	-	-
Mass.	-	-
Mich.	-	Blood.
Minn.	-	-
Miss.	-	-
Mo.	Rubella.	-
Mont.	-	For bleeding.
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	Rooster blood cells for HI and HAI test.	-
N.M.	*	*
N.Y.	*	*
N.C.	RBC's for serological tests.	Blood for culture media.
N.D.	-	-
Ohio	-	-
Okla.	-	-
Ore.	-	-
Pa.	*	*
R.I.	-	-
S.C.	-	-
S.D.	-	-
Tenn.	-	Sheep blood.
Tex.	-	Source of sheep red cells.
Utah	-	-
Vt.	-	-
Va.	*	*
Wash.	-	-
W.Va.	*	-
Wisc.	Hemagglutination.	-
Wyo.	-	-
Guam	-	-
P.R.	-	Bleeding.
V.I.	-	-

TABLE 9-7. MAJOR USES OF ANIMALS BY TYPE  
(Continued)

	Other
Ala.	-
Alaska	-
Ariz.	-
Ark.	-
Cal.	*
Colo.	-
Conn.	-
Del.	-
D.C.	-
Fla.	-
Ga.	-
Hawaii	-
Ida.	-
Ill.	-
Ind.	-
Ia.	Geese - viral serology.
Kans.	-
Ky.	-
La.	-
Me.	-
Md.	-
Mass.	-
Mich.	Horses - serum. Hampsters - vaccine production.
Minn.	-
Miss.	-
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	Hampsters - Hepatitis immune serum study. Monkeys - kidney tissue culture and serum neutralization.
N.M.	*
N.Y.	*
N.C.	Geese - RBC's for serological tests.
N.D.	-
Ohio	-
Okla.	-
Ore.	-
Pa.	*
R.I.	Rats - research.
S.C.	-
S.D.	-
Tenn.	-
Tex.	Geese - Encephalitis HI test.
Utah	-
Vt.	-
Va.	*
Wash.	-
W.Va.	Fertile eggs - Virus isolation.
Wisc.	Rats - Hemagglutination. Hampsters - tissue culture. Monkeys - tissue culture.
Wyo.	-
Guam	-
P.R.	-
V.I.	-

SECTION IX. FOOTNOTES

- (a) Departmental.
- (b) Departmental Personnel Regulations (Workmen's Compensation).
- (c) Periodical for sterilizers. On request for hot air ovens, balances, stills, microscopes, and pH meters.
- (d) On AutoAnalyzers, autoclaves, and balances.
- (e) Limited.
- (f) Minimal program at present time. Stepping up program to comply with Medicare and laboratory improvement requirements.
- (g) On autoclaves and stills.
- (h) For autoclaves and most sophisticated electronic equipment.
- (i) Not for Lab. exclusively.
- (j) Discontinued breeding colony May, 1972.
- (k) 19-21 day old mice. Also 178 litters of mice were bred and used when less than 2 days old.
- (l) White mice.
- (m) 18,200 pregnant mice; 15,600 recently weaned.
- (n) Pregnant mice.
- (o) White albino.
- (p) Too few to itemize.
- (q) Represents litters.

SECTION X

BRANCH LABORATORY INFORMATION

TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY

State	Location of Branch Lab (a) and Number of Employees (in parenthesis)	Number of Specimens Received					Syphilis Serology
		Total for FY 72	Diagnostic Bacteriology	Mycol- ogy	Parasi- tology	Virol- ogy	
Ala.	Anniston (7)	57,776	2,314	-	1,233	122	32,504
	Birmingham (28)	243,521	43,862	-	568	858	145,848
	Decatur (7)	41,875	3,490	-	-	-	26,111
	Dothan (4)	10,924	987	-	9	163	-
	Huntsville (7)	33,745	2,348	-	996	163	20,699
	Mobile (*)	79,797	11,689	-	4,577	168	49,842
	Selma (6)	26,062	556	-	1,901	44	17,061
Tuscaloosa (5)	26,365	3,888	-	489	91	11,690	
Alaska	Juneau (7)	16,248	7,326	108	312	-	5,154
	Anchorage (11)	54,148	29,022	19	333	-	17,471
	Fairbanks (6)	34,274	12,606	81	200	-	6,712
Ariz.	Tucson (7)	62,240	15,711	672	143	551	22,214
	Flagstaff (2)	19,151	2,031	-	-	59 (d)	9,614
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	Alamosa (2)	28,000	28,000 (e)	-	-	-	-
Conn.	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-
D.C.	- (b)	-	-	-	-	-	-
Fla.	Miami (33)	354,712	*	*	*	*	*
	Tampa (32)	294,307	*	*	*	*	*
	Orlando (11)	120,347	*	*	*	*	*
	West Palm Beach (8)	85,891	*	*	*	*	*
	Pensacola (10)	79,635	*	*	*	*	*
	Tallahassee (8)	75,083	*	*	*	*	*
Ga.	Albany (13)	84,759	15,884	-	13,617	435	54,647
	Macon (13)	87,998	12,456	-	10,693	279	64,394
	Waycross (10)	56,208	5,432	-	12,615	306	37,745
Hawaii	- (c)	-	-	-	-	-	-
Ida.	Coeur d'Alene (2)	6,523	1,094	11	9	-	1,089
	Idaho Falls (2)	8,553	2,184	65	14	-	3,027
	Lewiston (2)	10,138	2,442	42	24	-	4,027
	Pocatello (3)	12,309	3,138	8	99	-	2,913
	Twin Falls (3)	15,512	6,004	226	68	-	5,880
Ill.	Chicago (6)	2,692	-	-	-	-	-
	Springfield (37)	105,194	26,689	159	215	699	36,993
	Carbondale (9)	60,923	41,835	133	523	209	10,664
	Champaign (5)	15,398	4,120	12	30	280	4,219
	East St. Louis (6)	10,825	2,734	-	21	111	5,397
	Rock Island (5)	5,087	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	Des Moines (13)	6,862	-	-	-	-	-
	Sioux City (1 + 3 part-time)	286	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	Paducah (4)	39,178	8,564	-	-	-	21,550

TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY  
(Continued)

State	Location of Branch Lab	Number of Specimens Received				Sanitary Chemistry
		Non-Syphilis Serology	Hematology	Sanitary Bacteriology	Clinical Chemistry	
Ala.	Anniston	-	-	13,668	-	7,935
	Birmingham	-	11,834	24,346	2,755	13,450
	Decatur	-	-	12,274	-	-
	Dothan	-	-	5,842	-	3,923
	Huntsville	-	3	9,536	-	-
	Mobile	-	-	13,521	-	-
	Selma	-	-	6,500	-	-
Tuscaloosa	-	-	6,854	-	3,353	
Alaska	Juneau	742	-	2,000	-	606
	Anchorage	2,125	-	5,178	-	-
	Fairbanks	9,268	-	4,524	-	360
Ariz.	Tucson	-	581	19,510	-	2
	Flagstaff	-	94	7,238	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	Alamosa	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	Miami	*	*	*	*	*
	Tampa	*	*	*	*	*
	Orlando	*	*	*	*	*
	West Palm Beach	*	*	*	*	*
	Pensacola	*	*	*	*	*
	Tallahassee	*	*	*	*	*
Ga.	Albany	176	-	-	-	-
	Macon	176	-	-	-	-
	Waycross	110	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	Coeur d'Alene	-	272	3,847	-	20
	Idaho Falls	15	56	3,169	-	-
	Lewiston	-	616	2,658	-	-
	Pocatello	-	235	5,638	-	278
	Twin Falls	-	-	3,132	-	2
Ill.	Chicago	-	-	152	-	2,205
	Springfield	349	-	16,904	-	22,649
	Carbondale	739	-	3,540	-	3,280
	Champaign	110	-	3,824	-	2,803
	East St. Louis	22	-	1,266	-	1,274
	Rock Island	-	-	2,647	-	2,440
Ind.	-	-	-	-	-	-
Ia.	Des Moines	-	-	-	-	5,702
	Sioux City	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	Paducah	-	895	7,788	-	-

TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY  
(Continued)

State	Location of Branch Lab	Number of Specimens Received		
		Air Pollution	Pesticides	Other
Ala.	Anniston	-	-	-
	Birmingham	-	-	-
	Decatur	-	-	-
	Dothan	-	-	-
	Huntsville	-	-	-
	Mobile	-	-	-
	Tuscaloosa	-	-	-
Alaska	Juneau	-	-	-
	Anchorage	-	-	-
	Fairbanks	-	-	523 (PKU)
Ariz.	Tucson	-	-	1,142 (Urine) 1,714 (referred to Phoenix)
	Flagstaff	-	-	115 (referred to Phoenix)
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	Alamosa	-	-	-
Conn.	-	-	-	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	Miami	*	*	*
	Tampa	*	*	*
	Orlando	*	*	*
	West Palm Beach	*	*	*
	Pensacola	*	*	*
	Tallahassee	*	*	*
Ga.	Albany	-	-	-
	Macon	-	-	-
	Waycross	-	-	-
Hawaii	-	-	-	-
Ida.	Coeur d'Alene	-	-	181
	Idaho Falls	-	-	23
	Lewiston	91	-	238
	Pocatello	-	-	-
	Twin Falls	166	-	34
Ill.	Chicago	-	243	92
	Springfield	501	36	-
	Carbondale	-	-	-
	Champaign	-	-	-
	East St. Louis	-	-	-
	Rock Island	-	-	-
Ind.	-	-	-	-
Ia.	Des Moines	505	-	655 (327, Breath Alcohol; 328, Industrial Hygiene)
	Sioux City	-	-	286 (Breath Alcohol)
Kans.	-	-	-	-
Ky.	Paducah	-	-	381



TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY  
(Continued)

State	Location of Branch Lab (a) and Number of Employees (in parenthesis)	Number of Specimens Received					Syphilis Serology
		Total for FY 72	Diagnostic Bacteriology	Mycol- ogy	Parasi- tology	Virol- ogy	
La.	Shreveport (17)	65,451	18,226	117	892	830	23,810
	Monroe (9)	61,889	12,293	281	2,768	390	23,000
	Lafayette (11)	58,096	3,841	4,530	7,770	116	14,376
	Alexandria (12)	36,296	6,794	33	5,315	165	13,254
	Lake Charles (12)	48,852	21,474	18	6,323	148	6,621
	Amite (5)	16,602	-	-	-	-	-
	New Orleans (*)	10,393	-	-	-	-	-
Me.	-	-	-	-	-	-	-
Md.	Annapolis (6)	18,349	(f)	-	(f)	-	(f)
	Cambridge (5)	12,056	(f)	-	(f)	-	(f)
	Cheverly (9)	28,916	(f)	-	(f)	-	(f)
	Cumberland (7)	13,716	(f)	-	(f)	-	(f)
	Easton (5)	14,544	(f)	-	(f)	-	(f)
	Elkton (5)	10,109	(f)	-	(f)	-	(f)
	Frederick (6)	18,207	(f)	-	(f)	-	(f)
	Rockville (7)	38,078	(f)	-	(f)	-	(f)
	Salisbury (12)	20,356	(f)	-	(f)	-	(f)
Mass.	-	-	-	-	-	-	
Mich.	Houghton (6)	25,916	2,733	290	76	-	11,167
	Powers (9)	26,810	4,202	10	34	-	9,102
	Grand Rapids (41)	332,009	162,772	-	1,079	-	92,713
Minn.	-	-	-	-	-	-	
Miss.	*	*	*	*	*	*	
Mo.	-	-	-	-	-	-	
Mont.	-	-	-	-	-	-	
Nebr.	Scottsbluff (3½)	10,350	331	-	15	-	6,295
Nev.	Las Vegas (3)	18,986	6,966	-	1,068	-	-
N.H.	-	-	-	-	-	-	
N.J.	-	-	-	-	-	-	
N.M.	*	*	*	*	*	*	
N.Y.	*	*	*	*	*	*	
N.C.	-	-	-	-	-	-	
N.D.	Grand Forks (12)	137,816	64,770	3,871	538	4,385	37,170
Ohio	Northeast (6)	91,905	53,332	-	-	-	22,594
	Northwest (4)	36,371	11,373	-	202	-	12,691
	Southeast (4)	33,269	6,308	-	14	-	8,847
Okla.	Elk City (2)	12,025	303	-	-	-	705
	Lawton (2½)	21,645	1,456	-	-	-	7,590
	Hugo (2)	14,675	3,123	-	-	-	6,602
	Muskogee (3)	35,540	7,776	-	-	-	13,538
Ore.	-	-	-	-	-	-	
Pa.	*	*	*	*	*	*	

TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY  
(Continued)

State	Location of Branch Lab	Number of Specimens Received				
		Non-Syphilis Serology	Hematology	Sanitary Bacteriology	Clinical Chemistry	Sanitary Chemistry
La.	Shreveport	202	-	13,736	-	6,737
	Monroe	2,844	-	11,729	-	7,309
	Lafayette	39	-	15,172	16	12,236
	Alexandria	24	-	6,828	154	3,729
	Lake Charles	2	-	11,154	-	3,112
	Amite	-	-	16,602	-	-
	New Orleans	-	-	-	67	9,660
Me.	-	-	-	-	-	
Md.	Annapolis	-	(f)	(f)	(f)	(f)
	Cambridge	-	(f)	(f)	(f)	(f)
	Cheverly	-	(f)	(f)	(f)	(f)
	Cumberland	-	(f)	(f)	(f)	(f)
	Easton	-	(f)	(f)	(f)	(f)
	Elkton	-	(f)	(f)	(f)	(f)
	Frederick	-	(f)	(f)	(f)	(f)
	Rockville	-	(f)	(f)	(f)	(f)
	Salisbury	-	(f)	(f)	(f)	(f)
Mass.	-	-	-	-	-	
Mich.	Houghton	53	-	11,597	-	-
	Powers	144	1,014	11,085	1,040	179
	Grand Rapids	2,844	11,112	31,556	29,933	-
Minn.	-	-	-	-	-	
Miss.	*	*	*	*	*	
Mo.	-	-	-	-	-	
Mont.	-	-	-	-	-	
Nebr.	Scottsbluff	888	-	2,591	-	230
Nev.	Las Vegas	-	131	9,241	92	-
N.H.	-	-	-	-	-	
N.J.	-	-	-	-	-	
N.M.	*	*	*	*	*	
N.Y.	*	*	*	*	*	
N.C.	-	-	-	-	-	
N.D.	Grand Forks	2,454	-	11,546	-	1,009
Ohio	Northeast	506	-	15,473	-	-
	Northwest	738	-	11,277	-	90
	Southeast	95	-	17,939	-	66
Okla.	Elk City	-	-	7,208	-	3,809
	Lawton	29	-	8,599	2	3,969
	Hugo	981	-	3,341	-	628
	Muskogee	106	200	11,699	450	1,771
Ore.	-	-	-	-	-	
Pa.	*	*	*	*	*	

TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY  
(Continued)

State	Location of Branch Lab	Number of Specimens Received		
		Air Pollution	Pesticides	Other
La.	Shreveport	-	-	901 (Urines)
	Monroe	-	-	1,275 (Urines)
	Lafayette	-	-	-
	Alexandria	-	-	-
	Lake Charles	-	-	-
	Amite	-	-	-
	New Orleans	-	278	388
Me.	-	-	-	-
Md.	Annapolis	-	-	-
	Cambridge	-	-	-
	Cheverly	-	-	-
	Cumberland	-	-	-
	Easton	-	-	-
	Elkton	-	-	-
	Frederick	-	-	-
	Rockville	-	-	-
	Salisbury	-	-	-
Mass.	-	-	-	-
Mich.	Houghton	-	-	-
	Powers	-	-	-
	Grand Rapids	-	-	-
Minn.	-	-	-	-
Miss.	*	*	*	*
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	Scottsbluff	-	-	-
Nev.	Las Vegas	-	-	1,488 (Butterfat)
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	*	*	*	*
N.Y.	*	*	*	*
N.C.	-	-	-	-
N.D.	Grand Forks	-	-	12,073 (PKU)
Ohio	Northeast	-	-	-
	Northwest	-	-	-
	Southeast	-	-	-
Okla.	Elk City	-	-	-
	Lawton	-	-	-
	Hugo	-	-	-
	Muskogee	-	-	-
Ore.	-	-	-	-
Pa.	*	*	*	*

TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY  
(Continued)

State	Location of Branch Lab (a) and Number of Employees (in parenthesis)	Number of Specimens Received					Syphilis Serology
		Total for FY 72	Diagnostic Bacteriology	Mycol- ogy	Parasi- tology	Virol- ogy	
R.I.	-	-	-	-	-	-	-
S.C.	State Park, Columbia (5)	*	*	144	572	-	-
	Sullivan's Island (7)	*	*	-	*	-	-
	Florence County H.D. (2)	*	*	-	1,131	-	-
	Spartanburg County (3)	*	158	-	101	-	33
	Greenville County (4)	*	7,312	-	-	-	15,873
	Anderson County (2)	*	2,233	-	-	-	7,010
	Charleston County (2)	*	*	-	464	-	1,599
	Sumter-Kershaw County (1)	*	2,252	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	Jackson (7)	64,848	6,199	-	499	-	51,063
	Chattanooga (14)	107,767	28,303	5,821	1,059	-	59,924
	Memphis (10)	181,729	15,352	4,981	208	-	143,509
	Johnson City (12)	80,012	25,418	-	537	-	41,729
	Knoxville (17)	121,394	17,779	9,194	1,870	-	73,583
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	*	*	*	*	*	*	*
Wash.	Wenatchee (16)	1,660	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-
Guam	Inarajan (1)	2,470	10	-	610	-	-
P.R.	-	-	-	-	-	-	-
V.I.	Frederiksted, St. Croix (2)	- (g)	-	-	-	-	-

TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY  
(Continued)

State	Location of Branch Lab	Number of Specimens Received				
		Non-Syphilis Serology	Hematology	Sanitary Bacteriology	Clinical Chemistry	Sanitary Chemistry
R.I.	-	-	-	-	-	-
S.C.	State Park, Columbia	-	*	-	*	-
	Sullivan's Island	-	-	-	-	-
	Florence County H.D.	-	-	8,731	-	-
	Spartanburg County	76	-	811	56	-
	Greenville County	-	-	-	-	-
	Anderson County	*	-	639	67	-
	Charleston County	*	-	-	-	-
	Sumter-Kershaw County	-	1,053	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	Jackson	74	*	*	*	-
	Chattanooga	21	*	*	*	-
	Memphis	111	*	*	*	-
	Johnson City	125	*	*	*	-
	Knoxville	39	*	*	*	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	*	*	*	*	*	*
Wash.	Wenatchee	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	Inarajan	-	1,170	-	-	-
P.R.	-	-	-	-	-	-
V.I.	Frederiksted, St. Croix	-	-	-	-	-

TABLE 10-1. NUMBER OF SPECIMENS RECEIVED IN BRANCH LABORATORIES BY CATEGORY  
(Continued)

State	Location of Branch Lab	Number of Specimens Received		
		Air Pollution	Pesticides	Other
R.I.	-	-	-	-
S.C.	State Park, Columbia	-	-	1,963
	Sullivans Island	-	1,155	-
	Florence County H.D.	-	-	621
	Spartanburg County	-	-	2,951
	Greenville County	-	-	3,564
	Anderson County	-	-	1,675
	Charleston County	-	-	1,820
	Sumter-Kershaw County	-	-	2,007
S.D.	-	-	-	-
Tenn.	Jackson	-	-	*
	Chattanooga	-	-	*
	Memphis	-	-	*
	Johnson City	-	-	*
	Knoxville	-	-	*
Tex.	-	-	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	*	*	*	*
Wash.	Wenatchee	-	1,660	-
W.Va.	-	-	-	-
Wisc.	-	-	-	-
Wyo.	-	-	-	-
Guam	Inarajan	-	-	680 (Urinalysis)
P.R.	-	-	-	-
V.I.	Frederiksted, St. Croix	-	-	-

SECTION X. FOOTNOTES

- (a) A Branch Laboratory is one under the direct jurisdiction of the State Public Health Laboratory Director and not administered wholly or in part by another jurisdiction.
- (b) The Bureau of Laboratories is a part of the Preventive Services Directorate. There are twelve small laboratories receiving minimal technical direction from the Laboratory Director but they are organizationally not in Preventive Services Directorate.
- (c) Three Branch Laboratories are under the jurisdiction of respective District Health Officers.
- (d) Rabies heads - opened and referred to Phoenix for testing.
- (e) Limited to Streptococcus culture and gonorrhea tests.
- (f) Laboratory handles this type specimen, but total specimens figure not broken down by type.
- (g) Officially established July 1972 for performing tests for ova and parasites, Syphilis Serology, and GC smears.

SECTION XI

MISCELLANEOUS INFORMATION



TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)

	<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized:</u>	<u>Costs:</u>
Ala.	-	-	\$ -
Alaska	1. Two year contract with Greater Anchorage Area Borough Health Department to provide laboratory support for special Gonorrhoea Control project. Distribution of culture media (T-M) and examination of cultures.	1 microbiologist 1 laboratory assistant 1 part-time clerk-typist	35,000/yr.
	2. Tuberculosis Control Grant. Funds remain in TB control budget and provide for 1 microbiologist and 2 laboratory assistants plus supplies.	1 microbiologist 2 laboratory assistants	35,000
	3. Alaska Area Native Health Service contracts with Division of Public Health for tuberculosis control services. Annual allocation of \$13,000 for TB laboratory services.	*	13,000/yr.
Ariz.	-	-	-
Ark.	Laboratory Improvement Grant 314(e).	*	*
Cal.	*	*	*
Colo.	1. Traffic safety: alcohol testing, laboratory training, certification and evaluation.	1½	30,000
	2. LEAA: Narcotic detection in urine specimens for Methadone Maintenance Program.	4	35,000
	3. Colorado-Wyoming Regional Medical Program: External Quality Control Specimens for State of Wyoming.	1	6,000
Conn.	1. Omnibus Crime and Safe Streets Act Action Grant. To increase capabilities of State Toxicology Laboratory. State Matching Funds: Salaries, 56,544 Supplies and Auto Use, 3,500 Federal Funds: Equipment: 42,000	9 part-time chemists and toxicologists	102,044
	2. Omnibus Crime and Safe Streets Act Discretionary Grant. To increase capabilities of State Toxicology Laboratory. State Matching Funds: Salaries (7 part-time chemists and toxicologists), 20,000 Supplies, 5,800 Laboratory Space, 11,500 Federal Funds: Salaries (4 part-time chemists), 10,103 Equipment, 20,230	11 part-time chemists and toxicologists	67,633

TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized</u>	<u>Costs:</u>
3. Highway Safety Act. To improve efficiency of State Toxicology Laboratory in drug and alcohol testing. State Matching Funds: Salaries, Supplies and Equipment, 51,938 Federal Funds: Salaries, 30,431 Commodities, 7,900	*	90,269
4. Federal Solid Waste Management Grant. State Matching Funds: Salary - 1 chemist, 12,471 Federal Funds: Salary - 1 chemist, 12,071	2 chemists	24,542
5. Federal Air Pollution Control Grant. State Matching Funds: Salaries - 8 full-time and part-time chemists, 51,536 Federal Funds: Salaries, 38,560	8 chemists (full-time & part-time)	90,096
6. Department of Consumer Protection has agreed to pay the following fees for analyses of residues in meat and poultry: a. For chlorinated hydrocarbons \$18/sample b. For diethylstilbestrol \$18/sample c. Antibiotics, \$8/sample (Jan. 1972 - June 1972 - 45 samples for chlorinated hydrocarbons, 181 samples for antibiotics)	*	2,258
Del. Laboratory has contract for Viral and Rickettsial Serology with the New Jersey State Laboratory.	-	-
D.C. 1. Alcohol - Traffic Safety (DOT) - assists police, courts and Motor Vehicles Departments in traffic safety programs.	2	35,000
2. Heart Association - grant used to program laboratory data for study of stroke-prone population.	1	25,000
3. Model Cities Grant - for lead poisoning prevention, chemists determine lead level in blood and paint.	3	47,297
4. Meat Inspection Grant (Agriculture Department) - gives laboratory data on meat quality.	7	88,000
5. HEW - Rubella - monitors rubella titers in premarital bloods.	1	11,000

TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

	<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized</u>	<u>Costs:</u>
Fla.	1. Dade County Community Pesticide Program, USFDA - Analysis of Pesticide Residue in Human Tissues in Support of Community Pesticide Study.	5	N.A.
	2. National Pesticide Monitoring Program, USFDA - Pesticide Residue Analysis of Human Tissues Submitted from Designated State Programs.	3	*
	3. Agreement with Medical Examiners Office, City of Jacksonville, Fla. - Toxicological and Narcotics Analyses for local law enforcement and Medical Examiner.	1	*
	4. Contract with Methadone Clinic, Duval County Hospital - Examination of urine specimens from drug addicts attending Methadone Clinic.	1	*
	5. Contract with Hillsborough County Commission, Tampa, Fla. - Examination of Narcotics and drugs from law enforcement agencies in Region V Governor's Council on Criminal Justice.	2	*
	6. Agreement with Fla. Department of Pollution Control and with Dade County Air and Water Pollution Control Authority - Bacteriological examination of water samples submitted for coliform and fecal coliform tests.	1	*
	7. Agreement with Fla. Department of Agriculture and Consumer Services - Tests for sanitary quality of dairy products submitted by inspectors.	-	*
	8. Agreement with Fla. Department of Agriculture Animal Disease Diagnostic Laboratory - Examination of animals for rabies and encephalitis viruses.	-	*
	9. Contract with Fla. Power and Light Corporation and with Fla. Power Corporation - Examination of environmental samples from vicinity of proposed nuclear powered generating plants for radionuclides.	-	*
	10. Bureau of Health Insurance of Social Security Administration - Inspection of independent and non-JCAH approved hospital laboratories under Medicare.	3	*

TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

	<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized</u>	<u>Costs:</u>
	11. Fla. Division of Retardation - Joint operation of State mental retardation hospital and public health laboratory.	*	*
	12. Fla. Division of Health Bureau of Tuberculosis Control - Joint operation of State TB hospital and public health laboratory.	*	*
	13. Agreement with USPHS - certification of water and milk testing Laboratories.	*	*
	14. Agreement with Fla. Department of Highway Safety and Motor Vehicles and Department of Education (based on statutory requirements). Training, permitting and proficiency testing of blood alcohol analysts, breath test technicians and inspection of breath testing machines as joint effort.	*	*
Ga.	-	-	-
Hawaii	-	-	-
Ida.	1. Agreement with State Attorney General's office to provide laboratory testing in relationship to identification of evidence submitted by State and local law enforcement agencies.	*	*
	2. Agreement also with Law Enforcement Planning Commission.	*	*
	3. Agreement with Traffic Safety Commission and State Department of Law Enforcement to provide a program for laboratory services in connection with enforcement of DWI laws.	*	*
	4. Agreement with State Fish and Game Department for performance of tests on certain environmental samples.	*	*
	5. Agreement with Community Pesticide Project whereby they performed pesticide examinations which generally would be done by personnel of Health Department laboratory.	*	*
	6. Working agreement with Department of Agriculture concerning maintenance and operation of the Health - Agriculture Laboratories Building.	*	*
Ill.	Public Health Service Grant to Support Diagnostic Services.	15	170,000
Ind.	-	-	-
Ia.	1. Breath Alcohol Program, Bureau of Public Safety. Detection of ETOH levels by analysis of breath specimens.	3	74,593

TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

	<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized</u>	<u>Costs:</u>
	2. Mail-order BOD, State Department of Health. Determination of Effectiveness of Sewage Plant Treatment Operations.	2	10,357
	3. Limnology, State Department of Health. Monitoring of Surface Waters.	2	68,290
	4. Pesticide, Conservation Commission. Determination of Environmental Pesticide Levels.	1	10,000
	5. Occupational Health, Bureau of Labor - Industrial Safety Evaluation.	3	40,107
	6. Radiological Health, USPHS, through State Department of Health. Environmental Surveillance and Evaluation of X-ray Facilities.	3	27,500
	7. Medicare - SSA through State Department of Health - Laboratory Certification.	2	30,000
	8. Training Program. Iowa Regional Medical Program. Clinical Laboratory Improvement. (6 months)	4	29,630
	9. Oral Biological Research, W.S. Merrell Co., Study of Bactericidal Properties of Cepacol.	1	11,000
	10. Air Pollution, State Department of Health. Air quality surveillance.	5	95,259
	11. Drug abuse, Iowa Drug Abuse Authority, Drug abuse detection and drug identification. (3 months)	1	12,267
	12. Mosquito collection, USPHS. Arboviruses surveillance. (1 month)	3	825
	13. Rubella Testing Program, USPHS through State Department of Health. Detection of Rubella in susceptible women.	3	34,403
Kans.	1. 314(d) funds.	*	113,250
	2. Laboratory segment of Gonorrhea Control Grant to Division of Disease Prevention and Control.	*	2,754
	3. Laboratory segment of grant to Division of Environmental Health from Occupational Safety and Health Administration, U. S. Department of Labor.	*	15,852
Ky.	-	-	-
La.	-	-	-

TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

	<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized</u>	<u>Costs:</u>
Me.	1. Federal, EPA - Pesticide Contract; Pesticide residue analyses and Cholinesterase levels for laboratory work; education in application for commercial and agricultural users and physicians for symptoms and therapy.	Coordinator, Chemist, Clerk	\$25,000 annually over 5-yr. period
	2. State - Department of Transportation Highway Safety Program - blood - breath alcohol testing program.	2 chemists	20,000/yr.
	3. Right of Way - water testing.	*	Minimal fees
	4. Maine law enforcement agencies - analyzing drugs for identity and toxicology. Includes toxicology for Chief Medical Examiner.	4 chemists, 1 clerk	43,000/yr.
	5. Maine Horse Racing Commissions - toxicology for horse doping.	2 chemists part-time	15,000/yr.
Md.	-	-	-
Mass.	1. Health Services General Project Grant, Clinical Laboratory Improvement and Evaluation in the Commonwealth of Massachusetts. (3/1/71-5/31/72)	8	73,552
	2. Special Project in Maternal and Child Health - Mental Retardation Program for Detection of Inborn Errors of Metabolism.	15	159,320
Mich.	1. Kent County Agreement - Private.	3	31,855
	2. Pesticides Contract - EPA.	13	210,340
	3. Alcohol Test Program - Federal Highway Safety.	1	13,450
	4. Regional Crime Laboratory - Phase I - Federal.	8	89,473
	5. Regional Crime Laboratory - Phase II - Federal.	5	70,693
	6. Red Cross Agreement - Private.	2	26,331
	7. Anthrax - Botulinum Toxoid - Federal.	1	13,185
	8. Immunoglobulins Preparation - Private.	1	9,826
	9. Improved Rabies Vaccine - Federal.	2½	32,778
	10. Botulinum Toxin "A" - Federal.	-	5,545
	11. Stable Anthrax Vaccine - Federal.	1	2,477
	12. Cancer Contract - Federal.	4	42,478
	13. Federal Comprehensive.	15	208,600
	14. Medicare - Title XVIII.	2	28,200

TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

	<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized</u>	<u>Costs:</u>
Minn.	-	-	-
Miss.	1. Special Service Agreements - Stool examinations (parasites) for Head Start Programs. PH Laboratory is paid 3.00 per specimen.	*	3.00 per specimen
	2. Sputum Examination (TB) for State mental hospital. PH Laboratory is paid \$300.00 per month which is far less than actual cost.	*	300.00/mo.
Mo.	Service Agreements (Informal Only):	Environmental Bacteriology Staff in Central and District Labs	*
	1. Mo. Department of Agriculture - Milk Products, testing and training.		
	2. Mo. University Veterinary School - Enteric Bacteriology - Training a microbiologist to supplement a Federal Grant they have. Detection of relationship of antibiotic feeding in animals to the health of man.	Microbiology Staff in Central Lab	*
	3. University of Mo. - Virology - Early appearance of rabies virus in sites other than brain-furnished samples.	*	*
Mont.	Department of Transportation - Highway Alcohol Program. Quality Control on Alco-Analyzers, processing of SM-7 Sobermeters, testimony in court. (FY 1972 cost includes purchase of 15 complete Alco-Analyzer set-ups, Sobermeters, Varian 2800 Gas Chromatograph with accessories, etc.)	1 Chemist II, 1 Laboratory & Field Technician II	76,835
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	1. State of Delaware.	*	14,380
	2. Department of Environmental Protection (Inter-department debit - credit).	*	222,000
	3. Delaware River Basin Commission (Water Pollution Program).	*	17,708
	4. NIH - Hepatitis Contract.	*	195,068
	5. Pesticide Project.	*	179,414
N.M.	*	*	*
N.Y.	*	*	*
N.C.	-	-	-
N.D.	1. State Department of Accounts and Purchases.	1/10	500
	2. State Tuberculosis Sanitorium.	1/10	3,200
	3. Indian Health Service.	1/10	5,000

TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

	<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized</u>	<u>Costs:</u>
Ohio	1. Federal Grant - "Epidemiology of California Encephalitis in Ohio." Laboratory provides serologic testing and virus isolation.	1 virologist - 75% 1 veterinary virologist - 100% 1 principal virologist - 60% 2 animal aides - 100%	75,000/yr.
	2. Services to Department of Natural Resources (informal agreement). Provide analytical chemical and bacteriological exams for stream and lake pollution studies.	2-3 staff members utilized totally on different projects.	*
Okla.	Contract with EPA for pesticide residues in air samples. (Transferred to Environmental Health Services, OSDA September 1, 1971.)	*	*
Ore.	-	-	-
Pa.	*	*	*
R.I.	Contract - Participation in Wholesome Meat Act.	*	On cost per test basis
S.C.	1. OEO Headstart - Parasitology.	*	*
	2. Medical Technology Students - prescribed training in selected subjects.	*	*
	3. Licensure (Barbers, beauticians, etc., Syphilis Serology).	*	*
	4. Department of Social Services (adoptions, etc., Syphilis Serology).	*	*
	5. Vocational Rehabilitation (Syphilis Serology).	*	*
	6. Department of Corrections (Drug Program).	*	*
	7. Laboratory Support for Maternal and Child Health Bureau (Crippled Children and Rheumatic Fever).	*	*
	8. Technical Education Center (Training in certain areas for MLT).	*	*
S.D.	Indian Health Service	*	1,200
Tenn.	-	-	-
Tex.	Interagency contracts:		
	1. Texas Water Quality Board - Chemical analyses.	*	(Reimbursement at cost of test)
	2. Texas Water Development Board - Chemical analyses.	*	(Reimbursement at cost of test)
	3. Texas Highway Department - instrument use.	*	(Reimbursement at cost per hour)
	4. Texas Animal Health Commission - bacterial tests.	*	(Reimbursement at cost of test)



TABLE 11-1. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

	<u>Programs Served and Services Provided:</u>	<u>Estimated Staff Utilized</u>	<u>Costs:</u>
	5. High Plains Water Conservation District - Chemical analyses.	*	(Reimbursement at cost of test)
	6. Cooperative Meat Inspection Program.	*	(Reimbursement at cost of bacteriological and chemical test)
Utah	1. Pesticides, Effects on Man.	10% of personnel	Federal Contract
	2. Rubella, Special Studies.	*	5,000 Federal Grant
Vt.	-	-	-
Va.	-	-	-
Wash.	1. EPA - Pesticide.	*	268,000
	2. HEW - Rubella.	*	12,500
	3. HEW - GC.	*	2,200
W.Va.	Contract w/Department of Agriculture for food microbiology.	*	*
Wisc.	1. Operation of Cytogenetics Unit, Wisconsin Department of Health and Social Services, Division of Health (prime contractor with DHEW, Bethesda, Maryland). Cytogenetic studies and genetic counseling.	3 M.D.'s (part-time) 1 Ph.D. (full-time) 1 microbiologist 1 Med. Tech. (part-time)	29,500
	2. Implied Consent Chemical Testing, State of Wisconsin, Division of Highway Safety Coordination (prime contractor with U. S. Department of Transportation). Blood alcohol testing in all traffic fatalities.	1 chemist	15,120
	3. Short-term training grants for workshops in laboratory training, DHEW, Public Health Service, NIH, Bethesda, Maryland. Training for laboratory personnel from Wisconsin. Amount under costs represents partial salaries for course instructors, typists, supplies, etc.	*	6,665
	4. Multiphasic Screening Program, Wisconsin Department of Health and Social Services, Division of Health.	1 chemist, 1 laboratory tech.	*
Wyo.	Casper Rheumatic Fever Control Laboratory - Laboratory furnishes approximately 100,000 blood agar plates for School Throat Culture Program.	2	8,000/yr.
Guam	-	-	-
P.R.	1. Highway Safety Commission - Grant for Alcohol Determination in Blood.	4	*
	2. Gonococcus.	*	*
	3. Pharmacology Division - School of Medicine Grant for Antibiotic Testing.	1	2,500
V.I.	-	-	-

TABLE 11-2. LABORATORY NEWSLETTERS

	Laboratory Publishes A Newsletter	Title	Frequency of Publication
Ala.	-	-	-
Alaska	-	-	-
Ariz.	X	LAB BULL	Irregular (a)
Ark.	-	-	-
Cal.	*	*	*
Colo.	-	-	-
Conn.	X	Connecticut Clinical Laboratory Newsletter	Bimonthly
Del.	-	-	-
D.C.	-	-	-
Fla.	-	-	-
Ga.	-	-	-
Hawaii	-	-	-
Ida.	X	Idaho Incubator	Bimonthly
Ill.	-	-	-
Ind.	-	-	-
Ia.	X	Lab HOTLINE	Monthly
Kans.	-	-	-
Ky.	-	-	-
La.	-	-	-
Me.	X	Lab Gab	*
Md.	-	-	-
Mass.	X	Lab News	Quarterly (b)
Mich.	X	Michigan Lab Letter	4 times per year
Minn.	-	-	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	X	Laboratory Bulletin	12 issues per year
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	-	-	-
N.M.	*	*	*
N.Y.	X	Clinical Laboratory Newsletter	Irregular (c)
N.C.	-	-	-
N.D.	-	-	-
Ohio	- (d)	-	-
Okla.	-	-	-
Ore.	-	-	-
Pa.	*	*	*
R.I.	-	-	-
S.C.	X	Newsletter	Monthly
S.D.	-	-	-
Tenn.	-	-	-
Tex.	X	Laboratory Notes	(informal publication)
Utah	X	Laboratory News	Bimonthly
Vt.	X	Current Items	as needed
Va.	-	-	-
Wash.	-	-	-
W.Va.	-	-	-
Wisc.	X	Laboratory Newsletter	Monthly
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	X	LAB-INFO	Monthly

TABLE 11-2. LABORATORY NEWSLETTERS  
(Continued)

	Year Newsletter Started	Laboratory Newsletter Distributed to:
Ala.	-	-
Alaska	-	-
Ariz.	1967	All laboratories in State, hospital administrators, professional societies and associations, university personnel, public health personnel, and other people in health field upon request.
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	1971	All Connecticut laboratory directors and State laboratory directors. Also to other interested persons.
Del.	-	-
D.C.	-	-
Fla.	-	-
Ga.	-	-
Hawaii	-	-
Ida.	FY 1972	Clinical and hospital laboratories and all State laboratory directors.
Ill.	-	-
Ind.	-	-
Ia.	1965	Hospitals, laboratories, physicians, public health agencies, libraries, and appropriate laymen.
Kans.	-	-
Ky.	-	-
La.	-	-
Me.	1972	Laboratory personnel, pathologists, some physicians.
Md.	-	-
Mass.	1970	Laboratories on Laboratory Improvement list, all State Public Health Laboratory Directors and to other interested parties within and without the Massachusetts Department of Public Health.
Mich.	1971	Licensed laboratories - laboratories approved for serodiagnosis of syphilis - laboratories registered for handling and cultivation of pathogenic organisms.
Minn.	-	-
Miss.	-	-
Mo.	-	-
Mont.	1968	Registered laboratories in the State, State Laboratory Directors, and associated interests. Initial mailing - 450 copies.
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	-	-
N.M.	*	*
N.Y.	*	*
N.C.	-	-
N.D.	-	-
Ohio	-	-
Okla.	-	-
Ore.	-	-
Pa.	*	*
R.I.	-	-
S.C.	1969	County Health Departments, hospitals, technologists and laboratory personnel throughout the State, pathologists, physicians by specific request.
S.D.	-	-
Tenn.	-	-
Tex.	*	Regional laboratories (24) only.
Utah	1969	Utah Laboratory Directors, Hospital Administrators, Chief Technologists of large hospitals and any other interested persons requesting copies.
Vt.	1968	Physicians.
Va.	-	-
Wash.	-	-
W.Va.	-	-
Wis.	1961	Physicians, laboratories, health offices, hospitals, health departments.
Wyo.	-	-
Guam	-	-
P.R.	-	-
V.I.	FY 1972	Doctors, nurses, technicians.

TABLE 11-3. USE OF WORKLOAD WEIGHTING SYSTEMS (e)

Ala.	-
Alaska	A very gross weighting system is used based on specimen load. Weighting factor of 2 on all serology specimens. Weighting factor of 3 on all microbiology specimens.
Ariz.	Served on Task Force and field-tested ASTPHLD - CDC Relative Value System. (e)
Ark.	-
Cal.	*
Colo.	-
Conn.	Participated in field trials of ASTPHLD - CDC Relative Value System. (e)
Del.	-
D.C.	- (Discontinued this practice).
Fla.	Factors assigned to various exams and used on worksheets to report number of exams.
Ga.	Served on Task Force and field-tested ASTPHLD-CDC Relative Value System. (e)
Hawaii	-
Ida.	Served on Task Force and field-tested ASTPHLD-CDC Relative Value System. The Idaho Laboratory worked on such a system for approximately eight years and contributed some of this material to the Task Force effort. (e)
Ill.	In the Environmental Health Section, the Laboratory has made a time study of each individual test using all work elements performed by the technicians. Translating this information into man-years of technical labor, the Laboratory is able to justify manpower levels based on workload and to forecast technical labor needs for program changes or additions. Illinois participated in field trials of ASTPHLD-CDC Relative Value System. (e)
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	Served on Task Force and field-tested ASTPHLD-CDC Relative Value System. (e)
Md.	PPB budget with 27 projects with detailed cost accounting. After administration costs have been distributed, the total operational cost of each project is then further distributed to its tests and specimens by means of a set of relative values. These are determined on the basis of time, skill, frequency, and reagent/equipment cost.
Mass.	-
Mich.	-
Minn.	A relative value system based upon time studies of laboratory procedures and the salaries of personnel required to perform them is used.
Miss.	System used in some areas.
Mo.	Participated in field trials of ASTPHLD-CDC Relative Value System. (e)
Mont.	After a year's experience, an attempt is being made to estimate the cost of each analytical procedure performed in the Laboratory. An example: cost of an SM-7 Alco-Analyzer test for ethyl alcohol content of breath. <ol style="list-style-type: none"> <li>1. \$ 0.50 uniform specimen handling cost - includes postage, mailing containers, clerical service, overhead for office and amortization on office equipment.</li> <li>2. \$ 2.25 cost of SM-7 Sobermeter, without indicator tube (from Luckey).</li> <li>3. \$ 2.25 technical time including time for calculations and reporting. The "shop cost" for technical time in the laboratory is \$ 6.00 per hour. This includes overhead, amortization on instruments, all personnel benefits including annual leave and sick leave, and a charge for expendable items. \$ 5.00 - total cost of SM-7 Sobermeter procedure.</li> </ol>
Nebr.	-
Nev.	-
N.H.	-
N.J.	-
N.M.	*
N.Y.	*
N.C.	Participated in field trials of ASTPHLD-CDC Relative Value System. (e)
N.D.	Uses a system.
Ohio	-
Okla.	Participated in field trials of ASTPHLD-CDC Relative Value System. (e)
Ore.	Informal system. The number of tests performed per person as compared with laboratories from States of comparable size, etc.
Pa.	Participated in field trials of ASTPHLD-CDC Relative Value System. (e)

TABLE 11-3. USE OF WORKLOAD WEIGHTING SYSTEMS (e)  
(Continued)

R.I.	Participated in field trials of ASTPHLD-CDC Relative Value System. Rhode Island has been employing a system for many years which the laboratory considers only partially effective. Procedures are weighted by factors of 1, 2, 3, etc., depending upon general complexity. The system was established in the 1930's and has serious drawbacks because it failed to keep pace with changes in technology. For example: Toxicology and Urinalysis both had weightings of 8 (the latter because 8 determinations were made). When urinalyses were eliminated in FY 1971 to be replaced by more sophisticated but lower volume programs, serious budgetary problems arose because statistical data suggested a considerable drop-off in workload. (e)
S.C.	Served on Task Force and field-tested ASTPHLD-CDC Relative Value System. This system is being used in cost accounting for certain programs. (e)
S.D.	-
Tenn.	Participated in field trials of ASTPHLD-CDC Relative Value System. (e)
Tex.	-
Utah	The budget system requires the Laboratory to express workload as "units" of work. Each step in the examination of a specimen is taken as a unit. For example, in enteric bacteriology, primary isolation, screening, biochemical studies, and serotyping are each considered as units. Thus, a positive would involve four units, a negative two. The Laboratory does not consider this a very satisfactory method, especially in virology and toxicology.
Vt.	Participated in field trials of ASTPHLD-CDC Relative Value System. (e)
Va.	-
Wash.	Workloads are weighted in accordance with the instructions for "examination" accompanying the questionnaire for this report.
W.Va.	Participated in field trials of ASTPHLD-CDC Relative Value System. (e)
Wisc.	-
Wyo.	-
Guam	-
P.R.	-
V.I.	1. Total operating cost expenses; 2. Total working days; 3. Total examinations; 4. Total work unit per year; 5. Cost per unit test.

Operating Cost  
Total Work Unit

Each test is assigned a work unit, which was developed from the length of time in minutes it takes a technician to perform the examination.

TABLE 11-4. CIVIL DEFENSE ACTIVITIES

	Civil Defense Role Assigned		Role Assigned to Laboratory or its Personnel
	Yes	No	
Ala.	-	X	-
Alaska	-	X	-
Ariz.	-	X	-
Ark.	X	-	Laboratory services and blood bank services.
Cal.	*	*	*
Colo.	X	-	Laboratory aspects of medical services team; Sanitation.
Conn.	X	-	Health support in emergency Civil Defense Centers.
Del.	X	-	Designated shelter area - Civil Defense Headquarters.
D.C.	-	X	-
Fla.	X	-	Provision of infectious disease, radiological and sanitation (food and water) laboratory capabilities as needed during and after emergencies.
Ga.	-	X	-
Hawaii	X	-	Special Health Services coordinator resource personnel, etc.
Ida.	X	-	Laboratory has been included in past years. No special designation. Routine duties primarily.
Ill.	-	X	-
Ind.	X	-	Laboratory personnel have been assigned in areas which parallel their laboratory activities.
Ia.	-	X	-
Kans.	-	X	-
Ky.	-	X	-
La.	*	*	*
Me.	-	X	Informally, Laboratory might be called.
Md.	X	-	*
Mass.	X	-	The laboratory has been designated by the State Director of CD as part of the overall State program for rapid detection and identification of biological agents.
Mich.	X	-	Part of State plan, including provision of diagnostic services and coordinating of blood materials.
Minn.	X	-	To establish an operating medical laboratory during periods of emergency.
Miss.	X	-	Diagnostic and environmental services.
Mo.	-	X	-
Mont.	X	-	One person is assigned to participate in the annual CDC exercise.
Nebr.	-	X	-
Nev.	-	X	-
N.H.	-	X	-
N.J.	X	-	All emergency laboratory services related to civil disasters.
N.M.	*	*	*
N.Y.	*	*	*
N.C.	-	X	-
N.D.	-	X	-
Ohio	-	X	None in recent years. Previously to coordinate emergency laboratory services.
Okla.	X	-	Natural disaster relief - laboratory support as required.
Ore.	-	X	-
Pa.	*	*	*
R.I.	X	-	On paper only.
S.C.	-	X	-
S.D.	-	X	-
Tenn.	-	X	-
Tex.	X	-	Emergency service in water and food testing, diagnostic services.
Utah	-	X	Civil Defense is apparently inactive in Utah.
Vt.	-	X	-
Va.	*	*	*
Wash.	-	X	-
W.Va.	-	-	-
Wisc.	-	X	-
Wyo.	-	X	-
Guam	-	-	-
P.R.	-	X	-
V.I.	X	-	Report to P.H. Laboratories or Hospital Laboratory.

TABLE 11-4. CIVIL DEFENSE ACTIVITIES  
(Continued)

Resources Provided by Civil Defense		Training Undertaken to Fit Laboratory for Civil Defense Role
Ala.	-	Key personnel trained.
Alaska	-	-
Ariz.	-	-
Ark.	Little.	Minimum.
Cal.	*	*
Colo.	-	-
Conn.	-	Courses provided in fallout shelter management, medical self-help, and radiation monitoring.
Del.	-	First aid courses, disaster training.
D.C.	-	-
Fla.	-	Senior laboratory personnel have attended civil defense training courses sponsored by USPHS.
Ga.	-	-
Hawaii	Isopor Membrane filter kit for water bacteriology.	Civil Defense exercises, orientation courses, first aid, medical self help, shelter training, etc.
Ida.	-	-
Ill.	-	-
Ind.	-	No specific training.
Ia.	-	-
Kans.	-	-
Ky.	-	-
La.	*	*
Me.	A Fluorescent Antibody Microscope in 1962.	-
Md.	Shelter and emergency supplies.	2 employees received Civil Defense Training.
Mass.	An FA Microscope and emergency rations are lodged on the premises.	Training by CDC to laboratory personnel.
Mich.	-	-
Minn.	-	Routine activity has been modified for emergency services.
Miss.	-	Almost none.
Mo.	-	-
Mont.	-	-
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	Some scientific equipment.	No specific training. Skills already available.
N.M.	*	*
N.Y.	*	*
N.C.	-	-
N.D.	-	-
Ohio	Gas masks.	None recently.
Okla.	-	Periodic interagency planning conferences; workshops attended; Civil Defense for Food and Drug Officials, Biologic and Chemical Warfare. FA training.
Ore.	Fluorescent Antibody microscope on loan.	-
Pa.	*	*
R.I.	-	-
S.C.	-	-
S.D.	-	-
Tenn.	-	-
Tex.	-	-
Utah	-	None since 1960.
Vt.	-	-
Va.	*	*
Wash.	-	-
W.Va.	-	-
Wisc.	-	-
Wyo.	-	-
Guam	-	-
P.R.	-	-
V.I.	-	Discussions.

TABLE 11-5. REQUIREMENTS FOR REPORTING LABORATORY RESULTS INDICATING COMMUNICABLE DISEASE (f)

	Requirement for Lab Results Indicating Communicable Disease to be Reported to H.D.		Year Effective	Reporting Program Fully Implemented		If no, Current Status
	Yes	No		Yes	No	
Ala.	X	-	1932	X	-	-
Alaska	-	X (g)	-	-	-	-
Ariz.	X	-	1967	X	-	-
Ark.	-	X	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	X	-	1972	X	-	-
Conn.	X	-	Prior to 1950	X	-	-
Del.	-	X	-	-	-	-
D.C.	X	-	*	X	-	-
Fla.	-	X	-	-	-	-
Ga.	X	-	1972	-	X	New program.
Hawaii	X	-	1865, Rev. 1972	X	-	-
Ida.	X	-	*	X	-	(Physician required to report communicable disease).
Ill.	X	-	1963	-	X	Under review.
Ind.	X	-	1963	X	-	-
Ia.	X	-	1969	-	X	Not enforced. Any case of Venereal Disease inferred by a laboratory must be reported to the State Health Department; other communicable diseases are reported on a voluntary basis by the laboratory, but are mandatory for the physician.
Kans.	X	-	1968	X	-	-
Ky.	X	-	*	X	-	-
La.	X	-	*	X	-	-
Me.	X	-	1972	-	X	VD Section has this in process.
Md.	X	-	1970	X	-	-
Mass.	-	X	-	-	-	-
Mich.	X	-	*	X	-	-
Minn.	X	-	1953	-	X	Status good. Most positive serologies and cultures are referred to the Division of Medical Laboratories for confirmatory testing.
Miss.	X	-	*	X	-	(Compliance is not very good).
Mo.	X	-	1949	-	X	Irregular.
Mont.	X	-	1920	X	-	(Morbidity reporting still leaves much to be desired. Where there is an influenza epidemic and physicians realize the need, reporting improves. Also, there has been some improvement in reporting cases of gonorrhea.)
Nebr.	X	-	1967	X	-	-
Nev.	-	X	-	-	-	-
N.H.	X	-	*	X	-	-
N.J.	X	-	1917, Rev. 1966	X	-	-
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	X	-	1919, Amended 1957, 61	X	-	-
N.D.	-	X	-	-	-	-
Ohio	X	-	1964	X	-	-
Okla.	X	-	1963, 1968	-	X	Effective enforcement mechanism unavailable.
Ore.	X	-	1962	-	X	Nearly complete (90%).
Pa.	*	*	*	*	*	*
R.I.	X	-	1967	-	X	Partial program.
S.C.	X	-	*	X	-	-
S.D.	X	-	*	X	-	-
Tenn.	X	-	1967	-	X	*
Tex.	X	-	*	X	-	-



TABLE 11-5. REQUIREMENTS FOR REPORTING LABORATORY RESULTS INDICATING COMMUNICABLE DISEASE (f)  
(Continued)

	Requirement for Lab Results Indicating Communicable Disease to be Reported to H.D.		Year Effective	Reporting Program Fully Implemented		If no, Current Status
	Yes	No		Yes	No	
Utah	X	-	1950	-	X	Many of the laboratories consider reporting as a breach in confidentiality between the laboratory and the physician. Either intentionally or nonintentionally the law is misleading. It requires the laboratory to report "diseases," yet the laboratory should not make the diagnosis.
Vt.	X	-	1948	-	X	
Va.	*	*	*	*	*	*
Wash.	-	X	-	-	-	-
W. Va.	X	-	*	X	-	-
Wisc.	X	-	*	X	-	-
Wyo.	-	X	-	-	-	-
Guam	-	X	-	-	-	-
P.R.	X	-	1964	X	-	-
V.I.	X	-	1960	X	-	-

TABLE 11-6. LOCAL HEALTH DEPARTMENTS

	No. of Local Health Depts. in State	No. of Health Departments by Type:			
		City	County	City-County	Other
Ala.	67	-	67	-	-
Alaska	1	-	-	-	1 - Borough
Ariz.	14	-	14	-	-
Ark.	78	3	73	2	-
Cal.	*	*	*	*	*
Colo.	13	-	10	3	-
Conn.	167	165	-	-	2 - District
Del.	7	1	3	1	2 - Clinics
D.C.	- (h)	-	-	-	-
Fla.	67	-	67	-	-
Ga.	159	-	159	-	-
Hawaii	4	-	-	1	3 - District
Ida.	- (i)	-	-	-	-
Ill.	9	6	3	-	-
Ind.	101	10	87	3	1
Ia.	11	4	6	1	-
Kans.	62	-	54	6	2
Ky.	120	1	112	7	-
La.	*	*	*	*	*
Me.	5	5	-	-	-
Md.	24	1	23	-	-
Mass.	*	*	*	*	*
Mich.	49	3	30	-	16
Minn.	8	3	3	-	2
Miss.	81	-	81	-	-
Mo.	83	6	46	1	25 - Nursing Services; 5 - District
Mont.	56	-	53 (j)	3	-
Nebr.	6	2	1	3	-
Nev.	4	-	3	1	-
N.H.	7	7	-	-	-
N.J.	582	567	11	-	4 - Regional Labs.
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	101	1	100	-	-
N.D.	12	4	3	-	5 - Multi-County
Ohio	161	63	23	75	-
Okla.	59	-	57	2	-
Ore.	36	-	35	1	-
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	47	1	46	-	-
S.D.	4	1	2	1	-
Tenn.	95	-	91	4	-
Tex.	71	5	35	31	-
Utah	8	-	-	-	8 - Regional
Vt.	-	-	-	-	-
Va.	109	9	100	-	-
Wash.	31	-	13	3	15 - District
W.Va.	55	-	48	7	-
Wisc.	13	11	1	1	-
Wyo.	2	-	2	-	-
Guam	1	*	*	*	*
P.R.	66	66	-	-	-
V.I.	1	-	-	1	-

TABLE 11-6. LOCAL HEALTH DEPARTMENTS  
(Continued)

	No. of Local Health Depts. With Labs	No. of Local Health Departments with Laboratories by Type:			
		City	County	City-County	Other
Ala.	-	-	-	-	-
Alaska	-	-	-	-	-
Ariz.	2	-	2	-	-
Ark.	2	1	-	1	-
Cal.	*	*	*	*	*
Colo.	8	-	5	3	-
Conn.	13	11	-	-	2 - District
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	3	-	3	-	-
Ga.	5	-	5	-	-
Hawaii	4	-	-	1	3 - District
Ida.	-	-	-	-	-
Ill.	9	6	3	-	-
Ind.	8	6	-	2	-
Ia.	2	1	-	1	-
Kans.	2	-	-	2	-
Ky.	7	1	-	6	-
La.	*	*	*	*	*
Me.	1	1	-	-	-
Md.	10	1	9	-	-
Mass.	*	*	*	*	*
Mich.	8	3	5	-	-
Minn.	3	3	-	-	-
Miss.	-	-	-	-	-
Mo.	15	6	6	1	2 - District
Mont.	2	-	-	2	-
Nebr.	3	-	-	3	-
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	9 (k)	6	3	-	-
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	19	1	18	-	-
N.D.	5	1	-	-	4 - Multi-County - (3 with Water labs., 1 with Milk and Water lab.)
Ohio	14	12	-	2	-
Okla.	2	-	-	2	-
Ore.	2	-	1	1	-
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	8	-	8	-	-
S.D.	2	1	1	-	-
Tenn.	1	-	-	1	-
Tex.	24	4	2	18	-
Utah	3	-	-	-	3 - Regional
Vt.	-	-	-	-	-
Va.	12	9	3	-	-
Wash.	15	-	1	3	11 - District
W.Va.	5	-	2	3	-
Wisc.	13	11	1	1	-
Wyo.	-	-	-	-	-
Guam	*	*	*	*	*
P.R.	35	35	-	-	-
V.I.	*	-	-	*	-

TABLES 11-1 - 11-6. FOOTNOTES

- (a) Roughly on bimonthly basis - frequency varies according to need to distribute information.
- (b) Put out by the Laboratory Improvement Program.
- (c) Usually issued twice a year, or as necessary.
- (d) Anticipate starting January 1973.
- (e) A management tool to be used to quantitatively measure the diagnostic workload output in public health laboratories (PHL) has been developed by a joint effort of the ASTPHLD and CDC. This tool is a relative value structure for procedures normally found in the PHL. The following served on the Task Force that developed the structure: Dr. J. Counts, Arizona - Chairman; Dr. D. Brock, Idaho; Mr. E. Long, Georgia; Dr. A. DiSalvo, South Carolina; Dr. C. Okey, Maine; Mr. H. Lawton, CDC. This management tool has been tested in the following States: Arizona, Connecticut, Georgia, Idaho, Illinois, Maine, Missouri, North Carolina, Oklahoma, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, and West Virginia.
- (f) The diseases to which these regulations refer vary substantially from one State to another. Several States require reporting of Syphilis Serology only.
- (g) Regulations are being prepared that will require laboratory as well as physician reporting of communicable diseases. These regulations will be published in 1973.
- (h) D.C. Laboratory functions as Federal, State, and local laboratory.
- (i) Idaho has 7 district health departments covering all 44 counties - no local laboratories. All laboratory services supplied by State laboratories system consisting of Central Laboratory and 5 Regional Laboratories.
- (j) Every county must have a Health Department by law but mostly they consist of a very part-time health officer, perhaps a nurse, and sometimes a sanitarian.
- (k) Represents major laboratories only.

SECTION XII

DIAGNOSTIC WORKLOAD

TABLE 12-1. DIAGNOSTIC BACTERIOLOGY: THROAT CULTURES

	Specimens	Exams	Positives		
			<u>Corynebacterium diphtheriae</u>	Streptococcus, beta hemolytic, Group A	Staphylococcus
Ala.	45,451	55,480	38	9,194	575
Alaska	7,101	14,420	-	1,655	707
Ariz.	12,748	14,650	40	1,901	-
Ark.	6,198	14,704	-	1,189	38
Cal.	*	*	*	*	*
Colo.	260,121	298,320	7	35,143	38
Conn.	250,779	322,128	-	44,444	1,898
Del.	520	1,560	-	63	55
D.C.	2,534	*	-	149	-
Fla.	17,616	57,302	29	3,366	1,059
Ga.	10,477	12,206	39	2,389	-
Hawaii	30,872	37,292	3	3,025	684
Ida.	10,409	12,225	3	1,565	*
Ill.	48,638	52,552	1	6,628	510
Ind.	-	-	-	-	-
Ia.	25,262	74,557	-	3,598	911
Kans.	19,840	24,862	45	4,133	41
Ky.	7,366	14,511	-	3,049	1,295
La.	19,613	58,839	72	6,398	646
Me.	15,188	18,564	-	3,376	1,547
Md.	46,147	46,147	-	6,933	9,423
Mass.	168,075	*	-	30,852	-
Mich.	126,690	250,696	-	20,392	13,027
Minn.	1,077	1,077	5	7	-
Miss.	58,657	58,657	-	8,647	(a)
Mo.	34,579	74,727	-	6,332	-
Mont.	1,902	2,502	-	339	2
Nebr.	854	1,029	1	188	113
Nev.	263	1,060	-	9	6
N.H.	33,358	39,938	-	6,047	207
N.J.	78	195	-	15	10
N.M.	*	*	*	*	*
N.Y.	3,660	9,336	-	769 (b)	*
N.C.	32,472	43,463	-	4,992	1,887
N.D.	17,781	35,562	-	2,306	*
Ohio	117,840	143,642	-	19,429	1,252 (c)
Okla.	15,186	15,130	3	849	159
Ore.	54,374	68,130	7	10,436	9
Pa.	*	*	*	*	*
R.I.	34,482	51,723	-	6,903	260
S.C.	1,707	2,035	-	173	181
S.D.	5,391	11,263	-	1,405 (b)	-
Tenn.	100,591	100,591	-	18,777	-
Tex.	4,418	31,836	82	680	59
Utah	28,614	35,114	-	4,947	*
Vt.	23,912	23,912	-	3,770	1,777
Va.	60,691	63,170	-	4,459	208
Wash.	2,967 (d)	5,402	49	483	32
W.Va.	14,787	29,612	-	3,401	48
Wisc.	46,360	46,360	-	4,724	-
Wyo.	105,892	113,019	-	6,165	-
Guam	124	311	-	5	9
P.R.	34,418	35,199	-	195	320
V.I.	840	930	-	7	10

TABLE 12-2. DIAGNOSTIC BACTERIOLOGY: VINCENT'S ANGINA

	Specimens	Exams	Positives
Ala.	72	7,442	50
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	22	22	12
Conn.	287	656 (e)	170 (e)
Del.	8	8	2
D.C.	-	-	-
Fla.	104,781	104,781	435
Ga.	30	30	8
Hawaii	-	-	-
Ida.	-	-	-
Ill.	414	414	128
Ind.	-	-	-
Ia.	61	122	11
Kans.	5	5	3
Ky.	-	-	-
La.	54	54	*
Me.	106	106	*
Md.	50	50	12
Mass.	-	-	-
Mich.	158	158	108
Minn.	6	6	2
Miss.	24	24	12
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	-	-	-
N.H.	4	4	4
N.J.	1	1	-
N.M.	*	*	*
N.Y.	10	10	4
N.C.	4	4	-
N.D.	95	95	25
Ohio	17	17	-
Okla.	53	50	18
Ore.	4	4	1
Pa.	*	*	*
R.I.	52	52	30
S.C.	-	-	-
S.D.	(f)	6	2
Tenn.	10	10	3
Tex.	-	-	-
Utah	-	-	-
Vt.	<50	<50	<20
Va.	68	68	21
Wash.	-	-	-
W.Va.	4	4	4
Wisc.	73	73	21
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLE 12-3. DIAGNOSTIC BACTERIOLOGY: MYCOBACTERIUM

	Specimens	Exams	Positives	
			Mycobacterium tuberculosis	Mycobacterium, Atypical
Ala.	60,524	309,317	4,783	3,089
Alaska	17,523	31,452	249	-
Ariz.	17,399	32,626	956	536
Ark.	20,669	21,136	1,147	468 (g)
Cal.	*	*	*	*
Colo.	2,284	4,568	351	87
Conn.	7,883	18,064	344	161
Del.	3	3	-	-
D.C.	4,975	14,925	78	-
Fla.	59,588	178,764	1,556	2,900
Ga.	38,531	77,144	1,278	488
Hawaii	7,785	25,660	109	289
Ida.	2,084	9,983	131	-
Ill.	8,118	33,380	289	165
Ind.	5,456	35,710	465	378
Ia.	4,042	40,420	472	216
Kans.	7,474	14,589	299	705
Ky.	15,175	80,592	366	718
La.	46,935	140,805	1,870	3,733
Me.	3,845	7,673	303	83
Md.	22,583	43,685	1,447	603
Mass.	2,345	*	176	118
Mich.	15,356	62,212	1,839	599
Minn.	13,266	63,199	364	136
Miss.	24,965	49,930	756	346
Mo.	-	-	-	-
Mont.	2,445	10,422	138	34
Nebr.	1,290	2,162	82	44
Nev.	2,598	7,519	113	-
N.H.	7,479	11,210	413	4
N.J.	28,346	204,091	1,756	500
N.M.	*	*	*	*
N.Y.	7,100	*	430	150
N.C.	17,504	34,204	479	389
N.D.	5,234	15,702	99	25
Ohio	13,269	71,152	611	299
Okla.	9,743	7,011	603	345
Ore.	4,252	10,329	-	56
Pa.	*	*	*	*
R.I.	1,677	1,537	85	3
S.C.	16,505	74,688	4,395	-
S.D.	4,296	15,417	823 (h)	(h)
Tenn.	38,134	38,134	2,869	1,975
Tex.	16,321	96,596	789	1,155
Utah	2,577	12,365	85	27
Vt.	3,077	6,175	208	31
Va.	16,219	59,152	467	325
Wash.	5,964	35,145	242	179
W.Va.	14,237	28,426	352	311
Wisc.	8,731	75,331	569	403
Wyo.	287	574	8	-
Guam	2,934	8,802	120	2
P.R.	-	-	-	-
V.I.	696	743	8	6



TABLE 12-4. DIAGNOSTIC BACTERIOLOGY: ENTERIC CULTURES

Specimens	Exams	Positives				
		Salmonella	Shigella	Enteropathogenic <u>E. coli</u>	Other	
Ala.	7,280	26,001	530	156	139	38
Alaska	3,502	3,736	31	94	85	-
Ariz.	2,611	4,713	564	653	56	-
Ark.	4,290	22,918	487	94	3	145
Cal.	*	*	*	*	*	*
Colo.	1,799	3,586	266	244	38	17
Conn.	10,629 (i)	23,475	912	455	90	246
Del.	457	1,831	19	4	3	-
D.C.	1,813	*	335	37	6	-
Fla.	45,143	136,985	1,223	314	9 (j)	(j)
Ga.	26,121	51,829	819	426	4	1
Hawaii	6,209	18,398	985	147	72	28
Ida.	1,935	2,956	140	179	44	-
Ill.	3,082	13,728	188	136	26	-
Ind.	1,801	1,801	313	131	29	2
Ia.	3,145	37,740	373	368	16	159
Kans.	15,947	47,841	1,087	1,443	18	884
Ky.	1,183	4,040	41 (k)	(k)	-	7
La.	40,645	162,580	204	101	85	43
Me.	1,286	4,784	151	24	6	-
Md.	8,588	10,686	1,307	685	67	10 (l)
Mass.	13,126	*	2,208	319	284	-
Mich.	16,546	31,469	860	188	11	101
Minn.	2,698	10,793	563	285	21	395
Miss.	6,062	6,062	205	74	*	-
Mo.	1,909	50,327	231	125	13	139
Mont.	574	2,634	62	39	2	38
Nebr.	216	447	12	6	8	5
Nev.	923	9,464	28	142	1	4
N.H.	1,600	6,404	492	157	4	-
N.J.	7,311	31,437	950	136	25	4 (m)
N.M.	*	*	*	*	*	*
N.Y.	3,007	3,000	455	133	90	21
N.C.	5,062	12,414	822	343	39	4
N.D.	3,018	12,000	100	29	185	-
Ohio	2,055	15,170	156	8	7	10
Okla.	2,631	2,611	227	39	2	8
Ore.	3,180	5,703	305	288	24	93
Pa.	*	*	*	*	*	*
R.I.	2,154	10,770	253	32	7	-
S.C.	349	1,744	89	8	9	4 (n)
S.D.	1,218	6,533	39	55	-	26
Tenn.	8,203	8,203	447	106	9	2
Tex.	5,675	83,352	419	265	78	-
Utah	2,624	6,483	94	237	14	*
Vt.	822	1,644	60	17	6	-
Va.	14,582	36,550	1,055	213	-	7
Wash.	3,114	20,926	389	209	61	3
W.Va.	627	2,508	98	2	14	24
Wisc.	7,147 (o)	21,086	1,575	165	160	9
Wyo.	33	140	6	13	10	-
Guam	13	62	3	-	-	-
P.R.	818	2,454	39	4	13	2
V.I.	844	971	11	-	-	-

TABLE 12-5. DIAGNOSTIC BACTERIOLOGY: ENTERIC SEROGROUPING AND SEROTYPING

	<u>Enteric Serogrouping</u>		<u>Enteric Serotyping</u>	
	Specimens	Exams	Specimens	Exams
Ala.	-	-	621 (p)	3,726 (p)
Alaska	125	125	-	-
Ariz.	(p)	1,246	(p)	1,288
Ark.	584	1,168	584	1,168
Cal.	*	*	*	*
Colo.	410	410	410	410
Conn.	993 (q)	7,372	-	1,666
Del.	23	23	-	-
D.C.	221	*	221	*
Fla.	3,338	6,676	3,338	6,676
Ga.	2,279	2,279	2,279	2,279
Hawaii	1,204 (p)	1,204 (p)	(p)	(p)
Ida.	444	444	319	319
Ill.	4,160	16,640	4,296	17,184
Ind.	475	475	475	475
Ia.	1,008	1,008	389	778
Kans.	2,815	2,815	2,815	2,815
Ky.	248	248	248	248
La.	1,163	2,326	1,163	2,326
Me.	788	788	-	-
Md.	(p)	2,060	(p)	2,060
Mass.	2,811	*	1,431	*
Mich.	-	-	2,489	2,533
Minn.	1,398	1,398	873	873
Miss.	(p)	205	(p)	205
Mo.	389	600	263	4,918
Mont.	101	101	39	39
Nebr.	18	34	-	-
Nev.	-	572	-	24
N.H.	184	184	-	-
N.J.	2,131 (p)	2,322 (p)	1,256 (p)	1,256 (p)
N.M.	*	*	*	*
N.Y.	*	*	*	*
N.C.	1,462	1,462	1,214	1,214
N.D.	129	174	129	629
Ohio	1,429 (r)	1,429	1,191 (r)	1,191
Okla.	276	276	266	266
Ore.	674	674	329	329
Pa.	*	*	*	*
R.I.	292	3,836	-	-
S.C.	110	110	89	89
S.D.	-	-	-	-
Tenn.	1,438	1,438	1,438	1,438
Tex.	3,654	3,654	3,654	3,654
Utah	345	345	331	331
Vt.	82	82	82	82
Va.	-	-	-	-
Wash.	596	596	429	429
W. Va.	21	21	19	19
Wisc.	160	984	1,740	12,861
Wyo.	33	33	-	-
Guam	3	3	-	-
P.R.	-	-	58	371
V.I.	11	11	11	11

TABLE 12-6. DIAGNOSTIC BACTERIOLOGY: BACTERIOPHAGE TYPING

	Specimens	Examinations		
		Staphylococcus	Salmonella	Other
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	3,846	9,879	7	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	-	-	-	-
Ga.	12 (s)	-	12	-
Hawaii	1,251	1,270	10	-
Ida.	-	-	-	-
Ill.	1,294	1,248	46	-
Ind.	608	608	-	-
Ia.	318	1,272	-	-
Kans.	1,110	1,110	-	-
Ky.	938	1,057	-	-
La.	125	125	-	-
Me.	-	-	-	-
Md.	1,253	1,253	-	-
Mass.	-	-	-	-
Mich.	3,456	3,532	-	-
Minn.	(t)	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	(t)	-	-	-
Nebr.	-	-	-	-
Nev.	7	7	-	-
N.H.	-	-	-	-
N.J.	(t)	-	-	-
N.M.	*	*	*	*
N.Y.	995	995 (h)	(h)	(h)
N.C.	-	-	-	-
N.D.	-	-	-	-
Ohio	2,416	2,416	-	-
Okla.	-	-	-	-
Ore.	38	35	-	3
Pa.	*	*	*	*
R.I.	-	-	-	-
S.C.	-	-	-	-
S.D.	-	-	-	-
Tenn.	3,934	3,903	31	-
Tex.	3,768	3,713	55	-
Utah	-	-	-	-
Vt.	521	521	-	-
Va.	215	214	-	-
Wash.	-	-	-	-
W. Va.	-	-	-	-
Wisc.	-	-	-	-
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 12-7. DIAGNOSTIC BACTERIOLOGY: BLOOD CULTURES

	Specimens	Exams	Positives		
			Gram negative bacteria	Brucella	Other
Ala.	65	1,421	17	-	44
Alaska	10	30	-	-	-
Ariz.	43	43	-	-	-
Ark.	30	89	*	-	25
Cal.	*	*	*	*	*
Colo.	10	40	2	-	-
Conn.	27	27	2	-	6
Del.	20	20	-	-	-
D.C.	-	-	-	-	-
Fla.	12	14	-	-	1
Ga.	353	353	11	2	6
Hawaii	12	17	3	-	-
Ida.	1	1	1	-	-
Ill.	26	52	-	-	-
Ind.	-	-	-	-	-
Ia.	51	357	11	-	12
Kans.	43	43	11	-	23
Ky.	-	-	-	-	-
La.	5,674	5,674	-	3	1,018
Me.	4	4	4	-	-
Md.	678	678	*	*	*
Mass.	112	*	74	1	41
Mich.	276	403	1	-	46
Minn.	152	304	1	-	9
Miss.	290	290	-	-	2
Mo.	34	34	6	-	4
Mont.	21	21	1	-	12
Nebr.	-	-	-	-	-
Nev.	-	-	-	-	-
N.H.	26	44	-	-	-
N.J.	-	-	-	-	-
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	-	-	-	-	-
N.D.	346	1,730	-	-	-
Ohio	-	-	-	-	-
Okla.	-	-	-	-	-
Ore.	30	65	14	-	16
Pa.	*	*	*	*	*
R.I.	3	6	1	-	-
S.C.	9	27	5	-	-
S.D.	113	113	-	-	-
Tenn.	22	22	-	-	-
Tex.	13	132	-	-	-
Utah	18	57	-	-	3
Vt.	<10	<10	-	-	-
Va.	419	423	3	141	-
Wash.	12	(u)	*	*	*
W.Va.	24	72	6	-	10
Wisc.	99	891	8	-	10
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	28	54	2	-	2
V.I.	151	212	-	-	2

TABLE 12-8. DIAGNOSTIC BACTERIOLOGY: SPINAL FLUID CULTURES

	Specimens	Exams	Positives	
			Meningococcus	Other
Ala.	22	364	1	20
Alaska	5	20	-	-
Ariz.	2	2	-	-
Ark.	18	56	-	17
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	1	1	-	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	13	25	-	6
Ga.	24	24	-	1
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	(u)	-	-	-
Ind.	-	-	-	-
Ia.	10	60	6	2
Kans.	26	38	12	4
Ky.	-	-	-	-
La.	-	-	-	-
Me.	-	-	-	-
Md.	99	99	*	*
Mass.	29	*	14	15
Mich.	14	50	-	-
Minn.	31	68	-	2
Miss.	9	9	-	-
Mo.	-	-	-	-
Mont.	27	27	3	20
Nebr.	4	8	-	2
Nev.	-	-	-	-
N.H.	15	72	2	-
N.J.	2	5	-	1
N.M.	*	*	*	*
N.Y.	9	9	*	*
N.C.	-	-	-	-
N.D.	120	245	-	-
Ohio	-	-	-	-
Okla.	-	-	-	-
Ore.	55	106	18	19
Pa.	*	*	*	*
R.I.	-	-	-	-
S.C.	8	24	-	6
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	1	7	-	-
Utah	13	41	4	-
Vt.	<10	<10	-	-
Va.	40	163	-	-
Wash.	-	-	-	-
W.Va.	16	48	-	13
Wisc.	18	108	-	4
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	28	28	-	-

TABLE 12-9. DIAGNOSTIC BACTERIOLOGY: WOUNDS AND BODY FLUIDS

	Specimens	Exams	Positives		
			Staphylococcus	Anaerobes	Other
Ala.	123	1,703	4	70	121
Alaska	1,263	1,263	*	65	-
Ariz.	128	128	-	-	-
Ark.	14	43	-	-	-
Cal.	*	*	*	*	*
Colo.	57	57	7	6	14
Conn.	-	-	-	-	-
Del.	41	41	-	-	-
D.C.	(u)	-	-	-	-
Fla.	944	1,888	-	(v)	-
Ga.	177	177	97	16	40
Hawaii	3,474	9,239	639	7	2,188
Ida.	-	-	-	-	-
Ill.	(u)	-	-	-	-
Ind.	-	-	-	-	-
Ia.	835	8,350	*	*	*
Kans.	118	236	18 (w)	40 (w)	168 (w)
Ky.	-	-	-	-	-
La.	2,651	2,651	646	-	-
Me.	137	724	61	32	11
Md.	5,080	5,080	*	*	*
Mass.	285	*	84	-	-
Mich.	14,540	26,511	6,827	11	17,504
Minn.	33	127	3	-	25
Miss.	(u)	-	-	-	-
Mo.	(x)	-	-	-	-
Mont.	192	192	16	67	119
Nebr.	7	24	7	1	-
Nev.	16	64	10	-	-
N.H.	347	835	4	4	-
N.J.	24	62	12	-	4
N.M.	*	*	*	*	*
N.Y.	355	355	355 (h)	(h)	(h)
N.C.	-	-	-	-	-
N.D.	6,898	34,490	657	-	-
Ohio	-	-	-	-	-
Okla.	-	-	-	-	-
Ore.	152	308	2	51	99
Pa.	*	*	*	*	*
R.I.	85	170	68	6	11
S.C.	37	105	(f)	-	-
S.D.	-	-	-	-	-
Tenn.	-	-	-	-	-
Tex.	8	80	-	-	-
Utah	27	85	-	7	20
Vt.	<10	<10	-	-	-
Va.	554	3,500	-	-	-
Wash.	21	(u)	*	*	*
W.Va.	10	30	4	2	5
Wisc.	4,437	*	1,011	-	1,876
Wyo.	-	-	-	-	-
Guam	216	527	30	-	23
P.R.	101	202	30	-	67
V.I.	201	233	15	-	-

TABLE 12-10. DIAGNOSTIC BACTERIOLOGY: DENTAL CARIES CULTURES AND URINE CULTURES

	Dental Caries Cultures		Urine Cultures		
	Specimens	Exams	Specimens	Exams	Positives
Ala.	-	-	262	2,620	84
Alaska	-	-	1,525	1,525	456
Ariz.	-	-	81	81	-
Ark.	-	-	(p)	-	-
Cal.	*	*	*	*	*
Colo.	183	183	-	-	-
Conn.	-	-	(u)	-	-
Del.	-	-	66	250	-
D.C.	-	-	83	*	34
Fla.	1,348	1,348	2,280	2,280	-
Ga.	-	-	314	314	3
Hawaii	-	-	459	1,261	439
Ida.	-	-	-	-	-
Ill.	8	16	(u)	-	-
Ind.	-	-	-	-	-
Ia.	-	-	-	-	-
Kans.	-	-	352	352	352
Ky.	-	-	-	-	-
La.	24	24	-	-	-
Ma.	-	-	-	-	-
Md.	-	-	8,385	11,993	*
Mass.	-	-	(y)	-	-
Mich.	5,116	5,567	14,716	19,687	5,331
Minn.	-	-	-	-	-
Miss.	-	-	351	351	*
Mo.	-	-	(x)	-	-
Mont.	3	3	81	81	73
Nebr.	1,111	1,111	4	8	-
Nev.	-	-	21	84	9
N.H.	-	-	474	1,264	12
N.J.	-	-	95	409	5
N.M.	*	*	*	*	*
N.Y.	-	-	18	18	*
N.C.	-	-	-	-	-
N.D.	-	-	2,826	8,478	-
Ohio	-	-	-	-	-
Okla.	-	-	-	-	-
Ore.	-	-	55	128	8
Pa.	*	*	*	*	*
R.I.	-	-	7	12	-
S.C.	-	-	35	105	33
S.D.	-	-	-	-	-
Tenn.	135	135	-	-	-
Tex.	278	556	3	18	-
Utah	-	-	14	36	36
Vt.	-	-	<10	<10	-
Va.	101	101	87	575	-
Wash.	-	-	(p)	-	-
W.Va.	24	24	121	484	-
Wisc.	-	-	1,317	*	462
Wyo.	-	-	-	-	-
Guam	-	-	109	288	57
P.R.	-	-	1,633	3,266	1,184
V.I.	-	-	597	873	228

TABLE 12-11. DIAGNOSTIC BACTERIOLOGY: ANAEROBIC CULTURES

	Specimens	Exams	Positives
Ala.	462	4,707	136
Alaska	373	378	65
Ariz.	35	35	-
Ark.	78	234	73
Cal.	*	*	*
Colo.	-	-	-
Conn.	(u)	-	-
Del.	39	39	-
D.C.	-	-	-
Fla.	528	1,552	512
Ga.	530	530	16
Hawaii	78	155	73
Ida.	35	51	3
Ill.	(u)	-	-
Ind.	189 (z)	189	189 (aa)
Ia.	(bb)	-	-
Kans.	180	180	180
Ky.	155	590	125
La.	-	-	-
Me.	113	113	101
Md.	(y)	-	-
Mass.	-	-	-
Mich.	390	2,673	211
Minn.	319	1,063	164
Miss.	(u)	-	-
Mo.	-	-	-
Mont.	95	95	87
Nebr.	7	28	*
Nev.	50	100	3
N.H.	23	54	16
N.J.	109	273	93
N.M.	*	*	*
N.Y.	110	110	110
N.C.	-	-	-
N.D.	662	3,310	144
Ohio	184 (z)	2,760	171 (cc)
Okla.	-	-	31
Ore.	60	120	28
Pa.	*	*	*
R.I.	9	14	6
S.C.	-	-	-
S.D.	-	-	-
Tenn.	-	-	-
Tex.	21	52	-
Utah	31	121	-
Vt.	<20	<20	-
Va.	-	-	-
Wash.	(x)	(x)	82
W.Va.	9	27	9
Wisc.	2,000	*	*
Wyo.	-	-	-
Guam	-	-	-
P.R.	5	5	-
V.I.	201	233	5



TABLES 12-1 - 12-11. FOOTNOTES

- (a) All cultures for staphylococcus tabulated under Miscellaneous regardless of source.
- (b) Not restricted to beta hemolytic Group A.
- (c) Includes lesion cultures also, about 85%.
- (d) Includes specimens submitted for nasopharyngeal and nose cultures.
- (e) Includes yeast in smears for Vincent's angina, 287 exams, 15 positives. 82 positive findings for Vincent's angina found in genital smears.
- (f) Includes with Throat Cultures, Table 12-1.
- (g) Represents Mycobacterium, other.
- (h) Represents total. Not tabulated separately.
- (i) Includes 37 miscellaneous specimens for enteric pathogens.
- (j) "Other" included with "E. coli."
- (k) Shigella included with Salmonella.
- (l) Arizona, V. parahemolyticus.
- (m) Arizona.
- (n) S. typhi, 3; Edwardsiella, 1.
- (o) Includes referred enteric cultures, 117 specimens, 468 exams, 117 positives.
- (p) Included in Enteric Culture totals, Table 12-4.
- (q) Referred for serogrouping and serotyping.
- (r) Includes cultures sent for identification.
- (s) 406 referred.
- (t) Referred to CDC.
- (u) Included under Miscellaneous Bacteriology, Table 12-16.
- (v) Included under Anaerobic Cultures, Table 12-11.
- (w) Isolates.
- (x) Included with Referred Cultures, Table 12-14.
- (y) Included with Wounds and Body Fluids, Table 12-9.
- (z) Referred.
- (aa) Most numerous isolations: Bacteroides fragilis, 32; Clostridium perfringens, 61; Peptococcus prevotii, 11; Propionibacterium acnes, 34.
- (bb) Routine on all specimens except throat and enteric, not differentiated in statistics.
- (cc) Most numerous isolations were Bacteroides fragilis, 55; Clostridium perfringens, 64; Propionibacterium acnes, 14.

TABLE 12-12. DIAGNOSTIC BACTERIOLOGY: GENITAL SMEARS

	Specimens	Exams	Positives				
			Trichomonas	Gram negative Diplococcus	Yeast	Darkfield	Other
Ala.	26,052	26,024	1,703	2,058	2,424	-	-
Alaska	15	15	-	-	-	-	-
Ariz.	1,832	1,832	*	*	*	*	*
Ark.	827	827	-	163	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	22,404	67,440	2,229	1,870	2,356	5	-
Del.	7,351	14,702	5,513	-	-	-	-
D.C.	1,082	*	-	445	-	-	-
Fla.	105,384	105,384	10,970	15,945	6,780	112 (a)	-
Ga.	32,631	32,660	4,653	3,760	1,542	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	5,088	5,088	41	780	*	1	-
Ill.	23,798	23,798	1,544	2,969	1,577	6	-
Ind.	10,710	10,710	1,143	1,070	836	-	-
Ia.	3,288	6,576	6	483	-	-	-
Kans.	7,106	7,106	-	1,497	-	-	-
Ky.	7,337	7,248	-	921	-	-	-
La.	23,004	23,004	-	-	-	4	-
Me.	4,894	4,894	7	1,350	52	3	-
Md.	15,635	15,635	1,141	3,438	*	1	-
Mass.	7,963	*	-	939	-	-	-
Mich.	99,072	244,324	5,669	5,500	8,009	4	-
Minn.	24,923	27,158	876	934	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	5,280 *	*	-	9,855	-	-	-
Mont.	397	397	-	74	-	-	-
Nebr.	1,706	1,706	-	333	-	1	-
Nev.	16,826	27,600	-	1,832	-	7	-
N.H.	2,287	2,898	-	251	12	-	-
N.J.	3,120	3,120	-	1,220	-	-	-
N.M.	*	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*	*
N.C.	6,623 (b)	6,623	-	1,770	-	-	-
N.D.	1,405	1,405	-	1,389	-	16	-
Ohio	8,048	8,048	248	1,180	*	-	-
Okla.	3,407	3,386	147	1,680	-	3	-
Ore.	6,703	6,573	-	737	-	-	-
Pa.	*	*	*	*	*	*	*
R.I.	4,874	14,622	324	266	430	-	-
S.C.	9,135	9,135	*	4,504	*	*	-
S.D.	871	997	98 (c)	(c)	(c)	(c)	(c)
Tenn.	74	74	12	-	-	-	-
Tex.	1,015	1,015	-	79	-	-	-
Utah	2,121	2,121	*	111	*	-	-
Vt.	2,333	4,666	<10	316	-	1	-
Va.	3,382	3,382	-	376	-	2	-
Wash.	2,056	2,056	-	331	-	3	-
W.Va.	2,353	2,340	137	323	127	-	-
Wisc.	1,051	1,014	*	135	*	-	-
Wyo.	292	292	-	49	-	-	-
Guam	135	186	7	28	10	-	-
P.R.	2,382	2,382	-	434	-	-	-
V.I.	1,558	1,558	-	398	45	36	-

TABLE 12-13. DIAGNOSTIC BACTERIOLOGY: NEISSERIA GONORRHOEAE CULTURES

	Specimens	Exams	Positives
Ala.	47,408	75,563	5,775
Alaska	12,752	18,287	1,165
Ariz.	7,903	10,126	1,094
Ark.	3,916	4,448	532
Cal.	*	*	*
Colo.	19,382	19,382	381
Conn.	6,806	6,806	309
Del.	59	59	5
D.C.	2,517	*	302
Fla.	54,465	54,465	7,093
Ga.	29	29	2
Hawaii	14,345	15,623	1,407
Ida.	11,320	11,324	*
Ill.	10,578	11,275	697
Ind.	367	367	76
Ia.	2,479	4,958	98
Kans.	11,625	11,625	769
Ky.	9,484	10,622	200
La.	6,214	6,214	1,100
Me.	4,199	4,199	215
Md.	97,111	96,826	8,066
Mass.	9,410	*	677
Mich.	33,707	33,913	1,576
Minn.	11,963	17,178	1,044
Miss.	12,071	12,071	939
Mo.	10,368	19,083	228
Mont.	1,472	1,656	92
Nebr.	2,823	2,952	175
Nev.	4,803	9,606	258
N.H.	-	-	-
N.J.	76,074	114,111	5,447
N.M.	*	*	*
N.Y.	7,735	7,735	573
N.C.	(d)	(d)	78
N.D.	640	1,920	79
Ohio	13,766	14,372	202
Okla.	35,979	35,933	1,203
Ore.	829	897	101
Pa.	*	*	*
R.I.	5,165	5,697	120
S.C.	29,188	30,850	2,890
S.D.	1,904	3,001	103
Tenn.	1,046	1,046	187
Tex.	3,550	12,823	197
Utah	1,337	1,379	*
Vt.	5,891	5,891	109
Va.	17,855	38,520	-
Wash.	9,420	10,948	714
W.Va.	9,721	19,442	413
Wisc.	12,296	11,802	627
Wyo.	149	227	26
Guam	154	200	21
P.R.	1,518	1,518	258
V.I.	1,040	1,040	398

TABLE 12-14. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES

	Specimens	Exams	Organisms Isolated and Studied
Ala.	759	10,793	There were a total of 338 isolations from referred cultures and miscellaneous bacteriology. These isolations included: <u>M. tuberculosis</u> , 192; <u>M. scrofulaceum</u> , 29; <u>M. gordonae</u> , 11; and <u>M. intracellulare</u> , 31.
Alaska	320	420	*
Ariz.	-	-	-
Ark.	223	669	*
Cal.	*	*	*
Colo.	433	433	*
Conn.	915	959	The most numerous isolations among the total of 959 were: <u>Bacillus</u> sp., 32; <u>Bacteroides fragilis</u> , 25; <u>Citrobacter freundii</u> , 21; <u>Clostridium perfringens</u> , 26; <u>Corynebacterium</u> sp., 19; <u>Escherichia coli</u> , 21; Gram negative rod (unclassified), 14; <u>Herbicola-lathyri</u> , 17; <u>Herellea vaginicola</u> , 13; <u>Klebsiella pneumoniae</u> , 10; <u>Neisseria gonorrhoeae</u> , 15; <u>Pasteurella multocida</u> , 15; <u>Pseudomonas maltophilia</u> , 16; <u>Pseudomonas</u> sp., 46; <u>Serratia marcescens</u> , 10; <u>Streptococcus</u> (alpha hemolytic), 20; <u>Streptococcus</u> (beta hemolytic) group A, 89; <u>Streptococcus</u> (beta hemolytic) group B, 43; <u>Streptococcus</u> (beta hemolytic) group C, 29; <u>Streptococcus</u> (beta hemolytic) group G, 27; <u>Streptococcus</u> (beta hemolytic) non groupable, 44.
Del.	-	-	-
D.C.	-	-	-
Fla.	4,442	8,884	*
Ga.	4,283	4,283	Includes a wide variety of aerobic and anaerobic bacteria. <u>Aeromonas hydrophila</u> , <u>Aeromonas shigelloides</u> , <u>Bacteroides fragilis</u> ss <u>fragilis</u> , <u>Bacteroides fragilis</u> ss <u>thetaiotaomicron</u> , <u>Bacteroides corrodens</u> , <u>Bacteroides oralis</u> ss <u>oralis</u> , <u>Bacteroides</u> sp. CDC group F-1, <u>Bordetella bronchiseptica</u> , <u>Clostridium bifermentans</u> , <u>Clostridium innocuum</u> , <u>Clostridium paraputrificum</u> , <u>Clostridium perfringens</u> , <u>Clostridium septicum</u> , <u>Clostridium sporogenes</u> , <u>Clostridium sordellii</u> , <u>Clostridium tertium</u> , <u>Corynebacterium diphtheriae</u> - atoxigenic, <u>Corynebacterium haemolyticum</u> , CDC group Hb-1, CDC group Ve(2), <u>Edwardsiella tarda</u> , <u>Enterobacter agglomerans</u> , <u>Erysipelothrix insidiosa</u> , <u>Eubacterium filamentosum</u> , <u>Flavobacterium</u> sp., <u>Haemophilus aphrophilus</u> , <u>Haemophilus influenzae</u> - type b, <u>Haemophilus vaginalis</u> , <u>Herbicola-lathyri</u> group, <u>Herellea vaginicola</u> , <u>Listeria monocytogenes</u> , <u>Moraxella kingii</u> , <u>Moraxella osloensis</u> , <u>Moraxella phenylpyruvica</u> , <u>Neisseria flava</u> , <u>Neisseria lactamica</u> , <u>Neisseria meningitidis</u> - group B, <u>Neisseria meningitidis</u> - group C, <u>Neisseria perflava</u> , <u>Pasteurella multocida</u> , <u>Pasteurella ureae</u> , <u>Peptostreptococcus anaerobius</u> , <u>Peptococcus asaccharolyticus</u> , <u>Peptostreptococcus</u> CDC group 2, <u>Propionibacterium acnes</u> , <u>Pseudomonas aeruginosa</u> , <u>Pseudomonas maltophilia</u> , <u>Pseudomonas putida</u> , <u>Pseudomonas putrefaciens</u> , <u>Pseudomonas stutzeri</u> , <u>Vibrio alginolyticus</u> , <u>Vibrio extorquens</u> , <u>Vibrio parahaemolyticus</u> .
Hawaii	147	190	
Ida.	534	717	250
Ill.	1,131	5,142	Of the 997 organisms isolated, the most numerous were: <u>Bacillus</u> species, 29; <u>Corynebacterium</u> species, 15; <u>Flavobacterium</u> species, 12; <u>Haemophilus influenzae</u> , 21; <u>Herellea vaginicola</u> , 15; <u>Mima polymorpha</u> , 13; <u>Moraxella non liquifaciens</u> , 12; <u>Mycobacterium tuberculosis</u> , 151; <u>Mycobacterium atypical</u> , group I, 34; <u>Mycobacterium atypical</u> , group II, 85; <u>Mycobacterium atypical</u> , group III, 35; <u>Mycobacterium atypical</u> , group IV, 13; <u>Neisseria gonorrhoeae</u> , 37; <u>Neisseria meningitidis</u> , group C, 11; <u>Neisseria meningitidis</u> failed to group, 28; <u>Pasteurella multocida</u> , 19; <u>Pseudomonas aeruginosa</u> , 22; <u>Pseudomonas</u>

TABLE 12-14. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES  
(Continued)

Specimens	Exams	Organisms Isolated and Studied
Ind.	424 (e)	424 species, 30; <u>Staphylococcus epidermidis</u> , 29; <u>Streptococcus</u> , Lancefield group B, 30; <u>Escherichia coli</u> , 15; <u>Bacteroides fragilis</u> , 26; <u>Clostridium perfringens</u> , 21; <u>Propionibacterium acnes</u> , 20. The 424 isolations included: <u>Bacillus</u> sp., 21; <u>Corynebacterium</u> sp., 25; <u>Herellea vaginicola</u> , 17; <u>Mima polymorpha</u> , 14; <u>Moraxella non liquefaciens</u> , 12; <u>Neisseria gonorrhoeae</u> , 33; <u>Neisseria meningitidis</u> , 15; <u>Pasteurella multocida</u> , 11; <u>Pseudomonas aeruginosa</u> , 11; <u>Pseudomonas maltophilia</u> , 18; <u>Staphylococcus epidermidis</u> , 13; <u>Streptococcus</u> , alpha, 10; <u>Streptococcus</u> , beta - group B, 14.
Ia.	643	6,430
Kans.	860	860
		* There were 1,028 isolations, the most numerous of which were: <u>Alcaligenes</u> species, 12; <u>Bacteroides fragilis</u> , 17; <u>Clostridium perfringens</u> , 63; <u>Clostridium bifermentans</u> , 26; <u>Propionibacterium</u> , 11; <u>Coliform</u> species, 82; <u>Corynebacterium</u> species (diphtheroides), 55; <u>Enterobacter</u> species, 19; <u>Herellea</u> species, 16; <u>Klebsiella</u> species, 21; <u>Lactobacillus</u> species, 20; <u>Mimae</u> species, 29; <u>Neisseria gonorrhoeae</u> , 15; <u>Neisseria meningitidis</u> , 12; <u>Neisseria lactamica</u> , 26; <u>Proteus</u> species, 29; <u>Pseudomonas</u> species, 59; spore formers aerobic, 49; <u>Staphylococcus</u> species, 67; <u>Streptococcus</u> , alpha, 35; <u>Streptococcus</u> , beta, 121; <u>Streptococcus</u> , gamma, 12; <u>Yeast</u> species, 16; <u>Enterococcus</u> species, 37. Referred cultures for identification were from throat, nose, ear, eye, blood, feces, urine, sputum, spinal fluid, pleural fluid, abscess, boil, incision, lesion, wound, etc.
Ky.	81	81
La.	-	-
Me.	211	782
Md.	1,695	1,695
Mass.	728	*
Mich.	1,691	2,803
Minn.	991	3,126
Miss.	(d)	-
Mo.	806	24,813
		* Most numerous of the 622 isolations: <u>Bacillus</u> sp., 22; <u>Comamonas ferrigenia</u> , 16; <u>Corynebacterium</u> sp., 17; <u>Enterobacter cloacae</u> , 10; <u>Escherichia coli</u> , 18; <u>Haemophilus influenzae</u> B, 23; <u>Herellea vaginicola</u> , 29; <u>Mima polymorpha</u> , 14; <u>Pasteurella multocida</u> , 10; <u>Pseudomonas</u> sp., 18; <u>Pseudomonas aeruginosa</u> , 17; <u>Pseudomonas maltophilia</u> , 12; <u>Staphylococcus aureus</u> , 116; <u>Staphylococcus epidermidis</u> , 16; <u>Streptococcus</u> alpha, 16; <u>Bacteroides fragilis</u> , 13; <u>Clostridium perfringens</u> , 10.
Mont.	344	344
Nebr.	182	779
		* The total of 182 isolations included: <u>N. gonorrhoeae</u> , 56+ (referrals for FA); <u>Corynebacteria</u> , 33 (none were <u>C. diphtheriae</u> ); <u>Salmonella</u> sp., 19+ (for grouping and confirmation); <u>Shigella</u> , 5+ (for grouping and confirmation); Miscellaneous G+ organisms, 24; Miscellaneous G- organisms, 16; <u>E. coli</u> , 29 (confirmation and grouping).
Nev.	182	546
N.H.	16	32
N.J.	3,113	14,468
		* Organisms isolated: <u>Haemophilus influenzae</u> types a, b, e, f; <u>Haemophilus influenzae</u> non-typable; <u>Haemophilus parainfluenzae</u> ; <u>Haemophilus aphyrophilus</u> ; <u>Pseudomonas aeruginosa</u> ; <u>Pseudomonas putida</u> ; <u>Pseudomonas diminuta</u> ; <u>Pseudomonas cepacia</u> ; <u>Pseudomonas stutzeri</u> ; <u>Pseudomonas fluorescens</u> ; <u>Pseudomonas putrefaciens</u> ; <u>Pseudomonas vesiculare</u> ; <u>Neisseria meningitidis</u> , groups A, B, C and

TABLE 12-14. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES  
(Continued)

Specimens	Exams	Organisms Isolated and Studied
		<p><u>Slaterus y</u>; <u>Neisseria flavescens</u>; <u>Neisseria catarrhalis</u>; <u>Neisseria gonorrhoeae</u>; <u>Neisseria flava</u>; <u>Herellea vaginicola</u>; <u>Mima polymorpha</u>; <u>Moraxella osloensis</u>; <u>Moraxella non liquefaciens</u>; <u>Pasteurella multocida</u>; <u>Alcaligenes faecalis</u>; <u>Alcaligenes odorans</u>; <u>Alcaligenes denitrificans</u>; <u>Flavobacterium meningosepticum</u>; <u>Aeromonas hydrophila</u>; CDC group HB-1; <u>Corynebacterium sp.</u>; <u>Lactobacillus sp.</u>; CDC groups 11b, 11j, and 11k; <u>Bordetella bronchiseptica</u>; <u>Sarcina lutea</u>; <u>Staphylococcus epidermidis</u>; <u>Staphylococcus aureus</u>; <u>Micrococcus sp.</u>; <u>Bacillus sp.</u>; <u>Bacillus cereus</u>; Beta hemolytic Streptococci, groups B and G; <u>Enterococci</u>; <u>Herbicola-lathyri</u>; <u>Listeria monocytogenes</u>; <u>Streptococcus pneumoniae</u>; <u>Vibrio extorquens</u>; <u>Bacteroides fragilis</u>, <u>oralis</u>, <u>variabilis</u> and <u>incommunis</u>; <u>Clostridium perfringens</u>; <u>Clostridium sordelli</u>; <u>Propionibacterium acnes</u>; <u>Fusobacterium fusiforme</u>; <u>Bifidobacterium sp.</u>; <u>Catenabacterium filamentosum</u>; <u>Salmonella sp.</u>; <u>Shigella sp.</u>; <u>E. coli</u> (not EEC) and EEC; <u>Klebsiella pneumoniae</u>; <u>Klebsiella ozaenae</u>; <u>Enterobacter aerogenes</u>; <u>Enterobacter hafniae</u>; <u>Enterobacter cloacae</u>; <u>Enterobacter liquefaciens</u>; <u>Enterobacter agglomerans</u>; <u>Serratia marcescens</u>; <u>Edwardsiella tarda</u>; <u>Arizona hinshawii</u>; <u>Proteus vulgaris</u>; <u>Proteus mirabilis</u>; <u>Proteus morgani</u>; <u>Proteus rettgeri</u>; <u>Providencia alcalifaciens</u>; <u>Providencia stuartii</u>; <u>Citrobacter freundii</u>; <u>Citrobacter diversus</u>; <u>M. tuberculosis</u>; <u>M. kansasii</u>; <u>M. gordonae</u>; <u>M. flavescens</u>; <u>M. scrofulaceum</u>; <u>M. avium</u> - <u>M. intracellulare</u> complex; <u>M. triviale</u>; <u>M. fortuitum</u>.</p>
N.M.	*	*
N.Y.	903	903
N.C.	2,331 (f)	(d)
N.D.	-	-
Ohio	2,022 (e)	30,330
		<p>Among the most numerous of the 1,674 isolations were: <u>Bacillus sp.</u>, 18; <u>Citrobacter gp.</u>, 37; <u>Corynebacterium sp.</u>, 20; <u>Enterobacter gp.</u>, 53; <u>Escherichia coli gp.</u>, 188; <u>Escherichia coli</u> O111 B4, 15; <u>Klebsiella gp.</u>, 20; <u>Pasteurella multocida</u>, 23; <u>Proteus gp.</u>, 21; <u>Proteus mirabilis</u>, 16; <u>Providencia gp.</u>, 11; <u>Pseudomonas sp.</u>, 63; <u>Pseudomonas aeruginosa</u>, 24; <u>Salmonella anatum</u>, 12; <u>Salmonella blockley</u>, 30; <u>Salmonella bredeney</u>, 14; <u>Salmonella cholerae-suis</u>, 36; <u>Salmonella cubana</u>, 15; <u>Salmonella derby</u>, 31; <u>Salmonella enteritidis</u>, 87; <u>Salmonella heidelberg</u>, 66; <u>Salmonella indiana</u>, 21; <u>Salmonella infantis</u>, 67; <u>Salmonella manhattan</u>, 28; <u>Salmonella montevideo</u>, 22; <u>Salmonella newport</u>, 45; <u>Salmonella oranienberg</u>, 37; <u>Salmonella orion</u>, 13; <u>Salmonella paratyphi B</u>, 40; <u>Salmonella st. paul</u>, 39; <u>Salmonella thompson</u>, 11; <u>Salmonella typhimurium</u>, 137; <u>Shigella flexneri</u> 2b, 11; <u>Shigella sonnei</u> I, 32; <u>Shigella sonnei</u> II, 69.</p> <p>The 213 isolations included: <u>Corynebacterium acnes</u>, 13; <u>Escherichia coli</u>, 22.</p>
Okla.	246	211
Ore.	865	2,256
Pa.	*	*
R.I.	308	812
S.C.	671	2,009
S.D.	333	1,470
		<p>Significant organisms isolated: non-hemolytic group D <u>Streptococcus</u>; <u>S. faecalis</u>; <u>Bifidobacterium eriksonii</u>; <u>Mima polymorpha</u> (from leg ulcer); <u>S. enteritidis</u> ser. typhimurium (from spinal fluid); alpha <u>Streptococcus</u>; <u>Bacteroides fragilis</u>; <u>Staphylococcus salivarius</u>; <u>Nocardia asteroides</u>; <u>Epidermophyton species</u>; <u>Herellea vaginicola</u>; <u>Haemophilus aphrophilus</u>; <u>Corynebacterium</u>; <u>Moraxella osloensis</u>.</p>

TABLE 12-14. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES  
(Continued)

Specimens	Exams	Organisms Isolated and Studied
Tenn.	2,400	2,400
Tex.	939	40,006
Utah	496	2,473
Vt.	281	562
Va.	469	606
Wash.	607	18,789
W.Va.	120	120
		The following organisms were isolated from referred cultures and miscellaneous cultures: <u>Alcaligenes faecalis</u> , beta hemolytic Streptococcus group, <u>Bordetella pertussis</u> , <u>Brevibacterium acetylicum</u> , <u>Brucella canis</u> , Citrobacter group, Corynebacterium sp., <u>Escherichia coli</u> , Enterobacter group, Herellea sp., Klebsiella sp., <u>Listeria monocytogenes</u> , <u>Mima polymorpha</u> , <u>Moraxella</u> sp., <u>Mycobacterium flavescens</u> , <u>Neisseria meningitidis</u> , grp. C, <u>Pectobacterium</u> sp., <u>Peptostreptococcus</u> sp., <u>Salmonella enteritidis</u> , <u>Salmonella typhi</u> , Sarcina sp., Staphylococcus sp., <u>Streptococcus pneumoniae</u> .
Wisc.	1,599	43,440
		<u>Actinobacillus actinomycetem comitans</u> , <u>Aeromonas hydrophila</u> , <u>Alcaligenes denitrificans</u> , <u>Alcaligenes faecalis</u> , <u>Bacillus cereus</u> , <u>B. circulans</u> , <u>E. lentus</u> , <u>E. macerans</u> , <u>B. sp.</u> , <u>Citrobacter freundii</u> , <u>Clostridium baratii</u> , <u>C. bifermentans</u> , <u>C. butyricum</u> , <u>C. cadaveris</u> , <u>C. glycolicum</u> , <u>C. innocuum</u> , <u>C. limosum</u> , <u>C. paraputrificum</u> , <u>C. perenne</u> , <u>C. perfringens</u> , <u>C. ramosum</u> , <u>C. septicum</u> , <u>C. sordelli</u> , <u>C. sporogenes</u> , <u>C. subterminale</u> , <u>C. tertium</u> , <u>Edwardsiella tarda</u> , <u>Enterobacter aerogenes</u> , <u>E. agglomerans</u> , <u>E. cloacae</u> , <u>E. hafniae</u> , <u>E. liquefaciens</u> , Enterococcus, <u>Erwinia</u> sp., <u>Escherichia coli</u> , <u>Eubacterium lentum</u> , <u>E. moniliforme</u> , <u>E. rectale</u> , <u>E. sp.</u> , probable Flavobacterium sp., <u>Fusobacterium fusiforme</u> , <u>F. naviforme</u> , <u>F. necrophorum</u> , <u>F. symbiosum</u> , <u>Haemophilus aphrophilus</u> , <u>H. influenzae</u> , <u>H. parahemolyticus</u> , <u>H. parainfluenzae</u> , <u>H. vaginalis</u> , <u>Herellea vaginicola</u> , <u>Klebsiella pneumoniae</u> , <u>K. ozaenae</u> , <u>Lactobacillus catenaforme</u> , <u>L. disciforme</u> , <u>L. sp.</u> , <u>Levinea malonatica</u> , <u>Listeria monocytogenes</u> , <u>Mima polymorpha</u> , <u>Micrococcus luteus</u> , <u>Moraxella non liquefaciens</u> , <u>M. osloensis</u> , <u>M. phenylpyruvica</u> , <u>Neisseria catarrhalis</u> , <u>N. flava</u> , <u>N. flavescens</u> , <u>N. sicca</u> , Pasteurella sp. "gas," <u>P. pneumotropica</u> , <u>P. multocida</u> , <u>P. ureae</u> , <u>P. sp.</u> , <u>Pseudomonas acidovorans</u> , <u>P. aeruginosa</u> , <u>P. alcaligenes</u> , <u>P. cepacia</u> , <u>P. diminuta</u> , <u>P. fluorescens</u> , <u>P. maltophilia</u> , <u>P. medium-range</u> , <u>P. putida</u> , <u>P. putrefaciens</u> , <u>P. stutzeri</u> , <u>P. sp.</u> , <u>Peptococcus asaccharolyticus</u> , <u>P. prevotii</u> , <u>P. sp.</u> , <u>Peptostreptococcus anaerobius</u> , <u>P. intermedius</u> , <u>P. magnus</u> , <u>P. sp.</u> , <u>Propionibacterium acnes</u> , <u>P. granulosum</u> , <u>P. thoenii</u> , <u>Proteus mirabilis</u> , <u>P. morgani</u> , <u>P. vulgaris</u> , <u>Providencia strartii</u> , <u>Serratia marcescens</u> , <u>Staphylococcus aureus</u> , <u>S. epidermidis</u> , Streptococcus - alpha hemolytic, <u>S. bovis</u> , <u>S. cremoris</u> , <u>S. mitis</u> , <u>S. pneumoniae</u> , <u>S. salivarius</u> , <u>S. uberis</u> , <u>Veillonella alcalescens</u> , <u>V. parvula</u> , <u>Vibrio</u> - probable <u>extorquens</u> , Xanthomonas sp., <u>Neisseria gonorrhoeae</u> , <u>Neisseria meningitidis</u> , beta hemolytic Streptococci for Lancefield grouping, beta hemolytic Streptococci for M-typing.
Wyo.	-	-
Guam	2	2
P.R.	51	51
V.I.	-	-
		Salmonella, Staphylococcus, and Streptococcus.

TABLE 12-15. DIAGNOSTIC BACTERIOLOGY: ANTIBIOTIC SENSITIVITY

	Mycobacteria		Other	
	Specimens	Exams	Specimens	Exams
Ala.	1,021	15,870	7	7
Alaska	10,596	10,596	1,794	1,794
Ariz.	-	725	-	-
Ark.	621	621	-	-
Cal.	*	*	*	*
Colo.	-	-	85	85
Conn.	(g)	276	12	12
Del.	105	525	-	-
D.C.	-	-	208	*
Fla.	1,043	3,129	944	2,832
Ga.	916	916	-	-
Hawaii	-	-	141	141
Ida.	29	29	929	929
Ill.	386	772	-	-
Ind.	407	461	-	-
Ia.	340	1,360	2,231	2,231
Kans.	367	733	393	393
Ky.	264	264	-	-
La.	4,042	4,042	6,297 (h)	6,297
Me.	278	278	-	-
Md.	(i)	1,183	(i)	11,741
Mass.	-	-	-	-
Mich.	576	3,518	28,994	34,230
Minn.	280	840	-	-
Miss.	361	2,166	50	250
Mo.	-	-	-	-
Mont.	81	1,296	36	36
Nebr.	108	108	-	-
Nev.	-	-	216	648
N.H.	-	-	-	-
N.J.	2,483 (g)	7,449 (g)	-	-
N.M.	*	*	*	*
N.Y.	124 (c)	124 (c)	(c)	(c)
N.C.	475	1,425	-	-
N.D.	-	-	6,057	18,171
Ohio	227 (g)	2,724 (g)	533	533
Okla.	125	125	17	17
Ore.	179	921	-	-
Pa.	*	*	*	*
R.I.	88	728	-	-
S.C.	678	678	52	52
S.D.	(g)	64	121	121
Tenn.	3,549	3,549	-	-
Tex.	1,924	1,924	-	-
Utah	189	189	27	27
Vt.	98	98	-	-
Va.	-	-	-	-
Wash.	-	-	156	156
W.Va.	213	213	238	238
Wisc.	289	2,023	3,975	3,975
Wyo.	-	-	-	-
Guam	54	54	283	283
P.R.	-	-	2,164	25,968
V.I.	4	4	678	831



TABLE 12-16. DIAGNOSTIC BACTERIOLOGY: MISCELLANEOUS

	Specimens	Exams	Organisms Isolated and Studied
Ala.	24	52	(j)
Alaska	4,631	4,631	*
Ariz.	764	764	Bacteroides sp., beta Streptococci, Catenabacterium (Eubacterium), <u>Clostridium perfringens</u> , <u>C. bifermentans</u> , <u>Fusobacterium fusiforme</u> , <u>E. ridiculosum</u> , <u>Haemophilus influenzae</u> , <u>H. parainfluenzae</u> , <u>Herbicola-lathyri</u> , <u>Herellea vaginicola</u> , <u>Klebsiella ozaenae</u> , <u>K. pneumoniae</u> , <u>Mima polymorpha</u> , Peptococcus CDC Gr 1 and 2, <u>Propionibacterium acnes</u> , Pasteurella species, <u>Pseudomonas aeruginosa</u> , <u>Staphylococcus aureus</u> .
Ark.	145	438	*
Cal.	*	*	*
Colo.	-	-	-
Conn.	242	302	Most numerous of the 211 organisms isolated were: Staphylococcus sp. (coagulase negative), 20; Staphylococcus sp. (coagulase positive), 20.
Del.	238	1,190	*
D.C.	568	*	214
Fla.	1,624	2,808	*
Ga.	113	113	Includes a wide variety of aerobic and anaerobic bacteria.
Hawaii	617 (k)	617	48
Ida.	601	604	*
Ill.	1,392	9,981	The 716 isolations included: <u>Neisseria gonorrhoeae</u> , 185; <u>Pseudomonas aeruginosa</u> , 15; Pseudomonas species, 11; <u>Staphylococcus aureus</u> , 178; <u>Staphylococcus epidermidis</u> , 92; Streptococcus, alpha hemolytic, 18; Streptococcus, beta hemolytic, 64; <u>Streptococcus pneumoniae</u> , 12; <u>Klebsiella pneumoniae</u> , 13; <u>Escherichia coli</u> , 54.
Ind.	-	-	-
Ia.	174	1,740	*
Kans.	433	433	<u>Clostridium perfringens</u> , 21; Coliform species, 80; Corynebacterium species (diphtheroids), 40; Enterobacter species, 22; Klebsiella species, 33; Neisseria species, 26; Proteus species, 45; Pseudomonas species, 43; Staphylococcus species, 167; Streptococcus, alpha, 73; Streptococcus, beta, 29; Streptococcus, gamma, 15; Yeast species, 17; Enterococcus species, 29.
Ky.	572	2,228	*
La.	5,815	5,815	*
Me.	-	-	-
Md.	4,260	4,260	*
Mass.	814	*	814
Mich.	711	957	*
Minn.	96	98	*
Miss.	1,118	1,118	There were 871 isolations as follows: Streptococcus, 172; Staphylococcus, 609; Others, 90.
Mo.	(j)	-	-
Mont.	648	648	*
Nebr.	-	-	-
Nev.	178	712	*
N.H.	-	-	-
N.J.	305	930	<u>Clostridium perfringens</u> ; group D Streptococcus; <u>Staphylococcus aureus</u> ; <u>Enterobacter agglomerans</u> ; <u>Neisseria lactamica</u> ; <u>Aeromonas hydrophila</u> ; group G Streptococcus; <u>Haemophilus influenzae</u> type "b"; <u>Enterobacter cloacae</u> ; <u>Pseudomonas aeruginosa</u> ; <u>Pasteurella multocida</u> ; <u>Streptococcus pneumoniae</u> ; <u>Staphylococcus epidermidis</u> ; <u>Listeria monocytogenes</u> ; <u>Neisseria meningitidis</u> group A; group B Streptococcus; group C Streptococcus; <u>Propionibacterium acnes</u> ; <u>Neisseria sicca</u> ; <u>Neisseria gonorrhoeae</u> ; Aspergillus sp., Flavobacterium sp.
N.M.	*	*	*
N.Y.	318	318	-

TABLE 12-16. DIAGNOSTIC BACTERIOLOGY: MISCELLANEOUS  
(Continued)

Specimens	Exams	Organisms Isolated and Studied	
N.C.	2,068	8,691	The 1,780 organisms isolated from referred cultures and miscellaneous bacteriology included: <u>Bacteroides fragilis</u> , 24; <u>Clostridium perfringens</u> , 12; <u>Bacillus</u> species, 42; <u>Citrobacter</u> species, 46; Coliform group, 30; <u>Corynebacterium</u> species, 43; <u>Enterobacter agglomerans</u> ( <u>H.-lathryi</u> ), 24; <u>Enterobacter cloacae</u> , 23; <u>Enterobacter</u> species, 24; <u>Escherichia coli</u> (non pathogenic), 108; <u>Haemophilus influenzae</u> , 12; <u>Herellea</u> species, 51; <u>Klebsiella</u> group, 32; <u>Mima polymorpha</u> , 18; <u>Moraxella</u> species, 14; <u>Neisseria meningitidis</u> , 10; <u>Proteus morgani</u> , 10; <u>Proteus</u> species, 42; <u>Providencia alcalifaciens</u> , 11; <u>Pseudomonas aeruginosa</u> , 14; <u>Pseudomonas maltophilia</u> , 30; <u>Pseudomonas</u> species, 60; <u>Salmonella</u> (other than typhi), 15; <u>Serratia</u> species, 21; <u>Staphylococcus</u> (coagulase negative), 138; <u>Staphylococcus</u> (coagulase positive), 310; <u>Streptococcus</u> , beta group A, 167; <u>Streptococcus</u> , beta non group A, 35; <u>Streptococcus pneumoniae</u> , 27; <u>Streptococcus</u> , enterococci, 37; <u>Streptococcus</u> , alpha hemolytic, 47; <u>Streptococcus</u> , non hemolytic, 12; unidentified bacillus, 19; Yeast-like organisms, 64.
N.D.	-	-	-
Ohio	44	440	The following isolations were made: <u>Listeria</u> , 27; <u>Mycoplasma</u> , 11; Other, 6.
Okla.	-	-	-
Ore.	142	284	*
Pa.	*	*	*
R.I.	628	942	*
S.C.	271	813	*
S.D.	314 (1)	314	(j)
Tenn.	-	-	-
Tex.	-	-	-
Utah	-	-	-
Vt.	-	-	-
Va.	1,260	4,558	*
Wash.	82	1,850 (m)	*
W.Va.	66	66	(j)
Wisc.	-	-	-
Wyo.	-	-	-
Guam	181 (n)	735	*
P.R.	250	500	<u>Streptococcus</u> A, <u>Staphylococcus</u> , <u>Enterobacter</u> , <u>Proteus</u> , <u>Alcaligenes</u> , <u>Monilia</u> , <u>E. coli</u> .
V.I.	48	72	<u>Proteus</u> species, <u>Pseudomonas</u> species, <u>Stupli epidermidis</u> .

TABLES 12-12 - 12-16. FOOTNOTES

- (a) Darkfield examinations performed in local health department clinics not included.
- (b) GC only.
- (c) Represents total. Not tabulated separately.
- (d) Included under Miscellaneous Bacteriology, Table 12-16.
- (e) Aerobic.
- (f) Specimens include Miscellaneous Bacteriology, Enteric Bacteriology and TB.
- (g) Included with Mycobacterium totals, Table 12-3.
- (h) Cytochemical.
- (i) Included under other category.
- (j) Included with Referred Cultures, Table 12-14.
- (k) Sterility Tests - tissue bank, blood bank blood, autoclave sporestix, etc.
- (l) Sterility packs.
- (m) "Blood Cultures" and "Wounds and Body Fluids" included under Miscellaneous.
- (n) Cervical, vaginal, ear, etc.

TABLE 12-17. MYCOLOGY CULTURES

	Specimens	Exams	Positives: Dermatophytes			
			Microsporium	Trichophyton	Sporotrichum	Others
Ala.	1,948	18,309	4	31	4	11
Alaska	208 (a)	211	*	*	*	*
Ariz.	3,400	6,698	13	22	-	11
Ark.	1,449	14,490	-	3	2	4
Cal.	*	*	*	*	*	*
Colo.	163	163	3	35	11	6
Conn.	1,259	2,577	14	74	1	59
Del.	-	-	-	-	-	-
D.C.	50	100	10	5	1	-
Fla.	3,595	4,482	21	70	6	2
Ga.	832	832	33	107	-	37
Hawaii	109	553	18	32	1	15 (b)
Ida.	370	450	*	*	*	*
Ill.	835	3,796	9	186	-	92
Ind.	1,129	9,273	15	206	8	165
Ia.	295	886	1	13	2	1
Kans.	430	430	4	10	-	-
Ky.	5	11	-	1	-	-
La.	1,714	1,714	5	52	-	268
Me.	222	483	1	4	3	1
Md.	2,669	2,682	1	11	3	-
Mass.	183	*	1	8	-	41 (c)
Mich.	2,894	8,624	22	214	-	231
Minn.	2,413 (d)	5,125	2	46	1	202 (e)
Miss.	1,590	1,590	5	14	-	-
Mo.	198	2,956	1	3	1	-
Mont.	153	1,843	3	13	1	-
Nebr.	15	23	1	2	-	-
Nev.	69	295	*	*	*	*
N.H.	52	104	-	1	1	-
N.J.	16	40	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	2,035	7,224	143 (f)	(f)	(f)	(f)
N.C.	442	442	12	24	-	-
N.D.	199	398	5	21	-	1
Ohio	141 (g)	705	5	4	5	1
Okla.	308	307	-	7	2	-
Ore.	237	475	18	29	1	13
Pa.	*	*	*	*	*	*
R.I.	60	90	1	2	-	-
S.C.	1,155	15,790	8	7	1	9 (h)
S.D.	19	35	1 (f)	(f)	(f)	(f)
Tenn.	1,730	1,730	2	19	-	15
Tex.	266	2,791	*	*	*	*
Utah	132	296	2	4	2	-
Vt.	50	100	1	3	-	30
Va.	470	1,514	1	4	-	-
Wash.	427 (i)	1,933 (i)	17 (f)	(f)	(f)	(f)
W.Va.	188	936	-	1	-	-
Wisc.	2,477	2,477	6	80	10	32
Wyo.	-	-	-	-	-	-
Guam	10	31	-	-	-	-
P.R.	125	160	5	2	3	3
V.I.	131	251	-	-	-	-

TABLE 12-17. MYCOLOGY CULTURES  
(Continued)

	Positives: Systemic Fungi				
	Histoplasma	Cryptococcus	Blastomyces	Coccidioides	Other
Ala.	4	8	1	2	44
Alaska	*	*	*	*	*
Ariz.	2	5	-	174	709
Ark.	20	19	38	-	90
Cal.	*	*	*	*	*
Colo.	3	-	-	2	7
Conn.	-	6	-	-	372
Del.	-	-	-	-	-
D.C.	-	-	2	-	-
Fla.	3	5	-	1	779 (j)
Ga.	2	-	-	-	48
Hawaii	-	-	-	-	142 (k)
Ida.	*	*	*	*	*
Ill.	4	-	4	2	123
Ind.	3	6	3	2	385
Ia.	4	1	-	1	22
Kans.	-	7	-	1	-
Ky.	-	-	-	-	-
La.	9	1	1	-	136
Me.	-	-	-	-	-
Md.	1	1	-	-	-
Mass.	-	-	-	1	20 (l)
Mich.	-	12	-	2	1,178
Minn.	8	2	5	9	(e)
Miss.	-	-	-	-	-
Mo.	-	3	-	-	112
Mont.	-	1	-	2	38
Nebr.	1	-	-	-	-
Nev.	*	*	*	*	*
N.H.	-	-	-	-	-
N.J.	-	-	-	-	2
N.M.	*	*	*	*	*
N.Y.	889 (f)	(f)	(f)	(f)	(f)
N.C.	-	5	2	-	351
N.D.	-	-	-	1	32
Ohio	-	1	-	1	-
Okla.	2	3	-	1	89 (m)
Ore.	-	1	-	5	37
Pa.	*	*	*	*	*
R.I.	-	-	2	-	56
S.C.	3	7	-	-	290
S.D.	-	-	-	-	-
Tenn.	58	9	4	-	50
Tex.	5	-	-	6	-
Utah	-	-	-	2	-
Vt.	-	-	-	-	-
Va.	-	2	-	-	-
Wash.	45 (f)	(f)	(f)	(f)	(f)
W.Va.	-	1	-	1	7
Wisc.	8	3	8	-	27
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	-	-	-	-	34 (c)
V.I.	-	1	-	-	45 (n)

TABLE 12-18. MYCOLOGY: REFERRED FOR IDENTIFICATION

	Specimens	Exams
Ala.	162	1,296
Alaska	45	45
Ariz.	-	-
Ark.	139	1,390
Cal.	*	*
Colo.	-	-
Conn.	-	-
Del.	-	-
D.C.	-	-
Fla.	(o)	-
Ga.	549	549
Hawaii	503	503
Ida.	67 (p)	-
Ill.	192	768
Ind.	441	1,323
Ia.	(o)	-
Kans.	152	152
Ky.	166	660
La.	-	-
Me.	15	67
Md.	1,111	1,111
Mass.	131	*
Mich.	411	1,612
Minn.	(o)	-
Miss.	(o)	-
Mo.	198	2,956
Mont.	12	76
Nebr.	2	4
Nev.	-	-
N.H.	12	22
N.J.	147	368
N.M.	*	*
N.Y.	*	*
N.C.	270	270
N.D.	-	-
Ohio	263	1,315
Okla.	120	120
Ore.	151	453
Pa.	*	*
R.I.	60	90
S.C.	427	427
S.D.	249	424
Tenn.	-	-
Tex.	711	6,890
Utah	31	121
Vt.	4	8
Va.	-	-
Wash.	(o)	(o)
W.Va.	2	2
Wisc.	162	162
Wyo.	-	-
Guam	-	-
P.R.	-	-
V.I.	-	-

TABLE 12-19. PARASITOLOGY: PARASITES

	Specimens	Exams	Positives	
			Protozoa	Helminths
Ala.	25,057	48,501	2,718	2,322
Alaska	845	673	-	10
Ariz.	821	2,043	25	21
Ark.	1,908	3,816	348	86
Cal.	*	*	*	*
Colo.	678	1,356	78	8
Conn.	13,292	18,755	990	1,621
Del.	97	157	1	12
D.C.	146	*	-	21
Fla.	82,749	82,749	4,763	5,223
Ga.	69,249	84,944	529	3,011
Hawaii	1,733	1,722	58	402
Ida.	181	357	20 (f)	(f)
Ill.	943	1,841	83	63
Ind.	2,178	3,658	424	193
Ia.	758	1,439	50	47
Kans.	6,277	12,554	1,192	271
Ky.	5,763	10,780	630	760
La.	39,860	39,860	10,390	28 (q)
Me.	(p)	-	-	-
Md.	9,012	9,012	489	972
Mass.	-	-	-	-
Mich.	3,393	5,901	23	269
Minn.	3,715	7,216	233	192
Miss.	10,113	10,113	1,093	1,055
Mo.	712	2,093	55	21
Mont.	161	161	33	29
Nebr.	100	182	8	2
Nev.	1,661	1,761	*	*
N.H.	404	801	4	-
N.J.	2,900	8,700	192	326
N.M.	*	*	*	*
N.Y.	341	341	61 (f)	(f)
N.C.	8,481	9,329	533	688
N.D.	655	1,310	7	4
Ohio	979	2,203	92	72
Okla.	2,121	1,928	125	62
Ore.	960	1,795	28	50
Pa.	*	*	*	*
R.I.	650	1,246	38	93
S.C.	27,840	28,487	4,698	4,680
S.D.	(x)	488	-	8
Tenn.	5,280	10,148	201	663
Tex.	6,390	9,433	1,613	249
Utah	1,916	1,943	178	40
Vt.	379	758	30	2
Va.	27,050	27,050	*	*
Wash.	1,427	1,463	125	78
W.Va.	1,044	3,102	89	157
Wisc.	4,444	4,444	121	417
Wyo.	86	86	1	1
Guam	5,699	5,699	-	1,595
P.R.	173	173	64	-
V.I.	6,282	6,418	105	499

TABLE 12-20. PARASITOLOGY: BLOOD PARASITES, MICROSCOPIC

	Specimens	Exams	Positives
Ala.	25	24	1
Alaska	-	-	-
Ariz.	5	5	-
Ark.	15	15	1
Cal.	*	*	*
Colo.	-	-	-
Conn.	24	24	14
Del.	-	-	-
D.C.	-	-	-
Fla.	23	23	2
Ga.	64	64	6
Hawaii	4	4	-
Ida.	1	1	-
Ill.	9	9	1
Ind.	8	8	6
Ia.	34	34	15
Kans.	10	10	4
Ky.	-	-	-
La.	16	16	4
Me.	-	-	-
Md.	20	20	*
Mass.	-	-	-
Mich.	10	10	-
Minn.	15	15	3
Miss.	24	24	2
Mo.	8	29	7
Mont.	9	18	5
Nebr.	3	3	-
Nev.	-	-	-
N.H.	10	10	-
N.J.	16	40	2
N.M.	*	*	*
N.Y.	65	65	53
N.C.	22	22	3
N.D.	10	10	-
Ohio	10	10	9
Okla.	11	11	5
Ore.	28	28	13
Pa.	*	*	*
R.I.	5	5	3
S.C.	6	6	3
S.D.	4	4	-
Tenn.	30	30	12
Tex.	133	154	44
Utah	3	3	2
Vt.	6	14	3
Va.	-	-	-
Wash.	4	9	4
W.Va.	1	1	-
Wisc.	-	-	-
Wyo.	-	-	-
Guam	37 (s)	37	8
P.R.	-	-	-
V.I.	7	7	-



TABLE 12-21. PARASITOLOGY: REFERRED SPECIMENS

Specimens	Examinations				
	Arthropods	Malaria	Other Protozoa	Helminths and Other Worms	
Ala.	19	16	1	-	2
Alaska	-	-	-	-	-
Ariz.	9	3	5	-	-
Ark.	10	10	-	-	-
Cal.	*	*	*	*	*
Colo.	-	-	-	-	-
Conn.	21	-	-	-	21
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	40	40 (f)	(f)	(f)	(f)
Ga.	151	-	64	-	87
Hawaii	7	1	-	-	6
Ida.	-	-	-	-	-
Ill.	6	-	-	-	6
Ind.	(t)	-	-	-	-
Ia.	19	13	(t)	-	6
Kans.	23	11	4	3	5
Ky.	-	-	-	-	-
La.	-	-	-	-	-
Me.	5	5	-	-	-
Md.	-	-	-	-	-
Mass.	-	-	-	-	-
Mich.	11	-	4	-	7
Minn.	26	5	14	4	24
Miss.	(t)	-	-	-	-
Mo.	-	-	29	-	-
Mont.	6	-	10	1	1
Nebr.	-	-	-	-	-
Nev.	-	-	-	-	-
N.H.	2	-	-	-	-
N.J.	6	-	-	-	18
N.M.	*	*	*	*	*
N.Y.	65	*	*	*	*
N.C.	-	-	-	-	-
N.D.	10	2	-	2	6
Ohio	62	52	10	-	10 (u)
Okla.	-	-	-	-	-
Ore.	35	5	28	-	2
Pa.	*	*	*	*	*
R.I.	30	3	5	12	10
S.C.	-	-	-	-	-
S.D.	-	-	-	-	-
Tenn.	-	-	-	-	-
Tex.	103	-	52	37	14
Utah	3	-	3	-	-
Vt.	6	-	6	-	1
Va.	9	-	6	-	3
Wash.	9	21 (f)	(f)	(f)	(f)
W.Va.	3	3	-	-	-
Wisc.	18	3	14	-	15
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	-	-	-	-	-
V.I.	-	-	-	-	-

TABLES 12-17 - 12-21. FOOTNOTES

- (a) 91 total Dermatophytes and Systemic Fungi positives. Breakdown not available.
- (b) Candida albicans, 14; Epidermophyton floccosum, 1.
- (c) Candida albicans.
- (d) Includes 157 referred cultures.
- (e) Systemic Fungi included with Dermatophytes as follows: Candida albicans, 145; Torulopsis glabrata, 44; Geotrichum candidum, 3; Nocardia asteroides, 2; Aspergillus niger, 1; Aspergillus fumigatus, 4; Cladosporium werneckii, 3.
- (f) Represents total. . Not tabulated separately.
- (g) Includes referred.
- (h) M. furfur, 4; C. albicans and Tropicales parapsilosis, 5
- (i) Includes 286 specimens, 1,330 exams for referred cultures.
- (j) Candida albicans, 776; Other, 3.
- (k) Candida albicans, 130; Nocardia asteroides, 4; Nocardia brasiliensis, 7; Phialophora jeanselmei, 1.
- (l) Nocardia asteroides, 11; Aspergillus sp., 9.
- (m) Nocardia, 13; Candida, 76.
- (n) Candida species.
- (o) Included with "Mycology Cultures."
- (p) Referred to CDC.
- (q) Adult worms.
- (r) Included with Enteric specimens.
- (s) Dogs.
- (t) Referred specimens not separated from non-referred specimens.
- (u) Includes meat for trichinae, 6.

TABLE 12-22. VIROLOGY: RABIES

	Specimens	Exams	Positives	
			Microscopic	Animal Inoculation
Ala.	1,375	1,840	17	-
Alaska	62 (a)	-	-	-
Ariz.	2,326	3,114	68	-
Ark.	1,394	2,788	117	-
Cal.	*	*	*	*
Colo.	681	947	49	50
Conn.	806	2,040	20	-
Del.	166	498	4	4
D.C.	122	*	-	-
Fla.	4,755	9,510	66	-
Ga.	2,186	4,416	139	2
Hawaii	18	18	-	-
Ida.	156	156	-	3
Ill.	3,463	3,418	86	-
Ind.	3,487	6,850	138	1
Ia.	1,054	8,432	66	-
Kans.	1,958	1,958	(b)	117
Ky.	1,623	4,115	229	1,075
La.	4,976	4,976	114	2
Me.	637	1,962	108	(c)
Md.	911	2,235	5	5
Mass.	608	1,198	8	8
Mich.	2,356	3,629	47	47
Minn.	1,338	2,197	56	56
Miss.	792	1,532	7	-
Mo.	1,374	4,314	116	5
Mont.	- (d)	-	-	-
Nebr.	892	890	3	-
Nev.	-	-	-	-
N.H.	216	604	3	3
N.J.	10,656	103,050	29	29
N.M.	*	*	*	*
N.Y.	-	-	-	-
N.C.	1,116	1,776	10	6
N.D.	701	1,402	53	-
Ohio	3,870	5,824	112	-
Okla.	2,671	2,441	264	1 (e)
Ore.	492	465	8	-
Pa.	*	*	*	*
R.I.	157	471	1	1
S.C.	1,021	1,028	25	-
S.D.	(f)	167	23	-
Tenn.	3,455	6,529	285	2
Tex.	4,103	9,215	292	2
Utah	278	709	4	4
Vt.	306	449	17	-
Va.	1,832	2,401	76	3
Wash.	387	1,484	6 (g)	(g)
W. Va.	618	1,854	71	45
Wisc.	2,102	2,328	135	29
Wyo.	162	162	5	-
Guam	44	44	-	-
P.R.	6,583	6,570	1,716	2,740
V.I.	-	-	-	-

TABLE 12-23. VIROLOGY: TOTAL VIRAL ISOLATIONS (h)

	Specimens	Exams	Positives
Ala.	367	1,458	38
Alaska	-	-	-
Ariz.	613	1,839	84
Ark.	-	-	-
Cal.	*	*	*
Colo.	562	562	100
Conn.	7,916	17,413	330
Del.	-	-	-
D.C.	3,144	*	31
Fla.	1,522	1,568	23
Ga.	1,549	9,854	213
Hawaii	895	1,004	113
Ida.	2	2	-
Ill.	1,029	3,055	126
Ind.	255	263	14
Ia.	3,370	30,127	175
Kans.	645	6,450	174
Ky.	346	1,088	27
La.	3,334	3,334	45
Me.	562	1,709	328
Md.	1,822	2,070	155
Mass.	779	2,088	76
Mich.	799	3,007	176
Minn.	4,617	15,768	333
Miss.	-	-	-
Mo.	192	384	6
Mont.	209	250	26
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	5,510	76,848	124
N.M.	*	*	*
N.Y.	6,956	24,300	319
N.C.	941	8,023	161
N.D.	-	-	-
Ohio	6,102	12,855	95
Okla.	616	610	67
Ore.	1,361	3,695	176
Pa.	*	*	*
R.I.	-	-	-
S.C.	287	2,426	52
S.D.	7,441 (i)	7,712 (j)	32
Tenn.	663	663	68
Tex.	938	7,181	153
Utah	460	2,760	83
Vt.	159	544	32
Va.	430	2,368	25
Wash.	452	5,450	45
W.Va.	892	1,134	97
Wisc.	2,957	2,957	356
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLE 12-24. VIROLOGY: HUMAN SOURCE ISOLATIONS

	Total Specimens	Total Exams	Total Positives
Ala.	332	1,328	38
Alaska	-	-	-
Ariz.	613	1,839	84
Ark.	-	-	-
Cal.	*	*	*
Colo.	562	562	100
Conn.	7,916	17,413	330
Del.	-	-	-
D.C.	3,144	*	31
Fla.	1,516	1,562	23
Ga.	1,364	8,006	*
Hawaii	895	1,004	113
Ida.	2	2	-
Ill.	1,029	3,055	126
Ind.	254	262	14
Ia.	1,287	13,263	139
Kans.	574	5,740	132
Ky.	346	1,088	27
La.	467	467	32
Me.	562	1,709	328
Md.	1,678	1,926	155
Mass.	779	2,088	76
Mich.	799	3,007	176
Minn.	4,592	15,718	331
Miss.	-	-	-
Mo.	192	384	6
Mont.	209	250	26
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	3,302	54,054	93
N.M.	*	*	*
N.Y.	2,168	11,967	319
N.C.	888	7,860	145
N.D.	-	-	-
Ohio	791	1,304	78
Okla.	615	609	67
Ore.	1,361	3,695	176
Pa.	*	*	*
R.I.	-	-	-
S.C.	279	2,410	47
S.D.	*	*	*
Tenn.	650	650	68
Tex.	765	6,958	143
Utah	460	2,760	83
Vt.	159	544	32
Va.	430	2,368	25
Wash.	437	5,333	45
W.Va.	892	1,134	97
Wisc.	2,957	2,957	356
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLE 2-24. VIROLOGY: HUMAN SOURCE ISOLATIONS  
(Continued)

	Throat Washings			Fecal		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	58	232	10	97	388	11
Alaska	-	-	-	-	-	-
Ariz.	89	*	2	200	*	35
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	211	*	54	160	*	39
Conn.	3,358	7,387	175	3,076	6,767	119
Del.	-	-	-	-	-	-
D.C.	93	*	17	88	*	8
Fla.	76	78	1	955	993	19
Ga.	492	*	*	325	*	*
Hawaii	367	439	75	145	160	16
Ida.	2	2	-	-	-	-
Ill.	249	747	26	327	981	24
Ind.	44	44	4	69	69	4
Ia.	573	5,400	82	404	4,373	19
Kans.	65	650	36	411	4,110	87
Ky.	98	440	18	74	252	5
La.	220	220	12	162	162	19
Me.	282	846	212	167	501	83
Md.	*	*	*	*	*	*
Mass.	281	815	24	228	590	30
Mich.	112	619	9	423	1,585	157
Minn.	1,436	5,026	79	1,211	3,633	93
Miss.	-	-	-	-	-	-
Mo.	45	*	3	72	*	1
Mont.	69	69	15	72	72	3
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	111	2,256	21	1,725	20,439	50
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	384	3,130	62	251	2,255	49
N.D.	-	-	-	-	-	-
Ohio	306	567	60	208	353	7
Okla.	251	251	30	154	153	14
Ore.	642	1,834	110	401	912	22
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	101	1,022	7	103	836	36
S.D.	*	*	*	*	*	*
Tenn.	223	223	27	167	167	26
Tex.	93	*	15	346	*	64
Utah	141	*	6	107	*	47
Vt.	60	249	12	26	58	7
Va.	148	842	9	159	897	2
Wash.	103	1,356	12	224	2,734	27
W.Va.	52	125	18	62	164	34
Wisc.	1,156	1,156	213	689	689	41
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-24. VIROLOGY: HUMAN SOURCE ISOLATIONS  
(Continued)

	CSF			Blood		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	67	268	3	29	116	2
Alaska	-	-	-	-	-	-
Ariz.	92	*	8	2	*	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	78	*	*	-	-	-
Conn.	182	400	8	7	16	-
Del.	-	-	-	-	-	-
D.C.	81	*	1	2,868	*	*
Fla.	273	277	2	15	15	-
Ga.	293	*	*	16	*	*
Hawaii	142	155	13	73	74	1
Ida.	-	-	-	-	-	-
Ill.	142	426	2	2	6	-
Ind.	77	91	2	-	-	-
Ia.	158	1,537	7	4	60	-
Kans.	70	700	5	-	-	-
Ky.	107	257	1	-	-	-
La.	10	10	-	3	3	1
Me.	45	135	9	21	42	18
Md.	*	*	*	*	*	*
Mass.	140	304	10	6	16	-
Mich.	77	257	4	-	-	-
Minn.	486	1,458	19	22	66	-
Miss.	-	-	-	-	-	-
Mo.	50	*	1	-	-	-
Mont.	39	78	-	26	26	7
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	750	7,064	4	9	414	1 (k)
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	157	1,446	21	12	120	-
N.D.	-	-	-	-	-	-
Ohio	152	258	4	11	11	-
Okla.	133	129	8	6	5	-
Ore.	100	230	6	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	32	244	-	7	42	-
S.D.	*	*	*	*	*	*
Tenn.	165	165	10	1	1	-
Tex.	241	*	28	2	*	-
Utah	61	*	4	32	*	6
Vt.	50	153	3	-	-	-
Va.	92	445	12	3	16	-
Wash.	78	783	2	-	-	-
W.Va.	51	92	14	721	741	30
Wisc.	510	510	22	7	7	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-24. VIROLOGY: HUMAN SOURCE ISOLATIONS  
(Continued)

	Tissue			Other		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	10	40	3	71	284	9
Alaska	-	-	-	-	-	-
Ariz.	31	*	1	199	*	38
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	113	*	7	-	-	-
Conn.	274	602	2	1,019	2,241	26
Del.	-	-	-	-	-	-
D.C.	-	-	-	14	*	5
Fla.	151	153	1	46	46	-
Ga.	78	*	*	160	*	*
Hawaii	126	134	8	42	42	-
Ida.	-	-	-	-	-	-
Ill.	243 (1)	697	73	66 (m)	198	1
Ind.	15	15	2	49	43	2
Ia.	29	469	2	119	1,324	29
Kans.	11	110	3	17	170	1
Ky.	11	33	1	56	106	2
La.	14	14	-	58	58	-
Me.	16	60	-	31 (n)	125	6
Md.	*	*	*	*	*	*
Mass.	63	185	6	61 (o)	178 (o)	6 (o)
Mich.	-	-	-	187	546	6
Minn.	426	1,491	28	1,011	4,044	112
Miss.	-	-	-	-	-	-
Mo.	21	*	-	4	*	1
Mont.	-	-	-	3	5	1
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	385	19,413	11	322	4,468	6
N.M.	*	*	*	*	*	*
N.Y.	*	*	*	*	*	*
N.C.	28	296	10	56	613	3
N.D.	-	-	-	-	-	-
Ohio	10	11	1	104	104	6
Okla.	11	11	-	60	60	15
Ore.	45	110	4	173	609	34
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	19	120	3	17 (p)	146	1
S.D.	*	*	*	*	*	*
Tenn.	66	66	2	28	28	3
Tex.	20	*	3	63	*	33
Utah	21	*	13	98	*	7
Vt.	8	28	2	15	56	8
Va.	28	168	2	-	-	-
Wash.	32	460	4	-	-	-
W.Va.	4	6	-	2	6	1
Wisc.	154	154	6	441	441	74
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-25. VIROLOGY: ANIMAL SOURCE ISOLATIONS

	Total Specimens	Total Exams	Total Positives	Horses		
				Specimens	Exams	Positives
Ala.	35	130	-	28	102	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	6	6	-	4	4	-
Ga.	185	1,848	*	1	*	*
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	1	1	-	-	-	-
Ia.	2,083	16,864	36	-	-	-
Kans.	71	710	42	-	-	-
Ky.	-	-	-	-	-	-
La.	2,867	2,867	13	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	25	50	2	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	(q)	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N. J.	2,208	22,794	31	126	2,898	10 (r)
N.M.	*	*	*	*	*	*
N.Y.	4,788	12,333	*	3,539 (s)	*	*
N.C.	53	163	16	22	86	16
N.D.	-	-	-	-	-	-
Ohio	5,311	11,551	17	1	2	-
Okla.	1	1	-	1	1	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R. I.	-	-	-	-	-	-
S.C.	8	16	5	5	10	2
S.D.	*	*	*	*	*	*
Tenn.	13	13	-	-	-	-
Tex.	173	223	10	13	13	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	15	117	-	2	17	-
W. Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V. I.	-	-	-	-	-	-



TABLE 2-25. VIROLOGY: ANIMAL SOURCE ISOLATIONS  
(Continued)

	Birds			Mosquito Pools (1 Pool=1 Specimen)		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	5	20	-	2	8	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	2	2	-	-	-	-
Ga.	6	*	*	172	*	*
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	1	1	-	-	-	-
Ia.	-	-	-	2,083	16,864	36
Kans.	1	10	-	50	500	30
Ky.	-	-	-	-	-	-
La.	2,867	2,867	13	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	4	8	-	21	42	2
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	19 (t)	161	1	1,339	6,695	17
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	1,062	*	*
N.C.	31	77	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	2	4	-	5,308	11,545	17
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	1	2	1	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	13	13	-
Tex.	7	7	-	153	203	10
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	13	100	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-25. VIROLOGY: ANIMAL SOURCE ISOLATIONS  
(Continued)

	Other		
	Specimens	Exams	Positives
Ala.	-	-	-
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	-	-	-
Conn.	-	-	-
Del.	-	-	-
D.C.	-	-	-
Fla.	-	-	-
Ga.	6	*	*
Hawaii	-	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	-	-	-
Ia.	-	-	-
Kans.	-	-	-
Ky.	-	-	-
La.	-	-	-
Me.	-	-	-
Md.	-	-	-
Mass.	-	-	-
Mich.	-	-	-
Minn.	-	-	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	724 (u)	13,040	3
N.M.	*	*	*
N.Y.	-	-	-
N.C.	-	-	-
N.D.	-	-	-
Ohio	-	-	-
Okla.	-	-	-
Ore.	-	-	-
Pa.	*	*	*
R.I.	-	-	-
S.C.	2	4	2
S.D.	*	*	*
Tenn.	-	-	-
Tex.	-	-	-
Utah	-	-	-
Vt.	-	-	-
Va.	-	-	-
Wash.	-	-	-
W.Va.	-	-	-
Wisc.	-	-	-
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLE 12-26. VIROLOGY: MISCELLANEOUS SOURCE ISOLATIONS

	Total Specimens	Total Exams	Total Positives
Ala.	-	-	-
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	-	-	-
Conn.	-	-	-
Del.	-	-	-
D.C.	-	-	-
Fla.	-	-	-
Ga.	-	-	-
Hawaii	-	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	-	-	-
Ia.	-	-	-
Kans.	20	200	12
Ky.	-	-	-
La.	-	-	-
Me.	-	-	-
Md.	144 (v)	144	*
Mass.	-	-	-
Mich.	-	-	-
Minn.	-	-	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	-	-	-
N.M.	*	*	*
N.Y.	187	*	*
N.C.	-	-	-
N.D.	-	-	-
Ohio	-	-	-
Okla.	-	-	-
Ore.	-	-	-
Pa.	*	*	*
R.I.	-	-	-
S.C.	-	-	-
S.D.	*	*	*
Tenn.	-	-	-
Tex.	-	-	-
Utah	-	-	-
Vt.	-	-	-
Va.	-	-	-
Wash.	-	-	-
W.Va.	-	-	-
Wisc.	-	-	-
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLES 12-22 - 12-26. FOOTNOTES

- (a) Referred to CDC.
- (b) All suspicious or positive by FA are confirmed by animal inoculation. This work done by Veterinary Diagnostic Laboratory, Kansas State University, Manhattan, Kansas.
- (c) Tissues from animals having exposed humans and negative by FA submitted to CDC for mouse inoculation.
- (d) Rabies diagnostic work is done at the Livestock Sanitary Board Laboratory in Bozeman and at the PHS Rocky Mountain Laboratory in Hamilton.
- (e) Performed on problem specimens only.
- (f) Included with Total Viral Isolations figure.
- (g) Represents total. Not tabulated separately.
- (h) Excluding Rabies, which is in Table 12-22.
- (i) Includes Rabies.
- (j) Exams were broken down as follows: Respiratory Diseases, 224 exams, 28 positives; Encephalitis, 251 exams, 2 positives; Arboviruses, 21 exams, 2 positives; Exanthemes (Rubella), 7,130 exams, 0 positives; Rickettsia, 86 exams, 0 positives.
- (k) Isolation of Venezuelan equine encephalitis (VEE) from the blood of a laboratory worker in the Virology Program.
- (l) Includes Tissue Culture Fluids, 119 specimens, 357 exams, 69 positives.
- (m) Urine.
- (n) Urine, pleural fluid, cervical fluid, pericardial fluid.
- (o) Urine, 36 specimens, 110 exams, 1 positive; Body Fluids (pericardial, pleural, etc.), 25 specimens, 68 exams, 5 positives.
- (p) Vesicular fluid, 10; urine, 5; pericardial, 2.
- (q) Done at Rocky Mountain Laboratory in Hamilton.
- (r) Isolation of VEE from the blood of vaccinated horses.
- (s) Wildlife.
- (t) Pheasants.
- (u) Caged W.F. mice specimens, 363 specimens, 7,260 exams, 3 positives; caged mammal bloods and brains, 361 specimens, 5,780 exams.
- (v) Water, sewage effluents, streams.

TABLE 12-27. SYPHILIS SEROLOGY: BLOOD

	Specimens	Screening		Quantitative Exams	Confirmatory (Treponemal)	
		Exams	Positives (a)		Exams	Positives (a)
Ala.	386,462	385,225	19,102	32,862	-	499
Alaska	29,337	31,869	795	831	372	275
Ariz.	79,765	78,893	5,330	5,363	5,516	3,323
Ark.	118,798	117,593	5,916	5,916	3,256	1,952
Cal.	*	*	*	*	*	*
Colo.	123,829	123,829	4,147	5,635	5,635	2,847
Conn.	100,993	100,990	7,868	9,952	9,932	5,414
Del.	34,466	35,737	1,887	987	1,375	1,032
D.C.	184,060	184,060	27,339	28,097	13,503	5,029
Fla.	827,634	827,634	30,834	37,551	4,047	*
Ga.	574,565	573,678	30,955	18,920	7,104	4,852
Hawaii	22,811	27,304	1,218	2,035	1,849 (b)	811
Ida.	23,609	24,311	*	1,058	1,028	372
Ill.	91,394	91,394	7,862	9,071	6,605	4,354
Ind.	106,017	103,010	4,116	4,116	1,942	1,094
Ia.	162,133	162,133	4,001	6,331	4,490	1,920
Kans.	111,233	111,233	4,099	4,093	3,909	2,615
Ky.	139,475	136,091	5,078	6,327	3,363	1,670
La.	197,586	184,706	10,350	8,694	4,186	2,471
Me.	46,137	46,137	1,384	1,507	1,370	682
Md.	180,224	179,821	18,815	98	18,732	14,228
Mass.	363,635	334,762	4,359	17,691	5,345	2,854
Mich.	332,104	330,513	21,423	30,931	25,944	16,873
Minn.	173,358	171,541	6,969	4,043	22,650	3,123
Miss.	295,149	295,149	7,881	7,881	2,721	1,728
Mo.	63,532	63,054	5,144	8,605	5,891	3,180
Mont.	31,823	31,823	1,608	2,009	948	349
Nebr.	83,634	83,634	861	1,660	668	274
Nev.	32,442	40,445	2,297	2,733	4,840	1,293
N.H.	44,336	43,202	1,134	1,200	1,199	600
N.J.	231,718	231,718	13,689	25,478	20,130	9,443
N.M.	*	*	*	*	*	*
N.Y.	111,175	121,342	9,781	*	*	*
N.C.	333,322	333,322	12,093	14,597	16,806	7,125
N.D.	52,260	52,260	964	964	-	-
Ohio	110,489	107,360	4,708	4,206	8,681	4,594
Okla.	137,050	135,305	8,410	8,410	4,564	2,321
Ore.	94,044	92,743	3,473	3,483	1,389	769
Pa.	*	*	*	*	*	*
R.I.	43,302	49,572	4,277	2,561	2,458	927
S.C.	276,372	285,041	1,805	11,714	2,635	1,344
S.D.	30,382	30,382	529	529	819	349
Tenn.	500,075	498,906	9,360	9,360	1,069	577
Tex.	87,292	72,810	2,944	2,944	14,482	9,280
Utah	70,477	68,897	2,346	6,280	1,979	759
Vt.	34,969	34,969	526	526	625	288
Va.	196,109	191,687	9,518	5,979	7,763	5,242
Wash.	34,514	38,948	4,169	3,999	5,217 (c)	2,907
W.Va.	46,169	46,169	1,888	3,060	2,598	1,543
Wisc.	180,856	180,626	5,842	8,702	6,264	2,476
Wyo.	11,555	11,555	309	311	411	*
Guam	5,362	5,362	265	265	272	213
P.R.	143,095	143,095	6,867	6,867	5,601	1,683
V.I.	10,454	11,626	707	1,238	685	601

TABLE 12-28. SYPHILIS SEROLOGY: SPINAL FLUID

	Specimens	Exams	Positives (a)
Ala.	1,260	2,227	9
Alaska	148	148	2
Ariz.	242	245	2
Ark.	59	79	1
Cal.	*	*	*
Colo.	480	480	5
Conn.	1,509	1,518	10
Del.	109	109	-
D.C.	125	125	7
Fla.	936	940	8
Ga.	593	695	7
Hawaii	119	123	2
Ida.	192	192	-
Ill.	121	125	4
Ind.	233	233	3
Ia.	1,356	1,360	4
Kans.	368	744	1
Ky.	154	158	9
La.	2,070	2,070	67
Me.	1,112	1,112	11
Md.	944	1,051	41 (d)
Mass.	696	6,384	1
Mich.	488	490	5
Minn.	1,669	3,337	15
Miss.	32	64	1
Mo.	477	478	5
Mont.	287	287	6
Nebr.	251	554	1
Nev.	129	195	-
N.H.	1,109	1,104	5
N.J.	721	721	10
N.M.	*	*	*
N.Y.	7,195	7,481	171
N.C.	1,073	1,334	69
N.D.	281	281	-
Ohio	401	439	29
Okla.	254	251	4
Ore.	129	129	3
Pa.	*	*	*
R.I.	206	378	4
S.C.	470	592	6
S.D.	163	163	1
Tenn.	412	412	1
Tex.	169	169	4
Utah	440	459	1
Vt.	451	451	5
Va.	972	972	23
Wash.	1,313	1,317	8
W.Va.	37	37	3
Wisc.	556	613 (e)	1
Wyo.	3	3	-
Guam	-	-	-
P.R.	10	10	-
V.I.	1	1	-

TABLE 12-29. NON-SYPHILIS SEROLOGY: TOTAL SPECIMENS, EXAMINATIONS, AND POSITIVES

	Bacterial Serology			Miscellaneous Serology		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	118	581	19	-	-	-
Alaska	65	353	5	51	51	-
Ariz.	62	230	33	76	76	6
Ark.	605	2,961	169	206	206	12
Cal.	*	*	*	*	*	*
Colo.	134	164	19	75	75	9
Conn.	367	367	48	6,803	10,650	1,984
Del.	-	-	-	-	-	-
D.C.	2	2	-	557	557	143
Fla.	1,965	3,276	29	1,093	1,093	90
Ga.	717	3,570	71	4,589	4,589	1,509
Hawaii	63	124	5	220	249	50
Ida.	94	345	-	-	-	-
Ill.	1,636 (f)	1,921	136	(f)	1,533	331
Ind.	1,285	4,260	21	702	702	43
Ia.	6,810	9,373	616	4,649	5,578	993
Kans.	708	1,383	14	8	8	1
Ky.	391	2,296	92	154	358	94
La.	3,479	3,479	81	1,630	1,630	*
Me.	240	456	1	1,237	1,548	215
Md.	1,255	2,869	72	1,266	1,825	149
Mass.	632	*	105	2,247	*	351
Mich.	486	481	4	4,074	4,059	1,396
Minn.	*	10,806	1,160	*	26,595	10,309
Miss.	2,106 (f)	4,527	25	(f)	360	17
Mo.	336	689	48	235	235	32
Mont.	229	229	38	127	127	30
Nebr.	3,472	5,186	272	1,892	1,892	503
Nev.	58	199	-	23	23	1
N.H.	113	236	-	-	-	-
N.J.	112	112	8	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	*	2,336	354	*	4,823	939
N.C.	1,439	1,801	597	1,026	1,158	349
N.D.	2,745	6,207	525	2,445	2,485	180
Ohio	678	2,576	116	958	958	213
Okla.	1,908	5,724	*	30	30	5
Ore.	502	1,549	38	965	1,251	144
Pa.	*	*	*	*	*	*
R.I.	23	56	4	62	62	22
S.C.	600	2,458	210	1,798	1,823	377
S.D.	7,610 (f)	3,631	22	(f)	7,061	4,902
Tenn.	923	3,354	153	293	293	58
Tex.	1,049	2,202	257	9,634	9,634	199
Utah	2,623	5,907	94	3,562	3,728	298
Vt.	7,465	22,621	102	1,932	1,932	180
Va.	12,033	12,033	1,160	8,404	8,404	1,575
Wash.	2,014	2,270	*	39	55	12
W.Va.	83	83	10	57	57	13
Wisc.	6,671	8,278	180	8,866	8,866	1,862
Wyo.	150	584	91	266	266	21
Guam	5	5	3	7	7	1
P.R.	-	-	-	1,640	1,564	340
V.I.	150	172	3	100	115	12

TABLE 12-29. NON-SYPHILIS SEROLOGY: TOTAL SPECIMENS, EXAMINATIONS, AND POSITIVES  
(Continued)

	Fungal Serology			Parasitological Serology		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	1,434	5,736	141	1,595	1,595	45
Alaska	-	-	-	-	-	-
Ariz.	11,063	14,878	1,186	2,178 (g)	-	-
Ark.	1,966	7,864	661	156	154	12
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	(g)	-	-	1,350	1,350	575
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	549	549	178
Ga.	957	3,828	63	827	825	123
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	5,168	18,355	1,135	1,458	2,006	548
Ind.	1,744	5,348	495	489	489	193
Ia.	957	5,300	451	1,158	1,463	330
Kans.	651	2,601	80	(g)	-	-
Ky.	2,042	9,108	1,546	-	-	-
La.	4,878	7,235	254	686	686	209
Me.	(g)	-	-	302	560	88
Md.	1,765	5,464	*	3,673	4,821	*
Mass.	-	-	-	-	-	-
Mich.	2,504	10,016	400	172	172	32
Minn.	2,033	7,823	647	1,587	1,587	350
Miss.	1,556	4,678	502	-	-	-
Mo.	3,125	13,343	1,077	335	823	88
Mont.	(h)	-	-	(h)	-	-
Nebr.	(g)	-	-	(g)	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	921	921	136
N.M.	*	*	*	*	*	*
N.Y.	*	4,701	*	*	3,816	32
N.C.	743 (1)	2,872	37	1,286 (1)	1,123	466
N.D.	-	-	-	-	-	-
Ohio	3,430	10,601	596	626	626	214
Okla.	(g)	-	-	(g)	-	-
Ore.	227	910	37	535	535	40
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	482	5,322	540	616	616	76
S.D.	20	133	-	37	39	-
Tenn.	3,247	6,494	565	415	415	26
Tex.	3,949	15,746	501	2,112	2,167	768
Utah	-	-	-	-	-	-
Vt.	85	340	4	117	117	1
Va.	6,336	6,336	156	1,463	1,463	469
Wash.	-	-	-	-	-	-
W.Va.	72	209	9	119	119	45
Wisc.	2,256	4,512	182	1,790	1,790	372
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	2	6	-	5	5	1

TABLE 12-29. NON-SYPHILIS SEROLOGY: TOTAL SPECIMENS, EXAMINATIONS, AND POSITIVES  
(Continued)

	Viral and Rickettsial Serology		
	Specimens	Exams	Positives
Ala.	4,396	23,359	122
Alaska	3,708	3,708	3,050
Ariz.	4,338	8,378	2,236
Ark.	592	591	46
Cal.	*	*	*
Colo.	4,910	30,739	23,193
Conn.	12,772	42,420	1,065
Del.	(j)	-	-
D.C.	3,824	3,824	2,983
Fla.	19,190	31,318	7,383
Ga.	6,483	12,453	3,112
Hawaii	12,285	12,285	243
Ida.	3,206	5,959	554
Ill.	11,264	39,754	544
Ind.	1,704	10,563	171
Ia.	46,832	61,414	40,782
Kans.	1,609	13,127	5,870
Ky.	4,451	6,840	2,023
La.	24,171	24,171	16,436
Me.	22,031	24,828 (k)	3,097 (k)
Md.	55,782	70,828	*
Mass.	10,381	19,522	6,335
Mich.	20,706	38,279	277
Minn.	32,320	36,806	25,769
Miss.	1,470	1,470	*
Mo.	15,925	152,056	14
Mont.	17,291	17,291	13,530
Nebr.	(l)	-	-
Nev.	2,107	2,107	1,505
N.H.	-	-	-
N.J.	245,730 (m)	1,091,611 (m)	40,156
N.M.	*	*	*
N.Y.	-	-	-
N.C.	29,586	40,499	1,103
N.D.	8,103	9,083	100
Ohio	6,256	24,806	5,515
Okla.	1,662	2,762	143
Ore.	35,062	44,066	881
Pa.	*	*	*
R.I.	14,433	28,882	20,646
S.C.	27,334	30,701	88
S.D.	-	-	-
Tenn.	10,939	16,644	8,430
Tex.	5,783	20,165	1,410
Utah	8,721	8,853	1,331
Vt.	5,086	7,976	4,034
Va.	1,927	1,927	814
Wash.	6,637	9,464	125
W.Va.	812	4,207	2,176
Wisc.	5,779	22,315	567
Wyo.	9,144	9,144	8,380
Guam	-	-	-
P.R.	90	90	2
V.I.	1,468	1,468	7



TABLE 12-30. BACTERIAL SEROLOGY

	Typhoid and Paratyphoid			Brucellosis		
	Minimum Significant Titer	Exams	Positives	Minimum Significant Titer	Exams	Positives
Ala.	-	-	-	1:80	91	16 (n)
Alaska	1:80	179	-	1:20	80	3
Ariz.	*	132	16	*	42	6
Ark.	1:80	1,416	82	1:80	380	4
Cal.	*	*	*	*	*	*
Colo.	-	-	-	1:80	48	3
Conn.	1:20	244	29	1:20	100	15
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	1:160	1,093	4	1:160	1,093	2
Ga.	1:160	813	6	1:160	859	27
Hawaii	1:160	64	2	1:40	15	2
Ida.	1:160	27	-	1:160	226	-
Ill.	1:80 (o)	296	6	1:80	479	47
Ind.	1:20	1,203	4	1:20	1,147	2
Ia.	1:20	368	33	1:80	7,217	407
Kans.	-	-	-	1:80	675	6
Ky.	1:80	1,536	54	1:80	368	9
La.	*	6	1	*	1,532	11
Me.	1:80	240	-	1:80	210	-
Md.	-	-	-	*	329	22
Mass.	1:80	*	80	1:45	*	15
Mich.	-	-	-	*	131	3
Minn.	*	3,630	725	*	3,302	132
Miss.	1:160	905	4	1:160	905	12
Mo.	-	-	-	1:20	343	14
Mont.	-	-	-	1:80	87	6 (p)
Nebr.	1:80	3,212	175	1:80	1,875	89
Nev.	1:20	120	-	1:20	34	-
N.H.	-	113	-	-	113	-
N.J.	-	-	-	1:80	27	4
N.M.	*	*	*	*	*	*
N.Y.	*	1,170	43	*	328	8
N.C.	-	-	-	1:160	261	7
N.D.	1:80	2,721	311	1:80	2,745	29
Ohio	1:80	788	64	1:80	341	8
Okla.	*	*	*	*	*	*
Ore.	1:80	246	17	1:80	162	3
Pa.	*	*	*	*	*	*
R.I.	1:80	25	-	1:80	22	4
S.C.	1:80	523	53	1:80	293	27
S.D.	*	1,662	4	*	1,473	6
Tenn.	1:40	1,062	95	1:40	764	25
Tex.	(any titer)	241	22	(any)	278	35
Utah	-	-	-	1:80	2,283	8
Vt.	1:80	7,465	35	1:40	7,465	6
Va.	*	1,395	136	*	4,420	151
Wash.	*	12	*	*	12	*
W.Va.	-	-	-	1:80	32	1
Wisc.	1:160	406	10	1:160	2,362	15
Wyo.	1:80	144	23	1:80	150	5
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	*	8	-	-	-	-

TABLE 12-30. BACTERIAL SEROLOGY  
(Continued)

	Tularemia			Weil-Felix		
	Minimum Significant Titer	Exams	Positives	Minimum Significant Titer	Exams	Positives
Ala.	1:80	74	2 (n)	-	-	-
Alaska	1:20	40	2	1:20	45	-
Ariz.	*	14	3	-	-	-
Ark.	1:80	428	39	1:80	699	44
Cal.	*	*	*	*	*	*
Colo.	1:80	21	4	-	-	-
Conn.	1:10	23	4	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	1:80	109	3	1:160	109	1
Ga.	1:160	827	7	1:160	874	19
Hawaii	1:80	2	-	1:160	-	-
Ida.	1:80	32	-	-	-	-
Ill.	1:80	383	43	1:80	223	31
Ind.	1:20	1,145	2	1:20	632	6
Ia.	1:20	92	6	1:80	132	29
Kans.	1:80	675	8	-	-	-
Ky.	1:80	368	9	-	-	-
La.	*	88	5	*	1,518	3
Me.	1:80	1	-	1:80	1	-
Md.	*	241	50	-	-	-
Mass.	1:80	*	1	1:80	*	9
Mich.	*	36	1	-	-	-
Minn.	*	1,593	108	*	1,440	195
Miss.	1:80	905	6	1:160	232	3
Mo.	1:20	346	34	-	-	-
Mont.	1:80	86	5 (p)	-	-	-
Nebr.	1:80	39	5	1:40	17	1
Nev.	1:20	26	-	1:20	19	-
N.H.	-	10	-	-	-	-
N.J.	1:160	16	4	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	*	183	2	*	182	1
N.C.	1:160	261	10	-	-	-
N.D.	1:80	126	3	(any)	40	25
Ohio	1:80	88	8	1:80	299	36
Okla.	*	*	*	*	*	*
Ore.	1:80	40	5	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	1:80	9	-
S.C.	1:80	257	-	1:80	650	49
S.D.	*	361	10	*	10	2
Tenn.	1:40	764	18	1:80	764	15
Tex.	(any)	270	16	(any)	642	103
Utah	1:80	2,317	80	(Sig. Rise)	1,306	6
Vt.	1:20	82	1	1:80	7,465	60
Va.	*	3,757	162	*	1,399	61
Wash.	*	187	*	*	99	*
W.Va.	1:80	29	-	-	-	-
Wisc.	1:160	1,201	4	-	-	-
Wyo.	1:80	144	13	1:80	146	50
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	*	8	-	*	8	-

TABLE 12-30. BACTERIAL SEROLOGY  
(Continued)

	Antistreptolysin O			Leptospirosis		
	Minimum Significant Titer	Exams	Positives	Minimum Significant Titer	Exams	Positives
Ala.	-	-	-	- (q)	416	1
Alaska	*	9	-	-	-	-
Ariz.	*	4	3	-	-	-
Ark.	*	1	-	*	37	-
Cal.	*	*	*	*	*	*
Colo.	1:100	95	12	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	*	2	-	-	-	-
Fla.	-	-	-	*	872	19
Ga.	-	-	-	1:50	164	6
Hawaii	-	-	-	(Rise)	41 (r)	1
Ida.	-	-	-	*	60	-
Ill.	-	-	-	-	540	9 (s)
Ind.	-	-	-	1:8	133	7
Ia.	166 Todd Units	229	118	1:40	1,335	23
Kans.	-	-	-	*	33	-
Ky.	-	-	-	-	-	-
La.	*	1	-	*	156	7
Me.	-	-	-	1:80	4	1
Md.	*	764	*	*	327	*
Mass.	-	-	-	-	-	-
Mich.	*	237	*	*	73	-
Minn.	*	841	*	-	-	-
Miss.	*	1,560	*	*	20	-
Mo.	-	-	-	-	-	-
Mont.	1:240	31	13	20 (t)	-	-
Nebr.	-	-	-	1:80	43	2
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	(q)	69	-
N.M.	*	*	*	*	*	*
N.Y.	*	354	297	*	119	3
N.C.	1:100	874	564	1:4	303	6
N.D.	200 Todd Units	575	157	-	-	-
Ohio	-	-	-	(any)	1,060	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	*	1,101	13
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	*	115	-
Tenn.	-	-	-	-	-	-
Tex.	(any)	145	*	(any)	626	81
Utah	-	-	-	1:80	1	-
Vt.	-	-	-	1:4	144	-
Va.	*	878	644	*	184	6
Wash.	*	1,795	*	*	165	*
W.Va.	1:166	22	9	-	-	-
Wisc.	480 T. U. (u)	3,245	134	1:100	1,064	17
Wyo.	-	-	-	-	-	-
Guam	166 Todd Units	5	3	-	-	-
P.R.	-	-	-	-	-	-
V.I.	*	148	3	-	-	-

TABLE 12-30. BACTERIAL SEROLOGY  
(Continued)

	Other Bacterial Diseases	
	Exams	Positives
Ala.	-	-
Alaska	-	-
Ariz.	38	5
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	-	-
Del.	-	-
D.C.	-	-
Fla.	-	-
Ga.	33	6
Hawaii	2	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	-	-
Ky.	24 (v)	20
La.	178	54
Me.	-	-
Md.	1,208	*
Mass.	-	-
Mich.	4	-
Minn.	-	-
Miss.	-	-
Mo.	-	-
Mont.	25 (w)	14
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	-	-
N.M.	*	*
N.Y.	-	-
N.C.	102	10 (x)
N.D.	-	-
Ohio	-	-
Okla.	*	*
Ore.	-	-
Pa.	*	*
R.I.	-	-
S.C.	735 (y)	81
S.D.	10	-
Tenn.	-	-
Tex.	-	-
Utah	-	-
Vt.	-	-
Va.	-	-
Wash.	-	-
W.Va.	-	-
Wisc.	-	-
Wyo.	-	-
Guam	-	-
P.R.	-	-
V.I.	-	-

TABLE 12-31. MISCELLANEOUS SEROLOGY

	Infectious Mononucleosis		
	Minimum	Exams	Positives
	Significant Titer		
Ala.	-	-	-
Alaska	*	51	-
Ariz.	*	76	6
Ark.	1:7	206	12
Cal.	*	*	*
Colo.	*	68	8
Conn.	1:10 (z)	6,803	1,842
Del.	-	-	-
D.C.	*	557	143
Fla.	1:32	1,093	90
Ga.	1:40	4,589	1,509
Hawaii	*	249	50
Ida.	-	-	-
Ill.	(any titer)	1,533	331
Ind.	1:28	702	43
Ia.	1:64	5,197	928
Kans.	*	8	1
Ky.	1:56	358	94
La.	*	6	-
Me.	*	1,548	215
Md.	*	1,507	149
Mass.	1:80	*	351
Mich.	*	4,051	1,393
Minn.	*	21,975	10,309
Miss.	1:56	360	17
Mo.	1:5	235	32
Mont.	1:40 (z)	127	30
Nebr.	1:56	1,892	503
Nev.	1:80	23	1
N.H.	-	-	-
N.J.	-	-	-
N.M.	*	*	*
N.Y.	*	2,057	230
N.C.	1:56	621	132
N.D.	1:40	2,445	180
Ohio	1:40	296	101
Okla.	*	13	-
Ore.	*	1,251	144
Pa.	*	*	*
R.I.	1:56	62	22
S.C.	1:40	1,715	375
S.D.	*	1,025	49
Tenn.	1:2	293	58
Tex.	(any)	45	8
Utah	1:56	3,728	298 (aa)
Vt.	1:40 (z)	1,802	180
Va.	*	8,404	1,575
Wash.	1:56	55	12
W.Va.	1:112	57	13
Wisc.	1:16	3,449	1,203
Wyo.	*	266	21
Guam	*	2	1
P.R.	1:56	70	8
V.I.	-	-	-

TABLE 12-31. MISCELLANEOUS SEROLOGY  
(Continued)

	Cold Agglutinin			C-Reactive Protein	
	Minimum Significant Titer	Exams	Positives	Exams	Positives
Ala.	-	-	-	-	-
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	*	7	1	-	-
Conn.	1:32	3,847	142	-	-
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	-	-	-	-	-
Ga.	-	-	-	-	-
Hawaii	-	-	-	-	-
Ida.	-	-	-	-	-
Ill.	-	-	-	-	-
Ind.	-	-	-	-	-
Ia.	-	-	-	125	44
Kans.	-	-	-	-	-
Ky.	-	-	-	-	-
La.	-	-	-	1	-
Me.	-	-	-	-	-
Md.	-	-	-	76	*
Mass.	-	-	-	-	-
Mich.	*	8	3	-	-
Minn.	*	2,118	*	839	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	-	-	-	-	-
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	-	-	-	-
N.M.	*	*	*	*	*
N.Y.	-	-	-	383	108
N.C.	-	-	-	537	217
N.D.	*	36	-	4	-
Ohio	(any)	662	112	-	-
Okla.	*	3	3	14	2
Ore.	-	-	-	-	-
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	-	-	-	10	-
S.D.	*	1	-	-	-
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	-	-	-	-	-
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	-	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	1:128	840	143	1,719	227
Wyo.	-	-	-	-	-
Guam	-	-	-	5	-
P.R.	-	-	-	444	116
V.I.	-	-	-	69	4

TABLE 12-31. MISCELLANEOUS SEROLOGY  
(Continued)

	Rheumatoid Factor		Other	
	Exams	Positives	Exams	Positives
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	-	-	-	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	-	-	-	-
Ga.	-	-	-	-
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	256	21	-	-
Kans.	-	-	-	-
Ky.	-	-	-	-
La.	-	-	1,623	*
Me.	-	-	-	-
Md.	242	*	-	-
Mass.	-	-	-	-
Mich.	-	-	-	-
Minn.	1,663	*	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	*	*	*	*
N.Y.	814	163	1,569	438
N.C.	-	-	-	-
N.D.	-	-	-	-
Ohio	-	-	-	-
Okla.	-	-	-	-
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	-	-	-	-
S.C.	18	-	80	2
S.D.	-	-	6,035 (bb)	4,853
Tenn.	-	-	-	-
Tex.	-	-	9,589 (cc)	191
Utah	-	-	-	-
Vt.	-	-	130 (dd)	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	-	-
Wisc.	2,858	289	-	-
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	1,050	216	-	-
V.I.	46	8	-	-

TABLES 12-27 - 12-31. FOOTNOTES

- (a) Weakly reactive or above.
- (b) FTA-ABS (done on requests only).
- (c) Figure also includes special requests for FTA-ABS. The VDRL result may or may not be "positive."
- (d) FTA confirmed.
- (e) Includes Darkfield, 59 exams.
- (f) Miscellaneous Serology included with Bacterial Serology.
- (g) Referred to CDC.
- (h) Referred.
- (i) Includes CDC referrals.
- (j) Viral and Rickettsial done by contract with the New Jersey State Department of Health, Trenton, New Jersey.
- (k) Includes IgM, IgG determinations, 16 exams, 6 positives which are not shown in breakdown.
- (l) Referred to University of Nebraska Medical Center Virus Laboratory or to CDC.
- (m) Includes 131,416 specimens, 183,348 exams not shown in further breakdowns. These are as follows: RIA, 23,700 specimens, 23,700 exams; IEOP, 90,417 specimens, 104,200 exams; AGD, 5,327 specimens, 19,532 exams; RPHA, 11,972 specimens, 35,916 exams.
- (n) These figures represent total positives which include repeat testing on the same patient (not cases).
- (o) Represents Typhoid O, H.
- (p) Includes CDC Proficiency.
- (q) Slide agglutination test.
- (r) Human.
- (s) Screen with 4 slide antigens. Positives referred out for confirmation and titer.
- (t) Referred to Rocky Mountain Laboratory.
- (u) Adult level.
- (v) Vi Antigen.
- (w) Represents Streptozyme test of Wampole Laboratories which is being investigated for screening purposes. ASO will be discontinued and requests will be referred to Shodair Crippled Childrens Hospital.
- (x) Salmonella.
- (y) Salmonella typhi: 441 exams, 26 positives.
- (z) Ox Cell hemolysin.
- (aa) Dependent on absorption titers.
- (bb) Rh.
- (cc) Fluorescent Antinuclear.
- (dd) Q Fever.

TABLE 12-32. FUNGAL SEROLOGY

	Blastomycosis		Coccidioidomycosis	
	Exams	Positives	Exams	Positives
Ala.	1,434	24	1,434	3
Alaska	-	-	-	-
Ariz.	-	-	13,604	1,110
Ark.	1,966	214	1,966	6
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	-	-	-	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	-	-	-	-
Ga.	957	36	957	13
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	3,645	200	3,470	31
Ind.	1,744	113	116	4
Ia.	1,325	161	1,325	43
Kans.	648	16	650	10
Ky.	2,278	402	2,105	66
La.	1,242	85	1,279	11
Me.	-	-	-	-
Md.	1,765	*	1,765	*
Mass.	-	-	-	-
Mich.	2,504	90	2,504	15
Minn.	1,994	181	1,841	5
Miss.	1,556	123	10	-
Mo.	3,248	439	3,335	19
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	*	*	*	*
N.Y.	1,834	*	562	*
N.C.	718	13	718	1
N.D.	-	-	-	-
Ohio	1,861	53	1,882	23
Okla.	-	-	-	-
Ore.	227	8	227	9
Pa.	*	*	*	*
R.I.	-	-	-	-
S.C.	827	157	802	3
S.D.	39	-	39	-
Tenn.	-	-	-	-
Tex.	3,933	101	3,933	52
Utah	-	-	-	-
Vt.	85	-	85	-
Va.	1,399	38	1,399	13
Wash.	-	-	-	-
W.Va.	35	1	36	-
Wisc.	950	44	950	21
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	2	-	2	-



TABLE 12-32. FUNGAL SEROLOGY  
(Continued)

	Histoplasmosis					
	Mycelial		Yeast Phase		Other	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	1,434	26	1,434	88	-	-
Alaska	-	-	-	-	-	-
Ariz.	620	26	620	46	34	4
Ark.	1,966	111	1,966	330	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	957	6	957	8	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	5,402	234	5,838	670	-	-
Ind.	1,744	282	1,744	96	-	-
Ia.	1,325	89	1,325	158	-	-
Kans.	651	20	652	34	-	-
Ky.	2,263	368	2,462	710	-	-
La.	2,357	79	2,357	79	-	-
Me.	-	-	-	-	-	-
Md.	1,765	*	169	*	-	-
Mass.	-	-	-	-	-	-
Mich.	2,504	67	2,504	228	-	-
Minn.	1,994	118	1,994	343	-	-
Miss.	1,556	379 (a)	1,556	(a)	-	-
Mo.	3,248	141	3,512	478	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	1,834 (a)	*	(a)	*	471	*
N.C.	718	15	718	8	-	-
N.D.	-	-	-	-	-	-
Ohio	3,430	138	3,428	382	-	-
Okla.	-	-	-	-	-	-
Ore.	227	7	227	11	2	2
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	2,833	319	787	49	73 (b)	12
S.D.	55 (a)	-	(a)	-	-	-
Tenn.	3,247	565 (a)	3,247	(a)	-	-
Tex.	3,949	129	3,931	219	-	-
Utah	-	-	-	-	-	-
Vt.	85	2	85	2	-	-
Va.	3,538 (a)	105 (a)	(a)	(a)	-	-
Wash.	-	-	-	-	-	-
W.Va.	69	2	69	6	-	-
Wisc.	1,306	34	1,306	83	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	2	-	-	-	-	-

TABLE 12-33. PARASITOLOGICAL SEROLOGY

	Trichinosis		Toxoplasmosis		Other	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	-	-	1,448	37	147 (c)	8
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	3	-	93	11	58	1
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	60	3	1,290	572	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	549	178	-	-
Ga.	-	-	825	123	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	2,006	548	-	-
Ind.	69	12	420	181	-	-
Ia.	31	-	1,330	305	102 (d)	25
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	(e)	-	686	209	-	-
Me.	-	-	560	88	-	-
Md.	69	*	4,744	*	8 (f)	*
Mass.	-	-	-	-	-	-
Mich.	56	1	116	31	-	-
Minn.	-	-	1,587	350	-	-
Miss.	-	-	-	-	-	-
Mo.	28	-	795	88	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	204	52	717	84	-	-
N.M.	*	*	*	*	*	*
N.Y.	268	32	3,548	*	-	-
N.C.	-	-	1,123	466	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	626	214	-	-
Okla.	-	-	-	-	-	-
Ore.	28	-	507	40	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	616	76	-	-
S.D.	12	-	27	-	-	-
Tenn.	-	-	415	26	-	-
Tex.	-	-	2,118	767	49 (g)	1
Utah	-	-	-	-	-	-
Vt.	11	-	106	1	-	-
Va.	190	1	1,273	468	-	-
Wash.	-	-	-	-	-	-
W.Va.	2	-	117	45	-	-
Wisc.	-	-	1,790	372	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	5	1	-	-

TABLE 12-34. VIRAL AND RICKETTSIAL SEROLOGY: COMPLEMENT FIXATION

	Mumps		Respiratory		Influenza A	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	2,136	13	1,506	16	1,506	57
Alaska	-	-	-	-	-	-
Ariz.	-	-	2,385	22	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	664	200	-	-	450	42
Conn.	3,858	9	19,240	79	3,866	119
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	1,735	747	4,552 (h)	418	1,109	466
Ga.	318	22	2,620	106	660	71
Hawaii	728	24	1,456	17	728	31
Ida.	91	22	923	313	879	74
Ill.	1,337	52	10,959 (i)	143	3,207	179
Ind.	476	16	3,668	22	533	48
Ia.	1,224	270	3,887	938	1,892	864
Kans.	814	247	289 (j)	79	314	137
Ky.	419	11	-	-	347	24
La.	162	42	607	141	284 (k)	29 (k)
Me.	114	23	1,657	184	307	138
Md.	389	*	93	*	305	*
Mass.	9,992 (1)	10	*	35	*	14
Mich.	1,548	45	9,008	109	2,110	29
Minn.	1,104	516	-	-	1,515	1,003
Miss.	-	-	-	-	-	-
Mo.	312	-	5,717	6	-	-
Mont.	81	24	1,011	102	395	78
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	4,960	17	9,284	20	5,040	75
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	350	42	3,433	138	424	91
N.D.	380	36	-	-	300	64
Ohio	1,905	1,177	5,340	1,434	1,256	825
Okla.	260	10	125 (m)	7	-	-
Ore.	736	72	1,621	91	671	57
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	510	4	630	6	146	9
S.D.	-	-	-	-	-	-
Tenn.	484	16	2,853	24	646	24
Tex.	307	64	320	46	1,083 (k)	106 (k)
Utah	24	3	74	6	62	19
Vt.	226	4	1,459	7	207	1
Va.	315	76	185	52	300	123
Wash.	454	9	1,152	23	556	38
W.Va.	77	5	45	2	23	1
Wisc.	1,009	44	7,534	37	1,841	114
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-34. VIRAL AND RICKETTSIAL SEROLOGY: COMPLEMENT FIXATION  
(Continued)

	Influenza B		Arboviruses		Enteroviruses	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	1,506	1	1,068	5	295	*
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	412	2	213	4	880	*
Conn.	3,847	-	2,892	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	1,112	255	1,294	7	348	40
Ga.	651	11	480	5	147	42
Hawaii	728	-	1,124	5	1,072	4
Ida.	879	7	93	1	113	-
Ill.	2,392	-	1,786	-	1,811	-
Ind.	533	5	1,411	16	1,471	1
Ia.	1,901	209	1,546	15	45	4
Kans.	269	20	810	90	15	-
Ky.	344	-	258	-	51	-
La.	(k)	(k)	224	1	-	-
Me.	248	12	-	-	174	18
Md.	303	*	-	-	3,968	*
Mass.	*	1	-	-	*	1
Mich.	783	25	645	-	1,530	3
Minn.	1,510	352	58	24	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	6,719	-	-	-
Mont.	205	-	214	3	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	4,448	-	1,896	10	816	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	424	13	965	6	987	54
N.D.	300	-	380	-	-	-
Ohio	1,251	535	144	-	801	72
Okla.	-	-	74	4	24	-
Ore.	648	3	716	25	618	1
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	94	-	831	1	391	-
S.D.	-	-	-	-	-	-
Tenn.	646	3	681	-	-	-
Tex.	(k)	(k)	-	-	481	8
Utah	31	2	29	1	-	-
Vt.	207	-	452	-	339	-
Va.	297	17	-	-	-	-
Wash.	556	4	476	1	-	-
W.Va.	23	-	244	4	7	-
Wisc.	1,841	3	3,208	21	12	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-34. VIRAL AND RICKETTSIAL SEROLOGY: COMPLEMENT FIXATION  
(Continued)

	Measles		Other	
	Exams	Positives	Exams	Positives
Ala.	224	1	342 (n)	1
Alaska	-	-	-	-
Ariz.	14	-	2,960	49
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	570	8	1,568	73
Conn.	391	17	2,416	27
Del.	-	-	-	-
D.C.	-	-	3,824	2,983
Fla.	369	20	2,424 (o)	765
Ga.	119	5	1,697	194
Hawaii	929	47	3,732	46
Ida.	9	-	839	126
Ill.	-	-	991	70
Ind.	615	19	1,666	21
Ia.	121	50	1,733	406
Kans.	83	24	1,102	322
Ky.	14	-	1,705	13
La.	12	3	2,056	454
Me.	190	47	514 (p)	80
Md.	308	*	5,027	*
Mass.	*	20	*	58 (q)
Mich.	1,194	30	3,849	30
Minn.	-	-	5,027	1,980
Miss.	-	-	-	-
Mo.	376	1	-	-
Mont.	92	2	381	21
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	9,168	27	705,870	3,883
N.M.	*	*	*	*
N.Y.	-	-	-	-
N.C.	147	5	1,221 (r)	28
N.D.	-	-	-	-
Ohio	181	106	926	239
Okla.	281	6	748 (s)	22
Ore.	417	33	2,322	236
Pa.	*	*	*	*
R.I.	-	-	-	-
S.C.	253	3	854	13
S.D.	-	-	-	-
Tenn.	25	-	409	1
Tex.	171	30	1,342 (t)	142 (t)
Utah	9	-	167	32
Vt.	35	1	320	-
Va.	48	16	-	-
Wash.	150	7	550	16
W.Va.	-	-	87	14
Wisc.	968	28	2,833	78
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 12-35. VIRAL AND RICKETTSIAL SEROLOGY: HI AND/OR HADI

	Rubella		Influenza A		Influenza B	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	14,671	5	-	-	-	-
Alaska	3,708	3,050	-	-	-	-
Ariz.	3,019	2,165	-	-	-	-
Ark.	591	46	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	25,982	22,864	-	-	-	-
Conn.	1,975	15	382	106	362	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	5,316 (u)	4,266	60	15	6	-
Ga.	3,297	2,456	2	-	1	-
Hawaii	275	10	497	29	497	-
Ida.	1,829	*	13	2	-	-
Ill.	4,318 (v)	1	-	-	-	-
Ind.	156	2	-	-	-	-
Ia.	41,495	37,366	62	62	62	-
Kans.	5,391	4,572	-	-	-	-
Ky.	3,668	1,962	-	-	-	-
La.	19,981	15,685	167 (k)	63 (k)	(k)	(k)
Me.	18,641	2,007	840	291	711	15
Md.	47,437	*	121	*	121	*
Mass.	8,403	6,139	1,095	28	-	-
Mich.	16,021	*	-	-	-	-
Minn.	24,191	21,342	31	22	-	-
Miss.	1,470	*	-	-	-	-
Mo.	133,730	*	2,480	2	2,314	1
Mont.	13,903	13,217	182	83	182	-
Nebr.	-	-	-	-	-	-
Nev.	2,107	1,505	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	116,624	11,885	6,383	112	5,738	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	26,868	168	417	102	417	19
N.D.	7,723	*	-	-	-	-
Ohio	2,619	1,127	218 (k)	-	(k)	-
Okla.	440	-	274	76 (k)	274	(k)
Ore.	33,390	170	1,128	71	1,128	-
Pa.	*	*	*	*	*	*
R.I.	25,024	20,434	16	4	16	-
S.C.	26,529	5	105	13	94	-
S.D.	-	-	-	-	-	-
Tenn.	9,345	8,334	242	23	242	-
Tex.	511	301	-	-	-	-
Utah	8,437	1,266	8	2	8	-
Vt.	4,731	4,021	-	-	-	-
Va.	391	319	195	129	196	82
Wash.	5,570	27 (w)	-	-	-	-
W.Va.	2,538	1,887	142	95	142	95
Wisc.	1,629	42	302	107	18	2
Wyo.	9,144	8,380	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-35. VIRAL AND RICKETTSIAL SEROLOGY: HI AND/OR HADI  
(Continued)

	Measles		Other	
	Exams	Positives	Exams	Positives
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	-	-	-	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	-	-	12,770 (x)	346
Ga.	86	44	179	53
Hawaii	-	-	20	2
Ida.	-	-	-	-
Ill.	3,167 (y)	95	435 (z)	2 (z)
Ind.	-	-	-	-
Ia.	-	-	4,170	107
Kans.	-	-	3,952 (aa)	331
Ky.	32	13	-	-
La.	-	-	678	18
Me.	40	30	360 (bb)	98
Md.	263	*	1,306	*
Mass.	-	-	-	-
Mich.	-	-	578	3
Minn.	-	-	2,099	214
Miss.	-	-	-	-
Mo.	-	-	264 (cc)	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	16,224	195
N.M.	*	*	*	*
N.Y.	-	-	-	-
N.C.	138	8	428 (x)	4
N.D.	-	-	-	-
Ohio	-	-	10,165 (x)	-
Okla.	-	-	262	18
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	226	208	3,600 (dd)	-
S.C.	74	11	109	2
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	-	-	15,717 (ee)	614 (ee)
Utah	4	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	-	-
Wisc.	10	1	173	44
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 12-36. VIRAL AND RICKETTSIAL SEROLOGY: OTHER EXAMS

	Neutralization		FA		Australia Antigen	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	-	-	-	-	105	23
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	221	16	-	-	2,970	677
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	74	11	-	-	149	27
Ga.	388	28	-	-	1,808	75
Hawaii	320	23	-	-	179	5
Ida.	-	-	197	4	94	5
Ill.	9,345 (ff)	-	-	-	6	2
Ind.	30	21	4	-	-	-
Ia.	2,984	424	-	-	292	67
Kans.	46 (gg)	36	-	-	42	12
Ky.	2	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	59	23	24	18	933 (hh)	107
Md.	4,112	*	-	-	7,075	*
Mass.	18	18	14	11	-	-
Mich.	1,013	3	-	-	(ii)	-
Minn.	234	121	-	-	1,037	195
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	144	2
Mont.	645	*	-	-	(jj)	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	20,100	143	1,712	22	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	*	*
N.C.	2,075	338	2,205	87	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	1	1	-	-	670	121
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	(kk)	-	81	21
S.D.	-	-	-	-	-	-
Tenn.	1,071	5	-	-	-	-
Tex.	(ll)	-	79 (mm)	66	154	33
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	879	73	-	-
Wisc.	145	30	-	-	792	16
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	90	2
V.I.	-	-	926	*	542	7



TABLES 12-32 - 12-36. FOOTNOTES

- (a) Yeast phase included with Mycelial as one total.
- (b) Cryptococcal.
- (c) Amebiasis IHA.
- (d) Amebiasis, Malarial, etc. prepared for referral to CDC.
- (e) Referred to CDC.
- (f) Amebiasis.
- (g) Trypanosomiasis.
- (h) Adenoviruses, Mycoplasma, Parainfluenza 1 & 3.
- (i) 256 examinations - Illinois Veterinary Survey (Psittacosis, Q-Fever).
- (j) Adenovirus.
- (k) Influenza B included with Influenza A as one figure.
- (l) Represents total complement fixation.
- (m) Includes Mycoplasma.
- (n) Rickettsial.
- (o) Rickettsia, etc.
- (p) Herpes simplex, 130 exams, 8 positives; Rubella, 4 exams, 2 positives; Cytomegalovirus, 284 exams, 60 positives; Varicella zoster, 96 exams, 10 positives.
- (q) Herpes, 31; Varicella, 15; PLT, 12.
- (r) RMSF, Murine typhus, Q Fever, Herpes.
- (s) Herpes, Spotted Fever, Typhus, Q Fever, Psittacosis, LCM and LGV.
- (t) Includes Typhus, 508 exams, 33 positives; Q Fever, 518 exams, 36 positives; other, 316 exams, 73 positives.
- (u) Includes prenatal screening.
- (v) 2,536 examinations - Special Study Survey.
- (w) There were 27 positive results on 348 paired examinations. The remaining 5,222 examinations were performed on single specimens; therefore, a positive result could not be determined.
- (x) Arboviruses.
- (y) 2,750 examinations - Special Study Survey.
- (z) 100 examinations - Special Study Survey (California encephalitis). The 2 positives are St. Louis encephalitis.
- (aa) WEE, SLE.
- (bb) Parainfluenza.
- (cc) Mumps.
- (dd) Represents rubella specials for Epidemiology Section.
- (ee) Arboviruses, 14,682 exams, 488 positives. Also includes LGV-Psittacosis, 330 exams, 51 positives; Rickettsialpox, 353 exams, 34 positives and Rocky Mountain Spotted Fever, 352 exams, 41 positives for which type of test was not specified.

TABLES 12-32 - 12-36. FOOTNOTES  
(Continued)

- (ff) 9,345 examinations - Special Study Survey (Polio).
- (gg) ECHO, Coxsackie.
- (hh) CEP and AGD, 822 exams, 84 positives; CF, 111 exams, 23 positives.
- (ii) No routine testing; occasional tests for blood banks for confirmation.
- (jj) Referred to CDC - Phoenix station.
- (kk) Included with Rabies.
- (ll) Included in isolation exams.
- (mm) Indirect Rabies.

TABLE 12-37. HEMATOLOGY OR BLOOD BANK: TOTAL SPECIMENS AND EXAMINATIONS

	<u>Hematology</u>		<u>Immunohematology</u>		<u>Hemoglobin Electrophoresis</u>	
	<u>Specimens</u>	<u>Exams</u>	<u>Specimens</u>	<u>Exams</u>	<u>Specimens</u>	<u>Exams</u>
Ala.	3	157	11,834	13,980	14,182	16,241
Alaska	-	-	4,022	8,647	-	-
Ariz.	-	-	2,353	4,628	-	-
Ark.	2,551 (a)	1,436	(a)	4,123	55	55
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	(b)	3,982	15	23	21,225	21,225
Del.	257	554	-	-	-	-
D.C.	34,229	102,687	2,761	5,727	-	-
Fla.	57,237	57,237	23,413	23,413	-	-
Ga.	-	-	-	166,079	-	-
Hawaii	-	-	-	-	-	-
Ida.	1,660	2,761	-	-	-	-
Ill.	-	-	20	60	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	546	538	10,573	19,722	-	-
La.	1,979	1,979	-	-	-	-
Me.	-	-	9,339	10,133	-	-
Md.	34,613	84,970	18,476	34,407	21,851	21,851
Mass.	-	-	-	-	-	-
Mich.	11,050	29,669	8,198	19,434	-	-
Minn.	-	-	-	-	-	-
Miss.	40,250	48,355	(a)	12,665	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	753	2,119	801	4,806	-	-
N.H.	6,231	17,979	-	-	-	-
N.J.	26,225	26,225	1,232	1,232	106	106
N.M.	*	*	*	*	*	*
N.Y.	*	3,573	*	15,921	*	311
N.C.	357	367	-	-	-	-
N.D.	-	-	16,437	16,437	-	-
Ohio	-	-	1,212	2,423	-	-
Okla.	200	597	3,303	5,292	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	*	36,667	*	18,489	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	1,843	37,427	-	-
Tex.	-	-	-	-	-	-
Utah	*	2,400 (c)	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	5,499	10,998	-	-
Wash.	698	698	-	-	698	698
W.Va.	158	475	-	-	-	-
Wisc.	*	222	*	28,859	*	12
Wyo.	-	-	-	-	-	-
Guam	20,057	20,246	828	1,656	-	-
P.R.	23,033	72,808	5,322	9,915	-	-
V.I.	-	-	-	-	-	-

TABLE 12-38. HEMATOLOGY EXAMINATIONS

	Hematocrit	Hemoglobin	Cell Counts	Sedimentation Rate	Smears, "L-E" Cells	Smears, Sickle Cells	Other
Ala.	-	-	-	-	-	154	3 (d)
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	1,300	32	104	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	1,347	1,343	1,287	5	-	-	-
Del.	157	257	68	69	-	3	-
D.C.	34,229	34,229	34,229	-	-	-	-
Fla.	665	55,933	625	6	-	8	-
Ga.	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	1,660	-	-	1,101	-	-	-
Ill.	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	-	538	-	-	-	-	-
La.	-	698	973	305	-	3	-
Me.	-	-	-	-	-	-	-
Md.	29,836	30,146	23,137	1,268	27	556	-
Mass.	-	-	-	-	-	-	-
Mich.	5,846	10,663	11,736	1,066	-	-	358
Minn.	-	-	-	-	-	-	-
Miss.	1,340	40,017	5,848	-	-	1,150	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	740	661	686	32	-	-	-
N.H.	5,900	6,018	5,789	258	14	-	-
N.J.	13,550	12,675	-	-	-	-	-
N.M.	*	*	*	*	*	*	*
N.Y.	14	54	83	-	-	205	3,217
N.C.	324	33	10	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	200	200	194	3	-	-	-
Ore.	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-
S.C.	13,679	14,293	6,770	1,008	-	748	169
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	600	600	600	600	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-
Wash.	698	-	-	-	-	-	-
W.Va.	158	158	158	1	-	-	-
Wisc.	20	18	20	-	30	134	-
Wyo.	-	-	-	-	-	-	-
Guam	6,445	5,834	3,970	81	-	-	3,916 (e)
P.R.	22,447	22,622	26,885	448	122	284	-
V.I.	-	-	-	-	-	-	-

TABLE 12-39. IMMUNOHEMATOLOGY EXAMINATIONS

	Blood Group (ABO)	Blood Type (Rh)	Other Blood Factors	Rh Antibody	Other Antibodies
Ala.	-	13,277	-	703	-
Alaska	4,022	4,625	-	-	-
Ariz.	2,314	2,314	-	-	-
Ark.	1,718	2,223	-	182	-
Cal.	*	*	*	*	*
Colo.	-	-	-	-	-
Conn.	8	8	7	-	-
Del.	-	-	-	-	-
D.C.	2,761	2,761	-	205	-
Fla.	207	21,661	1,545	-	-
Ga.	77,459	87,740 (f)	-	880	-
Hawaii	-	-	-	-	-
Ida.	-	-	-	-	-
Ill.	40	20	-	-	-
Ind.	-	-	-	-	-
Ia.	-	-	-	-	-
Kans.	-	-	-	-	-
Ky.	-	9,861	-	9,861	-
La.	-	-	-	-	-
Me.	794	9,339	-	-	-
Md.	7,089	22,784	170	4,270	94
Mass.	-	-	-	-	-
Mich.	8,198	10,636	139	461	-
Minn.	-	-	-	-	-
Miss.	1,358	11,307	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	-	-	-	-	-
Nev.	2,403	2,403	-	-	-
N.H.	-	-	-	-	-
N.J.	590	590	-	52	-
N.M.	*	*	*	*	*
N.Y.	6,352	6,352	-	3,217	-
N.C.	-	-	-	-	-
N.D.	5,525	10,912	-	-	-
Ohio	1,211	1,212	-	-	-
Okla.	2,002	3,290	-	-	-
Ore.	-	-	-	-	-
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	357	17,819	-	-	313
S.D.	-	-	-	-	-
Tenn.	18,430	18,780	-	217	-
Tex.	-	-	-	-	-
Utah	-	-	-	-	-
Vt.	-	-	-	-	-
Va.	5,499	5,499	-	-	-
Wash.	-	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	2	12,691	8,593	7,573	-
Wyo.	-	-	-	-	-
Guam	828	828	-	-	-
P.R.	4,593	4,593	422	307	-
V.I.	-	-	-	-	-

TABLE 12-40. PATHOLOGIC ANATOMY

	Total Specimens	Total Exams	Cytology, Exfoliative		
			Specimens	Exams	Positives
Ala.	29,907 (g)	59,814	29,907	59,814	69
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	-	-	-	-	-
Conn.	-	-	-	-	-
Del.	49,447	49,447	49,447	49,447	343
D.C.	51,396	51,396	51,315	51,315	18
Fla.	-	-	-	-	-
Ga.	-	-	-	-	-
Hawaii	-	-	-	-	-
Ida.	130 (h)	130	-	-	-
Ill.	-	-	-	-	-
Ind.	-	-	-	-	-
Ia.	-	-	-	-	-
Kans.	-	-	-	-	-
Ky.	-	-	-	-	-
La.	14,011	14,011	3,889	3,889	5
Me.	-	-	-	-	-
Md.	57,210	57,210	57,210 (i)	57,210	50
Mass.	-	-	-	-	-
Mich.	-	-	-	-	-
Minn.	251	502	-	-	-
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	-	-	-	-	-
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	-	-	-	-
N.M.	*	*	*	*	*
N.Y.	*	18,588 (j)	*	12,500	*
N.C.	96,758	96,758	96,758	96,758	632
N.D.	-	-	-	-	-
Ohio	-	-	-	-	-
Okla.	(k)	-	-	-	-
Ore.	-	-	-	-	-
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	-	-	-	-	-
S.D.	-	-	-	-	-
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	-	-	-	-	-
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	-	-	-	-	-
W.Va.	22,522	38,869	22,522	38,869	44
Wisc.	149,874	160,191	135,614	135,614	1,680
Wyo.	-	-	-	-	-
Guam	6,504	6,504	6,504	6,504	367
P.R.	-	-	-	-	-
V.I.	-	-	-	-	-

TABLE 12-40. PATHOLOGIC ANATOMY  
(Continued)

	Cytology, Chromosome			Tissue, Human, Micro		Tissue, Animal, Micro	
	Specimens	Exams	Positives	Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	-	-	-	-	-	-	-
Conn.	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-
D.C.	-	-	-	81	81	-	-
Fla.	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	124	124	34	-	-	-	-
Ill.	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-
La.	-	-	-	5,146	5,146	4,976	4,976
Me.	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-
Minn.	221	442	70	17	34	13	26
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*
N.Y.	-	-	-	*	2,442	*	602
N.C.	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*
R.I.	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
Wisc.	462	7,820	98	13,749	16,708	49	49
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-

TABLE 12-41. CLINICAL CHEMISTRY: TOTAL SPECIMENS AND EXAMINATIONS

	Total Specimens	Total Exams
Ala.	95,899	105,982
Alaska	1,087	1,078
Ariz.	3,090	8,176
Ark.	20,124	23,558
Cal.	*	*
Colo.	6,327	6,327
Conn.	99,854	149,594
Del.	18,312	22,716
D.C.	27,982	53,524
Fla.	187,643	188,033
Ga.	80,229	80,642
Hawaii	4,662	4,680
Ida.	12,700	12,707
Ill.	-	-
Ind.	-	-
Ia.	4,057	5,229
Kans.	16,957	17,019
Ky.	52,523	53,474
La.	59,928	59,928
Ma.	28,972	28,911
Md.	140,788	260,681
Mass.	291,306	938,951
Mich.	142,618	188,190
Minn.	72	145
Miss.	145,304	143,964
Mo.	62,088	62,088
Mont.	11,336	11,201
Nebr.	1,103	1,103
Nev.	15,672	18,075
N.H.	35,189	39,159
N.J.	120,165	206,058
N.M.	*	*
N.Y.	*	278,990
N.C.	145,426	405,089
N.D.	13,102	13,102
Ohio	211,687	274,925
Okla.	37,839	37,759
Ore.	80,075	413,879
Pa.	*	*
R.I.	56,245	82,185
S.C.	68,330	88,617
S.D.	-	-
Tenn.	75,891	75,891
Tex.	17,590	17,754
Utah	-	7,800 (c)
Vt.	20,373	26,543
Va.	109,913	109,913
Wash.	14,908	14,908
W.Va.	37,967	158,681
Wisc.	125,453	125,453
Wyo.	-	-
Guam	4,619	4,827
P.R.	39,768	39,768
V.I.	4,074	4,133



TABLE 12-42. CLINICAL CHEMISTRY: BLOOD

	Total Blood Specimens	Total Blood Exams	Glucose	Cholesterol
Ala.	2,755	2,755	2,755	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	1,396	1,861	869	11
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	8,441	12,703	5,606	2,835
Del.	-	-	-	-
D.C.	25,252	50,374	18,908	6,229
Fla.	104,977 (1)	104,977 (1)	48,202	17,883
Ga.	7,234	7,295	5,028	2,173
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	-	-	-	-
Ky.	2,516	2,516	2,246	-
La.	1	1	-	-
Me.	-	-	-	-
Md.	57,474	62,570	20,192	1,677
Mass.	-	-	-	-
Mich.	10,218	19,059	7,721	96
Minn.	-	-	-	-
Miss.	145,304	143,964	142,809	-
Mo.	11,669	11,669	11,669	-
Mont.	1,437	1,437	-	1,437
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	10,750	13,657	7,260	203
N.J.	17,528	17,528	3,988	445
N.M.	*	*	*	*
N.Y.	*	32,424	8,931	2,361
N.C.	37,090 (m)	37,090	37,090	-
N.D.	-	-	-	-
Ohio	45,548	71,973	61,178	3,872
Okla.	3,097	3,097	1,821	1,272
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	21,873	23,273	19,659	-
S.C.	*	8,675	1,576	118
S.D.	-	-	-	-
Tenn.	12,888	12,888	12,888	-
Tex.	17,246	17,205	17,205	-
Utah	*	7,200	600	600
Vt.	20,373	26,543	17,288	3,085
Va.	18,346	18,346	18,346	-
Wash.	-	-	-	-
W.Va.	4,071	4,249	3,885	-
Wisc.	47,708	47,708	28,191	6,982
Wyo.	-	-	-	-
Guam	1,254	1,462	929	24
P.R.	39,651	39,651	17,247	2,626
V.I.	2,981	3,028	3,028	-

TABLE 12-42. CLINICAL CHEMISTRY: BLOOD  
(Continued)

	Urea Nitrogen	Uric Acid	Trans- aminase	Other
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	302	235	423	21
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	1,421	1,442	-	1,399
Del.	-	-	-	-
D.C.	18,908	17	33	6,279
Fla.	3,012	17,200	268	18,412 (n)
Ga.	-	-	-	94
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	-	-	-	-
Ky.	-	-	-	270
La.	-	-	-	1 (o)
Me.	-	-	-	-
Md.	6,998	1,474	3,263	28,966
Mass.	-	-	-	-
Mich.	8,206	174	206	2,656
Minn.	-	-	-	-
Miss.	1,155	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	6,071	123	-	-
N.J.	2,026	655	7,113	3,301
N.M.	*	*	*	*
N.Y.	8,971	8,957	799	2,405
N.C.	-	-	-	-
N.D.	-	-	-	-
Ohio	3,411	3,512	-	-
Okla.	1	1	2	-
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	-	-	-	3,614 (p)
S.C.	1,487	147	2,142	3,205
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	-	-	-	-
Utah	600	600	600	4,200
Vt.	-	3,085	-	3,085 (q)
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	-	364
Wisc.	2,173	3,436	269	6,657
Wyo.	-	-	-	-
Guam	143	99	14	253
P.R.	5,706	1,212	5,851	7,009
V.I.	-	-	-	-

TABLES 12-37 - 12-42. FOOTNOTES

- (a) Immunohematology included under Hematology.
- (b) Included under "Blood."
- (c) Part of pesticide studies.
- (d) Folic acid-deficiency anemia.
- (e) Differential.
- (f) Includes 10,273 Indirect Coombs Tests done on Rh negatives.
- (g) Patients.
- (h) Includes 6 buccal smears not shown in further breakdown.
- (i) Includes Cervical Irrigation specimens, 6,613 specimens, 6,613 exams, 1 positive.
- (j) Includes 3,044 examinations of Tissue, Gross not shown in further breakdown.
- (k) Cytology, Exfoliative performed by University of Oklahoma Health Science Center through contractual arrangement with State Health Department.
- (l) Includes 15,801 specimens on which glucose, cholesterol, uric acid and triglyceride tests were performed as part of Coronary Heart Disease Screening Program.
- (m) Most of these are in support of diabetes screening program.
- (n) Triglycerides, 16,165; other, 2,247.
- (o) Lead.
- (p) Hemoglobin, 1,400; Bilirubin, 337; Lead, 1,877.
- (q) Creatinine.

TABLE 12-43. CLINICAL CHEMISTRY: URINE AND OTHER

	Urine		Other Clinical Chemistry	
	Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	3,090	8,176	-	-
Ark.	437	3,469	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	10,852	11,251	3,773	6,426
Del.	1,101	5,505	62 (a)	62
D.C.	-	-	-	-
Fla.	4,447	4,447	-	-
Ga.	-	-	-	-
Hawaii	4,662 (b)	4,680	-	-
Ida.	16 (c)	23	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	370 (b)	370	-	-
Ky.	381	1,255	349	349
La.	4 (d)	4	-	-
Me.	-	-	-	-
Md.	23,483 (e)	23,483	142 (f)	142
Mass.	-	-	-	-
Mich.	9,409	32,846	32	321
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	440	2,843	-	-
N.H.	5,779	5,842	493	493
N.J.	-	-	12,255	12,255
N.M.	*	*	*	*
N.Y.	*	802	-	-
N.C.	19	83	-	-
N.D.	-	-	-	-
Ohio	6	6	-	-
Okla.	62	60	-	-
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	18,366 (g)	18,366	1,669 (h)	1,669
S.C.	28,754	40,369	104	101
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	-	-	-	-
Utah	*	600	-	-
Vt.	-	-	-	-
Va.	-	-	9	9
Wash.	-	-	-	-
W.Va.	380	380	-	-
Wisc.	744	744	126	126
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	117	117	-	-
V.I.	12	24	-	-

TABLE 12-44. CLINICAL CHEMISTRY: PHENYLKETONURIA AND OTHER INBORN ERRORS

	PKU			Other Inborn Errors		
	Specimens	Exams	Positives (1)	Specimens	Exams	Positives
Ala.	88,055	89,797	2 (j)	5,089	13,430	-
Alaska	588	588	-	499 (k)	490	-
Ariz.	-	-	-	-	-	-
Ark.	18,291	18,228	220	-	-	-
Cal.	*	*	*	*	*	*
Colo.	6,327	6,327	12	-	-	-
Conn.	76,469	76,469	4	(1)	42,426	-
Del.	17,149 (m)	17,149	4	-	-	-
D.C.	-	-	-	2,730	3,150	999
Fla.	78,219	78,609	390	-	-	-
Ga.	72,995	73,347	390	-	-	-
Hawaii	(n)	-	-	-	-	-
Ida.	12,684	12,684	1	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	4,057	5,229	586	-	-	-
Kans.	16,587	16,649	43 (o)	-	-	-
Ky.	38,509	38,509	85	-	-	-
La.	59,923	59,923	230	-	-	-
Me.	28,972	28,911	2	-	-	-
Md.	59,689	59,689	17	(p)	114,797 (q)	-
Mass.	83,611	83,611	12	207,695	855,340	202
Mich.	109,543	109,543	22	-	-	-
Minn.	72	145	6	-	-	-
Miss.	-	-	-	-	-	-
Mo.	50,419	50,419	51	-	-	-
Mont.	9,899	9,764	-	-	-	-
Nebr.	1,103	1,103	1	-	-	-
Nev.	15,232	15,232	*	-	-	-
N.H.	18,167	19,167	1	-	-	-
N. J.	90,382	176,275	584	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	*	82,720	*	*	163,044 (r)	*
N.C.	88,677	88,243	5	-	669	-
N.D.	13,102	13,102	91	-	-	-
Ohio	166,133	166,382	40	-	16,356	10
Okla.	34,680	34,602	414	-	-	-
Ore.	80,075	80,075	435	-	333,804	557
Pa.	*	*	*	*	*	*
R.I.	14,337	14,337	*	-	24,540	*
S.C.	39,472	39,472	124	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	63,003	63,003	99	-	-	-
Tex.	344 (s)	549	*	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	91,558	91,558	400	-	-	-
Wash.	14,908	14,908	10	-	-	-
W. Va.	22,234	22,028	45	155	155	3
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	3,365	3,365	5	-	-	-
P.R.	-	-	-	-	-	-
V.I.	1,081	1,081	-	-	-	-

TABLE 12-45. CLINICAL CHEMISTRY:  
MULTIPHASIC SCREENING

	Specimens	Exams
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	319	319
Del.	-	-
D.C.	-	-
Fla.	(t)	(t)
Ga.	-	-
Hawaii	-	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	-	-
Ky.	10,768	10,845
La.	-	-
Me.	-	-
Md.	-	-
Mass.	-	-
Mich.	13,416	26,421
Minn.	-	-
Miss.	-	-
Mo.	-	-
Mont.	-	-
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	-	-
N.M.	*	*
N.Y.	*	*
N.C.	19,640	279,004 (u)
N.D.	-	-
Ohio	(t)	20,208
Okla.	-	-
Ore.	-	-
Pa.	*	*
R.I.	-	-
S.C.	-	-
S.D.	-	-
Tenn.	-	-
Tex.	-	-
Utah	-	-
Vt.	-	-
Va.	-	-
Wash.	-	-
W.Va.	11,127	131,869
Wisc.	76,875	76,875
Wyo.	-	-
Guam	-	-
P.R.	-	-
V.I.	-	-

TABLE 12-46. SANITARY AND ENVIRONMENTAL  
MICROBIOLOGY: TOTAL SPECIMENS AND EXAMINATIONS

	Total Specimens (v)	Total Exams
Ala.	109,454	307,001
Alaska	10,789	11,390
Ariz.	35,701	44,015
Ark.	43,974	53,743
Cal.	*	*
Colo.	21,638	39,192
Conn.	28,319	68,179
Del.	5,790	23,923
D.C.	2,819	7,656
Fla.	182,016	230,512
Ga.	15,733	29,099
Hawaii	9,415	22,576
Ida.	29,031	47,589
Ill.	49,748	79,688
Ind.	48,381	71,285
Ia.	46,096	157,255
Kans.	50,849	53,333
Ky.	36,694	73,539
La.	215,643	215,643
Me.	26,255	32,816
Md.	72,659	125,561
Mass.	23	*
Mich.	88,576	120,108
Minn.	57	228
Miss.	69,286	174,046
Mo.	74,246	110,819
Mont.	12,763	15,347
Nebr.	21,509	21,597
Nev.	19,724	34,274
N.H.	-	-
N.J.	19,523	36,043
N.M.	*	*
N.Y.	17,491	37,258
N.C.	39,144	183,630
N.D.	24,523	52,621
Ohio	64,049	65,852
Okla.	53,999	53,907
Ore.	39,762	51,819
Pa.	*	*
R.I.	4,617	12,596
S.C.	70,154	95,076
S.D.	16,212	29,260 (w)
Tenn.	16,160	16,160
Tex.	26,636	35,043
Utah	19,876	24,672
Vt.	20,084	21,304
Va.	71,941	71,941
Wash.	16,294	26,775
W.Va.	27,516	37,146
Wisc.	65,005	146,320
Wyo.	8,345	8,906
Guam	1,024	3,521
P.R.	15,520	27,358
V.I.	2,700	6,067

TABLES 12-43 - 12-46. FOOTNOTES

- (a) EKG - State Police exams.
- (b) INH.
- (c) Drugs.
- (d) Lead and mercury.
- (e) Urinalysis routine, 1,799; urinalysis, complete, 16,448; pregnancy tests, 4,695; other urine tests, 541.
- (f) Feces.
- (g) Including Dry-Paks.
- (h) Hair lead.
- (i) 4 mg. % or above.
- (j) Confirmed.
- (k) Includes maple-syrup urine disease.
- (l) Included under PKU.
- (m) Blood, 9,265; urine, 7,884.
- (n) Contracted out to hospital laboratory.
- (o) 4 confirmed cases.
- (p) Included with urine.
- (q) Galactosemia, G-6-PD, histidine, maple-syrup urine, methionine.
- (r) Maple-syrup urine disease, 82,437; galactosemia, 80,607.
- (s) Laboratory runs suspected positive PKU's for confirmation and then monitors known cases.
- (t) Included with "Blood."
- (u) Includes examinations made for Renal Program and for several State Institutions.
- (v) Includes Stream Pollution.
- (w) Includes 734 Membrane Filter exams not broken down by type specimen.

TABLE 12-47. SANITARY MICROBIOLOGY: WATER

	Total Specimens	Total Exams	Drinking Water	
			Standard Plate Count (on finished water)	Positives Coliforms      Iron Bacteria
Ala.	46,170	52,002 (a)	5,582	5,771      -
Alaska	10,604	10,744	140	1,210      -
Ariz.	32,493	33,349	-	1,084      -
Ark.	34,647	31,509	-	5,707      -
Cal.	*	*	*	*      *
Colo.	14,758	16,233	-	-      -
Conn.	6,302	7,094	-	764      -
Del.	4,242	4,342	4,342	366      -
D.C.	954	1,908	-	-      -
Fla.	120,479	120,479	-	*      -
Ga.	-	-	-	-      -
Hawaii	2,855	4,951	-	353      -
Ida.	18,142	18,463	-	2,171      -
Ill.	22,287	22,287	-	9,087      12
Ind.	29,348 (b)	29,348	20	2,322      -
Ia.	36,665	109,995	234	6,122      293
Kans.	35,329 (c)	35,329	-	2,665      -
Ky.	24,069	30,307	-	5,407      -
La.	51,617	51,617	-	-      -
Me.	24,680	31,241	-	4,000      -
Md.	30,608	40,966	493	-      -
Mass.	-	-	-	-      -
Mich.	62,445	73,720	-	6,650      -
Minn.	-	-	-	-      -
Miss.	32,361	34,303	-	*      -
Mo.	65,232	66,831	410	3,348      -
Mont.	12,139	14,404	-	1,203      -
Nebr.	17,601	17,601	-	1,621      -
Nev.	14,872	15,604	-	2,166      -
N.H.	-	-	-	-      -
N.J.	8,784	13,440	116	1,025      -
N.M.	*	*	*	*      *
N.Y.	15,199	30,398	*	*      *
N.C.	35,988	179,487	-	5,034      61
N.D.	6,006	6,606	3,788	-      -
Ohio	61,664	51,664	-	12,132      -
Okla.	35,508	35,438	-	*      -
Ore.	32,333	35,021	-	4,842      -
Pa.	*	*	*	*      *
R.I.	-	-	-	-      -
S.C.	40,940	41,945	-	2,794      -
S.D.	14,619 (d)	17,133	-	-      -
Tenn.	8,586	8,586	-	2,387      -
Tex.	22,791	25,213	-	2,428      8
Utah	16,308	16,469	-	2,513      -
Vt.	18,864	18,864	-	1,886      -
Va.	53,217	53,217	-	-      -
Wash.	13,884	20,904	506	*      *
W.Va.	19,699	19,699	-	2,798      -
Wisc.	55,334	53,024	-	7,418      -
Wyo.	8,056	8,617	-	445      -
Guam	17	85	-	-      -
P.R.	6,542	6,542	-	-      -
V.I.	1,413	1,413	-	148      -



TABLE 12-47. SANITARY MICROBIOLOGY: WATER  
(Continued)

	Source of Raw Water for Treatment		Swimming Pools		Recreational Water	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	1,986	445	170	246	11	33
Alaska	-	-	60	60	42	42
Ariz.	-	-	264	264	-	-
Ark.	-	-	2,102	2,102	-	-
Cal.	*	*	*	*	*	*
Colo.	2,125	3,985	-	-	-	-
Conn.	92	135	378	866	4,645	6,212
Del.	197	4,728	(e)	-	-	-
D.C.	-	-	58	116	-	-
Fla.	22,081 (f)	44,162	13,431	13,431	(f)	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	77	199	3,288	8,431
Ida.	-	-	1,260	2,209	-	-
Ill.	-	-	15,170	30,340	632	1,264
Ind.	-	-	3,172	6,344	703	703
Ia.	107	535	1,054	3,162	28	84
Kans.	1,400	1,400	2,531	2,531	705	2,105
Ky.	-	-	(g)	-	193	193
La.	6,964	6,964	7,029	7,029	3,837	3,837
Me.	-	-	1,300	1,300	275	275
Md.	20,681 (h)	38,325 (h)	(g)	-	3,328	5,630
Mass.	-	-	-	-	-	-
Mich.	337	337	4,875	9,497	382	584
Minn.	-	-	-	-	-	-
Miss.	(i)	-	-	-	528	1,011
Mo.	-	-	1,714	1,690	-	-
Mont.	307	614	12	24	-	-
Nebr.	-	-	-	-	2,084	2,172
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	161	246	1,143	1,943
N.M.	*	*	*	*	*	*
N.Y.	*	*	(g)	-	448	1,344
N.C.	-	-	-	-	-	-
N.D.	-	-	724	1,448	-	-
Ohio	-	-	314	314	1,644	2,224
Okla.	43 (f)	43	3,176	3,176	(f)	-
Ore.	-	-	-	-	4,058	11,356
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	12,202	13,537	-	-
S.D.	-	-	-	-	(j)	276
Tenn.	-	-	652	652	193	193
Tex.	-	-	(j)	-	-	-
Utah	-	-	1,983	3,937	-	-
Vt.	-	-	200	400	1,000	2,000
Va.	-	-	-	-	-	-
Wash.	678	1,688	220	440	207	501
W.Va.	718 (f)	2,154	1,649	1,649	(f)	-
Wisc.	-	-	1,007	1,007	3,555	4,264
Wyo.	-	-	-	-	-	-
Guam	-	-	95	115	-	-
P.R.	210	210	173	346	38	38
V.I.	354	708	4	8	4	8

TABLE 12-48. SANITARY MICROBIOLOGY: DAIRY PRODUCTS

	Milk and Cream		Frozen Desserts		Other Dairy Products	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	32,376	163,529	22,556	68,898	2,264	4,971
Alaska	-	-	-	-	-	-
Ariz.	2,577	9,391	-	-	-	-
Ark.	3,668	7,592	594	1,229	535	1,107
Cal.	*	*	*	*	*	*
Colo.	4,017 (k)	17,498 (k)	(k)	(k)	(k)	(k)
Conn.	9,930	39,725	1,218	2,436	599	1,608
Del.	1,003	3,608	111	222	-	-
D.C.	713	1,426	232	464	93	186
Fla.	10,592	21,184	5,613	11,226	1,830	3,660
Ga.	15,363	28,319	-	-	-	-
Hawaii	1,012	3,297	986	1,972	295	295
Ida.	4,423	16,990	-	-	133 (1)	257
Ill.	8,697	17,218	-	-	-	-
Ind.	4,916	14,971	1,527	5,170	1,092	2,835
Ia.	5,719	28,595	367	1,835	412	1,648
Kans.	7,063	7,063	1,268	1,268	1,358	1,358
Ky.	11,541 (k)	37,691 (k)	(k)	(k)	(k)	(k)
La.	74,556	74,556	31,339	31,339	31,159	31,159
Me.	-	-	-	-	-	-
Md.	10,399	22,796	3,139	6,244	835	1,486
Mass.	-	-	-	-	-	-
Mich.	6,432	9,973	48	96	63	126
Minn.	-	-	-	-	-	-
Miss.	35,956 (k)	137,642 (k)	(k)	(k)	(k)	(k)
Mo.	4,444	18,896	29	164	-	-
Mont.	256	256	49	49	-	-
Nebr.	-	-	-	-	-	-
Nev.	4,007	11,353	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	3,136	6,272	2	4	2	4
N.M.	*	*	*	*	*	*
N.Y.	1,828	5,484	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	7,969	25,376	2,471	4,942	-	-
Ohio	172	595	-	-	-	-
Okla.	14,150	14,128	-	-	134	134
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	17	34	-	-	11	33
S.C.	10,471	27,475	895	2,055	437	718
S.D.	1,593	6,618	-	-	-	-
Tenn.	5,219	5,219	754	754	586	586
Tex.	2,281 (k)	7,757 (k)	(k)	(k)	(k)	(k)
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	10,563	10,563	7,940	7,940	221	221
Wash.	161	607	53	53	12	12
W.Va.	5,392	13,452	-	-	10	17
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	365	1,080	238	714	69	345
P.R.	2,562	7,686	327	654	-	-
V.I.	247	1,677	15	88	-	-

TABLE 12-49. SANITARY MICROBIOLOGY: FOODS

	Food Quality		Food-Associated Disease Outbreaks		Shellfish	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	1,927	5,782	130	646	1,097	3,577
Alaska	-	-	76	397	-	-
Ariz.	-	-	287	871	-	-
Ark.	508 (m)	5,322 (m)	(m)	(m)	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	-	-	-	-
Conn.	432	432	712	2,181	2,273 (n)	4,572
Del.	-	-	70	630	150 (o)	6,000 (o)
D.C.	537	2,685	-	-	25	250
Fla.	1,863	7,452	841	3,364	61	183
Ga.	-	-	348	719	22	61
Hawaii	45	1,083	249	661	20	236
Ida.	1,364 (m)	5,041 (m)	(m)	(m)	-	-
Ill.	2,655	7,965	-	-	-	-
Ind.	1,113	1,682	98	303	87	93
Ia.	-	-	35	280	-	-
Kans.	49	49	122	122	1	1
Ky.	333	4,790	-	-	-	-
La.	1,517	1,517	149	149	1,369	1,369
Me.	-	-	-	-	-	-
Md.	501	2,283	8	8	1,951 (p)	5,799
Mass.	-	-	23	*	-	-
Mich.	-	-	199	689	-	-
Minn.	-	-	57	228	-	-
Miss.	-	-	20	20	421	1,070
Mo.	72	2,222	38	1,969	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	411	2,843	50	250	-	-
N.H.	-	-	-	-	-	-
N.J.	367	2,390	274	2,016	(q)	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	*	*	*	*
N.C.	-	-	-	-	2,671 (r)	3,658
N.D.	-	-	-	-	-	-
Ohio	-	-	221	980	-	-
Okla.	332 (m)	332 (m)	(m)	(m)	-	-
Ore.	-	-	-	-	471	942
Pa.	*	*	*	*	*	*
R.I.	3,699	11,097	83	249	185	555
S.C.	3,279	5,507	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	2	2
Utah	-	-	47	188	-	-
Vt.	-	-	20	40	-	-
Va.	-	-	-	-	-	-
Wash.	51	51	293	681	432 (s)	1,050 (s)
W.Va.	3	3	26	133	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	31	185	10	475	1	1
P.R.	270	810	49	343	-	-
V.I.	-	-	-	-	-	-

TABLE 12-49. SANITARY MICROBIOLOGY: FOODS  
(Continued)

	Beverages		Utensil Counts	
	Specimens	Exams	Specimens	Exams
Ala.	15	30	30	30
Alaska	-	-	-	-
Ariz.	-	-	12	12
Ark.	1,481	4,443	334	334
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	14	26	436	436
Del.	17	51	-	-
D.C.	-	-	-	-
Fla.	(j)	-	5,185	5,185
Ga.	-	-	-	-
Hawaii	-	-	34	68
Ida.	-	-	491	981
Ill.	-	-	237	475
Ind.	1,220	2,186	-	-
Ia.	-	-	754	754
Kans.	-	-	193	193
Ky.	558	558	-	-
La.	-	-	2,423	2,423
Me.	-	-	-	-
Md.	-	-	1,149	1,310
Mass.	-	-	-	-
Mich.	-	-	923	1,318
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	2,405	16,258	93	93
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	*	*	*	*
N.Y.	-	-	-	-
N.C.	-	-	-	-
N.D.	-	-	867	867
Ohio	-	-	-	-
Okla.	-	-	656	656
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	3	9	402	402
S.C.	-	-	402	783
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	-	-	509	1,018
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	1	3	18 (t)	36
Wisc.	-	-	-	-
Wyo.	-	-	-	-
Guam	155	465	13	26
P.R.	192	576	4,996	9,992
V.I.	3	5	480	1,440

TABLES 12-47 - 12-49. FOOTNOTES

- (a) Includes project - private wells, 174 exams.
- (b) Includes private wells.
- (c) Of this total, 30,418 samples with 557 positives were collected from distribution systems of Kansas Public Water Supply Systems. Remaining samples are private water supplies.
- (d) Represents total water specimens.
- (e) Swimming pools tested same as drinking water and included in total.
- (f) Recreational Water included with Source of Raw Water for Treatment.
- (g) Included in Recreational Water.
- (h) Includes Shellfish Waters, 11,113 specimens, 19,540 exams.
- (i) Not tabulated separately.
- (j) Included with Drinking Water.
- (k) "Frozen Desserts" and "Other Dairy Products" included with "Milk and Cream."
- (l) Dry Milk, 15 specimens, 28 exams; Cartons, 118 specimens, 229 exams.
- (m) Food-Associated Disease Outbreaks included with Food Quality.
- (n) Shellfish, 26 specimens; shellfish bearing waters, 2,247 specimens.
- (o) Shellfish, 75 specimens, 3,000 exams; shellfish water, 75 specimens, 3,000 exams.
- (p) Also includes crabs.
- (q) Shellfish are now examined by Department of Environmental Protection Laboratory at Leed's Point.
- (r) Figures do not include test of shellfish growing waters.
- (s) Bacteriological, 37 specimens, 111 exams; toxicity, 124 specimens, 126 exams; shellfish growing areas, 271 specimens, 813 exams.
- (t) Pasteurized milk containers.

TABLE 12-50. SANITARY AND ENVIRONMENTAL MICROBIOLOGY: STREAM POLLUTION

	Specimens	Exams	Positives			
			Algae	Coliforms	Fecal Coliforms	Fecal Streptococcus
Ala.	508	1,016	-	265	261	-
Alaska	-	-	-	-	-	-
Ariz.	68	128	-	-	7	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	738	1,476	-	-	-	-
Conn.	471	1,402	4	-	-	-
Del.	-	-	-	-	-	-
D.C.	207	621	-	-	-	-
Fla.	(a)	-	-	-	-	-
Ga.	-	-	-	-	-	-
Hawaii	382	764	-	381	381	-
Ida.	3,218	3,648	-	-	110	-
Ill.	-	-	-	-	-	-
Ind.	5,105	7,630	-	2,248	4,879	503
Ia.	955	10,133	(b)	(b)	(b)	(b)
Kans.	542	1,626	10	400	400	400
Ky.	-	-	-	-	-	-
La.	3,656	3,656	-	-	-	-
Me.	(c)	-	-	-	-	-
Md.	(a)	-	-	-	-	-
Mass.	(d)	-	-	-	-	-
Mich.	12,872	23,768	-	4,772	2,644	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	219	2,286	-	219	158	-
Mont.	*	*	*	*	*	*
Nebr.	1,824	1,824	-	-	*	-
Nev.	384	4,224	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	5,654	9,612	-	3,724	3,418	-
N.M.	*	*	*	*	*	*
N.Y.	16	32	*	*	*	*
N.C.	485	485	-	422	38	-
N.D.	444	3,552 (e)	-	474	324	-
Ohio	34	75	-	-	-	-
Okla.	(f)	-	-	-	-	-
Ore.	2,900	4,500	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	(g)	4,499	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	1,053	1,053	-	1,053	1,000	-
Utah	1,538	4,078	-	1,271	852	-
Vt.	(h)	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	32	32	32	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	5,109	88,025	104	623	2,512	-
Wyo.	289	289	-	-	226	-
Guam	-	-	-	-	-	-
P.R.	113	113	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-51. SANITARY AND ENVIRONMENTAL MICROBIOLOGY: ENVIRONMENTAL EXAMS AND MISCELLANEOUS

	Environmental (i)		Miscellaneous	
	Specimens	Exams	Specimens	Exams
Ala.	214	214	-	-
Alaska	7	7	-	-
Ariz.	-	-	-	-
Ark.	105	105	-	-
Cal.	*	*	*	*
Colo.	-	-	-	-
Conn.	200	206	617 (j)	848 (j)
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	(k)	-	40 (l)	186
Ga.	-	-	-	-
Hawaii	172	619	-	-
Ida.	-	-	-	-
Ill.	70	139	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	288	288	-	-
Ky.	-	-	-	-
La.	28	28	-	-
Me.	-	-	-	-
Md.	60	221	-	-
Mass.	-	-	-	-
Mich.	-	-	-	-
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	*	*	*	*
N.Y.	*	*	*	*
N.C.	-	-	-	-
N.D.	6,042	6,042	-	-
Ohio	-	-	-	-
Okla.	-	-	-	-
Ore.	(m)	-	-	-
Pa.	*	*	*	*
R.I.	217	217	-	-
S.C.	1,528 (n)	3,056	-	-
S.D.	-	-	-	-
Tenn.	170	170	-	-
Tex.	-	-	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	271	250	-	-
W.Va.	-	-	-	-
Wisc.	-	-	-	-
Wyo.	-	-	-	-
Guam	-	-	30 (o)	30
P.R.	48	48	-	-
V.I.	180	720	-	-

TABLE 12-52. SANITARY AND ENVIRONMENTAL CHEMISTRY:  
TOTAL SPECIMENS AND EXAMINATIONS

	Total Specimens	Total Exams
Ala.	31,554	73,118
Alaska	5,674	9,941
Ariz.	2,058	30,561
Ark.	4,797	9,509
Cal.	*	*
Colo.	4,056	40,471
Conn.	35,148	159,803
Del.	(p)	-
D.C.	3,623	15,310
Fla.	22,011	45,435
Ga.	-	14,476
Hawaii	4,681	15,281
Ida.	3,170	40,041
Ill.	52,060	55,468
Ind.	18,011	77,602
Ia.	25,448	63,165
Kans.	14,515	45,435
Ky.	3,271	12,470
La.	9,669	37,860
Me.	14,528	33,983
Md.	33,574	108,696
Mass.	(d)	-
Mich.	50,908	54,077
Minn.	-	-
Miss.	635	635
Mo.	6,045	19,525
Mont.	2,509	3,261
Nebr.	3,900	29,411
Nev.	6,953	52,633
N.H.	-	-
N.J.	8,814	78,609
N.M.	*	*
N.Y.	7,064	170,395
N.C.	6,961	11,843
N.D.	1,334	7,525
Ohio	7,166	101,757
Okla.	15,290	17,269
Ore.	(m)	-
Pa.	*	*
R.I.	5,055	35,385
S.C.	8,551	20,109
S.D.	4,219	9,168
Tenn.	-	-
Tex.	19,109	156,009
Utah	3,813	80,642
Vt.	3,718	25,814
Va.	12,840	64,470
Wash.	2,935	31,905
W.Va.	-	-
Wisc.	32,600	47,001
Wyo.	-	-
Guam	-	-
P.R.	9,212	52,064
V.I.	51	337

TABLE 12-53. SANITARY CHEMISTRY:  
DRINKING WATER

	Total Specimens	Complete Analysis
Ala.	24,425	-
Alaska	1,150	5,417
Ariz.	1,607	28,464
Ark.	-	-
Cal.	*	*
Colo.	1,108	12,838
Conn.	8,839	40,692
Del.	-	-
D.C.	517	8
Fla.	11,134	23,681 (q)
Ga.	-	-
Hawaii	102	2,503
Ida.	356	-
Ill.	24,827	-
Ind.	4,465	11,690
Ia.	21,105	17,809
Kans.	9,300	14,400
Ky.	2,184	-
La.	615	6,552
Me.	14,528	14,528
Md.	13,044	-
Mass.	-	-
Mich.	45,948	4,569
Minn.	-	-
Miss.	635	95
Mo.	2,825	8,188
Mont.	2,417	403
Nebr.	2,047	7,997
Nev.	2,014	25,743
N.H.	-	-
N.J.	2,345	12,600
N.M.	*	*
N.Y.	3,955	79,100 (q)
N.C.	6,418	3,057 (r)
N.D.	792	-
Ohio	2,231	63,822 (q)
Okla.	607 (s)	-
Ore.	-	-
Pa.	*	*
R.I.	-	-
S.C.	2,242	2,242
S.D.	4,219	182
Tenn.	-	-
Tex.	6,558	71,500
Utah	749	30,211
Vt.	3,718	20,214
Va.	12,840	12,840
Wash.	2,843	31,754 (q)
W.Va.	-	-
Wisc.	14,600	2,520
Wyo.	-	-
Guam	-	-
P.R.	1,994	11,771
V.I.	45	287



TABLE 12-53. SANITARY CHEMISTRY: DRINKING WATER  
(Continued)

	Partial Analysis				
	Nitrate	Iron	Fluorides	Hardness	Other
Ala.	-	-	530	-	36,674 (t)
Alaska	-	-	-	-	-
Ariz.	48	8	14	91	481
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	890	511	689	521	-
Conn.	78	-	3,082	-	12,134
Del.	-	-	-	-	-
D.C.	-	-	464	1,004	-
Fla.	*	*	*	*	*
Ga.	-	-	-	-	-
Hawaii	-	-	-	-	-
Ida.	356	356	576	356	3,633
Ill.	16,744	-	7,776	-	304
Ind.	447	690	4,131	534	5,888
Ia.	21,014	8,114	1,568	3,806	1,623
Kans.	4,370	950	4,000	950	2,000 (u)
Ky.	9,397 (v)	(v)	(v)	(v)	(v)
La.	78	21	523	2	480
Me.	2,427	2,500	14,528	-	-
Md.	2,097	3,474	3,884	3,413	25,898 (w)
Mass.	-	-	-	-	-
Mich.	41,200 (v)	(v)	(v)	(v)	(v)
Minn.	-	-	-	-	-
Miss.	71	-	396	-	73
Mo.	521	371	1,436	277	4,489
Mont.	442	461	618	408	85
Nebr.	840	71	480	312	271
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	342	1,102	108	384	3,078
N.M.	*	*	*	*	*
N.Y.	*	*	*	*	*
N.C.	39	(r)	5,762	(r)	2,367
N.D.	2,218 (x)	614	769	614	1,842
Ohio	*	*	>793	*	*
Okla.	539	13	448	544	1,064 (y)
Ore.	-	-	-	-	-
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	-	2,312	1,020	-	504
S.D.	2,417	597	1,582	873	3,517
Tenn.	-	-	-	-	-
Tex.	10	145	1,520	15	1,080
Utah	2,219	680	1,605	641	26,325
Vt.	5,600 (v)	(v)	(v)	(v)	(v)
Va.	12,840	12,840	255	12,840	15
Wash.	*	*	*	*	*
W.Va.	-	-	-	-	-
Wisc.	9,212	1,183	3,246	-	5,057
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	298	469	470	294	10,240
V.I.	-	-	-	41	3

TABLE 12-54. SANITARY CHEMISTRY: MISCELLANEOUS

	Swimming Water		Dairy Products		Food	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	76	170	7,053	35,744	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	67	175
Ark.	-	-	4,797	9,509	-	-
Cal.	*	*	*	*	*	*
Colo.	-	-	620	620	1,590	3,577
Conn.	353	704	11,014	17,457	141	811
Del.	-	-	-	-	-	-
D.C.	-	-	660	3,033	2,446	10,801
Fla.	(g)	-	10,592	21,184	135	270
Ga.	-	-	(z)	14,476	-	-
Hawaii	838	4,298	1,904	5,458	1,563 (aa)	1,774 (aa)
Ida.	-	-	-	-	17	50
Ill.	15,827	15,190	8,697	9,661 (bb)	2,305	5,161
Ind.	-	-	7,535	12,567	2,373	9,525
Ia.	4	12	860	1,720	2	8
Kans.	1,800	3,600	-	-	215	215
Ky.	-	-	-	-	91	265
La.	-	-	4,044	14,928	2,258	7,599
Me.	-	-	-	-	-	-
Md.	-	-	12,779	26,825	4,032 (cc)	17,688
Mass.	-	-	-	-	-	-
Mich.	-	-	4,960	8,308	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	(z)	(z)	(z)	(z)
Mo.	-	-	818	1,053	400	1,188
Mont.	-	-	-	-	28	28
Nebr.	-	-	-	-	-	-
Nev.	-	-	2,340	2,846	585	1,890
N.H.	-	-	-	-	-	-
N.J.	*	*	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	3	*	65	65	*	*
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	243	992	-	-	13	71
Okla.	-	-	14,150	14,128	457	457
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	31	217	5,024	35,168
S.C.	-	-	6,309	14,031	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	20	30	2,160	3,750	1,831	9,340
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	31	78
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	4,027	10,175	984	3,341
V.I.	-	-	-	-	-	-

TABLE 12-54. SANITARY CHEMISTRY: MISCELLANEOUS  
(Continued)

	Miscellaneous		Types of Tests
	Specimens	Exams	
Ala.	-	-	
Alaska	-	-	
Ariz.	292	600	Distilled and boiler water from laboratories and hospitals; samples from Game and Fish Department for nitrogen, phenol, oil, pesticides, toxaphene, etc.; water for mercury, kerosene, lead, arsenic; blood lead; "love beads" for cadmium; calibrate thermometers; paint scrapings - lead; Mexican dolls - lead in paint; aflatoxins; pottery for lead; sulfite in meat.
Ark.	-	-	
Cal.	*	*	
Colo.	-	-	
Conn.	12,992	67,790	Accuracy tests on clinical thermometers; tests for hydrocarbons and metals; physical examinations on sand; lead determinations on paint chips; pesticide determinations.
Del.	-	-	
D.C.	-	-	
Fla.	150	300	
Ga.	-	-	
Hawaii	-	-	
Ida.	-	-	
Ill.	404	632	
Ind.	-	-	
Ia.	-	-	
Kans.	-	-	
Ky.	260	260	
La.	798	2,026	
Me.	-	-	
Md.	83	83	Thermometer calibrations.
Mass.	-	-	
Mich.	-	-	
Minn.	-	-	
Miss.	-	-	
Mo.	2,002	2,002	
Mont.	5	5	
Nebr.	-	-	
Nev.	-	-	
N.H.	-	-	
N.J.	-	-	
N.M.	*	*	
N.Y.	*	*	
N.C.	63	138	Sand and rocks for filters.
N.D.	-	-	
Ohio	301	396	
Okla.	76	76	
Ore.	-	-	
Pa.	*	*	
R.I.	-	-	
S.C.	-	-	
S.D.	-	-	
Tenn.	-	-	
Tex.	93	207	Dinnerware, food containers, food additives.
Utah	-	-	
Vt.	-	-	
Va.	-	-	
Wash.	61	73	Nickel, chromium, zinc, tin, phosphate, cadmium, copper.
W. Va.	-	-	
Wisc.	-	-	
Wyo.	-	-	
Guam	-	-	
P.R.	10	258	
V.I.	-	-	

TABLES 12-50 - 12-54. FOOTNOTES

- (a) Included in Raw Water.
- (b) Positives included in other sections.
- (c) Responsibility of Department of Environmental Protection.
- (d) Responsibility of Division of Environmental Health.
- (e) 8 dilutions on each sample (8 separate tests).
- (f) Performed by Environmental Health Services.
- (g) Included in Drinking Water.
- (h) Under jurisdiction of the Agency for Environmental Control.
- (i) Rodac plates, air samples, surface swabs, etc.
- (j) Meat for Residual Antibiotics, 223 specimens, 223 exams; Meat Serology, 35 specimens, 140 exams; Sewage, 197 specimens, 203 exams; Miscellaneous, 162 specimens, 282 exams.
- (k) Included in Utensil Counts.
- (l) Bedding material (Bedding Inspection Law).
- (m) Performed by Department of Environmental Quality Laboratory.
- (n) Dairy Container Rinse Test.
- (o) Mouth Survey, 28; Pseudomonas Study, 2.
- (p) Done by Department of Water and Air Resources.
- (q) Includes both partial and complete analysis.
- (r) Iron and Hardness included in Complete Analysis totals.
- (s) Private samples only.
- (t) Chlorine.
- (u) Sulfate, Sodium, etc.
- (v) Represents total. Not tabulated separately.
- (w) From Al to Zn. (Too numerous to list.)
- (x) All private water samples screened for nitrate.
- (y) Sulfates, Chlorides.
- (z) Included under Sanitary Microbiology, "Milk and Cream."
- (aa) Includes Frozen Desserts, 932 specimens, 932 exams.
- (bb) Includes 214 tests for lead and other heavy metals.
- (cc) Includes Beverages.

TABLE 12-55. SANITARY AND ENVIRONMENTAL CHEMISTRY: WATER POLLUTION

	Total Specimens	Total Exams	Dissolved Oxygen	Phosphates
Ala.	-	-	-	-
Alaska	4,524	4,524	-	-
Ariz.	92	680	-	9
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	738	20,825	-	767
Conn.	1,809	17,055	54	114
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	(a)	-	-	-
Ga.	-	-	-	-
Hawaii	274 (b)	1,248	250	220
Ida.	2,797	34,714	1,456	2,797
Ill.	-	-	-	-
Ind.	3,638	32,130	1	2,607
Ia.	3,477	7,491	2,788	525
Kans.	3,200	14,950	4,000	2,400
Ky.	736	2,548	-	*
La.	218	5,651	97	71
Me.	(c)	-	-	-
Md.	3,636	25,334	3,601	5,180
Mass.	-	-	-	-
Mich.	-	-	-	-
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	59	811	-	28
Nebr.	1,853	19,440	-	1,625
Nev.	2,014	22,154	2,014	2,014
N.H.	-	-	-	-
N.J.	6,469	60,995	8,790	4,818
N.M.	*	*	*	*
N.Y.	3,041	91,230	*	*
N.C.	480	480	-	20
N.D.	542	1,468	298	542
Ohio	4,378	35,683	*	*
Okla.	(d)	-	-	-
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	-	-	-	-
S.C.	-	-	-	-
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	8,447	68,412	750	3,415
Utah	3,064	18,961	9,332	1,399
Vt.	-	-	-	-
Va.	-	12,840	-	12,840
Wash.	(e)	-	-	-
W.Va.	-	-	-	-
Wisc.	18,000	25,783	-	2,236
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	2,197	14,748	2,229	663
V.I.	6	6	2	-

TABLE 12-55. SANITARY AND ENVIRONMENTAL CHEMISTRY: WATER POLLUTION  
(Continued)

	BOD	COD	Detergents	Other
Ala.	-	-	-	-
Alaska	-	-	4,524	-
Ariz.	13	5	7	646
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	559	74	689	18,736
Conn.	486	18	270	16,113
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	-	-	-	-
Ga.	-	-	-	-
Hawaii	180	8	-	590 (f)
Ida.	1,456	912	-	28,093 (g)
Ill.	-	-	-	-
Ind.	2,975	879	23	25,645
Ia.	4,178	-	-	-
Kans.	1,100	200	50	7,200 (h)
Ky.	-	-	*	*
La.	107	59	109 (i)	5,208 (j)
Me.	-	-	-	-
Md.	3,331	-	78	13,144
Mass.	-	-	-	-
Mich.	-	-	-	-
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	783
Nebr.	1,775	1,821	272	13,947
Nev.	2,014	-	2,014	14,098
N.H.	-	-	-	-
N.J.	7,154	1,536	4,290	34,407
N.M.	*	*	*	*
N.Y.	*	*	*	*
N.C.	-	-	11	449
N.D.	542	36	50	-
Ohio	*	*	*	523 (k)
Okla.	-	-	-	-
Ore.	-	-	-	-
Pa.	*	*	*	*
R.I.	-	-	-	-
S.C.	-	-	-	-
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	7,832	505	60	55,850
Utah	1,352	35	714	6,129
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	-	-
Wisc.	3,585	47	119	19,796
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	1,129	218	-	10,509
V.I.	4	-	-	-

TABLE 12-56. AIR POLLUTION

	Total Samples	Total Exams	Discrete Sampling	Continuous Sampling	No. of Stations
Ala.	-	-	-	-	-
Alaska	-	-	-	-	-
Ariz.	1,259	6,256	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	45,191	45,191	X	X	80
Conn.	5,073	9,183	X	X	50
Del.	(l)	-	-	-	-
D.C.	(m)	-	-	-	-
Fla.	1,359 (n)	2,718 (o)	*	*	*
Ga.	-	-	-	-	-
Hawaii	(p)	-	-	-	-
Ida.	3,568	6,094	X	-	113
Ill.	95	95	X	-	1
Ind.	(q)	-	-	-	-
Ia.	11,355	11,355	X	X	311
Kans.	2,905	2,905	-	X	40
Ky.	14,327	20,161	X	-	70
La.	-	-	-	-	-
Me.	(c)	-	-	-	-
Md.	13,217	18,428	X	X	*
Mass.	(r)	-	-	-	-
Mich.	-	-	-	-	-
Minn.	-	-	-	-	-
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	(s)	-	-	-	-
Nebr.	-	-	-	-	-
Nev.	1,337	1,337	-	X	24
N.H.	-	-	-	-	-
N.J.	(c)	-	-	-	-
N.M.	*	*	*	*	*
N.Y.	7,138	14,276	-	-	121
N.C.	-	-	-	-	-
N.D.	3,450 (t)	3,430 (t)	X	-	-
Ohio	3,840	4,231	X	-	219 (u)
Okla.	(d)	-	-	-	-
Ore.	(v)	-	-	-	-
Pa.	*	*	*	*	*
R.I.	-	-	-	-	-
S.C.	-	-	-	-	-
S.D.	-	-	-	-	-
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	894 (w)	894	-	-	-
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	(e)	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	1,222	1,871	X	-	-
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	3,158 (x)	3,158	X	X (y)	68 (z)
V.I.	-	-	-	-	-

TABLES 12-55 - 12-56. FOOTNOTES

- (a) Included in "Drinking Water."
- (b) Wastes, sewage, effluents, etc.
- (c) Responsibility of Department of Environmental Protection.
- (d) Performed by Environmental Health Services.
- (e) Done by Department of Ecology.
- (f) Nitrogens, solids, oil and grease, minerals, heavy metals, etc.
- (g) Heavy metals (Fe, Mn, Zn, Cu, Pb, Cd, and Na-K), 19,579; other, 8,514.
- (h) Minerals, heavy metals, etc.
- (i) Surfactants.
- (j) Water from oyster beds.
- (k) Mercury, 336; sand, 187.
- (l) Done by Department of Water and Air Resources.
- (m) Performed by Environmental Services Department.
- (n) Does not include analyses performed by Department of Pollution Control and in city or county pollution control agencies.
- (o) Includes pollen counts, 581 exams.
- (p) Handled by Air Sanitation Branch, Environmental Health Division, Department of Health.
- (q) Performed in Division of Engineering, ISBH.
- (r) Responsibility of Division of Environmental Health.
- (s) Done by Air Quality Control Bureau.
- (t) High volume filters, 710 specimens, 690 exams; coefficient of haze, 2,500 specimens, 2,500 exams; dustfall, 12 specimens, 12 exams; SO<sub>2</sub> bubblers, 57 specimens, 57 exams; sulfation plates, 170 specimens, 170 exams.
- (u) High volume, 185; fall-out, 18; oxides of sulfur, candles, 16.
- (v) Performed by Department of Environmental Quality.
- (w) Restricted to analyses for beryllium. Other examinations are made by field monitoring equipment and conducted by the Air Quality Section of the Bureau of Environmental Health.
- (x) Gases, 1,916; particulates, 1,242.
- (y) 312 analyses.
- (z) 66 mobile.



TABLE 12-57. OCCUPATIONAL HEALTH AND SAFETY

	Total Specimens	Total Exams	Chemical Analyses		Biological Analyses	
			Human Source	Environmental Source	Human Source	Environmental Source
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	109	109	-	89	-	20
Conn.	1,614	1,614	1,250	364	-	-
Del.	-	-	-	-	-	-
D.C.	7,970	7,987	-	7,987	-	-
Fla.	(a)	-	-	-	-	-
Ga.	-	-	-	-	-	-
Hawaii	(b)	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	(c)	-	-	-	-	-
Ia.	1,511	3,821	237	3,584	-	-
Kans.	18	18	18	-	-	-
Ky.	117	117	*	*	-	-
La.	9	9	-	9 (d)	-	-
Me.	-	-	-	-	-	-
Md.	2,909	3,741	1,993	1,748	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	112	112	112	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	2,246	2,390	1,308	1,082	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	391	1,085	-	1,085	-	-
Okla.	(e)	-	-	-	-	-
Ore.	(a)	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	40	40	10	30	-	-
Utah	1,408	1,620	1,602	18	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-
Wisc.	1,580	2,906	381	2,518	-	7
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-58. RADIOACTIVITY

	Total Specimens	Total Exams	Air		Milk	
			Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-
Alaska	(f)	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	4,381	7,856	3,263	3,263	-	-
Conn.	1,202	2,896	303	305	60	400
Del.	(g)	-	-	-	-	-
D.C.	(h)	-	-	-	-	-
Fla.	2,008	4,243	746	746	97	485
Ga.	-	-	-	-	-	-
Hawaii	(b)	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	471	873	151	151	-	-
Ind.	(c)	-	-	-	-	-
Ia.	1,580	4,051	803	803	66	337
Kans.	1,096	2,451	251	251	96	672
Ky.	-	-	-	-	-	-
La.	379	1,275	-	-	81	463
Me.	825	927	295	295	13	25
Md.	1,499	2,092	794	900	59	281
Mass.	(i)	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	1,212	3,114	286	529	53	134
N.M.	*	*	*	*	*	*
N.Y.	3,155	8,029	852	852	567	1,134
N.C.	1,395	9,595	471	1,455	93	715
N.D.	1,155	1,136	950	931	133	133
Ohio	454	1,980	-	-	4	63
Okla.	(e)	-	-	-	-	-
Ore.	(j)	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	5,337	14,471	2,210	2,567	23	115
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	711	1,638	12	15	58	240
Utah	3,191	8,794	1,532	2,144	293	1,369
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	509	6,152	104	104	61	1,237
W.Va.	-	-	-	-	-	-
Wisc.	1,830	2,087	572	715	352	436
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-58. RADIOACTIVITY  
(Continued)

	<u>Water and Rainfall</u>		<u>Atomic Energy Plant Monitoring</u>		<u>Other</u>	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	1,118	4,593	-	-	-	-
Conn.	481	1,278	(k)	-	358	913
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	483	966	(k)	-	682	2,046
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	51	102	154	308	115	312
Ind.	-	-	-	-	-	-
Ia.	711	2,911	-	-	-	-
Kans.	707	1,404	-	-	42	124
Ky.	-	-	-	-	-	-
La.	211	361	-	-	87	451
Me.	265	355	-	-	252	252
Md.	646	911	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	96	98	702	2,132	75	221
N.M.	*	*	*	*	*	*
N.Y.	1,571	5,713	*	*	165	330
N.C.	703	6,573	-	-	128 (1)	852 (1)
N.D.	52	52	-	-	20	20
Ohio	341	1,476	108	432	1	9
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	-	-	-	-	-	-
S.C.	598	3,271	-	-	2,506 (m)	8,518
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	161	388	-	-	480 (n)	995
Utah	1,366	5,281	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	192	1,724	102	1,837	50	1,250
W.Va.	-	-	-	-	-	-
Wisc.	570	600	(o)	-	336	336
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-59. PESTICIDES

	Total Specimens	Total Exams	Milk		Water	
			Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-
Alaska	(f)	-	-	-	-	-
Ariz.	1,850	1,892	1,666	1,708	184	184
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	924	924	527	527	14	14
Conn.	248	4,502	(p)	103	(p)	60
Del.	-	-	-	-	-	-
D.C.	64	64	52	52	-	-
Fla.	3,955	60,175	-	-	96	1,920
Ga.	-	-	-	-	-	-
Hawaii	69	110	6	12	9	13
Ida.	(q)	-	-	-	-	-
Ill.	279	279	30	30	6	6
Ind.	946	2,092	627	843	117	768
Ia.	235	940	-	-	174	696
Kans.	24	24	-	-	16	16
Ky.	442	1,382	126	226	209	777
La.	286	286	86	86	13	13
Me.	313	345	-	-	13	18
Md.	481	1,474	-	-	255	*
Mass.	(r)	-	-	-	-	-
Mich.	198	11,335	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	189	1,536	21	21	132	1,169
Mont.	-	-	-	-	-	-
Nebr.	4	8	-	-	4	8
Nev.	133	841	83	498	48	336
N.H.	-	-	-	-	-	-
N.J.	1,402	15,752	4	4	295	295
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	346	631	61	122	84	168
Okla.	(e)	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	363	2,904	24	192	68	544
S.C.	1,200	1,200	-	-	13	13
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	127	127	12	12	45	45
Utah	1,276	9,932	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	1,660	4,300	10	50	50	250
W.Va.	-	-	-	-	-	-
Wisc.	326	1,042	-	-	147	147
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-59. PESTICIDES  
(Continued)

	Food		Human Source		Environmental Source	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	340	340	-	-	43	43
Conn.	52	810	196	2,879	(p)	650
Del.	-	-	-	-	-	-
D.C.	12	12	-	-	-	-
Fla.	22	440	3,785	56,775	52	1,040
Ga.	-	-	-	-	-	-
Hawaii	26	41	-	-	28	44
Ida.	-	-	-	-	-	-
Ill.	243	243	-	-	-	-
Ind.	186	353	-	-	16	128
Ia.	10	40	2	8	49	196
Kans.	-	-	5	5	3	3
Ky.	107	379	-	-	-	-
La.	187	187	-	-	-	-
Me.	1	2	84	84	215	241
Md.	197	*	-	-	29	*
Mass.	-	-	-	-	-	-
Mich.	-	-	-	10,313	198	1,022
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	36	346	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	2	7	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	126	126	936	15,286	41	41
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	201	341	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	271	2,168	-	-	-	-
S.C.	-	-	776	776	411	411
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	30	30	-	-	40 (s)	40
Utah	-	-	1,276	9,932	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	600	3,000	1,000	1,000
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	179	895
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 12-60. TOXICOLOGY: FORENSIC AND OTHER

	Total Specimens	Total Exams	Drug Analysis		Tissues, Breath, or Body Fluids		
			Forensic	Other	Blood	Alcohol Breath	Other
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	(t)	(t)	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	5,479	5,479	-	-	72	-	-
Conn.	18,175	49,118	34,770	-	1,101	832	521
Del.	-	-	-	-	-	-	-
D.C.	13,942	27,089	-	-	-	-	3,459
Fla.	10,878	53,770	28,648	948	4,616	(u)	-
Ga.	-	-	-	-	-	-	-
Hawaii	119	269	115	68	6	-	1
Ida.	6,111	19,363	14,996	381	183	3,341	-
Ill.	2,904	6,086	261	515	1,194	-	65
Ind.	(v)	-	-	-	-	-	-
Ia.	958	2,898	30	-	-	2,868	-
Kans.	3,286	4,676	106	55	2,477	-	16
Ky.	340	979	474	-	25	-	-
La.	51	116	-	101	-	-	-
Me.	3,442	3,442	1,246	-	877	608	317
Md.	-	-	-	-	-	-	-
Mass.	(w)	-	-	-	-	-	-
Mich.	8,252	39,096	25,055	1,589	4,765	-	148
Minn.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	2,141	2,141	-	4	759	1,012 (x)	362 (y)
Nebr.	929	2,509	2,509	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	(z)	-	-	-	-	-	-
N.M.	*	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	304	607	-	-	-	-	-
Okla.	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-
Pa.	*	*	*	*	*	*	*
R.I.	7,923	59,454	57,865	-	147 (aa)	-	(aa)
S.C.	3,246	13,627	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-
Tex.	10	10	-	-	-	-	-
Utah	3,048	10,254	3,324	-	1,416	-	-
Vt.	2,439	2,454	63	56	1,532	-	-
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
Wisc.	5,015	5,604	-	48	1,400	-	-
Wyo.	260	260	-	-	206	17	37
Guam	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-
V.I.	203	392	-	-	-	-	-

TABLE 12-60. TOXICOLOGY: FORENSIC AND OTHER  
(Continued)

	Tissues, Breath, or Body Fluids					
	Barbiturates	Lead	Other Heavy Metals	Narcotics	Psychotropic Agents	Others
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	-	6	12	5,389	-	-
Conn.	1,541	-	29	1,662	88	8,574 (bb)
Del.	-	-	-	-	-	-
D.C.	2,569	7,914	-	7,707	2,569	2,871
Fla.	1,668	(a)	(a)	14,950	-	2,940
Ga.	-	-	-	-	-	-
Hawaii	15	3	12	4	28	17
Ida.	-	-	216	-	-	246
Ill.	161	199	46	116	214	3,315
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	359	104	175	273	633	478
Ky.	-	-	-	-	-	480
La.	-	3	12	-	-	-
Me.	85	204	21	1	83	-
Md.	-	(cc)	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	48	-	-	84	-	7,407
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	2	2	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	550	51	-	-	6
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	*	*	*	*	*	*
R.I.	420	-	91	(dd)	(dd)	931 (dd)
S.C.	2,345	3,439	5,460	2,383	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	10	-	-	-	-
Utah	-	275	565	-	-	4,674 (ee)
Vt.	-	165	563 (ff)	-	-	75 (gg)
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	396	262	146	2,944	-	408
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	179 (y)	24 (y)	10 (y)	179 (y)	-	-

TABLES 12-57 - 12-60. FOOTNOTES

- (a) Performed by Occupational Health Section.
- (b) Done by Occupational and Radiological Health Branch, Environmental Health Division, Department of Health.
- (c) Performed in Division of Engineering, ISBH.
- (d) Lead.
- (e) Performed by Environmental Health Services.
- (f) No services offered through Division of Public Health. Monitoring carried out by staff of Department of Environmental Conservation.
- (g) Done by Bureau of Environmental Health.
- (h) Performed by Environmental Services Department.
- (i) Responsibility of Division of Environmental Health.
- (j) Performed by Radiation Health Laboratory.
- (k) Included in other categories.
- (l) Dust, 44 specimens, 88 exams; sewage, 36 specimens, 643 exams; silt, 1 specimen, 16 exams; swipes, 46 specimens, 90 exams; saline, 1 specimen, 15 exams.
- (m) Vegetation, fish and shellfish, TLDs, smears.
- (n) Wipes, vegetation, soil.
- (o) Included in other categories as follows: Air, 572 specimens, 715 exams; Milk, 92 specimens, 132 exams; Water and Rainfall, 570 specimens, 600 exams; Other, 156 specimens, 156 exams.
- (p) Included under Sanitary and Environmental Chemistry.
- (q) Handled by the Community Study Program of EPA.
- (r) Responsibility of Pesticide Board.
- (s) Dirt, Vegetation.
- (t) Section of Laboratories certifies private laboratories and random checks new lots of ampoules used by the Department of Public Safety for the Breathalyzers.
- (u) Performed by State and local law enforcement agencies.
- (v) 217 specimens, 784 exams for drug analysis done by State Board of Health, Food, Drug and Dairy Laboratory Division. All other analyses performed by the toxicology laboratory, Indiana University School of Medicine.
- (w) Handled by Division of Food and Drugs.
- (x) 585 in police stations, 427 in State Laboratory.
- (y) Urine.
- (z) Conducted by State Police Laboratory, which is in the Department of Law and Public Safety.
- (aa) "Other" included under "Blood."
- (bb) Criminological examinations, 1,468; others, 7,106.
- (cc) Included with Occupational Health, Table 12-57.
- (dd) "Narcotics" and "Psychotropic Agents" included under "Others."



TABLES 12-57 - 12-60. FOOTNOTES  
(Continued)

(ee) Dangerous Drugs, 4,550; Others, 124.

(ff) Mercury.

(gg) Drugs.

SECTION XIII

SPECIAL QUESTIONS ON DIAGNOSTIC WORKLOAD

TABLE 13-1. METHODS USED FOR AUSTRALIA ANTIGEN

(a) Which methods do you use for Australia Antigen?		(b) What is the source of the reagents Used?
Ala.	Counter-electrophoresis.	Antibody - Mass. Public Health Biologic Labs. Antigen - Diagnostics Inc. Make own plates.
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	Immunodiffusion, Counter-electrophoresis.	Spectra Biologicals.
Del.	-	-
D.C.	-	-
Fla.	Counter-electrophoresis, Complement Fixation (Micro LBCF).	Antibody - Abbott Scientific Products Co.
Ga.	Counter-electrophoresis screening, agar gel diffusion confirmation.	Abbott.
Hawaii	Complement Fixation Test	Antibody is purchased from Industrial Biological Laboratories, Inc. Complement is purchased from Microbiological Associates or Beckman Instruments. Hemolysin is purchased from Difco Laboratories. Veronal Buffered Saline made in the Laboratory and sheep red blood cells obtained locally.
Ida.	Complement Fixation.	Abbott.
Ill.	Counter-immunoelectrophoresis, Complement Fixation	Abbott.
Ind.	-	-
Ia.	Counter-electrophoresis.	Private source of reagents (Blood Bank Center).
Kans.	Complement Fixation routinely. Also IEOP and gel diffusion available.	Nat'l. Health and Lung Institute.
Ky.	-	-
La.	-	-
Me.	Counter-electrophoresis using a Shandon Tray with a Heath kit power source. Reophoresis or agar gel diffusion. Lab cannot regularly perform radio-immunoassay (Abbott), but does have a source of RIA for confirmation of troublesome specimens.	Plates - Abbott. Antibody - Cordis and Abbott.
Md.	Counter-electrophoresis, CF, agar gel diffusion.	Abbott. Spectra.
Mass.	Counter-electrophoresis and immunodiffusion.	Locally collected human antiserum.
Mich.	No routine testing. Following used on evaluation basis: counter-electrophoresis, agar immunodiffusion, radio-immunoassay.	National Heart and Lung Institute, commercial, Lab's own.
Minn.	Immunodiffusion, Complement Fixation.	Abbott.
Miss.	-	-
Mo.	Immunodiffusion, counter-electrophoresis.	NIH, Mass. Dept. of Health. Will purchase from Abbott.
Mont.	(Diagnostic specimens sent to CDC Phoenix Station.)	-
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	Radio-immunoassay, agar gel diffusion, IEOP, CF, RPHA.	Abbott, New Jersey Dept. of Health.
N.M.	*	*
N.Y.	Agar gel diffusion, counter-electrophoresis, hemagglutination inhibition, partial agglutination inhibition.	Purchased - various companies and locally obtained.

TABLE 13-1. METHODS USED FOR AUSTRALIA ANTIGEN  
(Continued)

(a) Which methods do you use for Australia Antigen?	(b) What is the source of the reagents used?
N.C.	-
N.D.	-
Ohio	-
Okla.	-
Ore.	Abbott.
Pa.	*
R.I.	-
S.C.	Spectra, Abbott.
S.D.	-
Tenn.	-
Tex.	Hyland Laboratories.
Utah	-
Vt.	-
Va.	-
Wash.	-
W.Va.	-
Wisc.	Commercial reagents.
Wyo.	-
Guam	-
P.R.	Abbott.
V.I.	Abbott and Spectra.

TABLE 13-2. MULTIPHASIC SCREENING PROGRAMS

	Are you involved in any Multiphasic Screening Programs?	List of Tests or Programs
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	*	*
Colo.	-	-
Conn.	X	Multiphasic screening program is maintained for State employees as part of their annual physical. Includes glucose, BUN, uric acid, bilirubin, cholesterol and CBC. Other tests are performed on request.
Del.	-	-
D.C.	X	Programs in areas of hematology, serology, clinical chemistry, and exfoliative cytology.
Fla.	X	Hemoglobin, glucose, uric acid, cholesterol, triglycerides, and on selected cases, urea nitrogen and lipoprotein electrophoresis.
Ga.	-	-
Hawaii	-	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	-	-
Ky.	X	VDRL test, intestinal parasites, glucose.
La.	-	-
Me.	-	-
Md.	X	Limited to diabetes detection, sickle cell screening and some blood lipid screening.
Mass.	-	-
Mich.	X	Glucose, BUN, cholesterol.
Minn.	-	-
Miss.	-	-
Mo.	X	AutoAnalyzer glucose.
Mont.	X	Heart Disease Screening Program.
Nebr.	-	-
Nev.	-	-
N.H.	X	Diabetes.
N.J.	-	-
N.M.	*	*
N.Y.	X	Perform about 9,000 Unopette samples for glucose, urea nitrogen, and uric acid.
N.C.	X	Albumin, alkaline phosphatase, BUN, calcium, cholesterol, glucose, inorganic phosphate, LDH, SGOT, bilirubin, total protein, uric acid, sodium, potassium, chloride, CO <sub>2</sub> , CPK, creatinine, serum iron, triglycerides and PBI.
N.D.	-	-
Ohio	X	Individual glucose screening project and multiple screening with SMA 12/60.
Okla.	X	Glucose, cholesterol, BUN, uric acid, total protein.
Ore.	-	-
Pa.	*	*
R.I.	-	-
S.C.	-	-
S.D.	-	-
Tenn.	-	-
Tex.	-	-
Utah	-	-
Vt.	-	-

TABLE 13-2. MULTIPHASIC SCREENING PROGRAMS  
(Continued)

Are you involved in any Multiphasic Screening Programs?		List of Tests or Programs
Va.	-	-
Wash.	-	-
W.Va.	X	Calcium, inorganic phosphate, glucose, BUN, uric acid, cholesterol, total protein, albumin, total bilirubin, alkaline phosphatase, LDH, SGOT.
Wisc.	X	SMA 12/60 Panel (total protein, albumin, cholesterol, uric acid, BUN, calcium, inorganic phosphate, bilirubin, creatinine, glucose, SGOT, alkaline phosphatase.)
Wyo.	-	-
Guam	-	-
P.R.	X	Glucose.
V.I.	-	-

TABLE 13-2. MULTIPHASIC SCREENING PROGRAMS  
(Continued)

Sponsors of Program		Type of Recipient	Amount of Reimbursement
Ala.	-	-	-
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	-	-	-
Conn.	State	State employees.	-
Del.	-	-	-
D.C.	*	*	*
Fla.	Fla. State Div. of Health Cardiovascular Screening Program.	General public.	-
Ga.	-	-	-
Hawaii	-	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	-	-	-
Ia.	-	-	-
Kans.	-	-	-
Ky.	Appalachian Multiphasic Screening Program.	*	VDRL - \$1.00 ea.; intestinal parasites, \$1.50 per test.
La.	-	-	-
Me.	-	-	-
Md.	-	-	-
Mass.	-	-	-
Mich.	Division of Disease Control, Mich. Dept. of Public Hlth.	Public of State of Mich.	-
Minn.	-	-	-
Miss.	-	-	-
Mo.	Medical Societies and Div. of Health.	Patients of public health clinics.	-
Mont.	Community Disease Control Bureau of the Health Services Div. of the Dept. and the Montana Heart Assn.	Rural communities.	Total Cholesterol Project provides reagents and supplies for test - about \$800.00/year.
Nebr.	-	-	-
Nev.	-	-	-
N.H.	Dept. PH - Chronic Disease.	*	\$600.00/year.
N.J.	-	-	-
N.M.	*	*	*
N.Y.	Samples submitted from screening clinics of Albany County Health Dept., Schenectady Health Dept., Rensselaer County Health Dept., Utica Health Dept. etc.	*	*
N.C.	Chronic Disease Section, N.C. State Board of Health.	Patients from Multiphasic Screening Centers through- out the State. Most are located in local health departments.	-
N.D.	-	-	-
Ohio	Chronic Disease Div.	Local health depts., industries, etc.	*
Okla.	Chronic Disease Div., Okla. State Dept. of Health.	General public.	Reimbursed for reagents used by Chronic Disease Division.
Ore.	-	-	-
Pa.	*	*	*
R.I.	-	-	-

TABLE 13-2. MULTIPHASIC SCREENING PROGRAMS  
(Continued)

Sponsors of Program	Type of Recipient	Amount of Reimbursement
S.C. -	-	-
S.D. -	-	-
Tenn. -	-	-
Tex. -	-	-
Utah -	-	-
Vt. -	-	-
Va. -	-	-
Wash. -	-	-
W.Va. Maternal and Child Health, Heart and Hypertension	Clinic	-
Wisc. State Div. of Health, Dept. of Health and Social Svcs.	General population.	-
Wyo. -	-	-
Guam -	-	-
P.R. Dept. of Health	*	-
V.I. -	-	-



TABLE 13-3. ANALYTIC METHODS USED FOR DETERMINATION OF MERCURY.

(a) What analytic methods are you using for determination of mercury?	(b) For what purposes?
Ala. -	-
Alaska (No services offered. Laboratory services for investigational study contracted with a private laboratory in Seattle, Wash.)	-
Ariz. Flameless atomic absorption.	Water, food, fish, high volume filters, etc.
Ark. -	-
Cal. *	*
Colo. Flameless atomic absorption.	Environmental studies on fish, aquatic plants and lake silts.
Conn. Flameless atomic absorption spectrophotometer with modification of Hatch and Ott method. Dithizone titration and also method that is modification of the Hatch and Ott method utilizing the Coleman Mercury Analyzer.	Mercury in water, fish, shellfish. For background data on heavy metals in environment. Mercury in urine for occupational health surveys.
Del. -	-
D.C. Flameless atomic absorption.	Determining level of mercury in food products and human specimens.
Fla. Atomic absorption spectrophotometry, cold vapor.	Analysis of drinking and recreational waters, fish and shellfish, and other foods.
Ga. -	-
Hawaii Modified method of Hatch and Ott using the atomic absorption spectrophotometer.	Used principally to determine mercury in fish and fish products.
Ida. Hatch and Ott atomic absorption procedure (Coleman Mercury Analyzer M 50) and Perkin-Elmer 303.	Primarily for wildlife studies in conjunction with Fish and Game Dept. Other environmental studies. Occasionally toxicology studies.
Ill. Atomic absorption spectrophotometry.	*
Coleman mercury dry vapor analyzer.	For the quantitation of mercury in foods, primarily fish, and to determine mercury content of water and sediment.
Ind. Flameless atomic absorption.	Public water supply. Aquatic influence on birds and fish. Industrially-related human exposure.
Ia. Cold flame atomic absorption.	Blood, tissue, urine, foods for human exposure. Water pollution, pottery, fish, air, urine.
Kans. Dithizone procedure.	Seafoods and waters.
Ky. Flameless atomic absorption and thin layer.	Water analysis.
La. Flameless atomic absorption.	-
Me. Flameless atomic absorption.	-
Md. -	-
Mass. -	-
Mich. - (These tests are done by another laboratory within the Dept. or in another State agency.)	Fish, water, urine, blood, saliva, etc.
Minn. H <sub>2</sub> SO <sub>4</sub> -KMnO <sub>4</sub> oxidation, SnCl <sub>2</sub> reduction and mercury detection by cold absorption.	-
Miss. -	Fish and water (Environmental).
Mo. Atomic absorption spectrophotometer.	Air and water quality control.
Mont. Flameless atomic absorption.	(Rare request).
Nebr. AOAC (A.A. unit on order).	-
Nev. -	-
N.H. -	-
N.J. Hatch-Ott Flameless AA Procedure (EPA) using Perkin-Elmer Model 303 AAS and Coleman Model MAS 50 for detection.	Analysis of environmental and biological specimens: foods, including shellfish; bloods; urines; potable water; waste waters; river bottom samples.
N.M. *	*
N.Y. Cold vapor atomic absorption.	Determination in fresh water, waste water, and air samples. Air samples collected in acid permanganate.

TABLE 13-3. ANALYTIC METHODS USED FOR DETERMINATION OF MERCURY  
(Continued)

(a) What analytic methods are you using for determination of mercury?	(b) For what purposes?
N.C. Cold vapor atomic absorption.	Water, fish, shellfish, blood, urine, other tissues.
N.D. -	-
Ohio Atomic absorption spectrophotometry and flameless atomic absorption spectrophotometry.	Stream pollution and drinking water analyses. Mercury in urine and blood.
Okla. -	-
Ore. (Performed by Occupational Health Lab.).	-
Pa. *	*
R.I. Coleman Mercury Analyzer.	Fish and shellfish.
S.C. Flameless atomic absorption spectroscopy.	All purposes.
S.D. -	-
Tenn. -	-
Tex. Flameless atomic absorption.	Environmental samples and biological marine life.
Utah Atomic absorption spectrophotometry.	Industrial health, toxicology, water chemistry, and any other where analysis is requested.
Vt. Atomic absorption spectrophotometry.	*
Va. Flameless atomic absorption.	Examination of potable water.
Wash. Flameless atomic absorption.	To detect mercury in pesticides and industrial wastes.
W.Va. -	-
Wisc. Flameless atomic absorption.	Toxicology - poison in suspected cases. Water, environmental, industrial hygiene.
Wyo. -	-
Guam -	-
P.R. -	-
V.I. Mercury Detection Kit, Koslow Scientific Co., North Bergen, N. J.	On request, urine from patients admitted to the Pediatric Ward.

TABLE 13-4. DRUG SCREENING PROGRAM USING METHADONE

	(a) Do you have a Drug Screening Program using Methadone?	(b) If yes, how many people are in the program?	(c) What is the frequency of the tests?
Ala.	-	-	-
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	X	600	Weekly.
Conn.	-	-	-
Del.	(Handled by Drug Clinic in Kent General Hospital, Dover, Del.)	-	-
D.C.	(Program is under Narcotics Treatment Administration. Tests are contracted to private laboratories.)	-	-
Fla.	X	200	Weekly.
Ga.	-	-	-
Hawaii	-	-	-
Ida.	X	20	Sampling schedule calls for weekly samples. On most occasions lab. receives samples once a month. It is apparent from number of samples received that not all participants are being sampled each week.
Ill.	-	-	-
Ind.	-	-	-
Ia.	X	1	Difficult to determine yet as program began June 15, 1972.
Kansas	-	-	-
Ky.	-	-	-
La.	-	-	-
Me.	-	-	-
Md.	-	-	-
Mass.	-	-	-
Mich.	-	-	-
Minn.	-	-	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	The Div. of Labs. and Epidemiology serves as a drug monitoring agency for the Div. of Narcotics and Drug Abuse Control. Acting in this capacity, 250,000 specimens per year are analyzed for methadone, quinine, morphine, cocaine, barbiturate, amphetamine, or other. Twenty individuals are engaged in performing these analyses. The Division of Narcotics and Drug Abuse Control exercises direct authority over treatment facilities, number of patients, frequency of testing, etc.	-	-

TABLE 13-4. DRUG SCREENING PROGRAM USING METHADONE  
(Continued)

(a) Do you have a Drug Screening Program using Methadone?	(b) If yes, how many people are in the program?	(c) What is the frequency of the tests?
N.M.	*	*
N.Y.	-	-
N.C.	-	-
N.D.	-	-
Ohio	-	-
Okla.	-	-
Ore.	(Performed at U. of Oregon Medical School).	-
Pa.	*	*
R.I.	-	-
S.C.	-	-
S.D.	-	-
Tenn.	-	-
Tex.	-	-
Utah	-	-
Vt.	-	-
Va.	-	-
Wash.	-	-
W.Va.	-	-
Wisc.	X	60 Twice Weekly.
Wyo.	-	-
Guam	-	-
P.R.	-	-
V.I.	X	18 Weekly.

TABLE 13-5. METHODS USED TO SCREEN FOR  
METABOLIC DISORDERS OTHER THAN PKU

What methods do you use to screen for metabolic disorders other than PKU?	
Ala.	Chromatography and electrophoresis.
Alaska	-
Ariz.	-
Ark.	-
Cal.	*
Colo.	-
Conn.	Galactosemia - Beutler and Baluda Spot Test.
Del.	Guthrie.
D.C.	-
Fla.	-
Ga.	-
Hawaii	-
Ida.	-
Ill.	-
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	(Planning stage).
Me.	-
Md.	Guthrie techniques.
Mass.	Guthrie Bacterial Inhibition assays for leucine, methionine, and tyrosine. Beutler enzyme assay for galactose - 1 - phosphate uridyl transferase. Paigen test for galactosemia. Paper Chromatography of urine for amino acids, histidine and metabolites, organic acids, sugars, etc. Murphy tests for hereditary angioneurotic edema and for alpha - 1 - antitrypsin deficiency.
Mich.	-
Minn.	-
Miss.	-
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	-
N.M.	*
N.Y.	*
N.C.	Automated Fluorometric for tyrosine.
N.D.	-
Ohio	Galactosemia - Beutler. Methionine - Bacterial Inhibition Assay. Histidine Bacterial Inhibition Assay.
Okla.	-
Ore.	Guthrie Inhibition Assay, Paper Chromatography, Beutler Enzyme Test (Galactosemia).
Pa.	*
R.I.	Paper Chromatography, Fluorometric.
S.C.	-
S.D.	-
Tenn.	-
Tex.	Technicon AutoAnalyzer method (Unipet) for diabetes.
Utah	-
Vt.	(Performed at Univ. Medical Center Hosp.)
Va.	Ambrose macro method for tyrosine.
Wash.	Electrophoresis for sickle cell.

TABLE 13-5. METHODS USED TO SCREEN FOR  
METABOLIC DISORDERS OTHER THAN PKU  
(Continued)

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What methods do you use to screen for  
metabolic disorders other than PKU?

---

W.Va.	TLC on select cases from Bureau of Maternal and Child Health.
Wisc.	-
Wyo.	-
Guam	-
P.R.	-
V.I.	(Sent to CDC.)

TABLE 13-6. FLUOROMETRIC PROCEDURES

What fluorometric procedures do you use?	
Ala.	Modification of McCaman-Robins.
Alaska	Turner
Ariz.	Acrolein, vitamins.
Ark.	Calcium.
Cal.	*
Colo.	-
Conn.	Determination of phenylalanine in serum - McCaman-Robins method.
Del.	-
D.C.	Triglycerides - Farrand Spectrofluorometer, Technicon AA II fluorometer.
Fla.	McCaman-Robins.
Ga.	For PKU follow-up - the McCaman-Robins fluorometric method. For tyrosine - the Turner modification of the Inouye-Wong fluorometric method is used.
Hawaii	Identification and estimation of lysergic acid diethylamide by thin layer chromatography and fluorometry - method by Leo A. Dal Cortino, John R. Broich, Arnold Dibrberg, and Bernard Newman. A method for the fluorometric assay of histamine in tissues by P. A. Shore, A. Burkhalter, and V. H. Cohn, Jr.
Ida.	Turner fluorometer available. Has been used for phenylalanine confirmation in the past. Currently not being used.
Ill.	Attachment to UV ratio recording spectrophotometer; Perkin-Elmer fluorometer.
Ind.	-
Ia.	McCaman-Robins procedure for phenylalanine quantitation. Turner fluorometer.
Kans.	Serum phenylalanine - CDC short method.
Ky.	-
La.	PKU analysis.
Me.	-
Md.	Carcinogens, air quality.
Mass.	-
Mich.	Fluorometric procedures used for the determination of morphine and phenothiazines in body fluids and tissues. Lab. has on occasion determined hallucinogens and quinine in materials such as powders, capsules, and tablets (obtained from illicit sources), submitted by law enforcement agents.
Minn.	-
Miss.	-
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	-
N.M.	*
N.Y.	*
N.C.	Hochella-Tyrosine.
N.D.	-
Ohio	Fluorometric phenylalanine (quantitative).
Okla.	(PKU screen with Guthrie Method. Fluorometric confirmation by outside agencies.)
Ore.	McCaman-Robins (Ambrose modification).
Pa.	*
R.I.	McCaman-Robins.
S.C.	-
S.D.	-
Tenn.	-
Tex.	McCaman-Robins method for phenylalanine. Udenfriend method for tyrosine. Fluorometric method for selenium.

TABLE 13-6. FLUOROMETRIC PROCEDURES  
(Continued)

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What fluorometric procedures do you use?

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Utah	Beryllium in air samples only.
Vt.	-
Va.	Ambrose manual macro fluorometric.
Wash.	McCaman-Robins for confirmation of Guthrie tests.
W.Va.	Hill method for PKU.
Wisc.	Triglycerides, PKU, LDH - isoenzymes.
Wyo.	-
Guam	-
P.R.	-
V.I.	-



TABLE 13-7. ALCOHOL PROGRAMS

	(a) Do you have an alcohol program?	(b) If yes, give a brief description.
Ala.	-	-
Alaska	(Alcohol Program is in the office of the Commissioner.)	(Program covers half-way houses, treatment centers, and educational activities. Grants made to local communities for establishment of local alcohol treatment programs.)
Ariz.	X	Issuance of analyst permits to qualified applicants of laboratories after successful completion of written and practical examination. Biannual proficiency testing of holders of analyst permits. Monitoring and approval of courses for training applicants for operator permits. Issuance of operator permits to qualified applicants of law enforcement agencies. Approval of breath testing devices.
Ark.	-	-
Cal.	*	*
Colo.	X	Certification of testing facilities throughout State. Gas chromatograph. Analysis of bloods from fatal auto and aircraft accidents.
Conn.	X	Samples of blood, urine, and breath are submitted for alcohol analyses by law enforcement agencies for driving under the influence cases. Alcohol determinations are also made on blood and organs in cases involving highway fatalities, homicides, and death from unknown causes. These determinations are done for medical examiners and pathologists. At present, all alcohol determinations are done by gas chromatography.
Del.	-	-
D.C.	X	Test urine specimens for local Police Dept. Planning in FY 73 to begin breath testing.
Fla.	X	The Florida Implied Consent Law was passed in 1967 and became effective in 1969. The Div. of Health was charged with responsibility of approving breath testing equipment, certifying, and permitting of qualified personnel performing breath or blood alcohol tests, and calibration of test equipment. Enforcement of the law rests with the Dept. of Highway Safety and Motor Vehicles, State and local law enforcement agencies. The Dept. of Education supervises and conducts breath testing training courses for law enforcement technicians. As of Dec. 31, 1971, there were 2,315 individuals approved for alcohol testing. Of these, 2,269 were permitted as alcohol breath testing technicians, 70 as testing instructors, and 46 chemists and technologists for performance of blood alcohol tests. In addition, 255 breathalyzer machines were registered. Permits are re-issued to breath testing technicians on the basis of satisfactory completion of re-qualifying courses every three years and satisfactory performance in annual on-site proficiency testing. Chemists and technologists are required to demonstrate proficiency in testing of unknowns sent out quarterly. Blood alcohol tests are also performed on request.
Ga.	-	-
Hawaii	-	-

TABLE 13-7. ALCOHOL PROGRAMS  
(Continued)

(a) Do you have an alcohol program?	(b) If yes, give a brief description.
Ida. X	Joint effort with all law enforcement agencies. Financing is obtained through grants from Traffic Safety Commission. State has five testing stations scattered throughout the State. Instrumentation used is Lucky Laboratories Alco-Analyzer and modified Varian Model 600-D gas chromatograph. Currently use both SM-2 and SM-7 collection kits; plans are to discontinue SM-2 kit. All drivers, pedestrians, and motorcycle operators involved in fatal accidents are tested for the presence of alcohol and drugs. Recent legislation allows for a certification program for all laboratories performing alcohol tests. This program is to be handled by State Dept. of Environmental Protection and Health Laboratories Division.
Ill. X	Testing is done on blood samples for alcohol, carbon monoxide, and volatile drugs on all persons involved in a fatal car accident who are designated as a driver, suspected driver, or pedestrian. Pedestrians must be 16 years of age or older. Cook County tests are not done by State Lab, but by their own toxicological laboratory.
Ind. - Ia. X	- The indium tube breath encapsulation method is employed, with specimens submitted from law enforcement offices throughout the State. In the near future, an analysis for blood alcohol levels will also be available from the laboratory.
Kans. X	Analysis of blood for law enforcement officers, physicians, hospitals, coroners, etc. Scientific supervision and quality control of breath testing program of Kansas Highway Patrol. (Gas chromatography).
Ky. - La. X	- Act No. 273-1968 states: "Chemical analyses of the person's blood, urine, breath or other bodily substance, to be considered valid under the provisions of this Part, shall have been performed according to methods approved by the State department of health and by an individual possessing a valid permit issued by said department for this purpose. The State department of health is authorized to approve satisfactory techniques or methods, to ascertain the qualifications and competence of individuals to conduct such analyses, and to issue permits which shall be subject to termination or revocation at the discretion of the department."
Me. X	Under implied consent law of 1967, laboratory analyzes approximately 50% of blood and breath samples obtained by Maine law enforcement personnel; distributes blood and breath collection containers; conducts visitation and proficiency testing program for certification of analysts; trains law officers in breath collection techniques; financed by Federal Department of Transportation.
Md. - Mass. -	- -

TABLE 13-7. ALCOHOL PROGRAMS  
(Continued)

(a) Do you have an alcohol program?	(b) If yes, give a brief description.
Mich. X	The Laboratory determines blood and urine alcohol levels in specimens received from law enforcement agents, medical examiners, pathologists, physicians, and subjects arrested for driving under the influence. The Lab sets the standards for alcohol testing in Mich. as authorized by statute. It supervises and participates in a State-wide Breathalyzer program to train and certify police officers as Breathalyzer Operators, sets standards for instrument calibration, maintenance and repair; conducts annual recertification testing of the operators. Lab is assisted by the Michigan State University in these activities.
Minn. -	-
Miss. X	Training, issuing permits, etc., to law officers in breath testing program. (Highway Program). State Implied Consent Law - Breath analysis.
Mo. X	Funded through Highway Safety Division from Department of Transportation. SM-7 Sobermeters supplied to law enforcement officers and are then analyzed in the State Lab. Fourteen Alco-Analyzers have been set up in Police Departments. The Lab is responsible for quality control of the whole program and training of officers in the use of the equipment. (1972 grant = \$76,835; 1973 Grant = \$40,354).
Mont. X	Approval of methods and performance of certified chemists (same since 1949). Plan to start performing tests for State Patrol 10/1/72, using gas chromatography on blood, urine, and trapped breath.
Nev. -	-
N.H. (Under Div. of Pub. Health, Bur. of Drug Abuse and Alcohol.)	-
N.J. -	-
N.M. *	*
N.Y. *	*
N.C. -	-
N.D. -	-
Ohio X	This is entitled the Alcohol Test, Approval and Permit Program and is supported in part by funds coming from the Highway Safety Act. A major part of this program is training, testing, and issuing permits to police officers and laboratories for alcohol breath (and laboratory) testing. Calibration solutions and proficiency test specimens are prepared and distributed. Manual preparation, field inspections, and public relations constitute the rest of the program.
Okla. -	-
Ore. (Handled by Occupational Health Sect.)	-
Pa. *	*
R.I. X	*
S.C. (Under State Law Enforcement Div.)	-
S.D. -	-
Tenn. -	-
Tex. -	-
Utah (Service, not a program.)	-
Vt. X	Gas chromatography performed on blood and urine samples.
Va. -	-

TABLE 13-7. ALCOHOL PROGRAMS  
(Continued)

(a) Do you have an alcohol program?	(b) If yes, give a brief description.
Wash. - W.Va. - Wisc. X	- - Coroners - in all traffic fatalities. Blood Alcohol - traffic safety - law enforcement officers submit specimens under Implied Consent Law. Subjects may also request tests. Certification - quality control, mandatory program for all laboratories doing Implied Consent tests.
Wyo. X	General toxicology - as requested. Under Implied Consent, Division of Health and Medical Services is responsible for certifying personnel to perform chemical tests for alcohol. No labs in State have requested approval; therefore, all blood alcohol testing is performed in State Lab. This lab also works with law enforcement agencies in training, certifying and monitoring breath alcohol testing equipment and personnel.
Guam - P.R. X	- The Toxicology Alcohol Program is in charge of the alcohol determination in blood and urine samples, as part of a Program of the Department of Justice to guarantee the fulfillment of Law 141, Section 5-801 and its regulations. One of the aims of the program is the reduction of transit accidents (mortality) and its effects on the economy of the country.
V.I. -	-

TABLE 13-8. SICKLE CELL DETECTION PROGRAMS

(a) Do you have a sickle cell detection program?		(b) If yes, give a brief description.
Ala.	X	An article entitled, "Testing for Hemoglobinopathies in a Public Health Laboratory" published in "The Public Health Laboratory": Volume 30, Number 3, May 1972; pages 102-105, by Thomas S. Hosty, Gary Tomlin and Ruby Atkins, of the Alabama Bureau of Laboratories, reports results on a six-month investigation of numerous methods for the collection of specimens and testing for hemoglobinopathies which could be used by a public health laboratory. The results showed that abnormal hemoglobin could be detected from blood collected on filter paper and mailed to a State laboratory.
Alaska	-	Program under discussion with possibility of funding through the Washington/Alaska Regional Medical Program. Services to be given through local health agencies and a private laboratory with a research interest in the problem of abnormal hemoglobin.
Ariz.	X	Will be implemented in Fiscal Year 1973.
Ark.	X	Hemoglobin electrophoresis. Presently limited to certain Health Department Clinics due to lack of funds.
Cal.	*	*
Colo.	-	-
Conn.	X	The Laboratory Division provides laboratory analyses for a statewide sickle cell anemia screening program. The program was initiated with funds from a special act of the 1971 Connecticut General Assembly. At present, it is supported in part by a contract with HEW. All screening is done using electrophoresis. A discontinuous buffer system utilizing mylar-backed cellulose acetate paper is employed and the laboratory has the capability of performing up to 800 analyses per day.
Del.	X	In preparation now - will begin in 1972.
D.C.	X	Screen with Sickledex or Nalbandian Solution. Follow with electrophoresis on positives. New federal grant will require electrophoresis on all specimens.
Fla.	X	Plans instituted to screen "Aid to Dependent Children" recipients for hemoglobinopathies by electrophoresis method during 1972.
Ga.	-	-
Hawaii	-	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	X	A program is in the planning stage.
Kans.	-	-
Ky.	-	-
La.	X	Beginning program 1972-73 Fiscal Year.
Me.	-	-
Md.	X	State law provides testing and counseling. Extensive program underway for testing of school children by electrophoresis.
Mass.	-	-
Mich.	-	-
Minn.	-	-
Miss.	X	Just starting. Electrophoresis. Screening 6-year olds (State law). Screening in college. Screening service in local health depts. on request of patient.

TABLE 13-8. SICKLE CELL DETECTION PROGRAMS  
(Continued)

(a) Do you have a sickle cell detection program?	(b) If yes, give a brief description.
Mo. X	In the process of developing a Sickle Cell Detection Program, which is expected to be coordinated with community efforts and the Medicaid Program.
Mont. -	(Black population in Montana would never justify this.)
Nebr. -	(Only program is in Omaha, administered by City & County Health Dept. Local lab performs screening and electrophoresis.)
Nev. X	Occasional survey, sporadic requests.
N.H. -	-
N.J. -	-
N.M. *	*
N.Y. *	*
N.C. -	-
N.D. -	(Population at risk less than 0.1 of 1 percent.)
Ohio X	This program is just starting, and Lab does not know what workloads will be or the exact extent of the program. Recent legislation has been passed, but the Lab's role is rather vague. A chemist has been sent to a training program, and electrophoresis equipment has been purchased for this purpose.
Okla. X	Program initiated FY 1973.
Ore. -	-
Pa. *	*
R.I. X	Principally screening of black students in primary and secondary schools. In FY 1972, 2,806 were tested.
S.C. X	Recently implemented. Electrophoresis equipment. Specimens to be submitted from all County Health Departments and Clinics.
S.D. -	-
Tenn. -	-
Tex. -	-
Utah -	(Not in the time period covered by this report.)
Vt. -	-
Va. X	Program not yet operational. Required by law. Will probably use electrophoresis with filter paper collection.
Wash. X	In September 1971, the Division of Social and Health Services began a program in cooperation with the Seattle-King County Health Dept. to reduce the incidence of sickle cell anemia. Methods for accomplishing this goal were primarily by: (1) Public education to increase awareness in the total population regarding sickle cell anemia and what can be done about it. (2) Developing area and State-wide laboratory screening programs. (3) Developing a well-qualified staff of genetic counselors for sickle cell anemia and trait carriers. To date, 698 individuals have been tested and genetic counseling of the trait carriers found has begun.
W.Va. -	-

TABLE 13-8. SICKLE CELL DETECTION PROGRAMS  
(Continued)

(a) Do you have a sickle cell detection program?	(b) If yes, give a brief description.
Wisc. X	When requested, the sample is first screened using the Ortho Sickledex system, and a peripheral smear is made, stained, and examined for evidence of sickling. All suspicious and/or positive specimens are electrophoresed using the Gelman Sepra-Tek cellulose acetate method.
Wyo. -	-
Guam -	-
P.R. -	-
V.I. -	There are plans to start a screening program in January 1973.