

CONSOLIDATED ANNUAL REPORT

on

State and Territorial Public Health Laboratories Fiscal Year 1971



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 1971
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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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1970 - 1972

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INTRODUCTION

INTRODUCTION

"The time has come," the Walrus said, "to talk of many things.
Of personnel - and finances - and diagnostic determinings."

As the above paraphrase of Lewis Carroll's *The Walrus and The Carpenter* states, it is that time again. This is the eighth Consolidated Annual Report (CAR) issued for use by the Association of State and Territorial Public Health Laboratory Directors (ASTPHLD).

Data for the fiscal year ending June 30, 1971, is reported herein by the ASTPHLD laboratories in Washington, D.C., Guam, Puerto Rico, the Virgin Islands, and forty-four States. Florida, New Mexico, New York, and Virginia reported data for the calendar year 1971. No data was received from California and Colorado.

Although there is no major change in the format from last year, several minor variations deserve explanation.

<u>SECTION NUMBER</u>	<u>VARIATION FROM 1970 CAR</u>
II	Information on new positions established and positions abolished during the reporting year has been added.
III	This section contains only information on training received by State laboratory staff members. All other training information is contained in the new training report - State Public Health Laboratory Annual Training Activities Report - which was distributed in July, 1971.
V	Information in this section on Intrastate Evaluation of Laboratories and Proficiency Testing Programs under Medicare have been combined.
VII	Tables on automated laboratory procedures have been put with the data processing information in this section.
IX	This is a new section entitled: Laboratory Field Activities.
X	New information in this section includes: (1) Laboratory organizational changes during the year, (2) grants and contracts with other departments or agencies and (3) laboratory newsletters.
XII	This is a new section of Special Questions on Diagnostic Workload dealing with current topics.

A committee is studying the data reporting needs of the ASTPHLD. One item of concern is the CAR. Some suggested changes in format or philosophy might be presented to the ASTPHLD in the near future.

Since data for one point in time is less useful than data that can be compared over earlier periods of time to determine progress (or lack of it), a limited number of graphs and charts have been included. One each is at the beginning of Sections II, III, IV, and V. Two data displays are placed at the beginning of Section I. The data shown for 1971 in Figure 6 includes Medicare laboratories. These six data displays hopefully show what type data is contained herein and how it might be illustrated.

It should be emphasized that the CAR reflects work done by the State and Territorial Public Health Laboratories. If some type of activity is not reported herein for a given State, it may mean that some other State 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 this Annual 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 States.

SECTION I

SUMMARY TABLES

Figure 1

PERCENTAGE OF PERSONNEL, EXPENDITURES, AND SPACE ALLOTTED TO INTRA-STATE LABORATORY IMPROVEMENT PROGRAMS

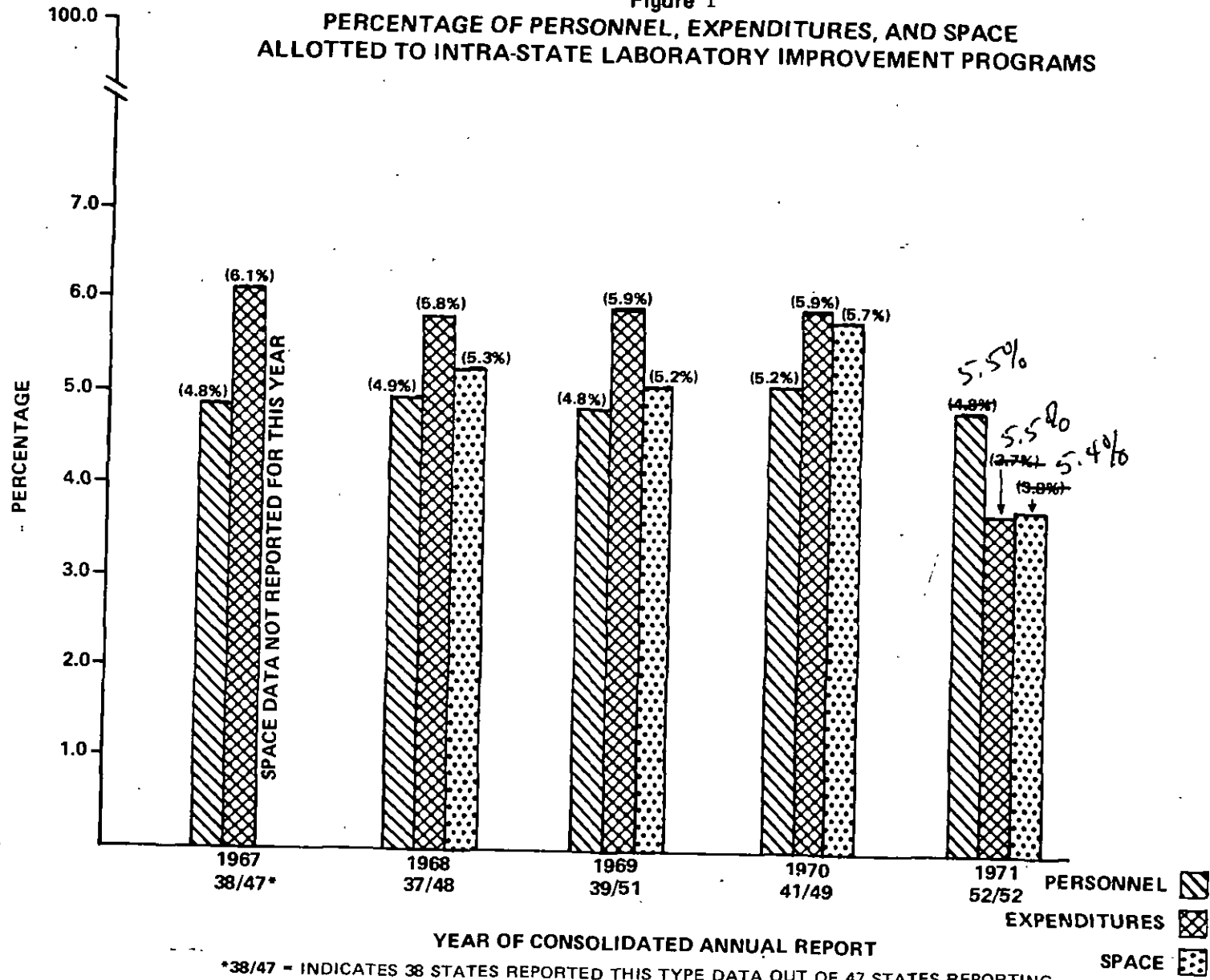
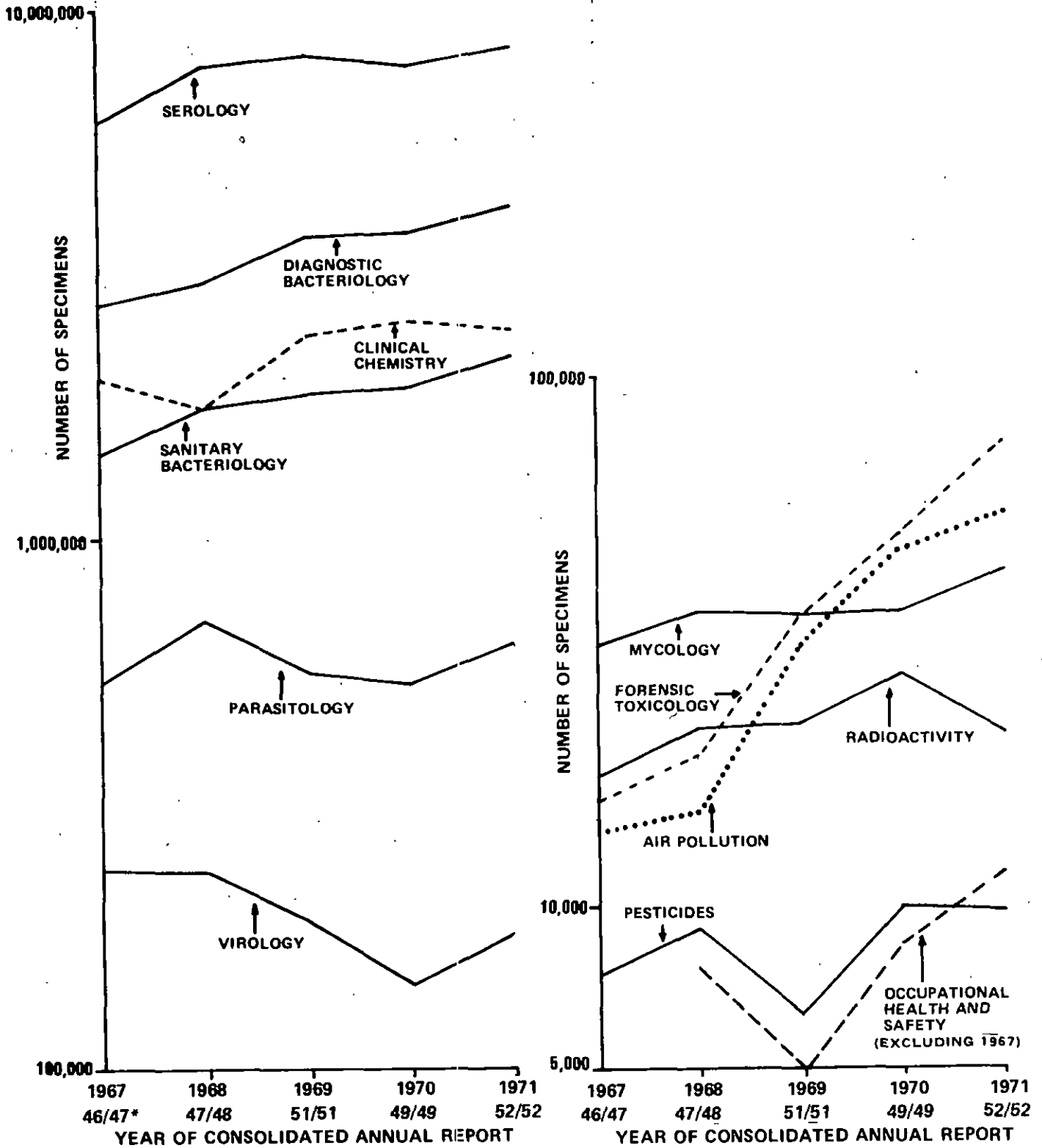


Figure 2
SPECIMENS RECEIVED



*46/47 - INDICATES 46 STATES REPORTED THIS TYPE DATA OUT OF 47 STATES REPORTING

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.	80.0	80.0	85.0	10.0	10.0	10.0
Alaska	91.2	99.0	100.0	-	1.0	-
Ariz.	55.0	*	*	6.0	*	*
Ark.	80.0	90.0	80.0	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	85.0	93.0	85.0	5.0	2.0	5.0
Del.	90.0	*	100.0	-	*	-
D.C.	97.0	97.0	95.0	-	-	-
Fla.	88.0	83.0	80.0	8.0	7.0	15.0
Ga.	96.0	>95.0	>96.0	0.02	<1.0	<1.0
Hawaii	100.0	>99.0	100.0	-	-	-
Ida.	99.5	100.0	82.5	-	-	17.0 (a)
Ill.	80.4	80.4	54.5	0.8	0.8	0.5
Ind.	96.0	*	94.0	2	*	2.0
Ia.	85.0	80.0	85.0	10.0	10.0	10.0
Kans.	59.7	93.6	48.5	-	-	-
Ky.	92.0	*	89.0	-	*	10.0
La.	46.2	*	*	-	*	*
Me.	98.0	*	98.0	-	*	-
Md.	62.5	81.6	80.0	-	-	-
Mass.	50.5	48.0	32.8	1.4	9.7	-
Mich.	59.7	35.0	19.4	12.1	12.6	10.4
Minn.	94.8	93.4	96.0	1.3	2.0	2.0
Miss.	98.0	98.0	95.0	1.0	1.0	3.0
Mo.	90.0	*	80.0	-	-	-
Mont.	94.0	90.0	90.0	-	-	-
Nebr.	85.0	92.0	*	-	-	-
Nev.	95.0	95.0	95.0	4.0	2.0	*
N.H.	100.0	100.0	100.0	-	-	-
N.J.	74.0	85.0	85.0	20.0	12.0	10.0
N.M.	57.0	99.0	73.0	-	-	-
N.Y.	27.0	27.0	15.0	28.0	38.0	53.0
N.C.	64.7	98.0 (b)	58.5	-	-	-
N.D.	95.0	98.5	98.0	-	-	-
Ohio	73.0	80.5	23.7	2.0	1.5	4.4
Okla.	98.4	*	100.0	-	*	-
Ore.	93.4	88.0	93.0	-	-	-
Pa.	*	75.0	45.0	*	20.0	11.0
R.I.	98.0	98.0	100.0	1.0	1.0	-
S.C.	85.0	*	80.0	10.0	*	10.0
S.D.	100.0 (c)	100.0	95.0	- (c)	-	3.0
Tenn.	91.7	91.0	97.9	0.7	1.0	0.1
Tex.	92.0	85.0	55.0	0.5	1.0	5.0
Utah	64.0	90.0	95.0	3.0	-	-
Vt.	99.0	84.0	100.0	-	-	-
Va.	95.5	*	100.0	0.5	*	-
Wash.	56.5	45.0	48.0	-	-	-
W.Va.	78.0	78.8	82.0	2.0	2.0	3.0
Wisc.	70.0	80.0	80.0	19.0	10.0	10.0
Wyo.	100.0	100.0	100.0	-	-	-
Guam	95.0	95.0	90.0	5.0	5.0	10.0
P.R.	47.0	60.0	38.0	2.0	5.0	2.0
V.I.	93.0	93.0	*	5.0	5.0	*

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

	Laboratory Program Service								
	Production of Biologics			Intrastate Laboratory Improvement			Other		
	Personnel	Expenditures	Space	Personnel	Expenditures	Space	Personnel	Expenditures	Space
	%	%	%	%	%	%	%	%	%
Ala.	-	-	-	10.0	10.0	5.0	-	-	-
Alaska	-	-	-	0.8	-	-	8.0 (d)	-	-
Ariz.	12.0	*	*	7.0	*	*	20.0	*	*
Ark.	-	-	-	20.0	10.0	20.0	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	-	-	-	9.0	5.0	10.0	1.0 (e)	-	-
Del.	-	*	-	10.0	*	-	-	*	-
D.C.	-	-	-	3.0	3.0	5.0	-	-	-
Fla.	-	-	-	4.0	10.0	5.0	-	-	-
Ga.	0.01	<1.0	-	4.0	<3.0	3.0	-	-	-
Hawaii	-	<1.0	-	-	<1.0	-	-	-	-
Ida.	-	-	-	0.5	-	0.5	-	-	-
Ill.	3.3	3.3	5.0	5.7	5.7	2.0	9.8	9.8	38.0
Ind.	-	*	-	2.0	*	4.0	-	*	-
Ia.	(f)	-	-	5.0	10.0	5.0	-	-	-
Kans.	-	-	-	3.0	6.4	2.4	37.3 (g)	-	49.1
Ky.	-	-	-	8.0	*	1.0	-	-	-
La.	1.8	*	*	6.0	*	*	46.0	*	*
Me.	-	*	-	2.0	*	2.0	-	-	-
Md.	-	-	-	2.3 (h)	2.4 (h)	5.0	35.2 (i)	16.0 (j)	15.0(k)
Mass.	39.1	41.8	63.4	4.3 (1)	0.5	3.8	4.7	-	-
Mich.	25.6	20.2	15.4	2.6	2.3	0.1	-	29.9	54.7
Minn.	1.3	-	-	2.6	4.6	2.0	-	-	-
Miss.	0.4	0.4	2.0	0.6	0.6	-	-	-	-
Mo.	-	-	-	10.0	*	20.0	-	-	-
Mont.	-	-	-	6.0	10.0	10.0	-	-	-
Nebr.	-	-	-	3.0	1.0	*	8.0	5.0	*
Nev.	-	-	-	5.0	5.0	5.0	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	6.0	3.0	5.0	-	-	-
N.M.	-	-	-	1.0	1.0	2.0	42.0	-	25.0
N.Y.	-	5.0	-	1.0	5.0	-	44.0 (m)	25.0	32.0
N.C.	-	0.5	-	1.7	1.5	1.5	33.6 (b)	-	40.0(b)
N.D.	-	-	-	5.0	1.5	2.0	-	-	-
Ohio	-	-	-	5.0	5.0	1.4	20.0	13.0	70.5(n)
Okla.	-	-	-	1.6	*	-	-	-	-
Ore.	-	-	-	6.6	12.0	7.0	-	-	-
Pa.	-	-	-	*	5.0	4.0	*	-	40.0
R.I.	-	-	-	1.0	1.0	-	-	-	-
S.C.	-	-	-	5.0	*	5.0	-	*	5.0
S.D.	-	-	-	- (c)	-	2.0	-	-	-
Tenn.	3.4	2.5	1.0	4.2	5.5	1.0	-	-	-
Tex.	7.0	9.0	15.0	0.5	5.0	5.0	-	-	20.0
Utah	-	-	-	10.0	10.0	5.0	23.0 (b)	-	-
Vt.	-	15.0 (o)	-	1.0	1.0	-	-	-	-
Va.	2.0	*	-	2.0	*	-	-	-	-
Wash.	-	-	-	26.1	13.0	14.0	17.4 (k)	42.0 (p)	38.0(q)
W.Va.	-	-	-	20.0	20.0	15.0	-	-	-
Wisc.	-	-	-	11.0	10.0	10.0	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	5.0	25.0	7.0	-	-	5.0	46.0	10.0	48.0
V.I.	-	-	-	2.0	2.0	*	-	-	-

TABLE 1-2. SUMMARY OF LABORATORY SPECIMENS AND EXAMINATIONS

	Total Specimens	Total Exams	Examinations:			
			Diagnostic Bacteriology	Mycology	Parasitology	Virology
Ala.	873,991	1,409,597	458,756	13,378	39,083	3,950
Alaska	100,006	131,583	65,259	222	699	173 (s)
Ariz.	194,760 (r)	298,409 (r)	69,680	5,587	1,375	2,374
Ark.	209,854	325,123 (r)	100,288	15,256	2,389	2,564 (s)
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	651,668 (r)	1,224,863	470,702	27,339	43,419	13,488
Del.	134,898	171,406 (r)	18,216	-	6,841	380 (s)
D.C.	514,330	* (t)	244,338	284	68,691	1,824
Fla.	1,797,309	2,304,274	609,393	7,462	175,581	10,870
Ga.	992,913 (r)	1,310,379	174,612	748	139,926	13,950
Hawaii	168,887	279,876	171,429	2,800	4,960	3,313
Ida.	106,455	209,938	31,448	339	392	273 (s)
Ill.	323,799	546,962	162,173	5,027	24,388	7,237
Ind.	230,734	348,742 (r)	60,340	1,534	15,755	7,161
Ia.	338,428	604,462 (r)	99,509	1,006	1,969	26,024
Kans.	273,403	482,204	162,265	590	5,552	7,197
Ky.	297,136	474,703	110,073	1,481	7,794	5,783
La.	861,022	1,200,927	493,298	1,280	42,861	10,077
Me.	187,485	392,767 (r)	63,354	87	2	4,989
Md.	818,953 (r)	1,273,866	388,982	2,961	9,652	3,715
Mass.	*	* (t)	*	*	-	4,539
Mich.	1,068,163 (r)	1,513,955 (r)	574,951	9,326	104,340	6,635
Minn.	* (t)	541,082	101,413	4,160	8,161	8,772
Miss.	581,192	763,473	209,134	1,690	9,985	1,285 (s)
Mo.	248,945	574,181	152,665	2,872	1,532	12,282
Mont.	*	*	18,762	98	124	281
Nebr.	115,853	158,448	12,197	36	325	1,686 (s)
Nev.	92,132 (r)	156,783	33,532	44	1,294	-
N.H.	138,753	166,040	55,905	92	542	496 (s)
N.J.	* (t)	2,369,970	185,725	80	2,013	59,730
N.M.	* (t)	* (t)	*	687	*	*
N.Y.	* (t)	995,982 (r)	26,482	5,600	3,427	15,280
N.C.	* (t)	1,203,238	153,218	586	11,532	4,716
N.D.	137,314 (r)	275,501	133,109	392	2,465	1,202
Ohio	565,789	901,374	301,369	850	2,302	15,605
Okla.	283,862 (r)	* (t)	*	2,015	2,173	6,212
Ore.	367,137	429,646	91,805	229	1,597	1,945
Pa.	222,967 (r)	421,075	192,432	668	620	12,336
R.I.	* (t)	362,278 (r)	77,609	1,000	4,070	465 (s)
S.C.	* (t)	773,962	81,696	14,880	21,200	1,233
S.D.	77,264 (r)	120,048	31,935	260	422	226 (s)
Tenn.	776,485	965,540	259,618	1,842	11,605	5,200
Tex.	* (t)	2,204,137 (r)	615,728	4,513	22,754	34,007
Utah	144,282 (r)	235,324 (r)	46,942	64	1,731	3,733
Vt.	168,142	206,691 (r)	91,725	279	310	756
Va.	540,438 (r)	713,417 (r)	217,188	13,298	23,519	3,580
Wash.	97,387	221,416	89,572	3,304	1,417	8,042
W.Va.	167,245	336,447 (r)	70,020	849	5,738	3,510
Wisc.	712,476	945,618	233,997	3,115	6,721	12,361
Wyo.	280,408	300,883 (r)	272,572	-	68	235 (s)
Guam	35,461	43,965 (r)	6,975	1	4,888	98 (s)
P.R.	* (t)	449,085 (r)	40,291	125	29,104	188 (s)
V.I.	31,406	39,685	8,825	116	6,343	-

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

	Examinations:						All Other Examinations
	Syphilis Serology	All Other Serology	Sanitary Bacteriology	Clinical Chemistry	PKU, MSUD	Sanitary Chemistry	
Ala.	397,134	41,158	233,837	3,871	86,964	74,379	57,087
Alaska	31,471	2,499	15,181	-	172	5,361	10,546
Ariz.	90,652	21,662	43,469	27,588	-	20,339	15,683
Ark.	112,845	10,810	54,113	5,824	18,475	-	2,559
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	122,144	51,141	72,267	62,992	88,265	189,089	84,017
Del.	41,777	-	20,440	5,775	19,144	-	58,833
D.C.	192,257	*	27,338	58,943	-	35,141	242,507
Fla.	834,005	49,316	219,695	68,301	74,006	39,390	216,255
Ga.	590,860	46,911	65,078	5,060	73,620	-	199,614
Hawaii	36,288	11,675	31,304	954	-	12,805	4,348
Ida.	28,499	7,563	45,327	-	13,706	55,556	26,835
Ill.	115,065	52,103	82,801	-	4,088	65,633	28,447
Ind.	129,300	17,830	59,269	-	-	55,319	2,234
Ia.	174,386	53,375	162,370	2,920	4,503	62,127	16,273
Kans.	121,212	13,719	71,239	771	18,636	73,095	7,928
Ky.	126,790	44,382	91,708	16,333	42,079	9,948	18,332
La.	305,831	26,600	200,632	16,416	58,188	29,934	15,810
Me.	51,836	27,031	23,662	-	30,795	173,380	17,631
Md.	198,548	84,486	117,510	110,810	64,300	111,473	181,429
Mass.	376,559	*	*	-	184,469	-	-
Mich.	339,881	36,816	107,876	67,436	119,043	90,702	56,949
Minn.	187,569	66,180	9,167	-	79,866	50,666	25,128
Miss.	277,934	10,337	87,247	122,924	-	-	42,937
Mo.	81,647	143,881	101,702	7,525	48,234	20,655	1,186
Mont.	32,253	9,971	16,595	1,142	12,095	*	*
Nebr.	82,662	11,964	20,036	-	785	26,677	2,080
Nev.	42,788	1,456	26,650	-	13,196	33,173	4,650
N.H.	50,643	519	-	19,819	20,786	-	17,238
N.J.	271,867	1,587,879	22,832	22,512	98,591	97,607	21,134
N.M.	66,749	*	*	-	17,131	*	*
N.Y.	146,491	31,989	97,563	169,483	179,752	253,336	66,579
N.C.	376,847	36,853	143,965	191,991	95,337	59,798	128,395
N.D.	51,604	12,548	43,343	-	-	8,128	22,710
Ohio	112,910	34,481	68,363	86,107	184,020	84,726	10,641
Okla.	156,149	12,076	90,081	3,790	*	4,001	9,978
Ore.	95,058	42,602	50,161	-	146,238	-	11
Pa.	32,147	29,248	35,998	3,184	111,692	-	2,750
R.I.	53,356	20,911	11,494	98,151	33,948	-	61,274
S.C.	381,177	40,545	74,338	34,462	36,256	35,046	53,129
S.D.	31,944	18,004	28,483	-	-	8,774	-
Tenn.	468,452	23,403	81,657	7,652	65,743	-	40,368
Tex.	466,217	39,611	692,107	17,957	151,865	156,882	2,496
Utah	73,309	15,725	24,808	12,830	-	42,666	13,516
Vt.	36,500	13,449	20,162	22,712	-	18,953	1,845
Va.	194,134	31,995	103,706	15,992	95,362	6,893	7,750
Wash.	44,305	10,963	25,292	21	15,399	23,101	-
W.Va.	51,596	2,999	39,184	108,769	25,438	-	28,344
Wisc.	213,530	64,259	61,557	136,258	7	47,606	166,207
Wyo.	12,878	6,129	8,980	-	-	-	21
Guam	5,037	6	4,005	3,047	1,318	-	18,590
P.R.	134,499	5,023	74,052	48,082	-	12,390	105,331
V.I.	11,515	358	5,678	5,247	-	1,161	442

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

	Diagnostic Bacteriology	Mycology and Parasitology	Virology	All Serology	Sanitary Bact. and Chem.	Clin. Chem. (u)	Other
Ala.	32.6	3.7	0.3	31.1	21.9	6.4	4.0
Alaska	49.6	0.7	0.1	25.8	15.6	0.2	8.0
Ariz.	23.4	2.3	0.8	37.6	21.4	9.2	5.3
Ark.	30.9	5.4	0.8	38.0	16.6	7.5	0.8
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	38.4	5.8	1.1	14.2	21.3	12.3	6.9
Del.	10.6	4.0	0.2	24.4	11.9	14.6	34.3
D.C.	*	*	*	*	*	*	*
Fla.	26.4	7.9	0.5	38.3	11.3	6.2	9.4
Ga.	13.3	10.7	1.1	48.7	5.0	6.0	15.2
Hawaii	61.3	2.8	1.2	17.1	15.8	0.3	1.5
Ida.	15.0	0.3	0.1	17.2	48.1	6.5	12.8
Ill.	29.7	5.4	1.3	30.6	27.1	0.7	5.2
Ind.	17.3	5.0	2.1	42.2	32.8	-	0.6
Ia.	16.5	0.5	4.3	37.7	37.1	1.2	2.7
Kans.	33.7	1.3	1.5	28.0	29.9	4.0	1.6
Ky.	23.2	2.0	1.2	36.0	21.4	12.3	3.9
La.	41.1	3.7	0.8	27.7	19.2	6.2	1.3
Me.	16.1	-	1.3	20.1	50.2	7.8	4.5
Md.	30.5	1.0	0.3	22.2	18.0	13.8	14.2
Mass.	*	*	*	*	*	*	*
Mich.	38.0	7.5	0.4	24.9	13.1	12.3	3.8
Minn.	18.7	2.3	1.6	46.9	11.1	14.8	4.6
Miss.	27.4	1.5	0.2	37.8	11.4	16.1	5.6
Mo.	26.6	0.8	2.1	39.3	21.3	9.7	0.2
Mont.	*	*	*	*	*	*	*
Nebr.	7.7	0.2	1.1	59.7	29.5	0.5	1.3
Nev.	21.4	0.9	-	28.2	38.1	8.4	3.0
N.H.	33.7	0.4	0.3	30.8	-	24.4	10.4
N.J.	7.8	0.1	2.5	78.5	5.1	5.1	0.9
N.M.	*	*	*	*	*	*	*
N.Y.	2.7	0.9	1.5	17.9	35.2	35.1	6.7
N.C.	12.7	1.0	0.4	34.4	16.9	23.9	10.7
N.D.	48.3	1.0	0.4	23.3	18.7	-	8.3
Ohio	33.4	0.3	1.7	16.4	17.0	30.0	1.2
Okla.	*	*	*	*	*	*	*
Ore.	21.4	0.4	0.5	32.0	11.7	34.0	-
Pa.	45.7	0.3	2.9	14.6	8.5	27.3	0.7
R.I.	21.4	1.4	0.1	20.5	3.2	36.5	16.9
S.C.	10.5	4.7	0.2	54.5	14.1	9.1	6.9
S.D.	26.6	0.6	0.2	41.6	31.0	-	-
Tenn.	26.9	1.4	0.5	50.9	8.5	7.6	4.2
Tex.	27.9	1.2	1.6	23.0	38.5	7.7	0.1
Utah	19.9	0.8	1.6	37.8	28.7	5.5	5.7
Vt.	44.4	0.3	0.4	24.1	18.9	11.0	0.9
Va.	30.4	5.2	0.5	31.7	15.5	15.6	1.1
Wash.	40.4	2.1	3.6	25.0	21.9	7.0	-
W.Va.	20.8	2.0	1.1	16.2	11.6	39.9	8.4
Wisc.	24.8	1.0	1.3	29.4	11.5	14.4	17.6
Wyo.	90.6	-	0.1	6.3	3.0	-	-
Guam	15.9	11.1	0.2	11.5	9.1	9.9	42.3
P.R.	9.0	6.5	0.0	31.1	19.2	10.7	23.5
V.I.	22.2	16.3	-	29.9	17.3	13.2	1.1

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

	Estimated Population (v)	No. Specimens	No. Exams	Ratio of Specimens to Exams	Ratio of Exams to Population
Ala.	3,444,000	873,991	1,409,597	1:1.6	1:2.4
Alaska	302,000	100,006	131,583	1:1.3	1:2.3
Ariz.	1,772,000	194,760	298,409	1:1.5	1:5.9
Ark.	1,923,000	209,854	325,123	1:1.6	1:5.9
Cal.	19,953,000	*	*	*	*
Colo.	2,207,000	*	*	*	*
Conn.	3,032,000	651,668	1,224,863	1:1.9	1:2.5
Del.	548,000	134,898	171,406	1:1.3	1:3.2
D.C.	757,000	514,330	*	*	*
Fla.	6,789,000	1,797,309	2,304,274	1:1.3	1:3.0
Ga.	4,590,000	992,913	1,310,379	1:1.3	1:3.5
Hawaii	770,000	168,887	279,876	1:1.7	1:2.8
Ida.	713,000	106,455	209,938	1:2.0	1:3.4
Ill.	11,114,000	323,799	546,962	1:1.7	1:20.3
Ind.	5,194,000	230,734	348,742	1:1.5	1:14.9
Ia.	2,825,000	338,428	604,462	1:1.8	1:4.7
Kans.	2,249,000	273,403	482,204	1:1.8	1:4.7
Ky.	3,219,000	297,136	474,703	1:1.6	1:6.8
La.	3,643,000	861,022	1,200,927	1:1.4	1:3.0
Me.	994,000	187,485	392,767	1:2.1	1:2.5
Md.	3,922,000	818,953	1,273,866	1:1.6	1:3.1
Mass.	5,689,000	*	*	*	*
Mich.	8,875,000	1,068,163	1,513,955	1:1.4	1:5.9
Minn.	3,805,000	*	541,082	*	1:7.0
Miss.	2,217,000	581,192	763,473	1:1.3	1:2.9
Mo.	4,677,000	248,945	574,181	1:2.3	1:8.2
Mont.	694,000	*	*	*	*
Nebr.	1,484,000	115,853	158,448	1:1.4	1:9.4
Nev.	489,000	92,132	156,783	1:1.7	1:3.1
N.H.	738,000	138,753	166,040	1:1.2	1:4.4
N.J.	7,168,000	*	2,369,970	*	1:3.0
N.M.	1,016,000	*	*	*	*
N.Y.	18,191,000	*	995,982	*	1:18.3
N.C.	5,082,000	*	1,203,238	*	1:4.2
N.D.	618,000	137,314	275,501	1:2.0	1:4.5
Ohio	10,652,000	565,789	901,374	1:1.6	1:11.8
Okla.	2,559,000	283,862	*	*	*
Ore.	2,091,000	367,137	429,646	1:1.2	1:4.9
Pa.	11,794,000	222,967	421,075	1:1.9	1:28.0
R.I.	950,000	*	362,278	*	1:2.6
S.C.	2,591,000	*	773,962	*	1:3.4
S.D.	666,000	77,264	120,048	1:1.6	1:5.6
Tenn.	3,924,000	776,485	965,540	1:1.2	1:4.1
Tex.	11,197,000	*	2,204,137	*	1:5.1
Utah	1,059,000	144,282	235,324	1:1.6	1:4.5
Vt.	445,000	168,142	206,691	1:1.2	1:2.2
Va.	4,648,000	540,438	713,417	1:1.3	1:6.5
Wash.	3,409,000	97,387	221,416	1:2.3	1:15.4
W.Va.	1,744,000	167,245	336,447	1:2.0	1:5.2
Wisc.	4,418,000	712,476	945,618	1:1.3	1:4.7
Wyo.	332,000	280,408	300,883	1:1.1	1:1.1
Guam	87,000	35,461	43,965	1:1.2	1:2.0
P.R.	2,712,000	*	449,085	*	1:6.0
V.I.	63,000	31,406	39,685	1:1.3	1:1.6

TABLE 1-5. RATIOS OF PERSONNEL TO POPULATION

	Estimated Population	Total Personnel (w)	Prof. & Tech. Personnel (w)	Ratio of Total Personnel to Population	Ratio of Prof. & Tech. Personnel to Population
Ala.	3,444,000	170	118	1:20,259	1:29,186
Alaska	302,000	25	12	1:12,080	1:25,167
Ariz.	1,772,000	50	31	1:35,440	1:57,161
Ark.	1,923,000	47	29	1:40,915	1:66,310
Cal.	19,953,000	*	*	*	*
Colo.	2,207,000	*	*	*	*
Conn.	3,032,000	182	114	1:16,659	1:26,596
Del.	548,000	22	16	1:24,909	1:34,250
D.C.	757,000	77	62	1:9,831	1:12,210
Fla.	6,789,000	193	113	1:35,176	1:60,080
Ga.	4,590,000	141 (x)	80 (x)	1:32,553	1:57,375
Hawaii	770,000	46	31	1:16,739	1:24,839
Ida.	713,000	44	32	1:16,205	1:22,281
Ill.	11,114,000	119	67	1:93,395	1:165,881
Ind.	5,194,000	70	41	1:74,200	1:126,683
Ia.	2,825,000	93	61	1:30,376	1:46,311
Kans.	2,249,000	67	42	1:33,567	1:53,548
Ky.	3,219,000	58	31	1:55,500	1:103,839
La.	3,643,000	167	82	1:21,814	1:44,427
Me.	994,000	46	32	1:21,609	1:31,063
Md.	3,922,000	260	165	1:15,085	1:23,770
Mass.	5,689,000	199	119	1:28,588	1:47,807
Mich.	8,875,000	378	210	1:23,479	1:42,262
Minn.	3,805,000	76	45	1:50,066	1:84,556
Miss.	2,217,000	42	24	1:52,786	1:92,375
Mo.	4,677,000	47	28	1:99,511	1:167,036
Mont.	694,000	18	10	1:38,556	1:69,400
Nebr.	1,484,000	23	14	1:64,522	1:106,000
Nev.	489,000	23	17	1:21,261	1:28,765
N.H.	738,000	20	13	1:36,900	1:56,769
N.J.	7,168,000	177	114	1:40,497	1:62,877
N.M.	1,016,000	41	23	1:24,780	1:44,174
N.Y.	18,191,000	614	368	1:29,627	1:49,432
N.C.	5,082,000	113	75	1:44,973	1:67,760
N.D.	618,000	26	13	1:23,769	1:47,538
Ohio	10,652,000	114	67	1:93,439	1:158,985
Okla.	2,559,000	54	33	1:47,389	1:77,545
Ore.	2,091,000	45	30	1:46,467	1:69,700
Pa.	11,794,000	95	47	1:124,147	1:250,936
R.I.	950,000	50	36	1:19,000	1:26,389
S.C.	2,591,000	84	51	1:30,845	1:50,804
S.D.	666,000	16	9	1:41,625	1:74,000
Tenn.	3,924,000	141	78	1:27,830	1:50,308
Tex.	11,197,000	122	87	1:91,779	1:128,701
Utah	1,059,000	48	31	1:22,063	1:34,161
Vt.	445,000	26	16	1:17,115	1:27,813
Va.	4,648,000	81	51	1:57,383	1:91,137
Wash.	3,409,000	48	25	1:71,021	1:136,360
W.Va.	1,744,000	44	24	1:39,636	1:72,667
Wisc.	4,418,000	171	115	1:25,836	1:38,417
Wyo.	332,000	7	3	1:47,429	1:110,667
Guam	87,000	13	10	1:6,692	1:8,700
P.R.	2,712,000	128	67	1:21,188	1:40,478
V.I.	63,000	9	6	1:7,000	1:10,500

TABLE 1-6. RATIOS OF EXPENDITURES TO PERSONNEL

	Total Expenditures	Total Personnel (w)	Prof. & Tech. Personnel (w)	Expenditures per Employee	Expenditures per Prof. & Tech. Employee
Ala.	\$1,601,078	170	118	\$ 9,418.11	\$13,568.46
Alaska	370,300	25	12	14,812.00	30,858.33
Ariz.	544,577	50	31	10,891.54	17,567.00
Ark.	355,032	47	29	7,553.87	12,242.48
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	1,956,284	182	114	10,748.81	17,160.39
Del.	187,296	22	16	8,513.45	11,706.00
D.C.	1,005,020	77	62	13,052.21	16,210.00
Fla.	1,639,375	193	113	8,494.17	14,507.74
Ga.	1,471,121	141 (x)	80 (x)	10,433.48	18,389.01
Hawaii	556,330	46	31	12,094.13	17,946.13
Ida.	299,470	44	32	6,806.14	9,358.44
Ill.	1,600,010	119	67	13,445.46	23,880.75
Ind.	667,660 (y)	70	41	9,538.00	16,284.39
Ia.	1,427,971	93	61	15,354.53	23,409.36
Kans.	705,070	67	42	10,523.43	16,787.38
Ky.	601,952	58	31	10,378.48	19,417.81
La.	1,405,658	167	82	8,417.11	17,142.17
Me.	439,860	46	32	9,562.17	13,745.63
Md.	2,759,777	260	165	10,614.53	16,725.92
Mass.	1,894,734	199	119	9,521.28	15,922.13
Mich.	5,212,256	378	210	13,789.04	24,820.27
Minn.	658,878	76	45	8,669.45	14,641.73
Miss.	403,823	42	24	9,614.83	16,825.96
Mo.	466,495	47	28	9,925.43	16,660.54
Mont.	160,595	18	10	8,921.94	16,059.50
Nebr.	174,220	23	14	7,574.78	12,444.29
Nev.	230,251	23	17	10,010.91	13,544.18
N.H.	174,090	20	13	8,704.50	13,391.54
N.J.	2,065,802	177	114	11,671.20	18,121.07
N.M.	350,496	41	23	8,548.68	15,238.96
N.Y.	8,046,618	614	368	13,105.24	21,865.81
N.C.	1,293,980	113	75	11,451.15	17,253.07
N.D.	218,492	26	13	8,403.54	16,807.08
Ohio	920,525	114	67	8,074.78	13,739.18
Okla.	520,560	54	33	9,640.00	15,774.55
Ore.	409,093	45	30	9,090.96	13,636.43
Pa.	1,124,893	95	47	11,840.98	23,933.89
R.I.	617,000	50	36	12,340.00	17,138.89
S.C.	629,935	84	51	7,499.23	12,351.67
S.D.	136,729	16	9	8,545.56	15,192.11
Tenn.	1,264,850	141	78	8,970.57	16,216.03
Tex.	1,188,766	122	87	9,743.98	13,663.98
Utah	409,667	48	31	8,534.73	13,215.06
Vt.	353,417	26	16	13,592.96	22,088.56
Va.	598,883	81	51	7,393.62	11,742.80
Wash.	672,000	48	25	14,000.00	26,880.00
W.Va.	445,327	44	24	10,121.07	18,555.29
Wisc.	1,920,618	171	115	11,231.68	16,701.03
Wyo.	79,080	7	3	11,297.14	26,360.00
Guam	111,604	13	10	8,584.92	11,160.40
P.R.	848,960	128	67	6,632.50	12,671.04
V.I.	87,802	9	6	9,755.78	14,633.67

TABLE 1-7. RANKING OF STATES BY EXPENDITURES AND BY EXPENDITURES PER CAPITA (2)

Rank	State	Expenditures	Rank	State	Per Capita Expenditures
1	N.Y.	\$ 8,046,618	1	V.I.	\$ 1.394
2	Mich.	5,212,256	2	D.C.	1.328
3	Md.	2,759,777	3	Guam	1.283
4	N.J.	2,065,802	4	Alaska	1.226
5	Conn.	1,956,284	5	Vt.	0.794
6	Wisc.	1,920,618	6	Hawaii	0.723
7	Mass.	1,894,734	7	Md.	0.704
8	Fla.	1,639,375	8	R.I.	0.649
9	Ala.	1,601,078	9	Conn.	0.645
10	Ill.	1,600,010	10	Mich.	0.587
11	Ga.	1,471,121	11	Ia.	0.505
12	Ia.	1,427,971	12	Nev.	0.471
13	La.	1,405,658	13	Ala.	0.465
14	N.C.	1,293,980	14	Me.	0.443
15	Tenn.	1,264,850	15	N.Y.	0.442
16	Tex.	1,188,766	16	Wisc.	0.435
17	Pa.	1,124,893	17	Ida.	0.420
18	D.C.	1,005,020	18	Utah	0.387
19	Ohio	920,525	19	La.	0.386
20	P.R.	848,960	20	N.D.	0.354
21	Kans.	705,070	21	N.M.	0.345
22	Wash.	672,000	22	Del.	0.342
23	Ind.	667,660 (y)	23	Mass.	0.333
24	Minn.	658,878	24	Tenn.	0.322
25	S.C.	629,935	25	Ga.	0.321
26	R.I.	617,000	26	P.R.	0.313
27	Ky.	601,952	27	Ariz.	0.307
28	Va.	598,883	28	N.J.	0.288
29	Hawaii	556,330	29	W.Va.	0.255
30	Ariz.	544,577	30	N.C.	0.255
31	Okla.	520,560	31	Kans.	0.250
32	Mo.	466,495	32	S.C.	0.243
33	W.Va.	445,327	33	Fla.	0.241
34	Me.	439,860	34	Wyo.	0.238
35	Utah	409,667	35	N.H.	0.236
36	Ore.	409,093	36	Mont.	0.231
37	Miss.	403,823	37	S.D.	0.205
38	Alaska	370,300	38	Okla.	0.203
39	Ark.	355,032	39	Wash.	0.197
40	Vt.	353,417	40	Ore.	0.196
41	N.M.	350,496	41	Ky.	0.187
42	Ida.	299,470	42	Ark.	0.185
43	Nev.	230,251	43	Miss.	0.182
44	N.D.	218,492	44	Minn.	0.173
45	Del.	187,296	45	Ill.	0.144
46	Nebr.	174,220	46	Va.	0.129
47	N.H.	174,090	47	Ind.	0.129 (y)
48	Mont.	160,595	48	Nebr.	0.117
49	S.D.	136,729	49	Tex.	0.106
50	Guam	111,604	50	Mo.	0.100
51	V.I.	87,802	51	Pa.	0.095
52	Wyo.	79,080	52	Ohio	0.086

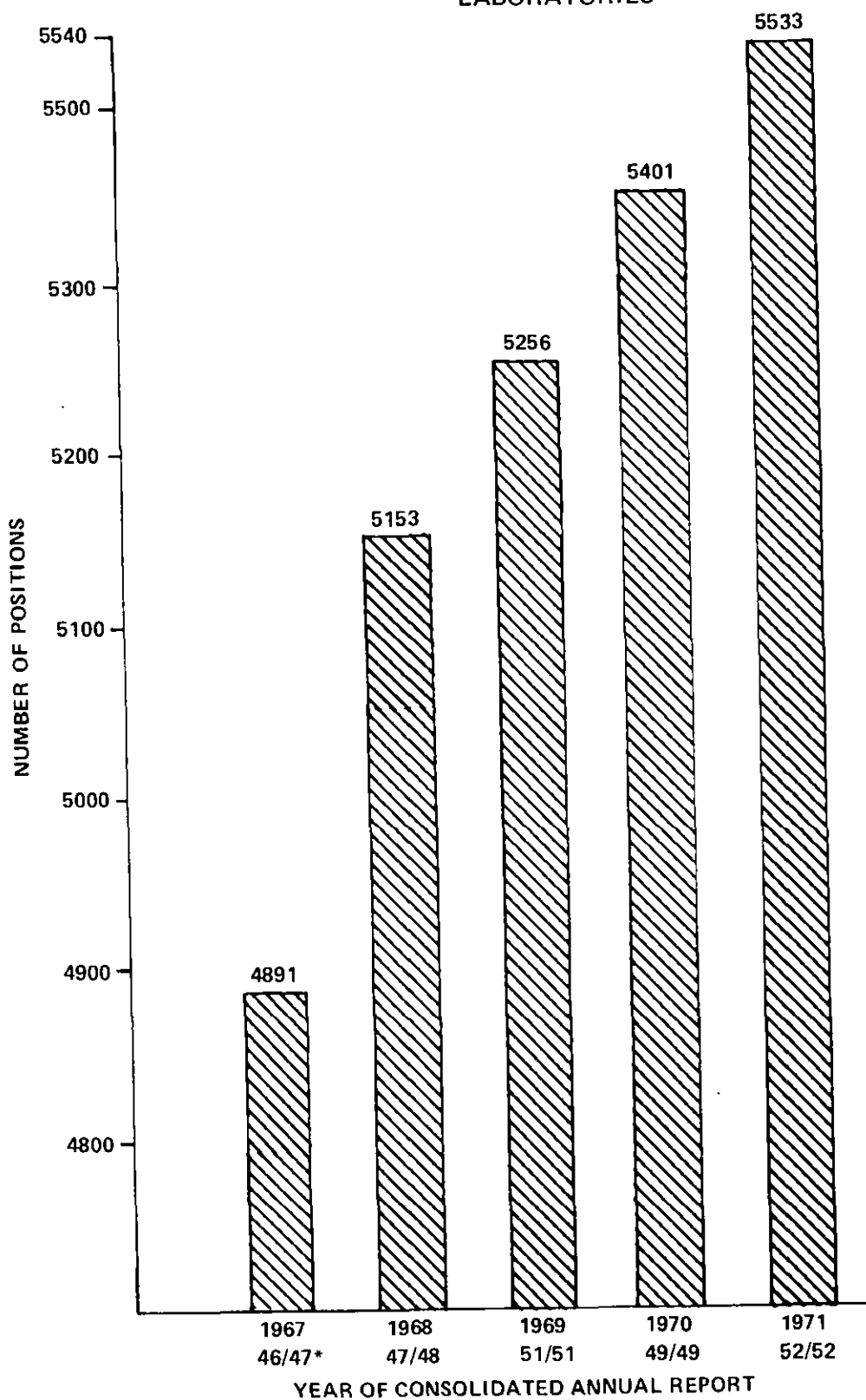
SECTION I. FOOTNOTES

- (a) Space allotted to Community Pesticide Project.
- (b) Includes administrative, clerical and supportive services.
- (c) No personnel actually allocated to other program services. However, all personnel work on laboratory problems in addition to their duties. Under Intrastate Laboratory Improvement only syphilis serology is checked and it requires one full person one day per month.
- (d) Overall Program Administration.
- (e) Field service and instruction.
- (f) Performed in Analytical Services Units by Analytical personnel. Not possible to differentiate out.
- (g) Supportive services, 16.4; administration and clerical, 19.4; maintenance, 1.5.
- (h) Does not include those technical personnel of the Analytical Services who prepare and evaluate Proficiency Surveys.
- (i) Management and clerical, 15.2%; supportive and maintenance, 20.0%.
- (j) Supportive and maintenance.
- (k) Supportive services.
- (l) Includes 6 employees on Federal grant.
- (m) Environmental Health, 21%; all other administrative, maintenance, and support services, 23%.
- (n) Includes storage space and offices.
- (o) Purchase of Biologics.
- (p) Supplies, Equipment, and Laboratory Support.
- (q) Laboratory Support, 29.0%; Library, Conference, Dressing Room, etc., 9.0%.
- (r) Estimated total. Where reporting of specimens or exams was essentially complete, an estimate was made for the missing figures.
- (s) Rabies only.
- (t) 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., 875,254 exams; Mass., 565,567 exams; Minn., 299,556 specimens; Mont., 72,553 specimens, 91,321 exams; N.J., 410,809 specimens; N.M., 100,239 specimens, 170,636 exams; N.Y., 224,968 specimens; N.C., 731,052 specimens; Okla., 393,523 exams; R.I., 135,993 specimens; S.C., 428,658 specimens; Tex., 998,159 specimens; P.R., 198,249 specimens.
- (u) Includes PKU and MSUD.
- (v) Estimated population as of July 1, 1970. Taken from Statistical Abstract of the United States: 1971. U.S. Bureau of the Census. (92nd Edition) Washington, D.C., 1971, pages 14 and 784.
- (w) Based on filled positions.
- (x) Budgeted positions.
- (y) Figure includes Salary, Travel and Other Expenditures only.
- (z) States not included in Table: California and Colorado.

SECTION II

PERSONNEL

Figure 3
POSITIONS AUTHORIZED FOR
STATE PUBLIC HEALTH
LABORATORIES



*46/47 = INDICATES 46 STATES REPORTED THIS TYPE DATA OUT OF 47 STATES REPORTING

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)	Total No. of Employees in Branch Labs
Ala.	175	2	23	121	23	6	80
Alaska	25	1	5	12	7	-	23
Ariz.	50 (f)	1	10	31	7	1	11
Ark.	48	1	9	30	7	1	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	203	6	33	129	34	1	-
Del.	24	1	3	18	2	-	-
D.C.	79	2	8	64	5	-	6
Fla.	193	19	25	113	36	- (g)	103
Ga.	141	4	23	80	33	1	37
Hawaii	47	2	4	32	9	-	10
Ida.	44 (h)	2	6 (h)	32 (h)	1	3 (h)	14
Ill.	119	5	25	67	18	4	44
Ind.	70 (i)	6	10	41	13	-	-
Ia.	93	7	11	61	14	-	16
Kans.	67	1	12	42	11	1	-
Ky.	59	4	7	31	16	1	4
La.	171	10	45	84	32	-	92
Me.	46	1	7	32	6	-	-
Md.	264	4	38	169	45	8	60
Mass.	206	8	37	123	21	17	-
Mich.	386	18	36	216	75	41	55
Minn.	76	1	15	45	15	-	-
Miss.	42	1	7	24	10	-	8
Mo.	47	2	6	28	11	-	-
Mont.	19 (j)	-	4 (j)	11	4 (j)	-	-
Nebr.	23	2	4	14	3	-	4
Nev.	24	1	1	18	2	2	3
N.H.	20	1	4	13	2	-	-
N.J.	182	8	21	118	35	-	-
N.M.	42	3	10	23	6	-	*
N.Y.	708	*	123 (k)	437	111	37	-
N.C.	119	3	15	79	21	1	-
N.D.	26	2	5	13	5	1	12
Ohio	122	6	11	69	22	14	18
Okla.	54 (l)	2	9	33	10 (l)	-	10 (l)
Ore.	45	2	9	30	4	-	-
Pa.	103	13	14	53	15	8	6 (m)
R.I.	53	2	6	38	7	-	-
S.C.	90 (n)	3	12	54	20 (n)	1	14
S.D.	16	1	2	9	4	-	-
Tenn.	143	8	22	80	31	2	72
Tex.	122	3	16	87	16	-	*
Utah	48	3	7	31	7	-	-
Vt.	26	2	4	16	4	-	-
Va.	83	*	15 (k)	53	15	-	22
Wash.	48	5	9	25	8	1	-
W.Va.	47	3	8	27	6	3	-
Wisc.	178	5	28	120	25	-	-
Wyo.	8	1	1	4	2	-	-
Guam	13	1	1	10	-	1	-
P.R.	138	13	19	74	23	9	5
V.I.	16	1	2	11	2	-	4

TABLE 2-2. PERSONNEL DISTRIBUTION

	PERCENT OF TOTAL				
	Management Positions	Clerical Positions	Professional and Technical Positions	Supportive Services Positions	Maintenance Positions
Ala.	1.1	13.2	69.2	13.1	3.4
Alaska	4.0	20.0	48.0	28.0	-
Ariz.	2.0	20.0	62.0	14.0	2.0
Ark.	2.1	18.7	62.5	14.6	2.1
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	3.0	16.3	63.5	16.7	0.5
Del.	4.2	12.5	75.0	8.3	-
D.C.	2.6	10.1	81.0	6.3	-
Fla.	9.8	13.0	58.5	18.7	-
Ga.	2.9	16.3	56.7	23.4	0.7
Hawaii	4.3	8.5	68.1	19.1	-
Ida.	4.6	13.6	72.7	2.3	6.8
Ill.	4.2	21.0	56.3	15.1	3.4
Ind.	8.6	14.2	58.6	18.6	-
Ia.	7.5	11.8	65.6	15.1	-
Kans.	1.5	17.9	62.7	16.4	1.5
Ky.	6.8	11.9	52.5	27.1	1.7
La.	5.9	26.3	49.1	18.7	-
Me.	2.2	15.2	69.6	13.0	-
Md.	1.5	14.4	64.0	17.1	3.0
Mass.	3.9	18.0	59.7	10.2	8.2
Mich.	4.7	9.3	56.0	19.4	10.6
Minn.	1.3	19.7	59.3	19.7	-
Miss.	2.4	16.7	57.1	23.8	-
Mo.	4.2	12.8	59.6	23.4	-
Mont.	-	21.1	57.9	21.0	-
Nebr.	8.7	17.4	60.9	13.0	-
Nev.	4.2	4.2	75.0	8.3	8.3
N.H.	5.0	20.0	65.0	10.0	-
N.J.	4.4	11.5	64.9	19.2	-
N.M.	7.1	23.8	54.8	14.3	-
N.Y.	*	17.4 (k)	61.7	15.7	5.2
N.C.	2.5	12.6	66.4	17.6	0.9
N.D.	7.7	19.2	50.0	19.2	3.9
Ohio	4.9	9.0	56.6	18.0	11.5
Okla.	3.7	16.7	61.1	18.5	-
Ore.	4.4	20.0	66.7	8.9	-
Pa.	12.6	13.6	51.4	14.6	7.8
R.I.	3.8	11.3	71.7	13.2	-
S.C.	3.3	13.4	60.0	22.2	1.1
S.D.	6.2	12.5	56.3	25.0	-
Tenn.	5.6	15.4	55.9	21.7	1.4
Tex.	2.5	13.1	71.3	13.1	-
Utah	6.2	14.6	64.6	14.6	-
Vt.	7.7	15.4	61.5	15.4	-
Va.	*	18.1 (k)	63.8	18.1	-
Wash.	10.4	18.7	52.1	16.7	2.1
W.Va.	6.4	17.0	57.4	12.8	6.4
Wisc.	2.8	15.7	67.4	14.1	-
Wyo.	12.5	12.5	50.0	25.0	-
Guam	7.7	7.7	76.9	-	7.7
P.R.	9.4	13.8	53.6	16.7	6.5
V.I.	6.2	12.5	68.8	12.5	-

TABLE 2-3. NEW POSITIONS ESTABLISHED DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total No. of New Positions
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	4	11	-	-	15
Del.	-	-	-	-	-	-
D.C.	-	-	3	-	-	3
Fla.	-	1	4	-	-	5
Ga.	-	-	-	-	-	-
Hawaii	-	-	8	1	-	9
Ida.	-	-	3	-	-	3
Ill.	-	1	8	5	-	14
Ind.	-	-	-	-	-	-
Ia.	-	1	5	1	-	7
Kans.	-	-	1	-	-	1
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	1	10	1	-	12
Mass.	-	3 (o)	1 (o)	-	-	4
Mich.	-	1	7	-	-	8
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	2	-	-	2
Mont.	-	-	1	-	-	1
Nebr.	-	-	-	-	-	-
Nev.	-	-	1	-	-	1
N.H.	-	-	-	-	-	-
N.J.	-	2	8	2	-	12
N.M.	-	-	1	-	-	1
N.Y.	*	*	*	*	*	*
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	1	-	5	9	15
Okla.	-	-	-	-	-	-
Ore.	-	1	3	-	-	4
Pa.	-	-	-	-	-	-
R.I.	-	1	3	-	-	4
S.C.	1	-	5	- (p)	-	6
S.D.	-	-	1	-	-	1
Tenn.	-	2	3	-	-	5
Tex.	-	-	1	1	-	2
Utah	1	1	2	1	-	5
Vt.	-	-	2	-	-	2
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	1	5	1	-	7

TABLE 2-4. POSITIONS ABOLISHED DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total No. of Positions Abolished
Ala.	-	-	6	1	-	7
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	1	-	1
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	1	-	-	1
Del.	-	-	-	-	-	-
D.C.	-	-	1	-	-	1
Fla.	-	-	1	-	-	1
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	1	-	-	1
Ill.	-	25	59	14	7	105
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	1	-	4	-	-	5
Mass.	-	-	-	-	-	-
Mich.	-	-	2	1	-	3
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	1	-	-	1	-	2
N.Y.	*	*	*	*	*	*
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	1	5	-	-	6
R.I.	-	-	-	-	-	-
S.C.	-	1	3	-	-	4
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	1	-	-	1
Vt.	-	-	-	-	-	-
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
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.	-	-	-	-	-	-
Alaska	-	-	-	3	-	3
Ariz.	-	2	2	4	-	8
Ark.	-	2	6	1	1	10
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	1	7	12	6	-	26
Del.	-	-	2	-	-	2
D.C.	-	1	5	-	-	6
Fla.	1	14	25	12	-	52
Ga.	*	*	*	*	*	*
Hawaii	-	-	8	2	-	10
Ida.	-	1	8	-	1	10
Ill.	-	6	4	3	3	16
Ind.	-	1	4	-	-	5
Ia.	-	6	8	6	-	20
Kans.	-	5	8	10	1	24
Ky.	-	1	1	-	-	2
La.	-	2	5	2	-	9
Me.	-	2	2	-	-	4
Md.	-	11	35	8	-	54
Mass.	-	15	39	3	2	59
Mich.	-	2	27	10	5	44
Minn.	-	2	5	1	-	8
Miss.	-	-	-	-	-	-
Mo.	-	-	5	1	-	6
Mont.	-	2	1	2	-	5
Nebr.	-	1	2	1	-	4
Nev.	-	-	6	-	-	6
N.H.	-	1	-	-	-	1
N.J.	-	2	16	4	-	22
N.M.	-	6	7	3	-	16
N.Y.	*	27 (k)	70	19	4	120
N.C.	-	2	15 (q)	2	-	19
N.D.	-	4	3	-	-	7
Ohio	-	3	9	5	-	17
Okla.	-	3	4	3	-	10
Ore.	-	3	8	-	-	11
Pa.	1	3	5	10	3	22
R.I.	-	1	8	-	-	9
S.C.	1	-	11	1	-	13
S.D.	-	-	-	1	-	1
Tenn.	-	3	5	-	1	9
Tex.	1	3	8	-	-	12
Utah	1	2	2	1	-	6
Vt.	-	1	3	-	-	4
Va.	*	4 (k)	8	1	-	13
Wash.	-	-	-	2	-	2
W.Va.	-	-	3	2	-	5
Wisc.	1	15	25	3	-	44
Wyo.	-	-	2	-	-	2
Guam	-	-	-	-	-	-
P.R.	-	2	9	2	2	15
V.I.	-	-	-	-	-	-

TABLE 2-6. RESIGNATIONS AND SEPARATIONS DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total Resignations and Separations
Ala.	-	-	3	2	1	6
Alaska	-	-	-	3	-	3
Ariz.	-	2	2	4	-	8
Ark.	-	2	3	2	1	8
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	1	5	26	3	-	35
Del.	-	-	4	-	-	4
D.C.	-	-	3	-	-	3
Fla.	2	13	19	9	-	43
Ga.	*	*	*	*	*	*
Hawaii	-	-	1	1	-	2
Ida.	-	1	5	-	1	7
Ill.	1	21	44	20	8	94
Ind.	-	2	2	1	-	5
Ia.	-	5	8	5	-	18
Kans.	-	4	7	11	1	23
Ky.	-	1	1	-	-	2
La.	-	2	5	4	-	11
Me.	-	2	2	-	-	4
Md.	-	12	28	4	-	44
Mass.	2	7	40	4	1	54
Mich.	-	2	29	10	5	46
Minn.	-	4	6	1	-	11
Miss.	-	-	-	-	-	-
Mo.	-	-	3	1	-	4
Mont.	-	2	-	2	-	4
Nebr.	-	1	2	1	-	4
Nev.	-	-	5	-	-	5
N.H.	-	1	-	-	-	1
N.J.	-	1	16	6	-	23
N.M.	1	6	4	2	-	13
N.Y.	*	22 (k)	37	17	3	79
N.C.	-	2	11	2	-	15
N.D.	-	4	3	-	-	7
Ohio	-	3	9	-	2	14
Okla.	-	4	4	4	-	12
Ore.	-	2	7	-	-	9
Pa.	1	3	4	12	2	22
R.I.	-	-	7	-	-	7
S.C.	-	1	6	1	-	8
S.D.	-	-	-	1	-	1
Tenn.	-	1	5	1	-	7
Tex.	1	3	9	-	-	13
Utah	-	1	1	-	-	2
Vt.	-	1	1	-	-	2
Va.	*	4 (k)	11	1	-	16
Wash.	-	-	-	2	-	2
W.Va.	-	-	5	2	-	7
Wisc.	1	17	13	2	-	33
Wyo.	-	-	2	-	-	2
Guam	1	-	-	-	-	1
P.R.	2	1	6	2	-	11
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	23	118	22	5	170	97.1
Alaska	1	5	12	7	-	25	100.0
Ariz.	1	10	31	7	1	50 (f)	100.0
Ark.	1	9	29	7	1	47	97.9
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	6	30	114	31	1	182	89.7
Del.	1	3	16	2	-	22	91.7
D.C.	2	8	62	5	-	77	97.5
Fla.	19	25	113	36	-	193	100.0
Ga.	*	*	*	*	*	*	*
Hawaii	2	4	31	9	-	46	97.9
Ida.	2	6	32	1	3	44 (h)	100.0
Ill.	5	25	67	18	4	119	100.0
Ind.	6	10	41	13	-	70	100.0
Ia.	7	11	61	14	-	93	100.0
Kans.	1	12	42	11	1	67	100.0
Ky.	4	7	31	15	1	58	98.3
La.	10	45	82	30	-	167	97.7
Me.	1	7	32	6	-	46	100.0
Md.	4	38	165	45	8	260	98.5
Mass.	5	37	119	21	17	199	96.6
Mich.	18	34	210	75	41	378	97.9
Minn.	1	15	45	15	-	76	100.0
Miss.	1	7	24	10	-	42	100.0
Mo.	2	6	28	11	-	47	100.0
Mont.	-	4 (j)	10	4 (j)	-	18 (j)	94.7
Nebr.	2	4	14	3	-	23	100.0
Nev.	1	1	17	2	2	23	95.8
N.H.	1	4	13	2	-	20	100.0
N.J.	8	21	114	34	-	177	97.3
N.M.	2	10	23	6	-	41	97.6
N.Y.	*	102 (k)	368	107	37	614	86.7
N.C.	3	14	75	20	1	113	95.0
N.D.	2	5	13	5	1	26	100.0
Ohio	6	11	67	20	10	114	93.4
Okla.	2	9	33	10	-	54	100.0
Ore.	2	9	30	4	-	45	100.0
Pa.	13	13	47	15	7	95	92.2
R.I.	2	6	36	6	-	50	94.3
S.C.	3	9	51	20	1	84	93.3
S.D.	1	2	9	4	-	16	100.0
Tenn.	8	22	78	31	2	141	98.6
Tex.	3	16	87	16	-	122	100.0
Utah	3	7	31	7	-	48	100.0
Vt.	2	4	16	4	-	26	100.0
Va.	*	15 (k)	51	15	-	81	97.6
Wash.	5	9	25	8	1	48	100.0
W.Va.	3	8	24	6	3	44	93.6
Wisc.	5	26	115	25	-	171	96.1
Wyo.	1	1	3	2	-	7	87.5
Guam	1	1	10	-	1	13	100.0
P.R.	11	18	67	23	9	128	92.8
V.I.	1	1	6	1	-	9	56.3

TABLE 2-8. PERCENT TURNOVER IN ALL POSITIONS

	Total Filled Positions	Turnover		Percent Turnover (r)
		Resignations	Separations	
Ala.	170	4	2	3.5
Alaska	25	3	-	12.0
Ariz.	50	8	-	16.0
Ark.	47	8	-	17.0
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	182	35	-	19.2
Del.	22	4	-	18.2
D.C.	77	3	-	3.9
Fla.	193	35	8	22.3
Ga.	*	*	*	*
Hawaii	46	2	-	4.3
Ida.	44	7	-	15.9
Ill.	119	12	82	79.0 (s)
Ind.	70	5	-	7.1
Ia.	93	17	1	19.4
Kans.	67	21	2	34.3
Ky.	58	2	-	3.4
La.	167	8	3	6.6
Me.	46	4	-	8.7
Md.	260	42	2	16.9
Mass.	199	48	6	27.1
Mich.	378	44	2	12.2
Minn.	76	11	-	14.5
Miss.	42	-	-	-
Mo.	47	4	-	8.5
Mont.	18	4	-	22.2
Nebr.	23	4	-	17.4
Nev.	23	1	4	21.7
N.H.	20	1	-	5.0
N.J.	177	22	1	13.0
N.M.	41	13	-	31.7
N.Y.	614	68	11	12.9
N.C.	113	14	1	13.3
N.D.	26	7	-	26.9
Ohio	114	13	1	12.3
Okla.	54	11	1	22.2
Ore.	45	8	1	20.0
Pa.	95	20	2	23.2
R.I.	50	2	5	14.0
S.C.	84	7	1	9.5
S.D.	16	1	-	6.3
Tenn.	141	7	-	5.0
Tex.	122	13	-	10.7
Utah	48	1	1	4.2
Vt.	26	2	-	7.7
Va.	81	16	-	19.8
Wash.	48	-	2	4.2
W.Va.	44	7	-	15.9
Wisc.	171	33	-	19.3
Wyo.	7	2	-	28.6
Guam	13	1	-	7.7
P.R.	128	11	-	8.6
V.I.	9	-	-	-

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

	Professional and Technical Positions Filled	Turnover		Percent Turnover (r)
		Resignations	Separations	
Ala.	118	2	1	2.5
Alaska	12	-	-	-
Ariz.	31	2	-	6.5
Ark.	29	3	-	10.3
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	114	26	-	22.8
Del.	16	4	-	25.0
D.C.	62	3	-	4.8
Fla.	113	18	1	16.8
Ga.	*	*	*	*
Hawaii	31	1	-	3.2
Ida.	32	5	-	15.6
Ill.	67	4	40	65.7 (s)
Ind.	41	2	-	4.9
Ia.	61	7	1	13.1
Kans.	42	5	2	16.7
Ky.	31	1	-	3.2
La.	82	5	-	6.1
Me.	32	2	-	6.3
Md.	165	27	1	17.0
Mass.	119	35	5	33.6
Mich.	210	28	1	13.8
Minn.	45	6	-	13.3
Miss.	24	-	-	-
Mo.	28	3	-	10.7
Mont.	10	1	-	10.0
Nebr.	14	2	-	14.3
Nev.	17	1	4	29.4
N.H.	13	-	-	-
N.J.	114	16	-	14.0
N.M.	23	4	-	17.4
N.Y.	368	33	4	10.1
N.C.	75	11	-	14.7
N.D.	13	3	-	23.1
Ohio	67	9	-	13.4
Okla.	33	4	-	12.1
Ore.	30	6	1	23.3
Pa.	47	4	-	8.5
R.I.	36	2	5	19.4
S.C.	51	6	-	11.8
S.D.	9	-	-	-
Tenn.	78	5	-	6.4
Tex.	87	9	-	10.3
Utah	31	-	1	3.2
Vt.	16	1	-	6.3
Va.	51	11	-	21.6
Wash.	25	-	-	-
W.Va.	24	5	-	20.8
Wisc.	115	13	-	11.3
Wyo.	3	2	-	66.7
Guam	-	-	-	-
P.R.	67	6	-	9.0
V.I.	6	-	-	-

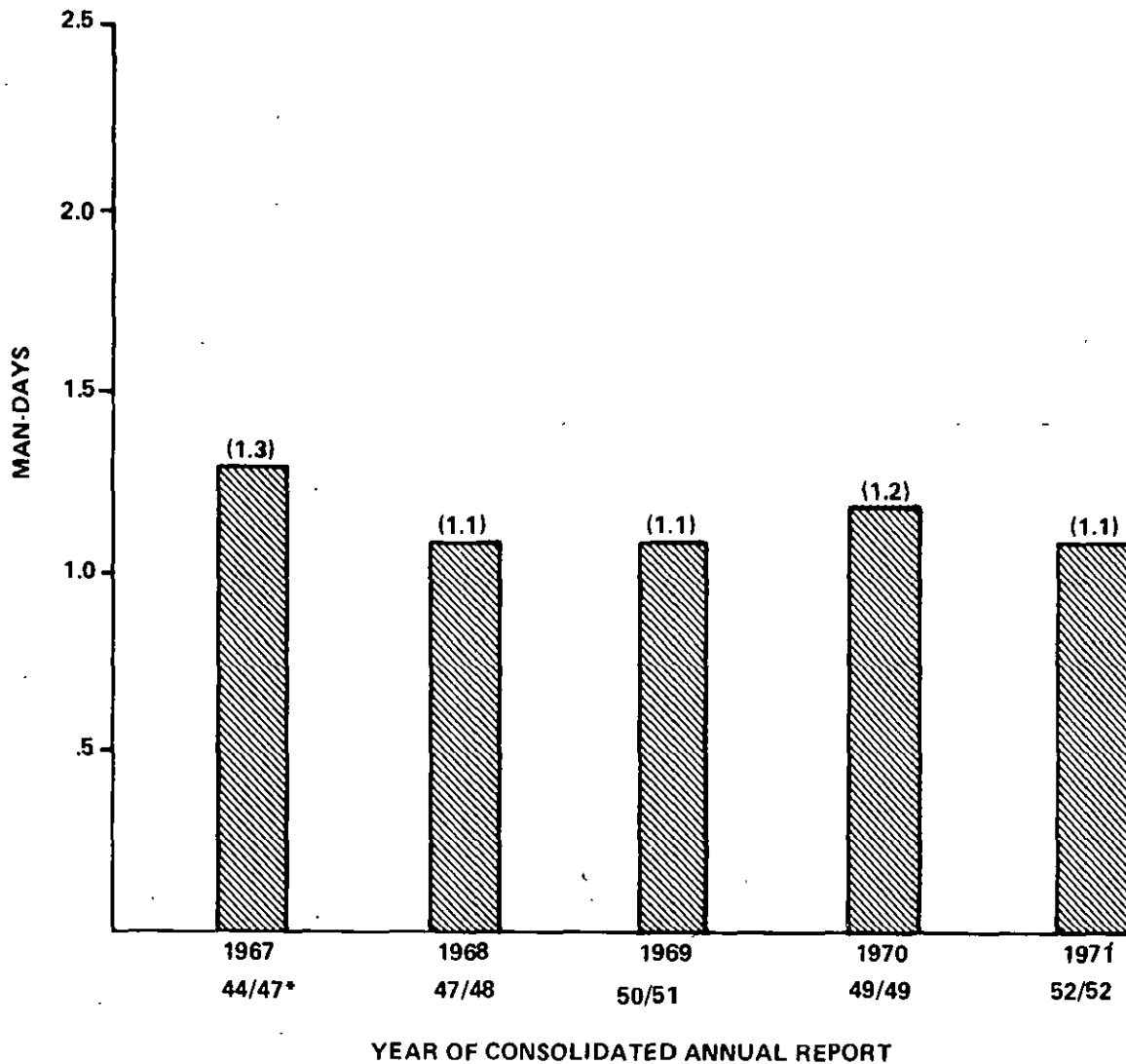
SECTION II. FOOTNOTES

- (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) This includes one clerical employee who works 3/4 time, and one professional and technical employee who works 1/2 time.
- (g) Contracted for or supplied by others.
- (h) Of the clerical employees, 3 are full-time and 3 are part-time (total equalling 4 7/8 time). The professional and technical employees include 28 full-time and 7 part-time. One-half the salary of the 3 maintenance employees is paid by the Department of Agriculture.
- (i) This does not include 5 temporary summer employees (3 technical, 1 clerical, 1 supportive).
- (j) Includes 2 half-time positions, one clerical and one supportive services.
- (k) Includes management positions.
- (l) Includes one half-time employee.
- (m) These positions were abolished during the year.
- (n) Includes 8 part-time or seasonal employees.
- (o) Two of the clerical positions and an epidemiologist position are transfers from Adult Health Division.
- (p) One part-time seasonal employee.
- (q) Some of these were temporary employees.
- (r) Turnover rate is based on filled positions. In previous CARs turnover rate was based on budgeted positions.
- (s) A 41% cut in manpower and other budgetary restrictions drastically reduced laboratory services. Routine diagnostic testing, available elsewhere, was curtailed; standard tests for syphilis were limited, and other tests, such as bacterial agglutinations and PKU screening, were virtually eliminated. The newly established Environmental Protection Agency was made responsible for public water supplies (with the exception of fluoride testing), stream water, sewage effluents, and air pollution. This reduced Public Health's sanitary workload approximately 60%.

SECTION III

TRAINING ACTIVITIES AND STAFF DEVELOPMENT

Figure 4
**AVERAGE MANDAYS OF ATTENDANCE OF
 STATE PROFESSIONAL AND TECHNICAL STAFF
 IN FORMAL COURSES AND SEMINARS**



* 44/47 = INDICATES 44 STATES REPORTED THIS TYPE DATA OUT OF 47 STATES REPORTING

TABLE 3-1. TRAINING OF STATE PROFESSIONAL AND TECHNICAL STAFF IN FORMAL COURSES AND SEMINARS

	Number of Professional and Technical Employees (a)	Number Attending a Formal Course or Seminar	Total Man-Days of Attendance	Average Man-Days of Attendance per Employee
Ala.	118	16	106	0.90
Alaska	12	8	36	3.00
Ariz.	31	17	57	1.84
Ark.	29	2	6	0.21
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	114	33	194	1.70
Del.	16	-	-	-
D.C.	62	5	32	0.52
Fla.	113	43	112	0.99
Ga.	80 (b)	296	873	10.91
Hawaii	31	13	25	0.81
Ida.	32	5	37	1.16
Ill.	67	12	41	0.61
Ind.	41	4	28	0.68
Ia.	61	6	30	0.49
Kans.	42	10	149	3.55
Ky.	31	9	34	1.10
La.	82	19	62	0.76
Me.	32	-	-	-
Md.	165	63	109	0.66
Mass.	119	15	79	0.66
Mich.	210	15	100	0.48
Minn.	45	-	-	-
Miss.	24	6	20	0.83
Mo.	28	4	29	1.04
Mont.	10	1	10	1.00
Nebr.	14	6	40	2.86
Nev.	17	2	4	0.24
N.H.	13	-	-	-
N.J.	114	13	77	0.68
N.M.	23	12	54	2.34
N.Y.	368	*	*	*
N.C.	75	81	185	2.47
N.D.	13	3	15	1.15
Ohio	67	10	53	0.79
Okla.	33	3	19	0.58
Ore.	30	-	-	-
Pa.	47	*	47	1.00
R.I.	36	4	50	1.39
S.C.	51	21	104	2.04
S.D.	9	3	10	1.11
Tenn.	78	4	32	0.41
Tex.	87	17	24	0.28
Utah	31	4	43	1.39
Vt.	16	6	25	1.56
Va.	51	3	20	0.39
Wash.	25	24	53	2.12
W.Va.	24	9	29	1.21
Wisc.	115	8	31	0.27
Wyo.	3	-	-	-
Guam	10	3	39	3.90
P.R.	67	10	41	0.61
V.I.	6	-	-	-

TABLE 3-1. TRAINING OF STATE PROFESSIONAL AND TECHNICAL STAFF IN
 FORMAL COURSES AND SEMINARS
 (Continued)

	Total Man-Days of Training by Subject:						
	Bacteriology	Parasitology	Mycology	Virology	Clin. Chem.	Administration	Serology
Ala.	10	40	11	-	-	-	12
Alaska	2	6	-	-	-	-	-
Ariz.	12	5	5	-	-	9	1
Ark.	3	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	46	10	-	-	-	10	34
Del.	-	-	-	-	-	-	-
D.C.	5	-	-	-	-	5	5
Fla.	50	-	-	5	5	9	-
Ga.	144	121	74	49	-	108	134
Hawaii	2	-	-	-	1	6	-
Ida.	2	-	-	5	-	-	10
Ill.	2	1	-	3	-	2	3
Ind.	-	-	-	-	-	5	-
Ia.	3	-	5	5	-	-	-
Kans.	31	-	-	16	-	-	10
Ky.	3	-	-	-	5	-	12
La.	23	-	3	12	-	-	-
Me.	-	-	-	-	-	-	-
Md.	8	-	-	8	1	-	-
Mass.	8	-	-	5	4	1	-
Mich.	72	-	5	5	-	-	-
Minn.	-	-	-	-	-	-	-
Miss.	19	-	-	-	-	1	-
Mo.	-	-	-	5	-	-	-
Mont.	10	-	-	-	-	-	-
Nebr.	7	-	3	-	-	-	10
Nev.	3	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	37	-	-	-	9	-	-
N.M.	-	-	12	-	-	1	-
N.Y.	*	*	*	*	*	*	*
N.C.	8	5	-	-	-	114 (c)	17
N.D.	5	-	-	-	-	-	5
Ohio	3	-	-	-	1	-	5
Okla.	2	-	-	-	-	-	12
Ore.	-	-	-	-	-	-	-
Pa.	14	1	4	2	2	-	15
R.I.	20	-	-	-	10	-	-
S.C.	15	-	-	26	-	-	-
S.D.	2	-	-	3	-	-	-
Tenn.	32	-	-	-	-	-	-
Tex.	7	1	-	2	-	8	1
Utah	3	-	-	-	-	5	-
Vt.	15	-	-	-	-	5	-
Va.	10	-	-	-	-	5	-
Wash.	16	-	-	-	-	14	3
W.Va.	2	-	-	5	-	2	-
Wisc.	23	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-
Guam	19	-	-	20	-	-	-
P.R.	-	-	-	-	-	-	21
V.I.	-	-	-	-	-	-	-

TABLE 3-1. TRAINING OF STATE PROFESSIONAL AND TECHNICAL STAFF IN
FORMAL COURSES AND SEMINARS
(Continued)

	Total Man-Days of Training by Subject:					
	San. Bact., San. Chem.	Environ. Chem.	Lab. Techniques	Quality Control	Instru.	Other
Ala.	20	-	8	-	5	-
Alaska	-	-	-	-	-	-
Ariz.	-	11	1	-	4	9
Ark.	3	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	10	5	6	6	67
Del.	-	-	-	-	-	-
D.C.	15	2	-	-	-	-
Fla.	29	-	-	-	5	9 - Narcotics Chemistry
Ga.	12	-	2	55	91	83
Hawaii	-	-	-	2	14	-
Ida.	-	10	-	10	-	-
Ill.	23	7	-	-	-	-
Ind.	18	-	5	-	-	-
Ia.	5	6	-	-	-	6
Kans.	-	92	-	-	-	-
Ky.	-	-	-	-	14	-
La.	6	4	-	-	7	7 - Pesticide Residues
Me.	-	-	-	-	-	-
Md.	-	50	6	-	22	14 - Cancer Cytology and Hematology
Mass.	-	6	-	1	-	54
Mich.	-	-	-	-	8	10
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	9	-	-	-	-	15
Mont.	-	-	-	-	-	-
Nebr.	5	15	-	-	-	-
Nev.	1	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	28	-	1	-	2	-
N.M.	8	33	-	-	-	-
N.Y.	*	*	*	*	*	*
N.C.	4	-	27	-	6	4 - Cytopathology
N.D.	-	5	-	-	-	-
Ohio	25	10	-	-	5	4 - Laboratory Safety
Okla.	5	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	2	7
R.I.	10	-	-	-	-	10 - Metabolic Diseases
S.C.	45	-	15	1	-	2
S.D.	5	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	1	-	3	1	-
Utah	5	-	-	-	30	-
Vt.	-	-	-	-	5	-
Va.	5	-	-	-	-	-
Wash.	4	-	-	-	2	14
W.Va.	11	-	-	-	-	9
Wisc.	-	3	-	2	3	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	10	-	10	-	-	-
V.I.	-	-	-	-	-	-

TABLE 3-2. BENCH TRAINING RECEIVED BY STATE PROFESSIONAL AND TECHNICAL STAFF

	Number of Professional and Technical Employees (a)	Number Receiving Bench Training	Total Man-days of Training	Average Man-days of Training per Employee
Ala.	118	-	-	-
Alaska	12	-	-	-
Ariz.	31	-	-	-
Ark.	29	-	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	114	66	773	6.78
Del.	16	8	16	1.00
D.C.	62	-	-	-
Fla.	113	6	32	0.28
Ga.	80 (b)	5	19	0.24
Hawaii	31	9	9	0.29
Ida.	32	21	52	1.63
Ill.	67	15	28	0.42
Ind.	41	-	-	-
Ia.	61	1	1	0.02
Kans.	42	-	-	-
Ky.	31	23	35	1.13
La.	82	-	-	-
Me.	32	-	-	-
Md.	165	103	520	3.15
Mass.	119	8	33	0.28
Mich.	210	2	10	0.05
Minn.	45	-	-	-
Miss.	24	-	-	-
Mo.	28	23	200	7.14
Mont.	10	1	5	0.50
Nebr.	14	-	-	-
Nev.	17	-	-	-
N.H.	13	4	10	0.77
N.J.	114	47	106 (d)	0.93
N.M.	23	-	-	-
N.Y.	368	*	*	*
N.C.	75	14	34	0.45
N.D.	13	3	7	0.54
Ohio	67	4	4	0.06
Okla.	33	-	-	-
Ore.	30	-	-	-
Pa.	47	68	180	3.8
R.I.	36	-	-	-
S.C.	51	-	-	-
S.D.	9	-	-	-
Tenn.	78	-	-	-
Tex.	87	3	17	0.20
Utah	31	-	-	-
Vt.	16	4	4	0.25
Va.	51	-	-	-
Wash.	25	1	2	0.04
W.Va.	24	-	-	-
Wisc.	115	2	12	0.10
Wyo.	-	-	-	-
Guam	10	1	2	0.20
P.R.	67	6	30	0.45
V.I.	6	2	7	1.17

TABLE 3-2. BENCH TRAINING RECEIVED BY STATE PROFESSIONAL
AND TECHNICAL STAFF
(Continued)

	<u>Total Man-Days of Training by Subject:</u>						
	Bacteriology	Parasitology	Mycology	Virology	Clin. Chem.	Administration	Serology
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	496	128	36	40	-	-	20
Del.	-	-	-	-	-	-	8
D.C.	-	-	-	-	-	-	-
Fla.	23	-	-	-	5	-	-
Ga.	7	12	-	-	-	-	-
Hawaii	-	-	-	-	1	-	-
Ida.	-	-	15	3	-	-	-
Ill.	17	-	-	1	1	-	4
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	24	-	-	2	-	-	9
La.	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-
Md.	88	9	20	88	21	-	33
Mass.	13	-	-	6	-	-	4
Mich.	7	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	12	112	-	49
Mont.	5	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	4	3	-
N.J.	34	10	-	-	16	-	-
N.M.	-	-	-	-	-	-	-
N.Y.	*	*	*	*	*	*	*
N.C.	-	-	-	-	-	-	-
N.D.	-	-	-	-	3	-	-
Ohio	-	-	-	-	-	-	1
Okla.	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-
Pa.	50	11	11	53	15	12	21
R.I.	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-
Tex.	1	-	-	15	-	-	1
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
Wisc.	-	-	-	-	2	-	-
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	2
P.R.	15	-	-	-	-	-	15
V.I.	4	-	-	-	-	-	-

TABLE 3-2. BENCH TRAINING RECEIVED BY STATE PROFESSIONAL AND TECHNICAL STAFF (Continued)

	Total Man-Days of Training by Subject:					
	San. Bact., San. Chem.	Environ. Chem.	Laboratory Techniques	Quality Control	Instrumentation	Other
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	30	-	23	-	-	-
Del.	-	-	-	-	-	8 - Microbiology
D.C.	-	-	-	-	-	-
Fla.	-	4	-	-	-	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	8	-
Ida.	22	-	-	-	6	6
Ill.	4	1	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	1	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	7	143	5	-	8	98 - Cancer Cytology and Hematology
Mass.	-	6	-	-	4	-
Mich.	3	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	9	-	-	-	18	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	3	-	-
N.J.	14 (d)	*	*	9	23 (d)	-
N.M.	-	-	-	-	-	-
N.Y.	*	*	*	*	*	*
N.C.	-	-	-	-	34	-
N.D.	4	-	-	-	-	-
Ohio	-	-	-	-	3	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	7	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	3	-	-	-	1	-
Va.	-	-	-	-	-	-
Wash.	-	2	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	10	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	3	-	-	-	-	-

TABLE 3-3. ACADEMIC TRAINING OF STATE LABORATORY STAFFS DURING YEAR REPORTED

	Number of Staff Members Receiving Training	Number Receiving A Degree	Source of Financial Support		
			Personal	State	Federal
Ala.	3	-	-	2	1
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	11	1 (M.A.)	4	7 (e)	-
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	1	1 (M.P.H.)	-	1	-
Ga.	-	-	-	-	-
Hawaii	1	-	1	-	-
Ida.	1	-	1	-	-
Ill.	4	-	2	2 (f)	-
Ind.	-	-	-	-	-
Ia.	1	-	-	1	-
Kans.	-	-	-	-	-
Ky.	-	-	-	-	-
La.	1	1 (M.S.)	-	1	-
Me.	-	-	-	-	-
Md.	5	-	-	5	-
Mass.	1	-	1	-	-
Mich.	3	-	1	1 (g)	1
Minn.	-	-	-	-	-
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	-	-	-	-	-
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	7	-	5	2	-
N.M.	7	-	-	7	-
N.Y.	63	-	-	63	-
N.C.	7	3 (M.S.P.H.)	3	4 (e)	-
N.D.	-	-	-	-	-
Ohio	2	1 (M.S.)	1	1	-
Okla.	1	-	1 (h)	-	-
Ore.	-	-	-	-	-
Pa.	2	1 (M.P.H.)	1	-	1
R.I.	1	1 (M.S.)	1 (i)	-	-
S.C.	1	1 (Dr.P.H.)	-	-	1 (g)
S.D.	-	-	-	-	-
Tenn.	-	-	-	-	-
Tex.	1	-	1	-	-
Utah	7	-	4	2 (e)	1
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	1	-	-	-	1
W.Va.	-	-	-	-	-
Wisc.	4	1 (j)	-	4 (e)	-
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	-	-	-	-	-
V.I.	-	-	-	-	-

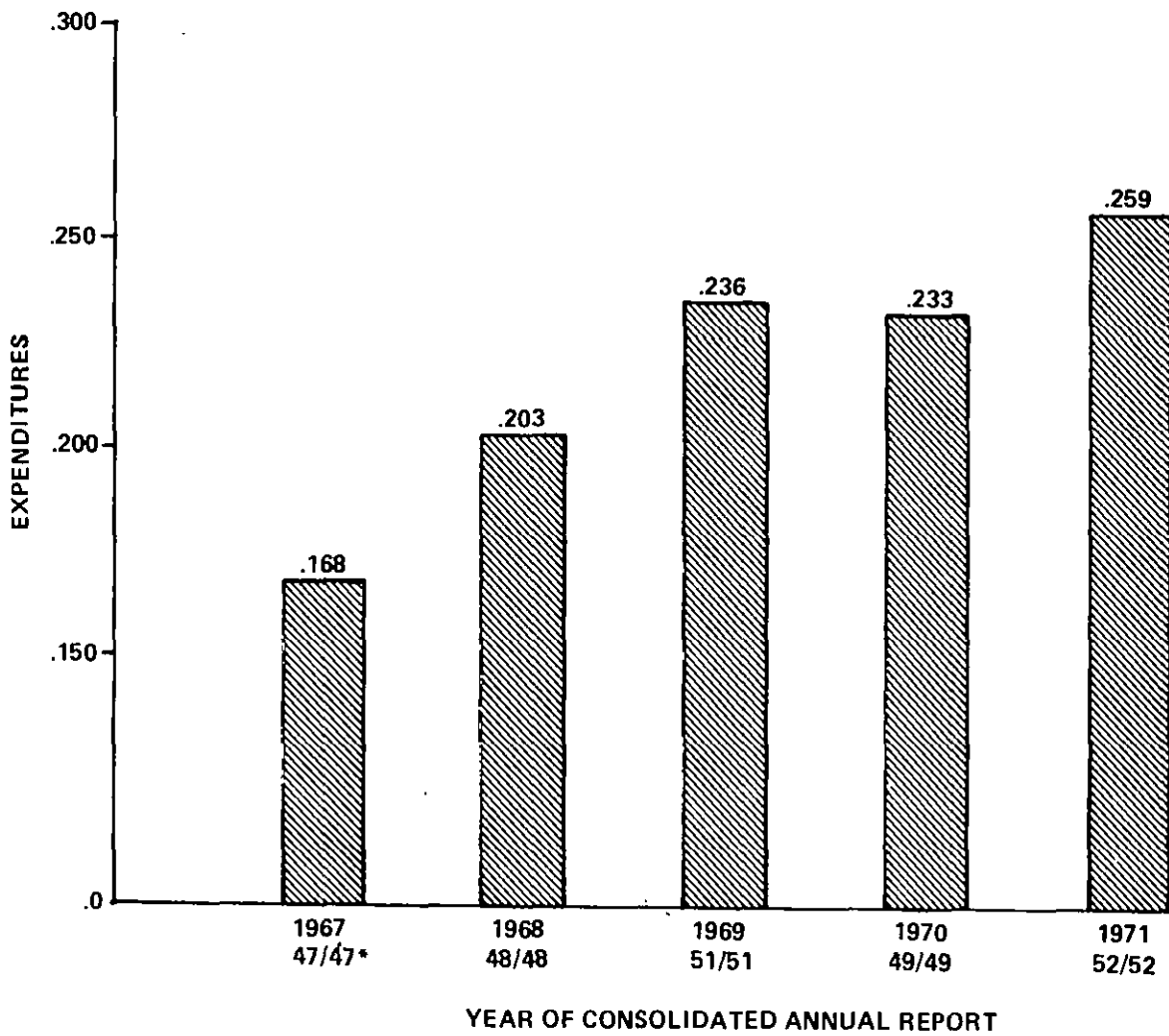
SECTION III. FOOTNOTES

- (a) Figures represent filled positions.
- (b) Budgeted positions figure used as filled positions not reported.
- (c) Administration and consultation.
- (d) Records not maintained in Chemistry.
- (e) Part State and part personal.
- (f) One was one-half State and one-half personal.
- (g) Federal and State.
- (h) State time.
- (i) Partial State reimbursement.
- (j) Pathology Boards - Anatomic and Clinical.

SECTION IV

FINANCES

Figure 5
LABORATORY EXPENDITURES PER CAPITA



*47/47 = INDICATES 47 STATES REPORTED THIS TYPE DATA OUT OF 47 STATES REPORTING

TABLE 4-1. LABORATORY EXPENDITURES

	Estimated Population (a)	Laboratory Expenditures (b)	Laboratory Expenditures Per Capita
Ala.	3,444,000	\$ 1,601,078	\$ 0.465
Alaska	302,000	370,300	1.226
Ariz.	1,772,000	544,577	0.307
Ark.	1,923,000	355,032	0.185
Cal.	19,953,000	*	*
Colo.	2,207,000	*	*
Conn.	3,032,000	1,956,284	0.645
Del.	548,000	187,296	0.342
D.C.	757,000	1,005,020	1.328
Fla.	6,789,000	1,639,375	0.241
Ga.	4,590,000	1,471,121	0.321
Hawaii	770,000	556,330	0.723
Ida.	713,000	299,470	0.420
Ill.	11,114,000	1,600,010	0.144
Ind.	5,194,000	667,660 (c)	0.129
Ia.	2,825,000	1,427,971	0.505
Kans.	2,249,000	705,070	0.250
Ky.	3,219,000	601,952	0.187
La.	3,643,000	1,405,658	0.386
Me.	994,000	439,860	0.443
Md.	3,922,000	2,759,777	0.704
Mass.	5,689,000	1,894,734	0.333
Mich.	8,875,000	5,212,256	0.587
Minn.	3,805,000	658,878	0.173
Miss.	2,217,000	403,823	0.182
Mo.	4,677,000	466,495	0.100
Mont.	694,000	160,595	0.231
Nebr.	1,484,000	174,220	0.117
Nev.	489,000	230,251	0.471
N.H.	738,000	174,090	0.236
N.J.	7,168,000	2,065,802	0.288
N.M.	1,016,000	350,496	0.345
N.Y.	18,191,000	8,046,618	0.442
N.C.	5,082,000	1,293,980	0.255
N.D.	618,000	218,492	0.354
Ohio	10,652,000	920,525	0.086
Okla.	2,559,000	520,560	0.203
Ore.	2,091,000	409,093	0.196
Pa.	11,794,000	1,124,893	0.095
R.I.	950,000	617,000	0.649
S.C.	2,591,000	629,935	0.243
S.D.	666,000	136,729	0.205
Tenn.	3,924,000	1,264,850	0.322
Tex.	11,197,000	1,188,766	0.106
Utah	1,059,000	409,667	0.387
Vt.	445,000	353,417	0.794
Va.	4,648,000	598,883	0.129
Wash.	3,409,000	672,000	0.197
W.Va.	1,744,000	445,327	0.255
Wisc.	4,418,000	1,920,618	0.435
Wyo.	332,000	79,080	0.238
Guam	87,000	111,604	1.283
P.R.	2,712,000	848,960	0.313
V.I.	63,000	87,802	1.394

TABLE 4-2. LABORATORY EXPENDITURES BY MAJOR PURPOSE

	Total Expenditures	Expenditures For Salaries	% of Total Expenditures For Salaries	Expenditures For Supplies	% of Total Expenditures For Supplies
Ala.	\$ 1,601,078	\$ 1,172,165	73.2	\$ 256,886	16.0
Alaska	370,300	217,606	58.8	48,000	13.0
Ariz.	544,577	406,192	74.6	85,238	15.7
Ark.	355,032	260,917	73.5	42,937	12.1
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	1,956,284	1,704,623	87.2	209,661	10.7
Del.	187,296	138,678	74.0	19,253	10.3
D.C.	1,005,020	765,956	76.2	124,143	12.4
Fla.	1,639,375	1,231,765	75.1	407,610 (d)	24.9 (d)
Ga.	1,471,121	1,075,714	73.1	184,614	12.6
Hawaii	556,330	441,931	79.4	63,906	11.5
Ida.	299,470	209,023	69.8	56,623	18.9
Ill.	1,600,010	1,201,210	75.1	94,200	5.9
Ind.	667,660 (c)	659,292 (c)	98.8	(c)	-
Ia.	1,427,971	885,359	62.0	242,427	17.0
Kans.	705,070	507,888	72.0	56,655	8.0
Ky.	601,952	431,472	71.7	117,562	19.5
La.	1,405,658	1,094,535	77.9	97,420	7.0
Me.	439,860	274,750	62.5	68,714	15.6
Md.	2,759,777	2,102,382	76.2	279,970	10.1
Mass.	1,894,734	1,429,939	75.5	359,913	19.0
Mich.	5,212,256	4,119,041	79.0	777,314	14.9
Minn.	658,878	489,595	74.3	89,045	13.5
Miss.	403,823	289,326	71.6	84,385	20.9
Mo.	466,495	338,313	72.5	85,200	18.3
Mont.	160,595	117,876	73.4	26,500	16.5
Nebr.	174,220	121,830	69.9	10,850	6.2
Nev.	230,251	175,477	76.2	46,514	20.2
N.H.	174,090	143,400	82.4	29,400	16.9
N.J.	2,065,802	1,467,866	71.0	261,769	12.7
N.M.	350,496	248,121	70.8	48,151	13.7
N.Y.	8,046,618	5,826,271	72.4	812,467	10.1
N.C.	1,293,980	815,396	63.0	219,683	17.0
N.D.	218,492	155,719	71.3	30,310	13.9
Ohio	920,525	673,061	73.1	111,119	12.1
Okla.	520,560	433,501	83.3	19,194	3.7
Ore.	409,093	303,135	74.1	58,934	14.4
Pa.	1,124,893	742,793	66.0	225,463	20.1
R.I.	617,000	455,000	73.7	67,000	10.9
S.C.	629,935	471,687	74.9	105,428	16.7
S.D.	136,729	97,259	71.1	16,535	12.1
Tenn.	1,264,850	1,012,321	80.0	101,000	8.0
Tex.	1,188,766	1,009,878	84.9	161,381	13.6
Utah	409,667	286,282	69.9	47,932	11.7
Vt.	353,417	226,238	64.0	85,900	24.3
Va.	598,883	494,434	82.6	61,699	10.3
Wash.	672,000	492,100	73.2	40,000	6.0
W.Va.	445,327	308,640	69.3	69,787	15.7
Wisc.	1,920,618	1,261,852	65.7	338,728	17.6
Wyo.	79,080	57,959	73.3	6,118	7.7
Guam	111,604	70,615	63.3	16,183	14.5
P.R.	848,960	629,623	74.2	43,695	5.1
V.I.	87,802	65,699	74.9	8,100	9.2

TABLE 4-2. LABORATORY EXPENDITURES BY MAJOR PURPOSE
(Continued)

	Expenditures For Equipment	% of Total Expenditures For Equipment	Expenditures For Travel	% of Total Expenditures For Travel
Ala.	\$ 9,097	0.6	\$ 16,141	1.0
Alaska	8,000	2.1	5,000	1.3
Ariz.	8,379	1.5	4,350	0.8
Ark.	13,936	3.9	949	0.3
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	40,000	2.0	2,000	0.1
Del.	2,486	1.3	186	0.1
D.C.	42,180	4.2	2,925	0.3
Fla.	(d)	(d)	(d)	(d)
Ga.	9,893	0.7	9,468	0.6
Hawaii	50,493	9.1	-	-
Ida.	6,753	2.3	4,587	1.5
Ill.	25,000	1.6	6,000	0.3
Ind.	(c)	-	1,639	0.2
Ia.	10,500	0.7	25,200	1.8
Kans.	25,908	3.7	8,098	1.2
Ky.	73	-	3,984	0.7
La.	22,896	1.6	5,984	0.4
Me.	33,356	7.6	6,705	1.5
Md.	112,495	4.1	4,030	0.1
Mass.	34,100	1.8	5,500	0.3
Mich.	90,452	1.7	25,291	0.5
Minn.	2,250	0.4	800	0.1
Miss.	528	0.1	2,684	0.7
Mo.	33,897	7.3	4,389	0.9
Mont.	1,200	0.7	1,600	1.0
Nebr.	17,350	10.0	1,760	1.0
Nev.	6,000	2.6	2,260	1.0
N.H.	500	0.3	790	0.4
N.J.	63,787	3.1	14,230	0.7
N.M.	7,624	2.2	838	0.2
N.Y.	430,742	5.4	65,931	0.8
N.C.	82,216	6.4	8,248	0.6
N.D.	5,547	2.5	2,176	1.0
Ohio	13,582	1.5	4,337	0.5
Okla.	2,256	0.4	5,085	1.0
Ore.	2,519	0.6	44,505	10.9
Pa.	42,045	3.7	3,600	0.3
R.I.	32,000	5.2	2,000	0.3
S.C.	22,125	3.5	8,912	1.4
S.D.	3,244	2.4	2,206	1.6
Tenn.	4,000	0.3	10,600	0.9
Tex.	11,891	1.0	5,616	0.5
Utah	26,641	6.5	4,543	1.1
Vt.	18,633	5.3	1,402	0.4
Va.	233	-	2,228	0.4
Wash.	5,000	0.7	6,000	0.9
W.Va.	14,000	3.1	2,900	0.7
Wisc.	58,831	3.1	19,813	1.0
Wyo.	1,577	2.0	1,163	1.5
Guam	6,530	5.9	1,500	1.3
P.R.	124,500	14.7	19,800	2.3
V.I.	4,686	5.3	2,000	2.3

TABLE 4-2. LABORATORY EXPENDITURES BY MAJOR PURPOSE
(Continued)

	Expenditures for Personnel Benefits	% of Total Expenditures for Personnel Benefits	Other Expenditures	% of Total For Other Expenditures
Ala.	\$ 146,789	9.2	\$ -	-
Alaska	27,394	7.4	64,300	17.4
Ariz.	40,418	7.4	-	-
Ark.	29,467	8.3	6,826	1.9
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	(e)	-	-	-
Del.	-	-	26,693	14.3
D.C.	60,300	6.0	9,516	0.9
Fla.	(d)	(d)	(d)	(d)
Ga.	178,032	12.1	13,400	0.9
Hawaii	-	-	-	-
Ida.	22,484	7.5	(f)	(f)
Ill.	106,400	6.7	167,200	10.4
Ind.	(c)	-	6,729	1.0
Ia.	106,243	7.4	158,242	11.1
Kans.	52,042	7.4	54,479	7.7
Ky.	48,827	8.1	34	-
La.	116,980	8.3	67,843	4.8
Me.	24,024	5.5	32,311	7.3
Md.	- (g)	-	260,900	9.5
Mass.	-	-	65,282	3.4
Mich.	200,158	3.9	-	-
Minn.	52,904	8.0	24,284	3.7
Miss.	26,900	6.7	-	-
Mo.	-	-	4,696	1.0
Mont.	13,419	8.4	-	-
Nebr.	9,030	5.2	13,400	7.7
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	165,790	8.0	92,360	4.5
N.M.	28,765	8.2	16,997	4.9
N.Y.	-	-	911,207	11.3
N.C.	108,839	8.4	59,598	4.6
N.D.	14,162	6.5	10,578	4.8
Ohio	90,242	9.8	28,184	3.0
Okla.	48,707	9.3	11,817	2.3
Ore.	(e)	-	-	-
Pa.	110,992	9.9	-	-
R.I.	43,000	7.0	18,000	2.9
S.C.	-	-	21,783	3.5
S.D.	6,666	4.9	10,819	7.9
Tenn.	86,000	6.8	50,929	4.0
Tex.	-	-	-	-
Utah	35,211	8.6	9,058	2.2
Vt.	10,887	3.1	10,357	2.9
Va.	-	-	40,289	6.7
Wash.	60,600	9.0	68,300	10.2
W.Va.	-	-	50,000	11.2
Wisc.	-	-	241,394	12.6
Wyo.	5,930	7.5	6,333	8.0
Guam	6,076	5.4	10,700	9.6
P.R.	13,062	1.5	18,280	2.2
V.I.	7,017	8.0	300	0.3

TABLE 4-3. SOURCES OF LABORATORY FUNDS

	Expenditures	State Appropriation	Percent Appropriated by State	Federal Contributions	Percent Contributed by Federal Govt.
Ala.	\$ 1,601,078	\$ 809,665	50.6	\$ 791,413	49.4
Alaska	370,300	316,000	85.3	47,300	12.8
Ariz.	544,577	167,623	30.8	376,954	69.2
Ark.	355,032	167,935	47.3	187,097	52.7
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	1,956,284	1,656,881	84.7	299,403	15.3
Dal.	187,296	112,437	60.0	74,859	40.0
D.C.	1,005,020	722,179	71.9	277,841	27.6
Fla.	1,639,375	1,639,375	100.0	-	-
Ga.	1,471,121	*	*	*	*
Hawaii	556,330	473,848	85.2	82,482	14.8
Ida.	299,470	176,309 (h)	58.9	123,161	41.1
Ill.	1,600,010	1,517,500	94.8	82,510	5.2
Ind.	667,660	568,112	85.1	99,548	14.9
Ia.	1,427,971	919,468	64.4	143,655	10.1
Kans.	705,070	478,156	67.8	145,563	20.7
Ky.	601,952	533,392	88.6	68,560	11.4
La.	1,405,658	1,269,646	90.3	80,162	5.7
Ma.	439,860	328,506	74.7	111,354	25.3
Md.	2,759,777	2,693,294	97.6	66,483	2.4
Mass.	1,894,734	1,566,450	82.7	328,284	17.3
Mich.	5,212,256	4,570,498	87.7	549,210	10.5
Minn.	658,878	481,546	73.1	177,071	26.9
Miss.	403,823	88,302	21.9	309,661	76.7
Mo.	466,495	42,524	9.1	423,971	90.9
Mont.	160,595	84,020	52.3	76,575	47.7
Nebr.	174,220	115,740	66.4	58,480	33.6
Nav.	230,251	205,300	89.2	24,951	10.8
N.H.	174,090	107,741	61.9	66,349	38.1
N.J.	2,065,802	1,262,680	61.1	773,721	37.5
N.M.	350,496	350,496	100.0	- (i)	-
N.Y.	8,046,618	7,580,000	94.2	354,000	4.4
N.C.	1,293,980	851,790	65.8	279,458	21.6
N.D.	218,492	70,792	32.4	144,500	66.1
Ohio	920,525	240,772	26.2	679,753	73.8
Okla.	520,560	303,961	58.4	212,486	40.8
Ore.	409,093	312,844	76.5	96,206	23.5
Pa.	1,124,893	899,117	79.9	195,416	17.4
R.I.	617,000	493,000	79.9	124,000	20.1
S.C.	629,935	356,108	56.5	273,827	43.5
S.D.	136,729	64,515	47.2	72,214	52.8
Tann.	1,264,850	1,216,850	96.2	25,000	2.0
Tax.	1,188,766	514,091	43.2	674,675	56.8
Utah	409,667	201,260	49.1	208,407	50.9
Vt.	353,417	194,410	55.0	159,007	45.0
Va.	598,883	597,748	99.8	1,135	0.2
Wash.	672,000	302,882	45.1	369,118	54.9
W.Va.	445,327	229,600	51.6	124,727	28.0
Wisc.	1,920,618	1,351,359	70.4	112,490	5.9
Wyo.	79,080	26,408	33.4	52,672	66.6
Guam	111,604	89,604	80.3	22,000	19.7
P.R.	848,960	766,000	90.2	82,960	9.8
V.I.	87,802	87,802	100.0	-	-

TABLE 4-3. SOURCES OF LABORATORY FUNDS
(Continued)

	Earned Income	% of Total Expend. from Earned Income	Other Sources	% of Total Expend. from Other Sources
Ala.	\$ -	-	\$ -	-
Alaska	-	-	7,000	1.9
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	-	-	-	-
Del.	-	-	-	-
D.C.	-	-	5,000	0.5
Fla.	-	-	-	-
Ga.	*	*	*	*
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	149,590	10.4	215,258	15.1
Kans.	81,351	11.5	-	-
Ky.	-	-	-	-
La.	-	-	55,850	4.0
Me.	-	-	-	-
Md.	-	-	-	-
Mass.	-	-	-	-
Mich.	-	-	92,548	1.8
Minn.	-	-	-	-
Miss.	5,860	1.4	-	-
Mo.	-	-	-	-
Mont.	- (j)	-	-	-
Nebr.	-	-	-	-
Ne v.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	29,401	1.4
N.M.	-	-	-	-
N.Y.	-	-	112,618	1.4
N.C.	162,732	12.6	-	-
N.D.	-	-	3,200	1.5
Ohio	-	-	-	-
Okla.	-	-	4,113	0.8
Ore.	-	-	43	-
Pa.	-	-	30,360	2.7
R.I.	-	-	-	-
S.C.	-	-	-	-
S.D.	-	-	-	-
Tenn.	23,000	1.8	-	-
Tex.	-	-	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	91,000 (k)	20.4
Wisc.	175,387	9.1	281,382	14.6
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

SECTION IV. FOOTNOTES

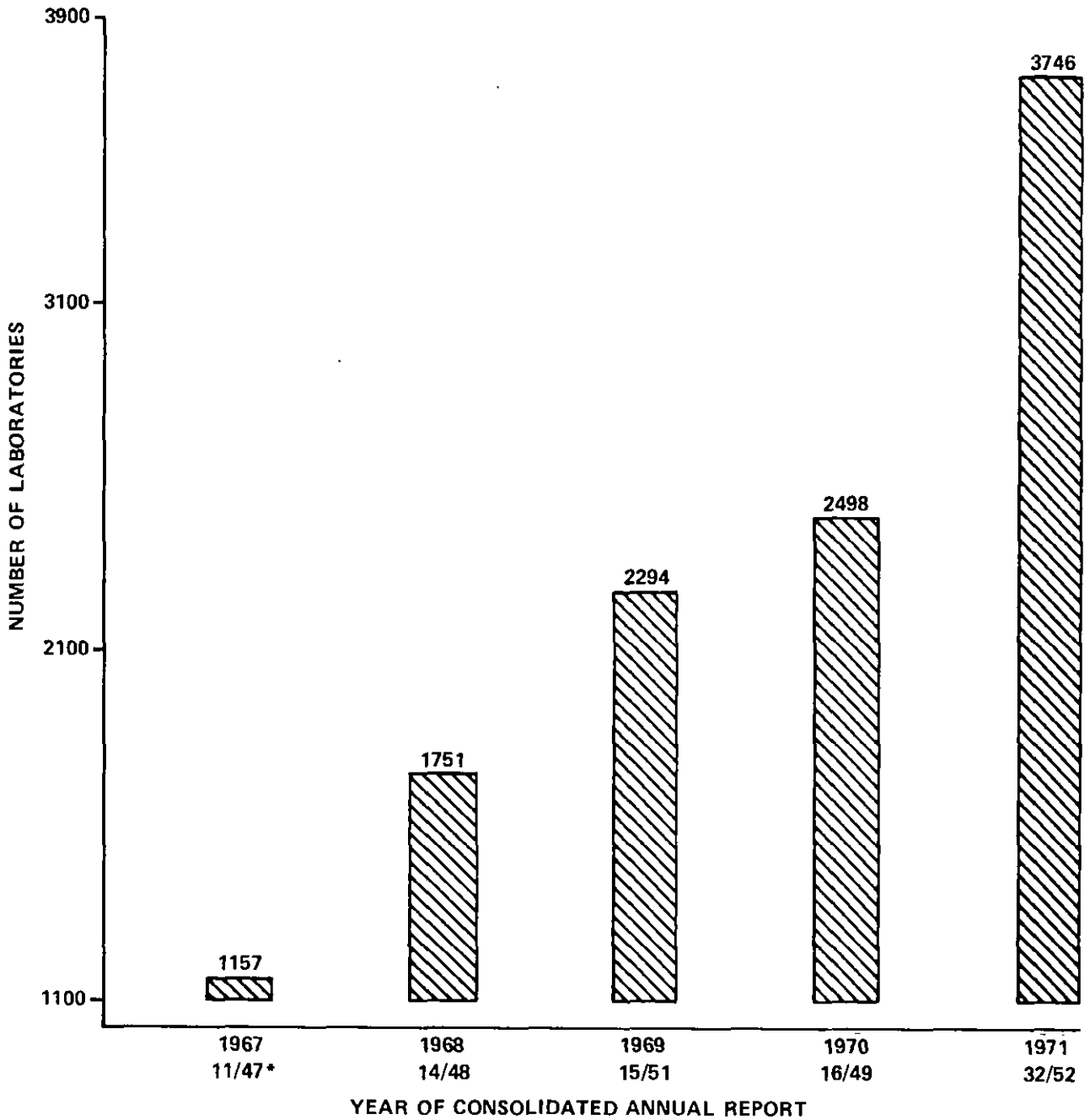
- (a) Estimated population as of July 1, 1970. Taken from Statistical Abstract of the United States: 1971. U. S. Bureau of the Census. (92nd Edition) Washington, D.C., 1971, pages 14 and 784.
- (b) Figures represent the latest complete fiscal year, July 1, 1970 - June 30, 1971, with these exceptions: Florida, 1/1/70 - 12/31/70; New York, 4/1/70 - 4/1/71; Texas, 9/70 - 8/71; and Virginia, 7/1/69 - 6/30/70.
- (c) Laboratory expenditures include Salaries, Travel and Other Expenditures. Other operating expenses are not broken down by Divisions.
- (d) Supplies, Equipment, Travel, Personnel Benefits, and Other Expenditures included in the figure shown under "Supplies."
- (e) Included in Salaries.
- (f) Included with Supplies.
- (g) Not included in Laboratory budget: 5% Social Security; 4.43% retirement and \$7 per month insurance for each employee.
- (h) Includes receipts for tests.
- (i) Allocation of Block Grants not yet compiled.
- (j) There is a charge of \$2.00 for water analysis of private supplies and a negotiated charge for municipalities but it goes into the General Fund and is not credited to the laboratory as income.
- (k) Supportive funds from other programs.

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SECTION V

**INTRASTATE LABORATORY IMPROVEMENT
AND PROFICIENCY TESTING PROGRAMS UNDER MEDICARE**

Figure 6
NUMBER OF LABORATORIES PARTICIPATING IN STATE OPERATED
PROFICIENCY TESTING PROGRAMS IN CLINICAL CHEMISTRY



*11/47 = INDICATES 11 STATES REPORTED THIS TYPE DATA OUT OF 47 STATES REPORTING

TABLE 5-1. STATUS OF LABORATORY LICENSURE AND REGISTRATION LAWS AS OF JUNE 30, 1971

	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	-	-	-	-	-	-
Ariz.	X	*	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	X	1968	X	1968	-	-
Del.	- (b)	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	X	6/30/67	X	6/30/67
Ga.	X	7/1/70	-	-	-	-
Hawaii	X (c)	Nov. 1958	X	Nov. 1958	-	-
Ida.	- (d)	-	-	-	-	-
Ill.	X	*	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	(e)	-	-	-	-	-
Ky.	X	Jan. 1969	-	-	-	-
La.	-	-	-	-	-	-
Me.	X	1967	-	-	-	-
Md.	X	6/1/66	-	-	X	6/1/66
Mass.	-	-	-	-	-	-
Mich.	X (f)	1/1/69	- (g)	-	X	1927
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	- (h)	-	X (i)	7/1/35
Nebr.	-	-	- (j)	-	-	-
Nev.	X	1/1/72	X	1/1/72	-	-
N.H.	-	-	-	-	-	-
N.J.	X (k)	May 1963	-	-	X (l)	9/18/53
N.M.	-	-	-	-	-	-
N.Y.	X (m)	7/1/65	X (n)	7/1/65	X (m)	7/1/65
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	X	7/1/70	-	-	-	-
Pa.	X	1951	-	-	-	-
R.I.	X	*	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	X	May 1967	X	May 1967	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	X (o)	*
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	- (p)	-
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

	Independent Clinical Labs		Hospital Labs		Group Practice Labs		
	Covered By Law	Number Licensed	Covered By Law	Number Licensed	# Physicians Considered Forming Such Laboratory	Covered By Law	Number Licensed
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	X	49	(q)	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	X	62	X	56	-	-	-
Del.	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-
Ga.	X	(r)	X	(r)	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	X (s)	350	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	X	*	-	-	*	X (t)	*
La.	-	-	-	-	-	-	-
Me.	X	-	-	-	-	-	-
Md.	X	76	X	61	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	X	145	X	241	3	-	-
Minn.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	X	15	X	10	3	X	4
N.H.	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-
N.Y.	X	204	X	231	-	-	-
N.C.	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-
Ore.	X	41	X	86	5	X	50
Pa.	X	169	X	222	-	-	-
R.I.	X	29	-	-	(u)	X	*
S.C.	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	X	26	X	141	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
P.R.	X	137	X	61	-	-	-
V.I.	-	-	-	-	-	-	-

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

	<u>Doctors' Office Labs</u>		<u>Local Public Health Labs</u>		<u>State Public Health Labs</u>	
	Covered By Law	Number Licensed	Covered By Law	Number Licensed	Covered By Law	Number Licensed
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	X	3	X	3
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	X	12	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	-	-	X	(r)	X	(r)
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	(t)	*	-	-	-	-
La.	-	-	-	-	-	-
Ma.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	X	9	X	4
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	X	2	-	-	X	2
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
N.Y.	-	-	X	65 (v)	(w)	49 (w)
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	X	6	X	1	X	1
Pa.	-	-	X	2	X	1
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	X	14	X	8	X	5
V.I.	-	-	-	-	-	-

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

	<u>Non-Clinical Labs</u>		<u>Blood Banks</u>		<u>Directors</u>	
	Covered By Law	Number Licensed	Covered By Law	Number Licensed	Covered By Law	Number Licensed
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	(x)	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	X	54	X	1	X	101
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	(y)	-	X	(r)	X	(r)
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	X	53 (z)	X	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	X	341 (aa)
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	X	126	-	-
N.M.	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	X	-	X	2	-	-
Pa.	X	9	-	-	(bb)	-
R.I.	-	-	-	-	X	*
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	X	11	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	X	19	X	27	-	-
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.	X	(r)	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	X	-	X	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	(bb)	-	(bb)	-	(bb)	-
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

	<u>Laboratory Directors</u>		<u>Supervisors</u>		<u>Technologists</u>		<u>Technicians</u>	
	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	62	-	-	X (cc)	212	-	-
Del.	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-
Fla.	X	284	X	966	X	2,326	X	1,631
Ga.	-	-	-	-	-	-	-	-
Hawaii	X	50	-	-	X	475	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	X	35	-	-	X	170	X	21
N.H.	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-	-
N.Y.	X	563	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-
R.I.	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-	-
Tenn.	X	36	X	519	X	985	X	635
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-
P.R.	X	180	X	54	X	387	X	34
V.I.	-	-	-	-	-	-	-	-

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

	Independent Clinical Labs		Hospital Labs		Group Practice Labs		
	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	257	X	220	6	X	(dd)
Ga.	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-
Md.	X	76	X	61	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	X	106	X	219	3	X	8
Minn.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	X	7	X	70	3	X	33
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-
N.Y.	X (ee)	205	X	207	-	-	-
N.C.	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-
R.I.	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	X	5	X	21	2	X	9
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 (ff)	X	(ff)
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Ma.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	X	8	X	9	X	4
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	X	1	X	1
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
N.Y.	-	-	X	65 (v)	X (gg)	34
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Vt.	X	12	-	-	-	-
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 (hh)	23	-	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	-	-	X	53	-	-
Mass.	-	-	-	-	-	-
Mich.	X	41	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	X	2	X	2	X	5
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	X	184
N.M.	-	-	-	-	-	-
N.Y.	-	-	X	7	-	-
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)

	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.	X	79	X	140	X	119
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.	-	-	-	-	-	-

TABLES 5-1 - 5-4. FOOTNOTES

- (a) New bill introduced, passed House and is now in Senate.
- (b) House bill for regulation and licensure of clinical laboratories introduced in June 1968 and was killed.
- (c) Laboratories and laboratory personnel can be regulated by statute (passed 1956), but so far only personnel are licensed.
- (d) Bill was presented in 1967 Legislature, but died in Legislative Committee.
- (e) Bill under consideration. Hospital laboratories must be approved as part of State hospital licensure regulations.
- (f) Laboratories are also covered by premarital and prenatal laws as follows: Independent Clinical Laboratories, 110; Hospital Laboratories, 205; Group Practice Laboratories, 7; Doctors' Office Laboratories, 8; Local Public Health Laboratories, 8; and State Public Health Laboratories, 4.
- (g) House bill in Committee.
- (h) Personnel licensure bill in 1971 Session of Legislature defeated by adverse Committee report.
- (i) Covered by Regulation only.
- (j) A bill is proposed for the 1972 or 1973 session of the Legislature to license medical technologists. It will be sponsored by the Nebraska Society of Medical Technologists.
- (k) Applies to Blood Banks only.
- (l) Laboratory registration is covered by the Bio-Analytical Laboratory Act and is administered by the Board of Medical Examiners, Department of Law and Public Safety.
- (m) Laboratory Permit Law.
- (n) Personnel Certification Law.
- (o) Board of Health regulation.
- (p) Annual laboratory registration requirement is not a law but a rule and regulation of the State Board of Health.
- (q) Under law, hospital laboratories must meet the same requirements as independent clinical laboratories but are not issued laboratory licenses.
- (r) Anticipated implementation date is January 1, 1972.
- (s) 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.
- (t) If referrals are received.
- (u) Any size considered independent laboratory subject to licensure if services offered for other than group practice physicians' own patients.
- (v) Includes 18 municipal hospital laboratories (covered under New York City Code) as special project.
- (w) Certificate of approval. Includes 34 State institutional laboratories.
- (x) Directors are not licensed independently from the laboratory. A laboratory license is issued jointly to the laboratory and the director.
- (y) Law excludes research and teaching laboratories which provide no personal health services.
- (z) Hospitals and commercial.

TABLES 5-1 - 5-4. FOOTNOTES
(Continued)

- (aa) Certificates of Qualification.
- (bb) Qualifications by rules and regulations of the law.
- (cc) Syphilis Serology.
- (dd) Included with "Independent Clinical Laboratories."
- (ee) In addition, 3 specimen collection stations are covered.
- (ff) State and local public health laboratories included together.
- (gg) Voluntary participation (total or partial) of State institutions.
- (hh) Plasmaphoresis also covered for 23 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.	139	15	*	3,444,000	4.0	0.4	*
Alaska	22	2	6	302,000	7.3	0.7	2.0
Ariz.	67	49	*	1,772,000	3.8	2.8	*
Ark.	16	11	*	1,923,000	0.8	0.6	*
Cal.	*	*	*	19,953,000	*	*	*
Colc.	*	*	*	2,207,000	*	*	*
Conn.	56	62	4	3,032,000	1.8	2.0	0.1
Del.	5	7	*	548,000	0.9	1.3	*
D.C.	14	8	7	757,000	1.8	1.1	0.9
Fla.	220	257	*	6,789,000	3.2	3.8	*
Ga.	205	40	15	4,590,000	4.5	0.9	0.3
Hawaii	17	40	10	770,000	2.2	5.2	1.3
Ida.	48	19	*	713,000	6.7	2.7	*
Ill.	300	300	*	11,114,000	2.7	2.7	*
Ind.	130	52	46	5,194,000	2.5	1.0	0.9
Ia.	60	20	*	2,825,000	2.1	0.7	*
Kans.	167	25	15	2,249,000	7.4	1.1	0.7
Ky.	106	25	*	3,219,000	3.3	0.8	*
La.	* (b)	* (b)	* (b)	3,643,000	*	*	*
Me.	60	1	*	994,000	6.0	0.1	*
Md.	61	76	* (c)	3,922,000	1.6	1.9	*
Mass.	212	90	*	5,689,000	3.7	1.6	*
Mich.	255	150	10	8,875,000	2.9	1.7	0.1
Minn.	184	9	*	3,805,000	4.8	0.2	*
Miss.	*	*	*	2,217,000	*	*	*
Mo.	168	100	*	4,677,000	3.6	2.1	*
Mont.	70	7	33	694,000	10.1	1.0	4.8
Nebr.	*	*	*	1,484,000	*	*	*
Nev.	20	16	4	489,000	4.1	3.3	0.8
N.H.	28	2	*	738,000	3.8	0.3	*
N.J.	131	206	*	7,168,000	1.8	2.9	*
N.M.	44	*	9	1,016,000	4.3	*	0.9
N.Y.	207	205	*	18,191,000	1.1	1.1	*
N.C.	156	70	*	5,082,000	3.1	1.4	*
N.D.	*	*	*	618,000	*	*	*
Ohio	250	150	*	10,652,000	2.3	1.4	*
Okla.	134	45	*	2,559,000	5.2	1.8	*
Ore.	86	41	50	2,091,000	4.1	2.0	2.4
Pa.	222	167	*	11,794,000	1.9	1.4	*
R.I.	23	29	2	950,000	2.4	3.1	0.2
S.C.	80	15	100	2,591,000	3.1	0.6	3.9
S.D.	64	6	*	666,000	9.6	0.9	*
Tenn.	168	27	*	3,924,000	4.3	0.7	*
Tex.	*	*	*	11,197,000	*	*	*
Utah	40	15	15	1,059,000	3.8	1.4	1.4
Vt.	21	5	*	445,000	4.7	1.1	*
Va.	112	56	*	4,648,000	2.4	1.2	*
Wash.	123	65	75	3,409,000	3.6	1.9	2.2
W.Va.	85	50	*	1,744,000	4.9	2.9	*
Wisc.	224	20	*	4,418,000	5.1	0.5	*
Wyo.	27	3	9	332,000	8.1	0.9	2.7
Guam	2	-	2	87,000	2.3	-	2.3
P.R.	95	200	5	2,712,000	3.5	7.4	0.2
V.I.	4	3	*	63,000	6.3	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	-	70
Alaska	-	X	-	-	-	3
Ariz.	X	-	-	X (d)	-	77
Ark.	-	-	-	-	X	*
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	X	-	-	-	-	150
Del.	X	-	-	-	X (e)	11
D.C.	-	-	-	X	-	29
Fla.	X	-	X	-	-	535
Ga.	-	-	-	X	X	153 (f)
Hawaii	-	-	-	X (g)	-	36
Ida.	-	-	-	X	X	41
Ill.	X	-	-	X	-	625
Ind.	-	-	-	X	X	156
Ia.	-	-	-	X (h)	X (h)	136
Kans.	-	-	-	X	-	225
Ky.	-	-	-	X	-	212
La.	-	-	-	-	-	(b)
Me.	-	-	-	-	X	35
Md.	-	X	X	X	-	137
Mass.	-	-	-	X	X	277
Mich.	X	-	X	X	X	404
Minn.	-	-	-	X	X	193
Miss.	-	-	-	X	-	135
Mo.	-	-	-	X	-	260
Mont.	-	-	X	X	-	143 (i)
Nebr.	*	*	*	*	*	*
Nev.	X	-	-	-	-	32
N.H.	-	-	-	-	-	-
N.J.	-	-	-	X	-	304
N.M.	-	-	-	X	X	9
N.Y.	-	X	-	X	-	521
N.C.	-	-	-	X	-	210
N.D.	-	-	-	X (j)	-	-
Ohio	-	-	-	X	X	361
Okla.	-	-	-	X	-	204
Ore.	X	-	-	-	-	186
Pa.	-	X	-	X	-	401
R.I.	X	-	-	-	-	29
S.C.	-	-	-	-	X	63
S.D.	-	-	-	X	-	40
Tenn.	X	-	-	-	-	206
Tex.	-	-	-	X	-	1,404
Utah	-	-	-	X	-	42
Vt.	-	-	X	X	-	11
Va.	-	-	-	X	-	150
Wash.	-	-	-	X	-	125 (g)
W.Va.	-	-	-	X	-	130
Wisc.	-	-	-	X	X	391
Wyo.	-	-	-	X	-	38
Guam	-	-	-	-	-	-
P.R.	X	-	-	-	-	212
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:	Components of State Health Department, Other Than Laboratory, with Responsibilities for the Laboratory Improvement Program and Responsibilities Involved:
Ala. Once per year. Alaska Once per year.	Bureau of Licensing and Certification. Medicare Unit-Certification of Independent Laboratories.
Ariz. Minimum of one visit per year.	-
Ark. Seldom.	-
Cal. *	*
Colo. *	*
Conn. Biannually.	-
Del. -	-
D.C. Once per year and when the laboratories have disagreement in their proficiency tests.	-
Fla. Annually for Medicare laboratories. Biannually for other (not completely implemented).	-
Ga. Those in Approval Program, at least once each 2 years.	-
Hawaii Once per year - Medicare.	-
Ida. Annual visit to serology laboratories.	Adult Health Division has responsibility of hospital laboratories performing under Medicare.
Ill. All newly licensed laboratories are visited initially. Deviant laboratories are visited with frequency of visits dependent upon extent of deviancy.	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. Biennially, or as needed.	-
Ia. Upon request.	-
Kans. Annually.	-
Ky. 2-3% of all laboratories visited yearly when personnel available.	-
La. - (b)	(Handled by Louisiana State Department of Hospitals).
Me. Laboratory offers assistance and goes when asked.	-
Md. Annually or more frequently as required.	-
Mass. No specified intervals due to understaffing. Visits are limited to laboratories having problems.	-
Mich. Biennially required. Some laboratories more often if necessary (6 months or 1 year).	Bureau of Health Facilities - Medicare - Independent Laboratories. Reports to Chicago Regional Office the status of independent laboratories at the end of each month.
Minn. Once per year.	-
Miss. -	-
Mo. Biannually.	-
Mont. Very erratic except for Medicare. Seven independent laboratories and 47 non-JCAH hospital laboratories are visited annually.	-
Nebr. *	Division of Health Facilities Standards - unified inspection, approval and licensure agency of the department.
Nev. Once per year.	Bureau of Health Facilities - responsible for Medicare requirements.
N.H. -	Medicare, under Bureau of Medical Care Administration Services. Responsibilities include administration and inspections by laboratory personnel.

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

Frequency of Inspection of or Visits to Laboratories Covered by Evaluation or Proficiency Testing Programs:	Components of State Health Department, Other Than Laboratory, with Responsibilities for the Laboratory Improvement Program and Responsibilities Involved:
N.J. Generally once per year.	-
N.M. Every other year if funds available. Not available in 1970-71.	*
N.Y. *	-
N.C. Annually, or more often if need is indicated.	-
N.D. -	-
Ohio By request or courtesy visits; Medicare by appointment annually.	-
Okla. *	Medicare approval and inspection of independent laboratories and hospitals by Health Facilities Services, Medical Care Division.
Ore. Annual.	-
Pa. At least one annual visit, additional visits when necessary.	-
R.I. Minimum of once annually.	Division of Planning and Standards supervises Medicare Certification.
S.C. -	-
S.D. Rarely.	Medical Facilities Section - hospitals, mostly where Medicare is involved.
Tenn. Undetermined at this time.	-
Tex. About 5%, other than branch or regional laboratories, are visited each year.	Medical Administration Services (Medicare).
Utah Once per year.	-
Vt. Once a year.	-
Va. *	The Medical and Nursing Facilities Service Bureau of the Division of Medical and Hospital Services in the State Department of Health is responsible for the Medicare and Medicaid licensure of laboratories. They completely administer the program. The laboratory acts occasionally as a consultant.
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.	Both the Wisconsin Division of Health, Section of Laboratory Evaluation and the State Laboratory of Hygiene cooperate in offering evaluation and training programs. The Section of Laboratory Evaluation has the responsibility for evaluation programs and field consultation and surveying. The State Laboratory of Hygiene staff act as expert consultants to the Division of Health personnel. The State Laboratory of Hygiene operates the workshop programs, offers bench training at the State Laboratory and has training aids such as slides, films, etc. for loan to individual laboratories. The Section of Laboratory Evaluation cooperates in this phase of training.
Wyo. Biennially.	-
Guam -	-
P.R. At least twice a year, but as many as necessary.	-
V.I. -	-

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	-	*
Alaska	-	X	-	-	7
Ariz.	X	X	X	-	154
Ark.	X	-	-	-	135
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	X	X	-	-	150
Del.	X (k)	X	X	-	11
D.C.	X	-	-	-	29
Fla.	X	X	X	-	116
Ga.	- (1)	- (1)	-	-	(1)
Hawaii	X (k)	X	X	-	16 (m)
Ida.	-	X	-	-	31
Ill.	X	X	X	-	*
Ind.	X (k)	X	-	-	11
Ia.	X	X	X	-	136
Kans.	X	X	X	-	220
Ky.	-	X	-	-	20
La.	-	X	-	-	- (b)
Me.	X	-	-	Conn. State Health Department	55
Md.	X	-	-	-	137
Mass.	X	X	X	CDC	82
Mich.	X	X	X	Institute for Clin- ical Science, USPHS	433 (n)
Minn.	X	X	-	-	175
Miss.	-	X	X	-	135 (o)
Mo.	X (p)	X	X	-	47
Mont.	X	X	-	Check-sample program of the American Society of Clinical Pathologists.	57 (q)
Nebr.	-	X	-	-	104
Nev.	X (r)	X (r)	-	-	* (r)
N.H.	-	X	-	-	2
N.J.	X	X	X	-	304
N.M.	X	X	-	-	97
N.Y.	X	-	-	-	144
N.C.	-	X	-	-	* (s)
N.D.	-	X	X	-	16
Ohio	X	X	X	-	361
Okla.	-	X	X	-	* (t)
Ore.	X	X	X	CDC	177
Pa.	X	-	-	-	401
R.I.	X	X	-	-	40
S.C.	X	X	-	Sundermann	8
S.D.	X	X	-	-	*
Tenn.	X	X	-	-	206
Tex.	X	X	X	-	55
Utah	X	X	-	-	42
Vt.	-	X	-	-	*
Va.	-	X	X	-	5
Wash.	X	X	-	-	12 (u)
W.Va.	X	-	-	-	130 (v)
Wisc.	X	-	-	-	66
Wyo.	X (w)	-	-	-	38 (w)
Guam	-	-	-	-	2
P.R.	X	-	-	-	212
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.	7	Laboratory closed (1); laboratories withdrew from the program voluntarily (3); laboratories were denied recertification (3).
Ark.	-	-
Cal.	*	*
Colo.	*	*
Conn.	1	Revocation of registration.
Del.	1	Lack of meeting licensure requirements and Medicare quality control program.
D.C.	-	-
Fla.	4	Voluntary withdrawal (1); non-compliance with requirements for qualified personnel (3).
Ga.	-	-
Hawaii	-	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	-	-
Ky.	-	-
La.	- (b)	-
Me.	-	-
Md.	1	Voluntary withdrawal.
Mass.	9	Voluntary (8); denied (1).
Mich.	5	Closed (1); no qualified supervisor or director (4).
Minn.	-	-
Miss.	-	-
Mo.	-	-
Mont.	2	Freeway went thru laboratory and what was left moved into hospital (1); in process (1).
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	-	-
N.M.	-	-
N.Y.	37	Closed - inadequate supervision (7); denied - inadequate quality control (25); withdrawal and some closed (5).
N.C.	-	-
N.D.	-	-
Ohio	7	Out of business or quit (6); lack of proper supervision (1).
Okla.	3	Closed.
Ore.	-	(One under consideration - personnel qualifications).
Pa.	4	Voluntary.
R.I.	-	-
S.C.	1	Inadequate supervision by Director.
S.D.	*	*
Tenn.	-	-
Tex.	-	(Some persuaded to voluntarily discontinue some activities).
Utah	-	-
Vt.	-	-
Va.	1	Withdrawal.
Wash.	3	Sold (1); voluntary withdrawal (2).
W.Va.	-	-
Wisc.	-	-
Wyo.	-	-
Guam	-	-
P.R.	2	Voluntary.
V.I.	-	-

TABLES 5-5 - 5-8. FOOTNOTES

- (a) Estimated population as of July 1, 1970. Taken from Statistical Abstract of the United States: 1971. U. S. Bureau of the Census. (92nd Edition) Washington, D.C., 1971, pages 14 and 784.
- (b) Handled by Louisiana State Department of Hospitals.
- (c) Not covered by law.
- (d) Approval program in syphilis serology is operated for laboratories exempt from laboratory licensure law (physician office laboratories) but must participate in evaluation program if they wish to perform premarital blood tests. There are 21 such laboratories.
- (e) Except Syphilis Serology for premarital and prenatal which is obligatory.
- (f) Premarital approval program (syphilis serology).
- (g) Syphilis serology only.
- (h) Approval in Syphilis Serology Program. Iowa Laboratory Evaluation and Improvement Program is purely voluntary, as is educational rather than enforcing.
- (i) Registered laboratories, including research and teaching and Federal.
- (j) Syphilis Serology Program effective October 1, 1971.
- (k) VD Serology only.
- (l) All the Medicare approved laboratories are doctorate directed and are not required to participate in proficiency testing. Most participate in the CAP program and some participate in the limited State-operated program. Information on CAP participants is compiled from the list of those laboratories sending copies to State Laboratory.
- (m) Represents Medicare laboratories with State Syphilis Serology Program, including 3 with CAP in addition.
- (n) Some laboratories participate in more than one program.
- (o) This includes 130 laboratories in Syphilis Serology Proficiency Testing and 7 laboratories in other programs. No further information on proficiency testing programs is available at this time.
- (p) Syphilis Serology and PKU.
- (q) Represents Syphilis Serology Program. 52 in Microbiology and 45 in CAP Program.
- (r) Situation in fluid state. No statistics available at present.
- (s) Information not available as the laboratory deals only with independent Medicare laboratories.
- (t) All independent laboratories (45) and majority of hospital laboratories on a voluntary basis (number not known). Includes CAP Program and Medical Arts Group Program.
- (u) Twelve laboratories must participate. No accurate record kept on the rest.
- (v) For Syphilis Serology. 41 Independent Medicare Laboratories and non-JCAH Hospitals.
- (w) There are only three independent clinical laboratories in the State, all of which are directed by pathologists. The State program is for Syphilis Serology only.

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

Directors		Technologists
<u>Clinical Chemistry (a)</u>		
R.I.	22	-
Tenn.	25	-
<u>Hematology</u>		
R.I.	23	-
Tenn.	15	-
<u>Immunohematology</u>		
R.I.	17	-
Tenn.	20	-
<u>Syphilis Serology</u>		
Ala.	39	31
Conn.	-	212
D.C.	29	-
Hawaii	36	89
R.I.	18	-
<u>Bacteriology</u>		
D.C.	21	-
R.I.	16	-
Tenn.	18	-
<u>Mycology</u>		
R.I.	16	-
<u>Parasitology</u>		
R.I.	16	-
Tenn.	18	-
<u>Serology (non VD)</u>		
R.I.	15	-
<u>Water</u>		
Md.	16 (Certified)	56 (Certified)
R.I.	4	-
<u>Milk</u>		
Md.	26 (Certified)	70 (Certified)
N.M.	2	4
R.I.	2	-
<u>Urinalysis</u>		
R.I.	22	-
<u>Exfoliative Cytology</u>		
R.I.	3	-
<u>Shellfish</u>		
Md.	6 (Certified)	25 (Certified)

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.	Constituents tested	Levels of each Constituent	
Ala.	*	*	*	Ma.	13 constituents	2
Alaska	3	4	*	N.Y.	15 constituents	2
Ariz.	87	*	*	Ohio	Glucose (twice a year)	2
Ark.	106	12	3-4		Uric Acid (once a year)	2
Cal.	*	*	*		Urea Nitrogen (once a year)	2
Colo.	*	*	*		Total Protein (once a year)	2
Conn.	86	4	1		Total Cholesterol (twice a year)	2
Del.	6	8	(b)		Sodium (once a year)	2
D.C.	-	-	-		Potassium (once a year)	2
Fla.	481	*	*		Calcium (once a year)	2
					Bilirubin (once a year)	2
Ga.	20	*	*		Creatinine (once a year)	2
Hawaii	11	*	*		Enzymes (once a year)	
Ida.	31	*	*		a. LDH 1 high - 1 low or normal	
Ill.	*	*	*		b. SGOT 1 high - 1 low or normal	
Ind.	11	*	*	Pa.	11 constituents	
Ia.	73	3	3-5	Wis.	Glucose, Cholesterol,	
Kann.	198	4	2		Uric Acid, Urea Nitrogen	4
Ky.	*	*	*		Calcium, Sodium, Potassium,	
La.	-	-	-		Phosphorus, Total Protein	2
Me.	35	2	2			
Md.	137	3	2			
Mass.	20	4	4			
Mich.	364	4	4			
Minn.	*	*	*			
Miss.	-	-	-			
Mo.	-	-	-			
Mont.	46	*	*			
Nebr.	*	*	*			
Nev.	-	-	-			
N.H.	2	*	*			
N.J.	254	4	3-5			
N.M.	4	2	2			
N.Y.	426	3-4	30 (c)			
N.C.	-	-	-			
N.D.	-	-	-			
Ohio	277	2	2			
Okla.	*	*	*			
Ore.	171	4	2			
Pa.	147	4	3			
R.I.	22	4	2			
S.C.	-	-	-			
S.D.	*	*	*			
Tenn.	195	4	*			
Tex.	-	-	-			
Utah	29	-	-			
Vt.	*	*	*			
Va.	5	4	*			
Wash.	12	* (d)	* (d)			
W.Va.	39	4	2-4			
Wisc.	254	8	20			
Wyo.	-	-	-			
Guan	-	-	-			
P.R.	194	10	6			
V.I.	-	-	-			

TABLE 5-11. PARTICIPATION IN INTRASTATE EVALUATION OF LABORATORIES AND PROFICIENCY TESTING PROGRAMS: HEMATOLOGY AND IMMUNOHEMATOLOGY

	Hematology			Immunohematology		
	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	3	4	*	-	-	-
Ariz.	40 (e)	*	*	3	*	*
Ark.	99	6	3-4	99	3	2-3
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	87	4	1	87	2	1
Del.	7	8	(b)	7	8	(b)
D.C.	-	-	-	-	-	-
Fla.	481	*	*	481	*	*
Ga.	22	*	*	13	12	10
Hawaii	11	*	*	12	*	*
Ida.	-	-	-	-	-	-
Ill.	*	*	*	525	2	3-6
Ind.	11	*	*	9	*	*
Ia.	-	-	-	-	-	-
Kans.	198	4	2	159	4	2
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	23	2	6
Md.	135	-	-	105	-	-
Mass.	18	4	4	235	1-3	10
Mich.	375	2	7	256	1	4
Minn.	*	*	*	*	*	*
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	-	-	-	-	-	-
N.H.	2	*	*	2	*	*
N.J.	273	4	4-5	174	4	2
N.M.	*	*	*	6	2	4
N.Y.	449	4	13 (c)	378	1-3	4-5
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	290	2	5	264	2	5
Okla.	*	*	*	*	*	*
Ore.	169	4	5	151	4	3
Pa.	153	5	4	104	1	2
R.I.	23	4	2	17	4	1
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	195	4	*	206	4	*
Tex.	-	-	-	-	-	-
Utah	29	-	-	16	6	2
Vt.	*	*	*	*	*	*
Va.	5	4	*	5	4	*
Wash.	12	* (d)	* (d)	-	-	-
W.Va.	41	4	2-4	-	-	-
Wisc.	208	4	7	170	4	4
Wyo.	-	-	-	-	-	-
Guam	1	24	6	-	-	-
P.R.	212	6	4-6	170	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.	70	6	20	*	*	*
Alaska	3	2	10	-	-	-
Ariz.	129	6	10	16	*	*
Ark.	135	12	10	59	5	2-3
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	92	2	10	94	10	1
Del.	11	10	10	3	8	(b)
D.C.	29	9	11	21	2	2
Fla.	370	4	10	481 (f)	*	*
Ga.	159	10	15	48	3	4
Hawaii	36	1	10	7	*	*
Ida.	58	2	20	45 (g)	1	*
Ill.	510	2-4	5-10	400 (h)	2	5-10
Ind.	156	12	8	4	*	*
Ia.	83	5	20	41	3	3-5
Kans.	139	6	10	73	4	1
Ky.	212	4	15	*	*	*
La.	7	10	20	-	-	-
Me.	-	-	-	27	1	5
Md.	122	2	10	87	3	10, 6, 4
Mass.	226	6	10	206	10	5
Mich.	342	6	10	325	4	11
Minn.	*	*	*	*	*	*
Miss.	-	-	-	-	-	-
Mo.	231	10	10	-	-	-
Mont.	57	4	10	52	2	5
Nebr.	*	*	*	*	*	*
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	260	*	*	238	4	5
N.M.	99	2	10	12	2	3
N.Y.	278	1	10	360	2-3	3-4 (c)
N.C.	210	10	10	-	-	-
N.D.	10 (i)	3	20	-	-	-
Ohio	319	5 (j)	10	217	2	5
Okla.	*	*	*	*	*	*
Ore.	140	3	10	156	4	1
Pa.	352	6	10	87	3	6
R.I.	38	3	20	16	4	1
S.C.	63	5	20	49	3	4-5
S.D.	40	*	*	*	*	*
Tenn.	160	10	10	195	4	*
Tex.	1,404	4	5	90 (k)	6	2
Utah	36	6	10	10	5	4
Vt.	8	10	10	*	*	*
Va.	150	4	15	5	4	*
Wash.	121	6	10	12	* (d)	* (d)
W. Va.	130	5	20	25	1	2
Wisc.	150	10	10	136 (l)	6	1
Wyo.	38	6	10	-	-	-
Guam	1	10	10	-	-	-
P.R.	154	4 (m)	10	88	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.	42	3	1	1	*	*
Ark.	35	2	2	70	3	3-4
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	-	48	2	2
Del.	1	8	(b)	4	8	(b)
D.C.	-	-	-	-	-	-
Fla.	(f)	*	*	(f)	*	*
Ga.	27	1	4	47	2	5
Hawaii	-	-	-	7	*	*
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	43	2	4-6
Kans.	4	4	4	80	4	1
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	45	-	-	67	1	5
Mass.	-	-	-	-	-	-
Mich.	164	1	6	288	1	5
Minn.	*	*	*	*	*	*
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	1	2	3	-	-	-
N.M.	-	-	-	-	-	-
N.Y.	123	2	10	260	2	4 (c)
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	145	1	5	201	1	5
Okla.	*	*	*	*	*	*
Ore.	17	4	2	146	4	1
Pa.	30	1	6	53	1	6
R.I.	16	-	-	16	4	1
S.C.	23	4	3-4	51	4	4-5
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	195	4	*
Tex.	40	4	5	130 (k)	5	5
Utah	(n)	-	-	10	5	4
Vt.	*	*	*	*	*	*
Va.	-	-	-	5	4	*
Wash.	-	-	-	12	*	(d)
W. Va.	-	-	-	31	1	2
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	193	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.	15 (o)	*	*	-	-	-	-
Ark.	47	1	2	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	103	2	2	-	-	-	-
Del.	4	8	(b)	-	-	-	-
D.C.	-	-	-	-	-	-	-
Fla.	481	*	*	23 (r)	4	5	23 (q)
Ga.	1	*	*	14	4	5	14
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	-	-	-	60	*	5-10	60
Ind.	11	*	*	-	-	-	-
Ia.	20	2	3	-	-	-	-
Kans.	109	4	1	-	-	-	-
Ky.	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-
Mass.	208	4	5	26	2	5	26
Mich.	238	1	20	37	1	8	37
Minn.	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Neb.	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	6	2	20	-	-	-	-
N.M.	10	2	5	-	-	-	-
N.Y.	383	1	12	-	-	-	-
N.C.	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	221	1	5	-	-	-	-
Okla.	*	*	*	*	*	*	*
Ore.	161	4	1	-	2	4	-
Pa.	-	-	-	62	1	5	62
R.I.	15	4	1	-	-	-	-
S.C.	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-
Tex.	40	3	4	-	-	-	-
Utah	10	5	4	3	5	4	3
Vt.	*	*	*	*	*	*	*
Va.	5	4	*	-	-	-	-
Wash.	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-
Wisc.	146	5	3	29	4	5	29
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
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.	*	*	*	*	*	*
Conn.	-	-	-	52	1	10
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	58 (u)	-	-
Ga.	10 (v)	4	10	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	3	1	7	5	-	-
Ill.	120 (v)	2-4	4	-	-	-
Ind.	-	-	-	47	-	-
Ia.	30	-	-	20	1	4
Kans.	-	-	-	-	-	-
Ky.	*	*	*	*	*	*
La.	-	-	-	-	-	-
Ma.	-	-	-	-	-	-
Md.	-	-	-	21	2	10
Mass.	-	-	-	(w)	-	-
Mich.	28	3	10	-	-	-
Minn.	*	*	*	*	*	*
Miss.	-	-	-	-	-	-
Mo.	13	10	10	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	5	2	23	-	-	-
N.M.	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	15 (x)	-	-
N.D.	-	-	-	-	-	-
Ohio	5	1	3	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	11	1	10
Pa.	52	2	6	-	-	-
R.I.	-	-	-	4	1	4
S.C.	-	-	-	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	11	2	6	-	-	-
Vt.	*	*	*	3	5	3
Va.	-	-	-	-	-	-
Wash.	-	-	-	22	-	-
W.Va.	-	-	-	-	-	-
Wisc.	89	6	6	110 (y)	4	17
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
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.	6	*	*	-	-	-
Ark.	5	2	30	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	10	2	12	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	36	2	10	-	-	-
Ga.	8	2	12	36	*	*
Hawaii	-	-	-	8	*	*
Ida.	8	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	18	2	17	-	-	-
Ia.	-	-	-	-	-	-
Kans.	13	2	12	191	4	1
Ky.	*	*	*	*	*	*
La.	8	2	10	-	-	-
Me.	-	-	-	-	-	-
Md.	27	2	18	-	-	-
Mass.	- (z)	-	-	-	-	-
Mich.	-	-	-	- (aa)	-	-
Minn.	*	*	*	*	*	*
Miss.	-	-	-	-	-	-
Mo.	16	2	23	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*
Nev.	-	-	-	-	-	-
N.H.	-	-	-	2	*	*
N.J.	16	4	16	-	-	-
N.M.	2	2	16	-	-	-
N.Y.	-	-	-	-	-	-
N.C.	38 (x)	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	34	2	23	-	-	-
Okla.	*	*	*	*	*	*
Ore.	-	-	-	171	4	*
Pa.	-	-	-	140	1	2
R.I.	2	2	20	22	4	1
S.C.	9	2	20	-	-	-
S.D.	*	*	*	*	*	*
Tenn.	21	2	10	-	-	-
Tex.	24	2	9	-	-	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	*	*	*
Va.	-	-	-	-	-	-
Wash.	13	4	6	-	-	-
W.Va.	8	2	16	-	-	-
Wisc.	(y)	(y)	(y)	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	200	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.	Special Enzymology	5	*	*
	Special Instrumentation	4	*	*
Fla.	Blood Alcohol	45 (bb)	4	2
	Rabies	5	4	5
Ga.	PKU Quantitative	7	4	8
Ill.	Tuberculosis Cultures	180	2-3	3-9
	PKU Quantitative	40	2-4	4
Md.	Shellfish	6	1	6
N.Y.	Exfoliative Cytology	215	-	- (c)
	Mycobacteriology	121	1	4
R.I.	Exfoliative Cytology	3	1	12
Utah	Blood Alcohol	7	2	3
Wisc.	General Bacteriology	170	6	3
	Alcohol	21	12	2

TABLES 5-9 - 5-17. FOOTNOTES

- (a) Maryland does not license laboratory directors. Each director is issued a "permit to operate" a laboratory which meets the standards and qualifications established by State and Federal regulations. (Some directors operate more than one laboratory). Supervisory Technologists are approved.
- In New York, all directors of laboratories holding permits must have certificate of qualification.
- (b) Delaware reported numbers of tests as follows: Clinical Chemistry, 144; Hematology, 84; Immunohematology, 84; Bacteriology, 40; Mycology, 40; Parasitology, 40; Serology (non VD), 40.
- (c) In addition, the following numbers of specimens are hand-carried by investigator: Clinical Chemistry, 6 or more; Hematology, 4-8; Bacteriology, 4; Parasitology, 2-4; Exfoliative Cytology, 5.
- (d) CAP Basic Survey Program.
- (e) Includes 18 in Blood Bank program.
- (f) Bacteriology, Mycology, and Parasitology included together.
- (g) Bacterial sensitivity.
- (h) Represents TB Smears. TB Cultures shown under "Other Disciplines," Table 5-17.
- (i) These figures represent number anticipated when program begins.
- (j) Ten intrastate laboratories receive 6 shipments of 10 each year.
- (k) Also 40 laboratories are in Medicare evaluation, receiving 3 shipments of 4 specimens each year.
- (l) Represents Enteric Bacteriology. General Bacteriology shown under "Other Disciplines," Table 5-17.
- (m) Government laboratories receive 10 shipments yearly.
- (n) Not operational yet.
- (o) This represents C. immitis serology.
- (p) Participated in the distribution of hepatitis reagent.
- (q) Workshop in Serodiagnosis of Rubella using the HAI microtiter technique under Virology supervision. 14 participated.
- (r) Figures represent Rubella. Rabies shown under "Other Disciplines," Table 5-17.
- (s) Laboratory offers training and consultation for Australia Antigen and Rubella, but no proficiency testing established for these.
- (t) Australia Antigen by Immunoelectrophoresis.
- (u) Program consists of on-site inspection and demonstration, and confirmation of membrane filter results.
- (v) Represents Guthrie. Quantitative shown under "Other Disciplines," Table 5-17.
- (w) Laboratories evaluated by Division of Environmental Health.
- (x) Agent - USPHS.
- (y) Figures for Water and Milk included together.
- (z) Laboratories evaluated by Division of Food and Drugs.
- (aa) Licensed under Hematology or Chemistry.
- (bb) 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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	2	1	-	-	-
Ariz.	32	52	-	3	-
Ark.	11	79	-	16	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	58	28	-	-	-
Del.	6	-	-	-	-
D.C.	-	-	-	-	-
Fla.	*	*	*	*	*
Ga.	*	*	*	*	*
Hawaii	*	*	*	*	*
Ida.	*	*	*	*	*
Ill.	*	*	*	*	*
Ind.	11	-	-	-	-
Ia.	6	61	-	6	-
Kans.	28	165	1	4	-
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	1	30	-	4	-
Md.	76	61	-	-	-
Mass.	2	9	9	-	-
Mich.	67	79	7	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	*	*	*	*	*
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	2	-	-	-	-
N.J.	138	106	3	3	7
N.M.	4	-	-	-	-
N.Y.	159	194	69 (a)	-	4
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	97	165	12	3	-
Okla.	*	*	*	*	*
Ore.	32	86	2	4	47
Pa.	137	10	-	-	-
R.I.	22	-	-	-	-
S.C.	-	-	-	-	-
S.D.	*	*	*	*	*
Tenn.	27	168	-	-	-
Tex.	-	-	-	-	-
Utah	7	22	-	-	-
Vt.	*	*	*	*	*
Va.	*	*	*	*	*
Wash.	12	-	-	-	-
W.Va.	10	29	-	-	-
Wisc.	13	156	5	79	1
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	141	31	8	14	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	2	1	-	-	-
Ariz.	9	30	-	1	-
Ark.	11	74	-	14	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	58	28	-	-	-
Del.	7	-	-	-	-
D.C.	-	-	-	-	-
Fla.	*	*	*	*	*
Ga.	*	*	*	*	*
Hawaii	*	*	*	*	*
Ida.	-	-	-	-	-
Ill.	*	*	*	*	*
Ind.	11	-	-	-	-
Ia.	-	-	-	-	-
Kans.	28	165	1	4	-
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	-	-	-	-	-
Md.	74	61	-	-	-
Mass.	2	8	8	-	-
Mich.	64	81	8	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	2	-	-	-	-
N.J.	166	109	1	5	7
N.M.	*	*	*	*	*
N.Y.	181	198	64 (a)	-	6
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	96	182	9	3	-
Okla.	*	*	*	*	*
Ore.	31	86	1	4	47
Pa.	143	10	-	-	-
R.I.	23	-	-	-	-
S.C.	-	-	-	-	-
S.D.	*	*	*	*	*
Tenn.	27	168	-	-	-
Tex.	-	-	-	-	-
Utah	7	22	-	-	-
Vt.	*	*	*	*	*
Va.	*	*	*	*	*
Wash.	12	-	-	-	-
W.Va.	10	29	2	-	-
Wisc.	12	156	-	39	1
Wyo.	-	-	-	-	-
Guam	-	-	1	-	-
P.R.	141	49	8	14	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	2	1	-	-	-
Ark.	11	74	-	14	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	59	28	-	-	-
Del.	7	-	-	-	-
D.C.	-	-	-	-	-
Fla.	*	*	*	*	*
Ga.	*	2	4	*	*
Hawaii	*	*	*	*	*
Ida.	-	-	-	-	-
Ill.	16	237	7	12	253
Ind.	9	-	-	-	-
Ia.	-	-	-	-	-
Kans.	12	*	*	*	*
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	-	23	-	-	-
Md.	57	48	-	-	-
Mass.	65	146	(b)	-	-
Mich.	11	8	3	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	2	-	-	-	-
N.J.	74	91	1	1	7
N.M.	4	-	2	-	-
N.Y.	124	226	25 (a)	-	3
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	76	174	11	3	-
Okla.	*	*	*	*	*
Ore.	23	86	-	5	37
Pa.	104	-	-	-	-
R.I.	17	-	-	-	-
S.C.	-	-	-	-	-
S.D.	*	*	*	*	*
Tenn.	38	168	-	-	-
Tex.	-	-	-	-	-
Utah	2	14	-	-	-
Vt.	*	*	*	*	*
Va.	*	*	*	*	*
Wash.	-	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	10	156	-	3	1
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	129	25	6	10	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	20	40	9	-	1
Alaska	1	2	-	-	-
Ariz.	43	55	4	27	-
Ark.	11	85	1	38	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	(c)	(c)	(c)	(c)	(c)
Del.	7	4	-	-	-
D.C.	8	14	1	6	-
Fla.	*	*	*	*	*
Ga.	44	98	7	6	4
Hawaii	18	12 (d)	6	-	-
Ida.	12	36	8	1	1
Ill.	23	207	15	7	258
Ind.	36	105	2	9	4
Ia.	7	74	-	2	-
Kans.	30	97	1	11	-
Ky.	*	*	*	*	*
La.	*	*	*	*	*
Me.	-	-	-	-	-
Md.	71	51	-	-	-
Mass.	64	164	(b)	-	-
Mich.	108	205	12	15	2
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	64	137	7	19	4
Mont.	7	44	2	3	1
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	-	-	-	-
N.M.	9	44	2	44	-
N.Y.	104	140	32 (a)	-	2
N.C.	70	125	15	-	-
N.D.	*	*	*	*	*
Ohio	118	185	13	3	-
Okla.	*	*	*	*	*
Ore.	26	84	2	6	28
Pa.	100	251	1	-	-
R.I.	18	20	-	-	-
S.C.	6	55	-	-	2
S.D.	*	*	*	*	*
Tenn.	17	104	5	34	-
Tex.	*	*	24	*	*
Utah	9	27	-	-	-
Vt.	*	8	*	*	*
Va.	*	*	*	*	*
Wash.	31	70	9	-	11
W.Va.	-	75	3	-	52
Wisc.	12	130	2	15	1
Wyo.	3 (e)	26 (e)	-	10	-
Guam	-	-	1	-	-
P.R.	108	25	8	14	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	6	10	-	-	-
Ark.	11	41	-	7	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	38	50	6	-	-
Del.	3	-	-	-	-
D.C.	5	14	1	1	-
Fla.	*	*	*	*	*
Ga.	11	29	7	1	-
Hawaii	*	*	*	*	*
Ida.	5	32	8	-	-
Ill.	14 (f)	228	11	4	143
Ind.	4	-	-	-	-
Ia.	2	36	-	3	-
Kans.	*	*	1	*	*
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	1	26	-	-	-
Md.	44	43	-	-	-
Mass.	57	149	(b)	-	-
Mich.	62	68	10	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	*	*	*	*	*
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	110	115	-	-	7
N.M.	8	-	2	2	-
N.Y.	126	177	55 (a)	-	2
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	51	156	10	-	-
Okla.	*	*	*	*	*
Ore.	25	84	2	4	41
Pa.	62	24	1	-	-
R.I.	16	-	-	-	-
S.C.	5	44	-	-	-
S.D.	*	*	*	*	*
Tenn.	27	168	-	-	-
Tex.	*	*	*	*	*
Utah	2	8	-	-	-
Vt.	*	*	*	*	*
Va.	*	*	*	*	*
Wash.	12	-	-	-	-
W.Va.	3	20	2	-	-
Wisc.	8 (g)	123	6	3	2
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	60	18	6	4	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	15	20	3	4	-
Ark.	6	27	-	2	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	-	-	-	-	-
Del.	1	-	-	-	-
D.C.	-	-	-	-	-
Fla.	*	*	*	*	*
Ga.	5	16	6	-	-
Hawaii	-	-	-	-	-
Ida.	-	-	-	-	-
Ill.	-	-	-	-	-
Ind.	-	-	-	-	-
Ia.	-	-	-	-	-
Kans.	1	3	-	-	-
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Ma.	-	-	-	-	-
Md.	19	26	-	-	-
Mass.	-	-	-	-	-
Mich.	38	63	8	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.E.	-	-	-	-	-
N.J.	-	-	-	1	-
N.M.	-	-	-	-	-
N.Y.	20	80	23 (a)	-	-
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	42	96	6	1	-
Okla.	*	*	*	*	*
Ore.	4	12	1	-	-
Pa.	20	10	-	-	-
R.I.	16	-	-	-	-
S.C.	2	21	-	-	-
S.D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	*	*	*	*	*
Utah	-	-	-	-	-
Vt.	*	*	*	*	*
Va.	-	-	-	-	-
Wash.	-	-	-	-	-
W.Va.	-	-	-	-	-
Wis.	-	-	-	-	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	1	-	-	-	-
Ark.	8	52	-	10	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	30	15	3	-	-
Del.	4	-	-	-	-
D.C.	-	-	-	-	-
Fla.	*	*	*	*	*
Ga.	11	28	8	-	-
Hawaii	*	*	*	*	*
Ida.	-	-	-	-	-
Ill.	-	-	-	-	-
Ind.	-	-	-	-	-
Ia.	2	37	-	4	-
Kans.	*	*	*	*	*
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	-	-	-	-	-
Md.	27	40	-	-	-
Mass.	-	-	-	-	-
Mich.	40	47	9	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	-	-	-	-
N.M.	-	-	-	-	-
N.Y.	72	142	45 (a)	-	1
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	43	148	10	1	-
Okla.	*	*	*	*	*
Ore.	23	80	2	5	36
Pa.	40	13	-	-	-
R.I.	16	-	-	-	-
S.C.	4	47	-	-	-
S.D.	*	*	*	*	*
Tenn.	27	168	-	-	-
Tex.	*	*	*	*	*
Utah	2	8	-	-	-
Vt.	*	*	*	*	*
Va.	*	*	*	*	*
Wash.	12	-	-	-	-
W.Va.	5	24	2	-	-
Wisc.	-	-	-	-	-
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	122	49	8	14	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	8	5	1	1	-
Arkt.	11	30	-	6	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	50	50	3	-	-
Del.	4	-	-	-	-
D.C.	-	-	-	-	-
Fla.	*	*	*	*	*
Ga.	*	*	*	*	*
Hawaii	-	-	-	-	-
Ide.	-	-	-	-	-
Ill.	-	-	-	-	-
Ind.	11	-	-	-	-
Ia.	1	17	-	2	-
Kans.	*	*	*	*	*
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	-	-	-	-	-
Md.	-	-	-	-	-
Mass.	72	136	(b)	-	-
Mich.	*	10	-	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	6	-	-	-
N.M.	8	-	2	-	-
N.Y.	157	198	26 (a)	-	2
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	89	125	5	2	-
Okla.	*	*	*	*	*
Ore.	27	84	1	5	44
Pa.	-	-	-	-	-
R.I.	15	-	-	-	-
S.C.	-	-	-	-	-
S.D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	*	*	*	*	*
Utah	2	8	-	-	-
Vt.	*	*	*	*	*
Va.	*	*	*	*	*
Wash.	-	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	9	123	-	3	1
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	-	-	-	-	-
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	18 (h)	5	-	-	-
Ga.	5	6	3	-	-
Hawaii	-	-	-	-	-
Ida.	-	-	-	-	-
Ill.	1	33	4	-	22
Ind.	-	-	-	-	-
Ia.	-	-	-	-	-
Kans.	-	-	-	-	-
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	-	-	-	-	-
Md.	-	-	-	-	-
Mass.	11	15	(b)	-	-
Mich.	18	19	-	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	-	-	-	-
N.M.	-	-	-	-	-
N.Y.	-	-	-	-	-
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	-	-	-	-	-
Okla.	*	*	*	*	*
Ore.	-	-	1	-	-
Pa.	9	53	-	-	-
R.I.	-	-	-	-	-
S.C.	-	-	-	-	-
S.D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	1	2	-	-	-
Vt.	*	*	*	*	*
Va.	-	-	-	-	-
Wash.	-	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	5	22	1	1	-
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	-	-	-	-	-
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	-	-	-	-	-
Ga.	- (i)	7	3	-	-
Hawaii	-	-	-	-	-
Ide.	-	3	-	-	-
Ill.	1 (i)	106	1	-	12
Ind.	-	-	-	-	-
Ia.	5	25	-	-	-
Kans.	-	-	-	-	-
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	-	-	-	-	-
Md.	-	-	-	-	-
Mass.	-	-	-	-	-
Mich.	-	28	-	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	2	9	1	-	1
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.E.	-	-	-	-	-
N.J.	1	4	-	-	-
N.M.	-	-	-	-	-
N.Y.	-	-	-	-	-
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	-	5	-	-	-
Okla.	*	*	*	*	*
Ore.	-	-	-	-	-
Pa.	-	52	-	-	-
R.I.	-	-	-	-	-
S.C.	-	-	-	-	-
S.D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	1	10	-	-	-
Vt.	*	*	*	*	*
Va.	-	-	-	-	-
Wash.	-	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	3	82	2	-	2
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	-	-	52	-	-
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	*	*	*	*	*
Ga.	-	-	-	-	-
Hawaii	-	-	-	-	-
Ida.	-	-	5	-	-
Ill.	-	-	-	-	-
Ind.	-	1	6	-	40
Ia.	-	-	18 (j)	-	2
Kans.	-	-	-	-	-
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Me.	-	-	-	-	-
Md.	-	-	10	-	11
Mass.	-	-	-	-	-
Mich.	-	-	-	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	-	-	-	-
N.M.	-	-	-	-	-
N.Y.	-	-	-	-	-
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	-	-	-	-	-
Okla.	*	*	*	*	*
Ore.	-	-	1	-	-
Pa.	-	-	-	-	-
R.I.	4	-	-	-	-
S.C.	-	-	-	-	-
S.D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	-	-	-	-	-
Vt.	3	-	-	-	-
Va.	-	-	-	-	-
Wash.	1	-	15	-	6
W.Va.	-	-	-	-	-
Wisc.	*	*	*	*	*
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	1	-	3	-	2
Ark.	-	-	3	-	2
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	-	-	10	-	-
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	*	*	*	*	*
Ga.	-	-	8	-	-
Hawaii	-	-	-	-	-
Ida.	-	-	5	-	3
Ill.	-	-	-	-	-
Ind.	-	-	2	-	16
Ia.	-	-	-	-	-
Kans.	-	-	4	-	9
Ky.	*	*	*	*	*
La.	*	*	*	*	*
Me.	-	-	-	-	-
Md.	-	-	10	-	17
Mass.	-	-	-	-	-
Mich.	-	-	-	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	13	-	3
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	-	4	-	12
N.M.	-	-	2	-	-
N.Y.	7	87	27 (a)	-	-
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	2	1	18	-	13
Okla.	*	*	*	*	*
Ore.	-	-	-	-	-
Pa.	-	-	-	-	-
R.I.	2	-	-	-	-
S.C.	-	-	-	-	9
S.D.	*	*	*	*	*
Tenn.	-	-	6	-	15
Tex.	-	-	24	-	-
Utah	-	-	-	-	-
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	-	-	13 (k)	-	-
W.Va.	-	-	7	-	1
Wisc.	*	*	*	*	*
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	M.D. Office Labs	Commercial, Group Practice, Other
Ala.	*	*	*	*	*
Alaska	-	-	-	-	-
Ariz.	-	-	-	-	-
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	-	-	-	-	-
Del.	-	-	-	-	-
D.C.	-	-	-	-	-
Fla.	-	-	-	-	-
Ga.	*	*	*	*	*
Hawaii	*	*	*	*	*
Ida.	-	-	-	-	-
Ill.	-	-	-	-	-
Ind.	-	-	-	-	-
Ia.	-	-	-	-	-
Kans.	28	158	1	4	-
Ky.	*	*	*	*	*
La.	-	-	-	-	-
Ma.	-	-	-	-	-
Md.	-	-	-	-	-
Mass.	-	-	-	-	-
Mich.	-	-	-	-	-
Minn.	*	*	*	*	*
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	-	-	-	-	-
Nebr.	*	*	*	*	*
Nev.	-	-	-	-	-
N.H.	2	-	-	-	-
N.J.	-	-	-	-	-
N.M.	-	-	-	-	-
N.Y.	-	-	-	-	-
N.C.	-	-	-	-	-
N.D.	-	-	-	-	-
Ohio	-	-	-	-	-
Okla.	*	*	*	*	*
Ore.	-	-	-	-	-
Pa.	133	7	-	-	-
R.I.	22	-	-	-	-
S.C.	-	-	-	-	-
S.D.	*	*	*	*	*
Tenn.	-	-	-	-	-
Tex.	-	-	-	-	-
Utah	-	-	-	-	-
Vt.	*	*	*	*	*
Va.	-	-	-	-	-
Wash.	-	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	-	-	-	-	-
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	129	129	8	14	-
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	M.D. Office Labs	Commercial, Group Practice, Other
Ariz.	Special Enzymology	2	3	-	-	-
	Special Instrumentation	2	2	-	-	-
Fla.	Blood Alcohol	*	*	*	*	*
	Rabies	-	-	5	-	-
Ga.	PKU Quantitative	1	2	4	-	-
Ill.	Tuberculosis Cultures	9	142	5	-	24
	PKU Quantitative	-	31	1	-	8
Md.	Shellfish	-	-	5	-	1
N.Y.	Mycobacteriology	7	87	27 (a)	-	-
	Exfoliative Cytology	40	141	34 (a)	-	-
R.I.	Exfoliative Cytology	3	-	-	-	-
Utah	Blood Alcohol	2	4	-	-	-
Wisc.	General Bacteriology	10	150	3	7	2
	Alcohol	1	14	6	-	-

TABLES 5-18 - 5-31. FOOTNOTES

- (a) Program includes participation by State institutions as follows: Clinical Chemistry, 33; Hematology, 34; Immunohematology, 19; Syphilis Serology, 10; Bacteriology, 22; Mycology, 3; Parasitology, 17; Serology (non VD), 7; Milk, 6; Mycobacteriology, 6; Exfoliative Cytology, 18.
- (b) Included with Hospitals.
- (c) Tested by individual.
- (d) Includes 1 blood bank with 3 participating technologists.
- (e) One laboratory is both an independent laboratory and a hospital laboratory.
- (f) Represents TB Smears. TB Cultures shown under "Other Disciplines," Table 5-31.
- (g) Represents Enteric Bacteriology figures. General Bacteriology is shown under "Other Disciplines," Table 5-31.
- (h) These figures represent Rubella. Rabies shown under "Other Disciplines," Table 5-31.
- (i) Represents Guthrie. Quantitative shown under "Other Disciplines," Table 5-31.
- (j) Public Health and Municipal Laboratories.
- (k) Plus three reference laboratories.

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	-	3	-	-	-	-	-	X	-
Ariz.	-	64	23	-	X (a)	-	-	-	X
Ark.	106	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	86	14	-	-	X	-	-	-	-
Del.	-	(b)	(b)	-	-	-	-	-	X
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	377	104	-	-	-	X	-	-
Ga.	-	20	-	-	-	-	-	-	X
Hawaii	-	10	1	-	-	-	-	-	X
Ida.	-	31	-	-	-	-	-	-	X
Ill.	-	290	165	-	*	*	*	*	*
Ind.	-	11	-	-	-	-	-	X (c)	-
Ia.	73	*	*	-	-	-	-	-	X
Kans.	-	191	7	-	*	*	*	*	*
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	35	-	-	35	-	-	-	-	X
Md.	137	-	-	-	-	X	-	-	-
Mass.	20	52	16	-	-	-	-	-	X
Mich.	151	222	33	6	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	45	-	1 (d)	*	*	*	*	*
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	2	-	-	-	-	-	-	-
N.J.	254	56	19	-	*	*	*	*	*
N.M.	4	*	*	-	-	-	-	-	X
N.Y.	426	-	-	-	-	X	-	X	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	265	194	11	-	-	-	-	X (e)	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	141	22	8 (e)	X	-	-	-	-
Pa.	137	-	-	-	-	X	-	-	X
R.I.	-	22	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	195	-	-	X	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	-	29	-	-	-	-	-	-	X
Vt.	*	*	*	*	*	*	*	*	*
Va.	-	4	1	-	-	-	-	-	X
Wash.	-	12	-	-	-	-	-	X	-
W.Va.	39	-	-	-	-	-	-	-	X
Wisc.	254	-	-	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-	-
Gum	-	-	-	-	-	-	-	-	-
P.R.	194	-	-	-	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	-	3	-	-	-	-	-	X	-
Ariz.	-	40	-	-	X	-	-	-	X
Ark.	99	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	86	14	-	-	X	-	-	-	-
Del.	-	(b)	(b)	-	-	-	-	-	X
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	377	104	-	-	-	X	-	-
Ga.	-	22	-	-	-	-	-	-	X
Hawaii	-	10	1	-	-	-	-	-	X
Ida.	-	-	-	-	-	-	-	-	-
Ill.	-	290	165	-	*	*	*	*	*
Ind.	-	11	-	-	-	-	-	X (c)	-
Ia.	-	-	-	-	-	-	-	-	-
Kans.	-	191	7	-	*	*	*	*	*
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	135	-	-	-	-	X	-	-	-
Mass.	18	52	16	-	-	-	-	-	X
Mich.	153	219	33	3	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	2	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*	*
N.M.	-	*	*	-	-	-	-	-	-
N.Y.	449	-	-	-	-	X	-	X	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	259	194	11	-	-	-	-	X (c)	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	141	22	8 (e)	X	-	-	-	-
Pa.	143	-	-	-	-	X	-	-	X
R.I.	-	23	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	195	-	-	X	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	-	29	-	-	-	-	-	-	X
Vt.	*	*	*	*	*	*	*	*	*
Va.	-	4	1	-	-	-	-	-	X
Wash.	-	12	-	-	-	-	-	X	-
W.Va.	41	-	-	-	-	-	-	-	X
Wisc.	208	-	-	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-	-
Guam	1	-	-	-	-	-	-	-	X
P.R.	212	-	-	-	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.	-	3	-	-	X	-	-	-	-
Ark.	99	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	87	14	-	-	X	-	-	-	-
Del.	-	(b)	(b)	-	-	-	-	-	X
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	377	104	-	-	-	X	-	-
Ga.	6	13	-	-	-	-	-	X	-
Hawaii	-	11	1	-	-	-	-	-	X
Ida.	-	-	-	-	-	-	-	-	-
Ill.	525	290	165	-	*	*	*	*	*
Ind.	-	9	-	-	-	-	-	X (c)	-
Ia.	-	-	-	-	-	-	-	-	-
Kans.	-	152	7	-	*	*	*	*	*
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	*	*	*	*	-	-	-	-	X
Md.	105	-	-	-	-	X	-	-	-
Mass.	235	-	-	-	-	-	-	-	X
Mich.	22	210	32	1	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	2	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*	*
N.M.	6	*	*	-	-	-	-	-	X
N.Y.	378	-	-	-	-	X	-	X	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	248	194	7	-	-	-	-	X (c)	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	135	22	8 (e)	X	-	-	-	-
Pa.	104	-	-	-	-	X	-	-	-
R.I.	17	-	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	206	-	-	-	-	-	-	X
Tex.	-	-	-	-	-	-	-	-	-
Utah	16	-	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	-	4	1	-	-	-	-	-	X
Wash.	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	170	-	-	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	170	-	-	-	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.	70	-	-	-	-	-	-	X	-
Alaska	3	-	-	-	-	X	-	-	-
Ariz.	128	1	-	-	X	-	-	X	X
Ark.	135	-	-	-	-	-	-	X	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	92	-	-	-	X	-	-	-	-
Del.	11	(b)	(b)	-	X	-	-	-	-
D.C.	29	-	-	-	-	-	-	X	-
Fla.	370	-	-	-	-	-	X	-	-
Ga.	159	-	-	-	-	-	-	X	-
Hawaii	36	-	-	-	-	-	-	X	-
Ida.	58	-	-	-	-	-	-	X	-
Ill.	510	-	-	-	*	*	*	*	*
Ind.	156	-	-	-	-	-	-	X	X
Ia.	83	-	-	-	-	-	-	X	-
Kans.	139	-	-	-	-	-	-	X	-
Ky.	212	-	-	-	-	-	-	X	-
La.	*	*	*	*	-	-	-	-	X
Me.	-	-	-	-	-	-	-	-	-
Md.	122	-	-	-	-	X	-	-	-
Mass.	226	-	-	-	-	-	-	-	X
Mich.	342	6	-	-	X	-	-	X	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	231	-	-	-	-	-	-	X	-
Mont.	57	-	-	-	-	-	-	X	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*	*
N.M.	99	-	-	-	-	-	-	X	-
N.Y.	278	-	-	-	-	X	-	X	-
N.C.	210	-	-	-	-	-	-	X	-
N.D.	10	-	-	-	-	-	-	X	-
Ohio	319	194	-	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	140	1	22	8 (e)	X	-	-	-	-
Pa.	352	-	-	-	-	X	-	X	-
R.I.	38	-	-	-	X	-	-	X	-
S.C.	63	*	*	*	-	-	-	X (f)	X
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	160	-	-	-	-	-	-	X	X
Tex.	1,404	-	-	-	-	-	-	X	-
Utah	36	-	-	-	-	-	-	X	-
Vt.	8	-	-	-	-	-	-	X	-
Va.	150	-	-	-	-	-	-	X	-
Wash.	121	-	-	-	-	-	-	X	-
W.Va.	130	-	-	-	-	-	-	X	-
Wisc.	150	-	-	-	-	-	-	X	X
Wyo.	38	-	-	-	-	-	-	X	-
Guam	1	-	-	-	-	-	-	-	X
P.R.	155	-	-	-	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	-	-	-	-	-	-	-	-	-
Ariz.	-	16	-	-	X	-	-	-	-
Ark.	59	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	94	6	-	-	X	-	-	-	-
Del.	-	(b)	(b)	-	-	-	-	-	X
D.C.	21	-	-	-	-	-	-	X	-
Fla.	-	377	104	-	-	-	X	-	-
Ga.	48	10	-	-	-	-	-	-	X
Hawaii	-	7	-	-	-	-	-	-	X
Ida.	45	-	-	-	-	-	-	*	*
Ill.	400 (g)	-	-	-	*	*	*	*	*
Ind.	-	4	-	-	-	-	-	X (c)	-
Ia.	41	*	*	-	-	-	-	-	X
Kann.	-	68	5	-	*	*	*	*	*
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	*	*	*	*	-	-	-	-	X
Md.	87	-	-	-	-	X	-	-	-
Mass.	206	-	-	-	-	-	-	-	X
Mich.	140	190	28	-	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	52	-	-	-	-	-	X	-	-
Neb.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J.	238	31	-	-	*	*	*	*	*
N.M.	12	*	*	-	-	-	-	-	X
N.Y.	360	-	-	-	-	X	-	X	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	199	194	-	-	-	-	-	X	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	135	22	8 (e)	X	-	-	-	-
Pa.	62	-	-	-	-	X	-	-	-
R.I.	-	16	-	-	X	-	-	-	-
S.C.	49	*	*	*	-	-	-	-	X
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	195	-	-	X	-	-	-	-
Tex.	*	*	*	*	-	-	-	-	X
Utah	10	10	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	-	4	1	-	-	-	-	-	X
Wash.	-	12	-	-	-	-	-	X	-
W.Va.	24	-	-	-	-	-	-	-	X
Wisc.	136 (h)	-	-	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	88	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

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

State	No. in Program			Purpose				
	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-
Ariz.	39	3	-	X	-	-	-	X
Ark.	35	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*
Conn.	-	-	-	-	-	-	-	-
Del.	-	(b)	(b)	-	-	-	-	X
D.C.	-	-	-	-	-	-	X (i)	-
Fla.	-	(j)	(j)	-	-	X	-	-
Ga.	27	2	-	-	-	-	-	X
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	-	4	-	*	*	*	*	*
Ky.	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	45	-	-	-	X	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	109	71	-	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*
N.M.	-	-	-	-	-	-	-	-
N.Y.	123	-	-	-	X	-	X	-
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	145	195	-	-	-	-	X (c)	X
Okla.	*	*	*	*	*	*	*	*
Ore.	-	16	-	X	-	-	-	-
Pa.	20	-	-	-	X	-	-	-
R.I.	-	16	-	X	-	-	-	-
S.C.	23	*	*	-	-	-	-	X
S.D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	*	*	*	-	-	-	-	X
Utah	10	10	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-
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.	-	1	-	-	X	-	-	-	-
Ark.	70	-	-	-	-	-	-	-	X
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	48	6	-	-	X	-	-	-	-
Del.	-	(b)	(b)	-	-	-	-	-	X
D.C.	-	-	-	-	-	-	-	X (1)	-
Fla.	-	(j)	(j)	-	-	-	X	-	-
Ga.	47	3	-	-	-	-	-	-	X
Hawaii	-	7	-	-	-	-	-	-	X
Ida.	-	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-	-
Ia.	43	*	*	-	-	-	-	-	X
Kans.	-	75	5	-	*	*	*	*	*
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	67	-	-	-	-	X	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	96	189	24	-	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-	-	-
N.Y.	260	-	-	-	-	X	-	X	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	201	194	1	-	-	-	-	X (c)	X
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	135	22	8 (e)	X	-	-	-	-
Pa.	40	-	-	-	-	X	-	-	-
R.I.	-	16	-	-	X	-	-	-	-
S.C.	51	*	*	*	-	-	-	-	X
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	195	-	-	-	-	-	-	-
Tex.	130	*	*	*	-	-	-	-	X
Utah	10	10	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	-	4	1	-	-	-	-	-	X
Wash.	-	12	-	-	-	-	-	X	-
W.Va.	31	-	-	-	-	-	-	-	X
Wisc.	-	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	229	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

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

State	No. in Program			Purpose				
	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ala.	*	*	*	*	*	*	*	*
Alaska	-	-	-	-	-	-	-	-
Ariz.	15	-	-	X	-	-	-	X
Ark.	47	-	-	*	-	-	-	X
Cal.	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*
Conn.	103	6	-	X	-	-	-	-
Del.	-	(b)	(b)	-	-	-	-	X
D.C.	-	-	-	-	-	-	X (1)	-
Fla.	-	377	104	-	-	X	-	-
Ga.	-	1	-	-	-	-	-	X
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-
Ind.	-	11	-	-	-	-	X (c)	-
Ia.	20	*	*	-	-	-	-	X
Kans.	-	102	7	*	*	*	*	*
Ky.	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-
Ma.	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-
Mass.	208	-	-	-	-	-	-	X
Mich.	10	203	29	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*
N.M.	10	*	*	-	-	-	-	X
N.Y.	383	-	-	-	X	-	X	-
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	221	194	2	-	-	-	X (c)	X
Okla.	*	*	*	*	*	*	*	*
Ore.	-	135	22	X	-	-	-	-
Pa.	-	-	-	-	-	-	-	-
R.I.	-	15	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-
Tex.	*	*	*	-	-	-	-	X
Utah	*	*	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*
Va.	-	4	1	-	-	-	-	X
Wash.	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-
Wisc.	146	-	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-	-
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.	-	-	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	X (1)	-
Fla.	*	*	*	*	-	-	X	-	-
Ga.	14	-	-	-	-	-	-	-	X
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-	-
Ill.	60	-	-	-	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-	-	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	-
Mass.	26	-	-	-	-	-	-	-	X
Mich.	37	-	-	-	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	1 (e)	X	-	-	-	-
Pa.	62	-	-	-	-	X	-	-	-
R.I.	-	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	3	-	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	29	-	-	-	-	-	-	-	X
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
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.	*	*	*	*	*	*	*	*	*
Conn.	-	-	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-
Ga.	10 (k)	-	-	-	-	-	-	-	X
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	3	-	-	-	-	-	-	X	-
Ill.	120	-	-	-	*	*	*	*	*
Ind.	-	-	-	-	-	-	-	-	-
Ia.	30	*	*	-	-	-	-	-	X
Kans.	-	-	-	-	-	-	-	-	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Ma.	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	28	-	-	-	-	-	X	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	13	-	-	-	-	-	-	X	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*	*
N.M.	-	-	-	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	5	-	-	-	-	-	-	X	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-
Pa.	52	-	-	-	-	-	-	-	X
R.I.	-	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	11	-	-	-	-	-	-	X	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	89	-	-	-	-	-	-	X	-
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
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.	*	*	*	*	*	*	*	*	*
Conn.	52	-	-	-	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	58	-	-	-	-	-	-	X	X
Ga.	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	5	-	-	-	-	-	-	X	-
Ill.	-	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-	X
Ia.	20	*	*	-	-	-	-	X	-
Kans.	-	-	-	-	-	-	-	-	-
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	21	-	-	-	-	(1)	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	11	-	-	-	-	-	-	X	-
Pa.	-	-	-	-	-	-	-	-	-
R.I.	4	-	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-
Vt.	3	-	-	-	-	-	-	X	-
Va.	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	X (m)	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	110 (n)	-	-	-	-	-	-	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.	6	-	-	-	-	-	-	X	-
Ark.	5	-	-	-	-	-	-	X	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	10	-	-	-	*	*	*	*	*
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	36	-	-	-	-	-	-	X	X
Ga.	8 (o)	-	-	-	-	-	-	X	-
Hawaii	-	-	-	-	-	-	-	-	-
Ida.	8	-	-	-	-	-	-	X	-
Ill.	-	-	-	-	-	-	-	-	-
Ind.	18	-	-	-	-	-	-	X	-
Ia.	-	-	-	-	-	-	-	-	-
Kans.	13	-	-	-	-	-	-	X	-
Ky.	*	*	*	*	*	*	*	*	*
La.	* (p)	*	*	*	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	27	-	-	-	-	(1)	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	16	-	-	-	-	-	-	X	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-
N.J.	*	*	*	*	*	*	*	*	*
N.M.	2	-	-	-	-	-	-	X	-
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	34	-	-	-	-	-	-	X	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-	-
R.I.	2	-	-	-	X	-	-	-	-
S.C.	9	*	*	*	-	-	-	X	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	21	-	-	-	-	-	-	X	-
Tex.	24	-	-	-	-	-	-	X	-
Utah	-	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-	-
Wash.	13	-	-	-	-	-	-	X (m)	-
W.Va.	8	-	-	-	-	-	-	X	-
Wisc.	(n)	-	-	-	-	-	-	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.	-	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.	-	-	-	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-	-	-
Ga.	-	36	-	-	-	-	-	-	X
Hawaii	-	8	-	-	-	-	-	-	X
Ida.	-	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-	-
Kans.	-	191	-	-	*	*	*	*	*
Ky.	*	*	*	*	*	*	*	*	*
La.	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	-
Mass.	-	-	-	-	-	-	-	-	-
Mich.	(q)	-	-	-	X	-	-	-	-
Minn.	*	*	*	*	*	*	*	*	*
Miss.	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-
Nebr.	*	*	*	*	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
N.H.	-	2	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-
Okla.	*	*	*	*	*	*	*	*	*
Ore.	-	140	22	8 (e)	X	-	-	-	-
Pa.	133	-	-	-	-	X	-	-	-
R.I.	-	22	-	-	X	-	-	-	-
S.C.	-	-	-	-	-	-	-	-	-
S.D.	*	*	*	*	*	*	*	*	*
Tenn.	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-
Vt.	*	*	*	*	*	*	*	*	*
Va.	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-
P.R.	200	-	-	-	X	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-

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

Discipline	No. in Program				Purpose				
	State	CAP	AAB	Other	License	Permit	Register	Approval	Voluntary
Ariz. Special Enzymology	-	5	-	-	*	-	-	-	*
Special Instrumentation	-	4	-	-	*	-	-	-	*
Fla. Blood Alcohol	45 (r)	-	-	-	-	X	-	-	-
Rabies	*	*	*	*	-	-	X	-	-
Ga. PKU Quantitative	7	-	-	-	-	-	-	-	X
Ill. Tuberculosis Cultures	180	290	165	-	*	*	*	*	*
PKU Quantitative	40	-	-	-	*	*	*	*	*
Md. Shellfish	6	-	-	-	-	(1)	-	-	-
N.Y. Mycobacteriology	121	-	-	-	-	X	-	X	-
Exfoliative Cytology	215	-	-	-	-	X	-	X	-
R.I. Exfoliative Cytology	3	-	-	-	X	-	-	-	-
Utah Blood Alcohol	7	-	-	-	-	-	-	X	-
Wisc. General Bacteriology	170	-	-	-	-	-	-	X	X
Alcohol	21	-	-	-	-	X	-	X	-

TABLES 5-32 - 5-45. FOOTNOTES

- (a) All laboratories must participate in proficiency testing for areas they are licensed in; many exempt laboratories participate (physician's office) even though not required by law.
- (b) A total of 4 laboratories participate in the CAP program and 3 in the AAB program. These were not broken down by discipline.
- (c) Medicare.
- (d) ASCP.
- (e) CDC.
- (f) CLIA.
- (g) Represents TB Smears. TB Cultures shown under "Other Disciplines," Table 5-45.
- (h) Represents Enteric Bacteriology figures. General Bacteriology is shown under "Other Disciplines," Table 5-45.
- (i) Approved by inspection.
- (j) Included with Bacteriology.
- (k) Represents Guthrie. Quantitative shown under "Other Disciplines," Table 5-45.
- (l) Individuals certified.
- (m) Federal.
- (n) Includes Water and Milk.
- (o) 18 technicians approved.
- (p) Mandatory participation. Program handled by Louisiana State Department of Hospitals.
- (q) Licensed under Hematology or Chemistry.
- (r) Represents number of analysts in program.

SECTION VI

PRODUCTION OF BIOLOGICS AND REAGENTS

TABLE 6-1. STATES PRODUCING BIOLOGICS AND REAGENTS

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

TABLE 6-2. PRODUCTION OF BIOLOGICS FOR HUMAN USE

(Amounts Produced in doses)

Ala.	Typhoid Vaccine, 2,345 ml. Smallpox Vaccine, 56,700 points Diphtheria-Tetanus-Pertussis, 93,247 ml. Tetanus and Diphtheria Toxoid, combined aluminum phosphate precipitated for adult use, 28,045 ml. Tetanus Toxoid, 30,205 ml. Silver Nitrate, 12,400 ampules	Minn.	Old Tuberculin, 138,000 ml.
		Miss.	Silver Nitrate, 8,759 ampules
		Tenn.	Typhoid Vaccine, 29,140 ml. Tetanus Toxoid, 42,440 ml. Old Tuberculin 1/2,000, 5,430 ml. Silver Nitrate, 22,180 ampules Ferric Chloride 10%, 11,070 ml. Buffered Physiological Saline, 54,500 ml. Physiological Saline, 551,000 ml. VDRL Saline, 87,250 ml. Sterile Distilled Water, 752,200 ml.
Ill.	Typhoid Vaccine, 131,080 Diphtheria-Tetanus-Pertussis, 216,330 Tetanus and Diphtheria Toxoid, combined aluminum phosphate precipitated for adult use, 30,200 Old Tuberculin, 100,600 Silver Nitrate, 225,650 Rabies Vaccine, 9,604 Schick Test Material, 50,000 P.P.D., 341,230	Tex.	Typhoid Vaccine, 200,200 Smallpox Vaccine, 366,890 Pertussis Vaccine, 660 Diphtheria Toxoid, 10,992 Diphtheria-Tetanus-Pertussis, 649,720 Tetanus and Diphtheria Toxoid, combined aluminum phosphate precipitated for adult use, 697,070 Tetanus Toxoid, 61,500 Old Tuberculin, 92,800 Silver Nitrate, 16,122 Citrated Sheep Blood, 41,600 Defibrinated Sheep Blood, 104,000
Kans.	Fluoride-Sodium, 4,300 ml. Ferric Chloride, 5,300 ml.	Va.	Old Tuberculin, 34,370 ml.
Mass.	Typhoid Vaccine, 81,080 Smallpox Vaccine, 372,395 caps Diphtheria-Tetanus-Pertussis, adsorbed, 588,450 Tetanus and Diphtheria Toxoid, adsorbed (for adult use), 233,180 Tetanus Toxoid, adsorbed, 345,910 Old Tuberculin, 96,040 Silver Nitrate, 176,950 Anti-Rh Globulin, 704 Anti-Lymphocyte, 20,120 ml. Albumin, 576,300 ml. Immune Globulin, 120,462 ml. Tetanus Immune Globulin, 7,617 ml. Diphtheria Antitoxin, 649,500 units Schick Test Outfits, 20,000		
Mich.	Typhoid Vaccine, 86,160 Smallpox Vaccine, 802,310 Pertussis Vaccine, 15,330 Diphtheria-Tetanus-Pertussis, 717,620 Tetanus and Diphtheria Toxoid, combined aluminum phosphate precipitated for adult use, 222,550 Tetanus Toxoid, 607,204 Silver Nitrate, 248,550 Fluoride, 148,200 Factor VIII Concentrate (AHF), 514 Diphtheria Immune Globulin, 250 unit, 19 Dried Fibrinogen (Human), 819 Immune Serum Globulin (Human), 176,998 Normal Serum Albumin (Human), 43,146 Tetanus Immune Globulin (Human), 250 unit, 7,496 Tetanus Immune Globulin (Human), 2,000 unit, 7 Diphtheria Antitoxin, 10,000 unit, 17 Tetanus Antitoxin, 20,000 unit, 9 Diphtheria-Tetanus-Polio, 64,280 Diphtheria-Tetanus-Pertussis-Polio, 164,210 Histoplasmin, 44,805 Rabies Vaccine, 4,865 Tetanus-Diphtheria (Adult), 205,540		

TABLE 6-3. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTISERA

State		Amount Distributed to Other Laboratories (doses)
Conn.	Streptococcus Group A	6 ml.
Ga.	Staphylococcus enterotoxin	225 ml.
	Salmonella C	150 ml.
	Salmonella E4	150 ml.
	Salmonella I	150 ml.
Ill.	E. coli, 790 ml. produced	-
	Salmonella, 244 ml. produced	-
Iowa	Infectious Mononucleosis, Beef Cell Sorbent, 600 ml. produced	-
	Infectious Mononucleosis, Guinea Pig Sorbent, 1,000 ml. produced	-
Mich.	Francisella tularensis and Brucella abortus	62 ml.
Minn.	Enteric bacteria, 788 ml. produced	-
N.J.	Mumps - Hyperimmune Sera, 50 ml. produced	-
N.Y.	Trichinosis, 125 ml. produced	-
	Pooled Sera: CRP, 500 ml. produced	-
	ASO, 500 ml. produced	-
	Heterophile, 1,000 ml. produced	-
	Conjugate (FTA), 1,400 ml. produced	-
N.C.	Coxsackie Typing Sera	-
	Arbovirus EE, WE, SLE	-
S.D.	Brucella	-
	Typhoid	-
	Tularemia	-
Tex.	Reactive Control (VDRL, etc.)	2,195 ml.
	Weakly Reactive Control (VDRL, etc.)	509 ml.
	Nonreactive Control (VDRL, etc.)	70 ml.
Wisc.	Absorption of Salmonella "O" and "H" Antisera for Single Factors	*
	Herpes Simplex, 140 ml. produced	*
	ECHO 18, 50 ml. produced	*
	ECHO 9, 200 ml. produced	*
	Coxsackie B5, 140 ml. produced	*
	M. pneumoniae	-
	M. hominis	-
	M. salivarium	-

TABLE 6-4. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTIGENS

State		Amount Distributed to Other Laboratories (doses)
Conn.	VDRL Slide Test Antigen	6,323 ml.
Hawaii	Influenza A2/Hong Kong/68	50 ml.
	Influenza B/Mass.	50 ml.
	ECHO 9	20 ml.
	ECHO 11	20 ml.
	Coxsackie A9	20 ml.
Ind.	Histo Yeast Phase	-
	Gonococcal	-
Ia.	Influenza A2, HA, 400 ml. produced	-
	Influenza B, HA, 100 ml. produced	-
	Influenza A2, CF, 50 ml. produced	-
	Influenza B, CF, 25 ml. produced	-
	Mumps, CF, 30 ml. produced	-
	Allantoic Normal, HA Control, 50 ml. produced	-
	CAM Normal Control, 15 ml. produced	-
	Rabies Mouse Brain Positive Sorbent for FRA Blocking Control System, 100 ml. produced	-
	Rabies Mouse Brain Normal Sorbent for FRA Blocking Control System, 100 ml. produced	-
	Rabies FRA Positive Control, 500 slides produced	-
La.	Hemolysin	500
Mich.	Francisella tularensis and Brucella abortus	295 ml.
Minn.	Francisella tularensis, 200 ml. produced	-
N.J.	Eastern Encephalitis, 100 ml. produced	*
	Western Encephalitis, 100 ml. produced	*
	St. Louis Encephalitis, 100 ml. produced	*
	Powassan Encephalitis, 100 ml. produced	*
	California Encephalitis, 100 ml. produced	*
	Mumps, 200 ml. produced	*
N.Y.	Trichinosis CF, 20 ml. produced	-
	Trichinosis L, 20 ml. produced	-
	Antinuclear, 1,040 ml. produced	-
	Treponema pallidum, 400 ml. produced	-
N.C.	Arbovirus HA (EE, SLE, WE)	-
Ohio	Vaccinia HI and CF, 100 ml. produced	-
	Influenza A & B, 150 ml. each produced	-
	Normal Tissue, 50 ml. produced	-
	Mumps, Soluble, 100 ml. produced	-
	ECHO, Measles, Herpes, 20 ml. produced	-
S.D.	Typhoid	-
	Paratyphoid	-
	Brucella	-
	Tularemia	-
Tenn.	Bacterial	100 ml.
Tex.	Typhoid O	585 ml.
	Brucella	490 ml.
	Tularemia	430 ml.
	Typhus	455 ml.
	VDRL	3,069 ml.
	Sorbent	3,585 ml.
	VDRL Buffered Saline	27,770
	Rabies Conjugate & Brain Suspension	125

TABLE 6-4. PRODUCTION OF DIAGNOSTIC REAGENTS: ANTIGENS
(Continued)

		Amount Distributed to Other Laboratories (doses)
Va.	NMB for Rabies FA, 300 ml. produced	100 ml.
	IMB for Rabies FA, 300 ml. produced	100 ml.
Wisc.	Influenza A2, CF and HI, 110 ml. produced	*
	Influenza B, CF and HI, 140 ml. produced	*
	Rubella HI, 150 ml. produced	*
	Mumps CF and HI, 30 ml. produced	*
	M. pneumoniae (CF)	-
	Toxoplasma (CF)	-

TABLE 6-5. PRODUCTION OF DIAGNOSTIC REAGENTS: SOLUTIONS

State		Amount Distributed to Other Laboratories (doses)
Conn.	VDRL Buffered Saline	60,800 ml.
Ind.	Physiological Saline	-
	0.9% Saline	-
	Veronal Buffer-Saline	-
La.	Normal Saline	20,000
	Distilled Water	100,000
	Ferric Chloride	1,000
	Copper Sulphate	1,500
	Phenol Red	35,000
N.J.	Borate Saline, 40 liters produced	-
	Borate Saline with Albumin, 40 liters produced	-
	Kaolin, 20 liters produced	-
	Rubella Buffer, 30 liters produced	-
	NaCl (1.5M), 9 liters produced	-
	Boric Acid, 10 liters produced	-
	NaOH (1.0M), 1 liter produced	-
	Na ₂ HPO ₄ (0.2M), 2 liters produced	-
	Na ₂ H ₂ PO ₄ (0.12M), 15 liters produced	-
	Na ₂ H ₂ PO ₄ (0.1M), 30 liters produced	-
	Sodium Bicarbonate, 0.5 liters produced	-
	Phosphate Buffered Saline (PBS), 15 liters produced	-
	1% Heparin in PBS, 1 liter produced	-
	Receptor Destroying Enzyme (RDE), 2 liters produced	-
	Sodium Citrate, 2 liters produced	-
	CA Saline Solution, 8 liters produced	-
	Dextrose Gelatin - Veronal, 2 liters produced	-
	Acid-Citrate-Dextrose, 1 liter produced	-
	Alsever's Solution, 1 liter produced	-
	KH ₂ PO ₄ , H ₂ O, 5 liters produced	-
	K ₂ HPO ₄ , 5 liters produced	-
	Media (Tissue Culture), 2,207 liters produced	-
N.Y.	Sheep RBC 5%, 80 liters produced	-
	Complement S, 80 liters produced	-
	Urea Solution, 2.5%, 120 liters produced	-
	Gold Chloride, 300 liters produced	-
	Buffers, 70 liters produced	-
	Methocel, 12 liters produced	-
	Miscellaneous, 40 liters produced	-
Ohio	Hank's BSS, 100 liters produced	-
	Earle's BSS, 100 liters produced	-
	Miscellaneous Bacteriological Reagents, 5 liters produced	-
	Milk and Water Bacteriological Reagents, 20 liters produced	-
Va.	Orthotoluidine	72,000 ml.

SECTION VII

LABORATORY DATA PROCESSING AND AUTOMATION

TABLE 7-1. 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
Alaska	-	-	X
Ariz.	-	-	X
Ark.	-	-	X
Cal.	*	*	*
Colo.	*	*	*
Conn.	-	-	X
Del.	-	-	X
D.C.	-	-	X
Fla.	-	-	X
Ga.	-	-	X
Hawaii	-	-	X
Ida.	-	-	X
Ill.	-	-	X
Ind.	-	-	X
Ia.	-	-	X
Kans.	-	-	X
Ky.	-	-	X
La.	-	-	X
Me.	-	-	X
Md.	-	-	X
Mass.	-	-	X
Mich.	-	-	X
Minn.	X (a)	-	X
Miss.	-	-	X
Mo.	-	-	X
Mont.	-	-	X
Nebr.	-	-	X
Nev.	-	-	-
N.H.	-	-	X
N.J.	X	-	X
N.M.	-	-	X
N.Y.	X	-	-
N.C.	-	X	X
N.D.	-	-	-
Ohio	-	-	X
Okla.	-	-	X
Ore.	-	X	X
Pa.	-	-	X
R.I.	-	X (b)	X
S.C.	-	-	X
S.D.	-	-	X
Tenn.	-	-	X
Tex.	-	-	X
Utah	-	-	X
Vt.	-	X	-
Va.	-	-	X
Wash.	-	-	X
W.Va.	-	-	X
Wisc.	X	X	-
Wyo.	-	-	X
Guam	-	-	X
P.R.	-	-	X
V.I.	-	-	X

TABLE 7-2. AVAILABILITY AND LOCATION OF COMPUTER EQUIPMENT

	Type & Model of Computer Available	Computer Located:		Computer Under Direction of:		
		on Premises	off Premises	Laboratory	Health Department	Other
Ala.	-	-	-	-	-	-
Alaska	IBM 360/40	-	X	-	-	X (c)
Ariz.	-	-	-	-	-	-
Ark.	IBM 360/20	-	X	-	X	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	IBM 20	-	X	-	X	-
	IBM Model 30, 40, 50	-	X	-	-	X
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	RCA Spectra	-	X	-	-	X
Ga.	IBM 360/50 (2)	X	-	-	X	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	IBM 360/65	-	X	-	-	X (d)
Ind.	IBM 360/20	X	-	-	X	-
Ia.	-	-	-	-	-	-
Kans.	IBM 403	-	X	-	X	-
Ky.	-	-	-	-	-	-
La.	IBM 360/20-12K	X	-	-	X	-
Me.	RCA	-	X	-	-	X
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	Control Data, 3300, 6600	-	X	-	-	X (e)
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	IBM 360/40, 50	-	X	-	-	X
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	RCA Spectra 70/45F	X	-	-	X	-
N.M.	-	-	-	-	-	-
N.Y.	Burroughs B3500	-	X	-	X	-
	IBM 360/30, 40, 50	-	X	-	-	X
N.C.	IBM 360/40	-	X	-	-	X
N.D.	-	-	-	-	-	-
Ohio	IBM 360	-	X	-	-	X
	IBM 370	-	X	-	-	X
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	RCA Spectra 70/45 (f)	X	-	-	X	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	*	-	X	-	X	-
W.Va.	-	-	-	-	-	-
Wisc.	D.E.C. Line-8	X	-	-	X	-
	IBM 360/50	-	X	-	-	X
	IBM 370/155	-	X	-	-	X
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 7-3. 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.	-	-	-	-	-	-
Ark.	-	-	-	-	2	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	1	4	-	2	10
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	*	-	-	*
Ga.	-	6	-	-	17	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	8	-	-	8	-
Ind.	-	1	-	-	2	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
Ky.	-	-	-	-	-	-
La.	-	1	-	-	2	-
Me.	-	1	-	-	4	*
Md.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	-	1	2	1	2	2
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	3	-	2	3
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	1	-	-	5	-
N.M.	-	-	-	-	-	-
N.Y.	-	9	5	-	15	20
N.C.	-	1	3	-	-	12
N.D.	-	-	-	-	-	-
Ohio	-	2	-	-	4	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	3	-	-	8	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	1	-	-	4	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 7-4. COMPUTER APPLICATIONS DURING FY 71

	Licensure or Registration	Purchasing	Personnel Records (incl. Salaries)	Radiological Health Calculations	Supply Inventory	Environmental Health Reporting	Clinical Chemistry Calculations	Others
Ala.	-	-	-	-	-	-	-	-
Alaska	-	X	X	-	-	-	-	Management Information
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*
Conn.	X	-	X	-	-	X	X	-
Del.	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-
Fla.	X	-	-	X	-	-	-	-
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-	-
Ill.	-	-	-	-	-	-	-	Workload Statistics
Ind.	-	-	-	-	-	-	-	-
Ia.	-	X	X	-	X	X	-	Syphilis Serology - Approved Laboratory System
Kans.	-	-	-	-	-	X (g)	-	-
Ky.	-	-	-	-	-	-	-	-
La.	-	X	X	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-
Md.	-	-	-	X	-	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-	-
Minn.	-	-	X (c)	-	-	-	X (h)	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-
N.J.	-	-	X	X	-	X	-	-
N.M.	-	-	-	-	-	-	-	-
N.Y.	X	-	-	X	-	-	X	Diagnostic Reporting, Blood Bank, Hematology Proficiency Testing, Cytology Proficiency Testing
N.C.	-	-	-	X	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	-	X	X	X	X	X	X	Biologics Production and Distribution
Okla.	-	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-
R.I.	-	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-	X	Develop for Laboratory Evaluation, Control of Instruments
Wyo.	-	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-

TABLE 7-5. COMPUTER APPLICATIONS DURING FY 72

	Licensure or Registration	Diagnostic Reporting	Workload Statistics	Management Information	Radiological Health Calculations	Supply Inventory	Environmental Health Reporting	Clinical Chemistry Calculations	Others
Ala.
Alaska	.	.	X	.	.	.	.	.	Biologics Production and Distribution
Ariz.
Ark.
Cal.	*	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*	*
Conn.
Del.
D.C.
Fla.
Ga.	.	.	X	.	.	X	.	.	.
Hawaii	X	.	.	.
Ida.
Ill.	.	.	X	.	.	.	.	.	.
Ind.
Ia.
Kans.	X (i)	.	.	.	.	.	.	.	.
Ky.
La.	.	X	X	X	.	X	.	.	.
Me.
Md.	X	.	.	.	.
Mass.
Mich.
Minn.	X	Proficiency Testing in Clinical Chemistry
Miss.
Mo.
Mont.
Nebr.
Nev.
N.H.
N.J.	Blood Bank (j)
N.M.
N.Y.	X	.	.
N.C.	X	.	.	.	.
N.D.
Ohio
Okla.
Ore.
Pa.
R.I.
S.C.
S.D.
Tenn.
Tex.
Utah
Vt.
Va.
Wash.	.	X	X	X	.	.	X	X	.
W.Va.
Wisc.	X	.	X	X	.	X	.	X	.
Wyo.
Guam
P.R.
V.I.

TABLE 7-6. 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	.	.	.	.	.	.
Ariz.	.	.	.	.	.	.	.	.
Ark.	.	.	.	.	.	.	.	.
Cal.	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*
Conn.	.	X	X	.	.	.	X	.
Del.	.	.	.	.	.	.	.	.
D.C.	.	.	.	.	.	.	.	.
Fla.	.	X	.	.	.	.	.	X
Ga.	X	X	.	X	X	X	.	X
Hawaii	X	X	X	X	.	.	.	X
Ida.	.	.	.	.	.	.	.	.
Ill.	.	.	.	.	.	.	.	.
Ind.	.	.	.	.	.	.	.	.
Ia.	X	X	X	X	.	.	X	X
Kans.	.	.	.	.	.	.	.	.
Ky.	.	.	X	.	.	.	.	.
La.	.	.	.	.	.	.	.	.
Me.	.	.	X	.	X	.	.	X
Md.	X	X	X	X	X	X	.	X
Mass.	.	X	X	.	X	.	.	X
Mich.	.	.	.	.	.	.	.	.
Minn.	X	.	X	.	.	.	.	.
Miss.	.	.	.	.	.	.	.	.
Mo.	.	.	.	.	.	.	.	.
Mont.	.	.	.	.	.	.	.	.
Nebr.	.	.	.	.	.	.	.	.
Nev.	.	.	.	.	.	.	.	.
N.H.	.	.	.	.	.	.	.	.
N.J.	X	X	X	.	.	.	.	.
N.M.	.	.	.	.	.	.	.	.
N.Y.	.	.	X	X	X	X	.	X
N.C.	.	.	.	.	.	.	.	.
N.D.	.	.	.	.	.	.	.	.
Ohio	X	X	X	X	.	.	.	.
Okla.	.	.	.	.	.	.	.	.
Ore.	.	.	.	.	.	.	.	.
Pa.	.	X	X	X	X	X	.	X
R.I.	.	.	.	.	.	.	.	.
S.C.	.	X	X	X	X	.	.	X
S.D.	.	.	.	.	.	.	.	.
Tenn.	.	.	.	.	.	.	.	.
Tex.	.	X	X	.	.	.	X	.
Utah	.	.	.	.	.	.	.	.
Vt.	.	.	.	.	.	.	.	.
Va.	.	.	.	.	.	.	.	.
Wash.	.	X	X	X	.	.	.	.
W.Va.	.	.	.	.	.	.	.	.
Wisc.	.	.	.	.	.	.	.	.
Wy.	.	.	.	.	.	.	.	.
Guam	.	.	.	.	.	.	.	.
P.R.	X	X	X	X	X	X	.	X
V.I.	.	.	.	.	.	.	.	.

TABLE 7-6. COMPUTER APPLICATIONS CONSIDERED FOR FUTURE
(Continued)

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

TABLE 7-7. AUTOMATED LABORATORY PROCEDURES BY CATEGORY

	Clin. Chem.	Hematology	Serology	Other
Ala.	X	-	-	-
Alaska	-	-	-	-
Ariz.	X	-	-	-
Ark.	X	-	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	X	-	X	X
Del.	-	-	X	-
D.C.	X	X	X	Blood Grouping
Fla.	X	-	-	-
Ga.	X	-	X	-
Hawaii	X	-	-	-
Ida.	X	-	-	-
Ill.	-	-	-	Environmental
Ind.	-	-	X	-
Ia.	X	-	-	-
Kans.	-	-	-	-
Ky.	X	-	-	-
La.	-	-	-	-
Me.	-	-	X	Water
Md.	X	X	X	Air Quality, Water Chemistry
Mass.	X	-	-	-
Mich.	X	X	X	-
Minn.	X	-	-	-
Miss.	X	-	X	-
Mo.	X (k)	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	X	-	-	-
N.J.	X	X	-	Water Analysis
N.M.	-	-	X	-
N.Y.	X	X	X	-
N.C.	X	-	X	X
N.D.	-	-	-	-
Ohio	X	-	-	-
Okla.	X	-	-	-
Ore.	X	-	X	-
Pa.	X	-	-	-
R.I.	X	-	X	-
S.C.	-	-	-	X
S.D.	-	-	-	-
Tenn.	X	-	-	-
Tex.	X	-	-	-
Utah	X	-	X	X
Vt.	X	-	X	X
Va.	X	-	-	-
Wash.	-	-	-	-
W.Va.	X	-	X	-
Wisc.	X	X	X	Immunology
Wyo.	-	-	X	-
Guam	X	-	-	-
P.R.	X	X	X	X
V.I.	X	-	X	-

TABLE 7-8. PERCENTAGE OF DIAGNOSTIC WORKLOAD HANDLED BY AUTOMATED LABORATORY PROCEDURES

	%
Ala.	5.0
Alaska	-
Ariz.	*
Ark.	<1.0
Cal.	*
Colo.	*
Conn.	2.0
Del.	*
D.C.	10.0
Fla.	3.0
Ga.	<1.0
Hawaii	0.3
Ida.	- not used routinely; only an occasional survey.
Ill.	10.0 of the environmental workload.
Ind.	1.0
Ia.	- used in LC&D Proficiency Testing Program only.
Kans.	-
Ky.	14.0
La.	-
Me.	3.0
Md.	15.0
Mass.	<1.0
Mich.	3.0
Minn.	10.0
Miss.	30.0
Mo.	*
Mont.	-
Nebr.	-
Nev.	-
N.H.	7.0
N.J.	60.0
N.M.	10.0
N.Y.	21.0 of Chemistry diagnostic workload.
N.C.	95.0 of Clinical Chemistry; 15.0% of Serology (other than Syphilis), Rubella, ASO, Heterophile; 5.0% of Environmental Sciences.
N.D.	-
Ohio	12.0
Okla.	1.0
Ore.	-
Pa.	80.0
R.I.	10.0
S.C.	1.0
S.D.	-
Tenn.	0.8
Tex.	1.0
Utah	6.0
Vt.	90.0 of Chemistry; 60.0% of Serology.
Va.	<1.0
Wash.	-
W.Va.	99.0 of Chemistry; 5.0% of Serology; 10.0% of overall laboratory.
Wisc.	30.0 of Immunology; 90.0 of Clinical Chemistry.
Wyo.	5.0
Guam	10.0
P.R.	10.0
V.I.	30.0

TABLE 7-9. 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 AutoAnalyzer (3); Hewlett-Packard Gas-Liquid Chromatograph Model 7620A; Perkin-Elmer Blood Alcohol Analyzer Model F-40.
Del.	-
D.C.	Technicon AutoAnalyzer SMA/30; Technicon AutoAnalyzer I (2).
Fla.	Technicon Basic AutoAnalyzer (6); Technicon Basic (Fluorometric) AutoAnalyzer; AutoAnalyzer II.
Ga.	Technicon AutoAnalyzer.
Hawaii	Technicon AutoAnalyzer I and II.
Ida.	Technicon Bench Model.
Ill.	-
Ind.	-
Ia.	Technicon Dual Channel AutoAnalyzer; IL Flame Spectrophotometer; Turner Fluorometer.
Kans.	-
Ky.	Technicon AutoAnalyzer - Clinical Model.
La.	-
Me.	-
Md.	Technicon Dual Channel AutoAnalyzer I; American Instrument Company Chloride Titrator, Clinical Model.
Mass.	Phoenix Precision Instrument Company Amino Acid Analyzer Model M-6800.
Mich.	Technicon AutoAnalyzer: Single Channel, Dual Channel, Triple Channel.
Minn.	Technicon Single Channel AutoAnalyzer; Instrumentation Laboratories Semi-Automatic Flame Photometer, Model 143.
Miss.	Technicon Single Channel AutoAnalyzer.
Mo.	Technicon Single Channel AutoAnalyzer.
Mont.	-
Nebr.	-
Nev.	-
N.H.	Technicon Basic AutoAnalyzer.
N.J.	Technicon Single Channel AutoAnalyzer; LKB Reaction Rate Analyzer 8600.
N.M.	-
N.Y.	Technicon AutoAnalyzer 1-3 Channels (assembled by Laboratory), American Optical Robot Chemist.
N.C.	Technicon Single Channel AutoAnalyzers (7); AutoAnalyzer SMA 12/60; AutoAnalyzer SMA 6/60.
N.D.	-
Ohio	Technicon AutoAnalyzer I; Technicon AutoAnalyzer SMA 12/60.
Okla.	Technicon AutoAnalyzer Models 1 and 2.
Ore.	IL Flame Photometer 143; Hitachi Amino Acid Analyzer 034.
Pa.	Technicon Single Channel AutoAnalyzer (2).
R.I.	Technicon Single Channel AutoAnalyzer (3); Technicon Dual Channel AutoAnalyzer (1).
S.C.	-
S.D.	-
Tenn.	Technicon Single Channel AutoAnalyzer.
Tex.	Technicon AutoAnalyzer.
Utah	Technicon Single Channel AutoAnalyzer; Gilford 2400 Spectrophotometer (semi-automated).
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; Perkin-Elmer Recorder 185.
Va.	Technicon Dual AutoAnalyzer.
Wash.	-
W.Va.	Technicon Single Channel AutoAnalyzer; Technicon 12-Channel AutoAnalyzer 12/60.
Wisc.	Technicon AutoAnalyzers I, II (8); 12/60 (2); Hycel Mark X.
Wyo.	-
Guam	Technicon Single Channel AutoAnalyzer.
P.R.	Technicon AutoAnalyzer TC; Ames-Thyrimeter; Millipore Electrophoresis.
V.I.	Technicon Basic AutoAnalyzer (for Glucose), Technicon Fluorometer II.

TABLE 7-10. AUTOMATED ANALYTICAL EQUIPMENT USED BY LABORATORY: HEMATOLOGY

Ala.	-
Alaska	-
Ariz.	-
Ark.	-
Cal.	*
Colo.	*
Conn.	-
Del.	-
D.C.	Technicon AutoAnalyzer SMA/7A.
Fla.	-
Ga.	-
Hawaii	-
Ida.	-
Ill.	-
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	-
Md.	Coulter Counter Model F.
Mass.	-
Mich.	Technicon Dual Channel AutoAnalyzer.
Minn.	-
Miss.	-
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	Coulter Cell Counter FN.
N.M.	-
N.Y.	Coulter Counter Model F; Coleman 6-20A Spectrophotometer; BBL Fibrometer; International MB Microhematocrit; International CL24762M Clinical Centrifuge; Clifford Instruments 345 Electrophoresis Densitometer.
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.
Wyo.	-
Guam	-
P.R.	Ames Hema-Tek; Fisher Dilutor 240; Coulter Counter FN.
V.I.	-

TABLE 7-11. AUTOMATED ANALYTICAL EQUIPMENT USED BY LABORATORY: SEROLOGY

Ala.	-
Alaska	-
Ariz.	-
Ark.	-
Cal.	*
Colo.	*
Conn.	Technicon Single Channel AutoAnalyzer.
Del.	Technicon ART AutoAnalyzer.
D.C.	Technicon Single Channel AutoAnalyzer (2).
Fla.	-
Ga.	Technicon ART AutoAnalyzer.
Hawaii	-
Ida.	-
Ill.	-
Ind.	Technicon AutoAnalyzer Sampler II.
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	Canalco Autotiter II.
Md.	Cooke Engineering Company Automatic Dilutor.
Mass.	-
Mich.	Technicon AutoAnalyzer Automated Reagin; Aerojet Seramatic Automated FTA-ABS.
Minn.	-
Miss.	Technicon Single Channel AutoAnalyzer.
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	-
N.M.	Technicon Automated Reagin Test; Cooke Manufacturing Company Autotitrater; Cooke Autodiluter.
N.Y.	Technicon ART AutoAnalyzers (2).
N.C.	Cooke Autodiluter; Cooke Microtiter.
N.D.	-
Ohio	-
Okla.	-
Ore.	Technicon Automated Reagin.
Pa.	-
R.I.	Technicon ART AutoAnalyzer.
S.C.	-
S.D.	-
Tenn.	-
Tex.	-
Utah	Technicon ART AutoAnalyzer.
Vt.	Technicon ART AutoAnalyzer.
Va.	-
Wash.	-
W.Va.	Technicon ART AutoAnalyzer.
Wisc.	Cooke Engineering Company Diluter 222-20; Technicon AutoAnalyzer R.P.R.
Wyo.	Cooke Engineering Automatic Microtiter Diluter and Pipetter, Model 222-20.
Guam	-
P.R.	Technicon ART.
V.I.	Technicon ART.

TABLE 7-12. AUTOMATED ANALYTICAL EQUIPMENT USED BY LABORATORY: OTHER DISCIPLINES

Ala.	-
Alaska	-
Ariz.	-
Ark.	-
Cal.	*
Colo.	*
Conn.	Technicon 6-Channel AutoAnalyzer, Model CSM-6, for Water Chemistry; Technicon Single Channel AutoAnalyzer for Water Chemistry.
Del.	-
D.C.	Blood Grouping: Technicon 10-Channel AutoAnalyzer.
Fla.	-
Ga.	-
Hawaii	-
Ida.	-
Ill.	Technicon AutoAnalyzer Type I.
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	Technicon 4-Channel for Chlorides, Nitrates, Nitrites, Hardness.
Md.	Technicon Single Channel AutoAnalyzer I for Air Analysis; Technicon AutoAnalyzer II for Water Chemistry and Beckman Titrator, Automatic for BOD's.
Mass.	-
Mich.	-
Minn.	-
Miss.	-
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	Technicon 4-Channel AutoAnalyzer; Thomas Concentration Read-Out Peak Detector No. 8; Thomas Digital Converter No. C-8.
N.M.	-
N.Y.	-
N.C.	Low Beta Counters, Beckman II; Packard Scintillation Counter 314 EX.
N.D.	-
Ohio	-
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: Technicon Single Channel AutoAnalyzers (2); Radiologic: Beckman LS-150 Liquid Scintillator.
Vt.	Cooke Engineering Microdiluter 222-20 PU.
Va.	-
Wash.	-
W.Va.	-
Wisc.	Spectra Biologicals Auto I Automated Coombs System for Immunology.
Wyo.	-
Guam	-
P.R.	Hyland Clotek TM; Abbott Countercurrentelectrophoresis; Perkin-Elmer Atomic Absorption; Beckman DK2A.
V.I.	-

SECTION VII. FOOTNOTES

- (a) Data for Clinical Chemistry intrastate proficiency testing only.
- (b) Food Bacteriology and Food Chemistry.
- (c) State Department of Administration.
- (d) Management Information in the Department of Finance.
- (e) University of Minnesota.
- (f) Spectra 70 CPU will be replaced in October 1971 with RCA 2 CPU.
- (g) Water Bacteriology - in very preliminary stages of planning in connection with early planning of new building.
- (h) Refers to solution of complex equations other than any concerned with proficiency testing.
- (i) Laboratory and personnel certification and Syphilis Serology proficiency testing.
- (j) Register of donors incriminated in hepatitis transmission or positive for Australia Antigen.
- (k) Clinical Chemistry, as such, not done by the Laboratory. Blood Glucose screening done by the Unopette method upon request by the Director of Personal Health Services.

SECTION VIII

PHENYLKETONURIA AND OTHER SCREENING PROGRAMS

TABLE 8-1. STATE PHENYLKETONURIA SCREENING PROGRAM

	Type of PKU Program:			Screening Test Used by State Lab
	No Program	Voluntary Program	Mandatory Program	
Ala.	-	-	X	Guthrie
Alaska	-	-	X	Guthrie
Ariz.	X	-	-	-
Ark.	-	X	-	Guthrie
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	-	-	X	Guthrie
Del.	-	X	-	Guthrie
D.C.	X (a)	-	-	-
Fla.	-	-	X	Guthrie
Ga.	-	-	X	Guthrie
Hawaii	-	-	X	-
Ida.	-	-	X	Guthrie
Ill.	-	-	X	Guthrie
Ind.	-	X	-	-
Ia.	-	X	-	-
Kans.	-	-	X	Guthrie
Ky.	-	-	X	Guthrie
La.	-	-	X	Guthrie
Me.	-	-	X	Guthrie
Md.	-	-	X	Guthrie
Mass.	-	-	X	Guthrie
Mich.	-	-	X	Guthrie
Minn.	-	-	X	Guthrie
Miss.	X	-	-	-
Mo.	-	-	X	Guthrie
Mont.	-	-	X	Guthrie
Nebr.	-	-	X	Guthrie
Nev.	-	-	X	Guthrie
N.H.	-	-	X	*
N.J.	-	-	X	Guthrie
N.M.	-	X	-	Guthrie
N.Y.	-	-	X	Guthrie
N.C.	-	X	-	Fluorometric (automated)
N.D.	-	-	X	Guthrie
Ohio	-	-	X	Guthrie
Okla.	-	-	X	Guthrie
Ore.	-	-	X	Guthrie, Paper Chromatography, Enzyme Tests
Pa.	-	-	X	Guthrie
R.I.	-	-	X	Guthrie
S.C.	-	-	X	Guthrie
S.D.	X	-	-	-
Tenn.	-	-	X	Guthrie
Tex.	-	-	X	Guthrie
Utah	-	-	X	-
Vt.	-	X	-	-
Va.	-	-	X	Guthrie
Wash.	-	X	-	Guthrie
W.Va.	-	-	X	*
Wisc.	-	-	X	Guthrie
Wyo.	-	X	-	-
Guam	-	X	-	Guthrie
P.R.	X	-	-	-
V.I.	-	X	-	Guthrie

TABLE B-1. STATE PHENYLKETONURIA SCREENING PROGRAM
(Continued)

Confirmatory Test Used by State Lab:

Ala.	Paper Chromatography, Fluorometric (for phenylalanine and tyrosine).
Alaska	Fluorometric (Turner). All specimens screened for MSUD and Galactosemia.
Ariz.	-
Ark.	- (Sent to University of Arkansas Biochemistry Laboratory which uses Fluorometry).
Cal.	*
Colo.	*
Conn.	Fluorometric.
Del.	Retested.
D.C.	-
Fla.	Fluorometric.
Ga.	Fluorometric and Paper Chromatography.
Hawaii	-
Ida.	Fluorometric, Phenylalanine and occasionally two-dimensional Paper Chromatography.
Ill.	Enzymatic Spectrophotometric Method (LaDu Technique).
Ind.	-
Ia.	Fluorometric.
Kans.	Fluorometric.
Ky.	Retested.
La.	Fluorometric.
Me.	Automated Amino Acid Analysis (Massachusetts Diagnostic Laboratory).
Md.	- (Routine Guthrie cases referred to Johns Hopkins Hospital for confirmation, therapy, and follow-up).
Mass.	Automated Amino Acid Analysis.
Mich.	- (Patients sent to University of Michigan Health Center, Ann Arbor, Michigan, for McCaman-Robins Spectrofluorometric Test).
Minn.	Quantitative Analysis by Paper Chromatography and Thin Layer Chromatography. Fluorometric method also available when necessary.
Miss.	-
Mo.	-
Mont.	- (Referred to Department of Pediatrics, Medical School of University of Colorado, Denver).
Nebr.	- (Referred to State University Medical Center).
Nev.	- (Confirmed at Dr. Guthrie's Laboratory in Children's Hospital, Buffalo, N.Y. and at Children's Hospital, Los Angeles, Cal).
N.H.	Paper Chromatography (confirmed by Massachusetts Department of Health).
N.J.	Fluorometric (Ambrose).
N.M.	- (Referred to University of Colorado School of Medicine).
N.Y.	McCaman and Robins microchemical test for phenylalanine. Diagnosis made by Treatment Center only.
N.C.	Fluorometric (Hill and Summer).
N.D.	- (Referred).
Ohio	Fluorometric.
Okla.	- (Referred).
Ore.	Fluorometric, Liquid Chromatography.
Pa.	Fluorometric.
R.I.	Fluorometric, Paper Chromatography, Automated Amino Acid Analysis.
S.C.	Fluorometric.
S.D.	-
Tenn.	-
Tex.	Fluorometric.
Utah	- (Sent to University Hospital, which uses Amino Acid Analyzer to check both phenylalanine and tyrosine).
Vt.	-
Va.	Fluorometric (Ambrose) Manual.
Wash.	Fluorometric.
W.Va.	Automated Fluorometric (Hill) adapted by Technicon, Inc.
Wisc.	Fluorometric (Ambrose).
Wyo.	-
Guam	-
P.R.	-
V.I.	Fluorometric.

TABLE 8-2. NUMBER AND TYPES OF LABORATORIES PERFORMING SCREENING TESTS

	Total No. of Labs Performing Tests Routinely	Breakdown by Type of Laboratory:					
		State PH	City PH	County PH	Hospital	Indep. Clinical	Other
Ala.	1	1	-	-	-	-	-
Alaska	1	1	-	-	-	-	-
Ariz.	-	-	-	-	43	*	-
Ark.	12	1	-	-	11	-	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	1	1	-	-	-	-	-
Del.	-	1	-	-	-	-	-
D.C.	*	-	-	-	*	-	-
Fla.	55	2	-	-	53	-	-
Ga.	2	1	-	-	-	1	-
Hawaii	3	-	-	-	2	1	-
Ida.	4	1	-	-	3	-	-
Ill.	120	-	1	-	106	13	-
Ind.	*	-	*	*	*	*	*
Ia.	38	-	-	-	33	5	-
Kans.	15	1	-	-	14	-	-
Ky.	*	1	-	-	*	-	-
La.	2 (b)	-	-	-	(b)	-	-
Me.	1	1	-	-	-	-	-
Md.	3	1	-	-	2	-	-
Mass.	1	1	-	-	-	-	-
Mich.	29 (c)	1	-	-	28	-	-
Minn.	11	1	-	-	10	-	-
Miss.	-	-	-	-	-	-	-
Mo.	13	1	1	-	9	2	-
Mont.	3	1	-	-	2	-	-
Nebr.	46 (d)	1	-	-	30 (d)	15	-
Nev.	1	1	-	-	-	-	-
N.H.	1	1	-	-	-	-	-
N.J.	6	1	-	-	4	1	-
N.M.	4	2	-	-	2	-	-
N.Y.	4	1	1	2	-	-	-
N.C.	2	1	-	-	1	-	-
N.D.	1	1	-	-	-	-	-
Ohio	6	1	-	-	5	-	-
Okla.	5	1	-	-	4	-	-
Ore.	1	1	-	-	-	-	-
Pa.	67	1	-	-	66	-	-
R.I.	1	1	-	-	-	-	-
S.C.	3	1	-	-	2	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	1	1	-	-	-	-	-
Tex.	*	1	-	-	*	*	*
Utah	11	-	-	-	10	1	-
Vt.	2	-	-	-	2	-	-
Va.	3	3	-	-	-	-	-
Wash.	55	1	-	3	34	5	12
W.Va.	15	1	-	-	14	-	-
Wisc.	90	2	-	-	82	3	3
Wyo.	4	-	-	-	2	2	-
Guam	1	1	-	-	-	-	-
P.R.	-	-	-	-	-	-	-
V.I.	1	1	-	-	-	-	-

TABLE 8-3. SCREENING METHODS USED BY TYPE OF LABORATORY

	City PH	County PH	Hospital	Indep. Clinical	Other
Ala.	-	-	-	-	-
Alaska	-	-	-	-	-
Ariz.	-	-	Guthrie-35, Urine-8	*	-
Ark.	-	-	Guthrie-8, Urine-3	-	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	-	-	-	-	-
Del.	-	-	-	-	-
D.C.	-	-	*	-	-
Fla.	-	-	Guthrie-49, Paper Chromatography-3, Fluorometric-1	-	-
Ga.	-	-	-	Guthrie	-
Hawaii	-	-	Guthrie-2	Fluorometric-1	-
Ida.	-	-	Guthrie	-	-
Ill.	Guthrie	-	Guthrie	Guthrie	-
Ind.	*	*	*	*	*
Ia.	-	-	Guthrie-25, Quantitative-8	Guthrie-2, Quantitative-3	-
Kans.	-	-	Guthrie-11, Fluorometric-3	-	-
Ky.	-	-	*	-	-
La.	-	-	(b)	-	-
Me.	-	-	-	-	-
Md.	-	-	Guthrie	-	-
Mass.	-	-	-	-	-
Mich.	-	-	Guthrie	-	-
Minn.	-	-	Fluorometric	-	-
Miss.	-	-	-	-	-
Mo.	Guthrie	-	Chromatography-1, Guthrie-8	Guthrie	-
Mont.	-	-	Guthrie-Modified-1, Fluorometric-1	-	-
Nebr.	-	-	(Various)	*	-
Nev.	-	-	-	-	-
N.H.	-	-	-	-	-
N.J.	-	-	Guthrie-3, Fluorometric-1	Guthrie	-
N.M.	-	-	Guthrie, Fluorometric	-	-
N.Y.	Guthrie	Guthrie	-	-	-
N.C.	-	-	*	-	-
N.D.	-	-	-	-	-
Ohio	-	-	Guthrie-2, Fluorometric-3	-	-
Okla.	-	-	Guthrie-3, Fluorometric Manual-1, Guthrie and Thin Layer Chromatography-1	-	-
Ore.	-	-	-	-	-
Pa.	-	-	Guthrie-55, Fluorometric-11	-	-
R.I.	-	-	-	-	-
S.C.	-	-	Guthrie	-	-
S.D.	-	-	-	-	-
Tenn.	-	-	-	-	-
Tex.	-	-	*	*	*
Utah	-	-	Guthrie	Fluorometric (Turner)	-
Vt.	-	-	Guthrie	-	-
Va.	-	-	-	-	-
Wash.	-	Ferric Chloride	Guthrie-21, Fluorometric-8, Phenistix-4, not specified-1	Guthrie-4, Fluorometric-1	Guthrie-2, Phenistix-5, Ferric Chloride-4, not specified-1

TABLE 8-3. SCREENING METHODS USED BY TYPE OF LABORATORY
(Continued)

	City PH	County PH	Hospital	Indep. Clinical	Other
W.Va.	-	-	Guthrie-10, Fluorometric-4	-	-
Wisc.	-	-	Guthrie-69, Fluorometric-13	Guthrie-1, Fluorometric-2	Guthrie
Wyo.	-	-	Guthrie-1, Paper Chrom.-1	Guthrie-1, Paper Chrom.-1	-
Guam	-	-	-	-	-
P.R.	-	-	-	-	-
V.I.	-	-	-	-	-

TABLE 8-4. SCREENING PROGRAMS OTHER THAN PKU IN PROGRESS

Ala.	-
Alaska	Rubella - Screening of all female premarital and prenatal syphilis serology specimens submitted to regional laboratories. GC - Anchorage only.
Ariz.	-
Ark.	-
Cal.	*
Colo.	*
Conn.	Galactosemia screening of all newborns, Lead Poisoning utilizing ALA test, Diabetes screening.
Del.	-
D.C.	Lead poison prevention, GC, cervical cancer.
Fla.	-
Ga.	-
Hawaii	-
Ida.	-
Ill.	In connection with Traffic Safety Section currently in progress is a study on which alcohol and carbon monoxide analyses are done on all automobile fatalities (drivers, suspected drivers and pedestrians over 16 years of age) occurring in Illinois, with the exception of Cook County. This is for statistical purposes only.
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	Group A Beta Hemolytic Streptococci; GC screening program.
Me.	1970 - small program for ALA and Lead.
Md.	-
Mass.	Homocystinuria, Tyrosinemia, Galactosemia, Hereditary Angioneurotic Edema, all Amino Acidopathies, Organic Acid abnormalities.
Mich.	Glucose for Diabetes Association; Glucose, Hemoglobin, Uric Acid, Creatinine and Cholesterol for Chronic Disease Program.
Minn.	-
Miss.	Bacteriuria Screening Program, and Diabetic Screening Program.
Mo.	Diabetes.
Mont.	-
Nebr.	-
Nev.	Rubella Screening on all prenatals.
N.H.	Diabetes.
N.J.	Gonococcus cultures (16 planned parenthood clinics: 3 OB clinics, 1 prenatal clinic).
N.M.	Group A Streptococcus Screening.
N.Y.	Galactosemia (Beutler Method), MSUD (Difco Version).
N.C.	Diabetes, Multiphasic (Chronic Diseases).
N.D.	-
Ohio	-
Okla.	-
Ore.	Prenatal Rubella HAI testing; Family Planning.
Pa.	-
R.I.	MSUD, Galactosemia, Homocystinuria.
S.C.	-
S.D.	-
Tenn.	Diabetes (Blood Glucose).
Tex.	Diabetes.
Utah	Rubella Antibody Screening on premarital STS samples.
Vt.	Hair for Mercury.
Va.	-
Wash.	-
W.Va.	"Pap Smear" Cytology Program.
Wisc.	Rubella Testing Program, Alcohol Testing Program.
Wyo.	-
Guam	-
P.R.	Lead in Urine (ALA).
V.I.	Diabetic.

TABLE 8-5. NEW SCREENING PROGRAMS CONTEMPLATED

Ala.	-
Alaska	-
Ariz.	-
Ark.	-
Cal.	*
Colo.	*
Conn.	-
Del.	-
D.C.	Rubella, Stroke Prevention.
Fla.	-
Ga.	-
Hawaii	-
Ida.	-
Ill.	(a) Starting July 1, 1971, and running through 1973, the study mentioned in Table 8-4 will be in progress with the addition of drug analyses being run on all blood samples. As before, this study is for statistical purposes only. (b) Antibody studies on bloods from disadvantaged areas on children under 6.
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	Request being submitted to Children's Bureau for support to determine if abnormal blood lead is a problem in rural pediatric population.
Md.	Galactosemia and possibly Methionine and Hertiidine, Methionine Histidine.
Mass.	Alpha - 1, Antitrypsin deficiency.
Mich.	-
Minn.	-
Miss.	-
Mo.	-
Mont.	-
Nebr.	-
Nev.	-
N.H.	-
N.J.	-
N.M.	-
N.Y.	(Under investigation).
N.C.	-
N.D.	-
Ohio	Galactosemia, Tyrosinemia, Homocystinuria, and Maple Syrup Urine Disease.
Okla.	-
Ore.	-
Pa.	-
R.I.	Sickle Cell Anemia.
S.C.	-
S.D.	-
Tenn.	Uric Acid and Cholesterol determinations.
Tex.	-
Utah	-
Vt.	Lead (children).
Va.	-
Wash.	-
W.Va.	-
Wisc.	HAA Testing Program.
Wyo.	-
Guam	Rubella.
P.R.	-
V.I.	Rubella, Narcotics.

SECTION VIII. FOOTNOTES

- (a) Performed in local hospitals.
- (b) Some hospitals do their own testing. Number and methods used are unknown.
- (c) State laboratory performs tests for 165 hospitals.
- (d) Law does not allow an accurate count. There are 30-40 hospital laboratories performing the tests.

SECTION IX

LABORATORY FIELD ACTIVITIES

TABLE 9-1. 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.	-	-	-	70 (a)	-	-
Alaska	-	-	-	5	1	-
Ariz.	-	-	-	150	-	4
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	178	45	-	248	-	100
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	176	-	360
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	14	-	-
Ida.	(b)	-	-	-	-	-
Ill.	-	-	-	305	-	31
Ind.	7 (c)	-	-	-	-	-
Ia.	96	29	67	54	86	52
Kans.	-	-	-	231	-	67
Ky.	-	-	-	20	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	14	-	-
Md.	-	35	-	185	-	3
Mass.	-	-	-	120	-	-
Mich.	-	-	-	301	-	887
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	3
Mo.	-	-	-	96	1	12
Mont.	-	-	-	7	-	-
Nebr.	50	-	-	-	-	125
Nev.	-	-	-	17	-	-
N.H.	-	-	-	-	-	-
N.J.	33	-	5	8	-	4
N.M.	*	*	-	6	-	-
N.Y.	*	*	*	*	*	*
N.C.	2	-	-	2	-	1
N.D.	-	-	-	40	-	-
Ohio	3	-	-	221	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	186	4
Pa.	-	-	-	17	-	-
R.I.	-	-	-	40	-	250
S.C.	-	-	-	9	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	1	15	30	1
Utah	5	-	-	46	-	108 (d)
Vt.	-	-	-	11	-	45
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	84	1	-
Wisc.	300 (e)	-	154	1,504	-	13
Wyo.	-	-	-	3	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	600	10	450
V.I.	-	-	-	-	-	-

TABLE 9-1. NUMBER OF FIELD INVESTIGATIONS, INSPECTIONS, OR CONSULTATIONS
(Continued)

	Consultation with:					Total Field Invest., Insp., or Cons.
	Professional Societies	Federal Agencies	State Agencies	County Agencies	City or Local Agencies	
Ala.	-	-	-	-	-	70
Alaska	4	3	4	-	2	19
Ariz.	28	20	48	48	6	304
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	10	5	-	-	5	591
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	(f)	(f)	(f)	(f)	536
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	14
Ida.	-	-	-	-	-	-
Ill.	4	5	20	5	4	374
Ind.	-	2 (g)	-	-	-	9
Ia.	-	(h)	(h)	(h)	(h)	384
Kans.	-	1 (i)	4 (i)	-	-	303 (i)
Ky.	-	-	-	-	-	20
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	14
Md.	4	-	-	-	-	227
Mass.	10	6	53	-	-	190 (j)
Mich.	-	-	-	-	-	1,188
Minn.	-	-	-	-	-	-
Miss.	4	6	2	1	1	17
Mo.	8	3	2	4	14	140
Mont.	2	*	(k)	-	-	*
Nebr.	-	-	10	2	-	187
Nev.	-	2	-	2	-	21
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	50
N.M.	2	-	-	-	-	8
N.Y.	*	*	*	*	*	*
N.C.	4	1	1	1	-	12
N.D.	-	10	-	2	3	55
Ohio	-	5	2	-	-	231
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	190
Pa.	-	-	-	-	-	17
R.I.	25	40	300	-	-	655
S.C.	-	2	-	4	-	15
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	4	2	1	3	57
Utah	2	3	-	-	1	165
Vt.	-	-	-	-	-	56
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	(1)
W.Va.	-	-	-	-	-	85
Wisc.	15	-	-	2	1	1,989
Wyo.	-	-	-	-	-	3
Guam	-	-	-	-	-	-
P.R.	60	120	350	50 (m)	(m)	1,640
V.I.	-	-	-	-	-	-

TABLE 9-2. 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	-	-	-	5	1	-
Ariz.	-	-	-	150	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	20	53	-	248	-	100
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	176	-	-
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	14	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	300	-	-
Ind.	14	-	-	-	-	-
Ia.	14	27	133	54	86	-
Kans.	-	-	-	230	-	-
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	14	-	-
Md.	-	(n)	-	185	-	-
Mass.	-	-	-	106	-	-
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	96	1	-
Mont.	-	-	-	7	-	-
Nebr.	-	-	-	1	-	-
Nev.	-	-	-	17	-	-
N.H.	-	-	-	-	-	-
N.J.	33	-	-	8	-	-
N.M.	1	-	-	6	-	-
N.Y.	*	*	*	*	*	*
N.C.	-	-	-	2	-	-
N.D.	-	-	-	50	-	-
Ohio	-	-	-	194	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	175	-
Pa.	-	-	-	17	-	-
R.I.	-	-	-	200	-	-
S.C.	-	-	-	9	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	15	30 (o)	-
Utah	3	-	-	51	-	-
Vt.	-	-	-	11	-	-
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	48	1	-
Wisc.	300	-	163	1,483	-	-
Wyo.	-	-	-	3	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	600	10	450
V.I.	-	-	-	-	-	-

TABLE 9-2. NUMBER OF REPORTS ISSUED ON FIELD ACTIVITIES
(Continued)

	Consultation with:					Total Field Invest., Insp., or Cons.
	Professional Societies	Federal Agencies	State Agencies	County Agencies	City or Local Agencies	
Ala.	-	-	-	-	-	600
Alaska	-	-	-	-	-	6
Ariz.	-	-	-	-	-	150
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	*	-	-	-	5	426
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	176
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	14
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	300
Ind.	-	2	-	-	-	16
Ia.	-	-	-	-	-	314 (p)
Kans.	-	1	-	-	-	231
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	14
Md.	2	-	-	-	-	187
Mass.	6	3	2	-	-	121
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	97
Mont.	1	*	6	-	-	14
Nebr.	-	-	-	-	-	1
Nev.	-	-	-	-	-	17
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	41
N.M.	-	-	-	-	-	7
N.Y.	*	*	*	*	*	*
N.C.	-	-	-	-	-	2
N.D.	-	-	-	8	6	64
Ohio	-	1	-	-	-	195
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	175
Pa.	-	-	-	-	-	17
R.I.	-	-	-	-	-	200
S.C.	-	-	-	-	-	9
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	2	2	1	3	53
Utah	1	3	-	-	1	59
Vt.	-	-	-	-	-	11
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W. Va.	-	-	-	-	-	49
Wisc.	10	-	-	-	1	1,957
Wyo.	-	-	-	-	-	3
Guam	-	-	-	-	-	-
P.R.	30	100	350	10 (m)	(m)	1,550
V.I.	-	-	-	-	-	-

TABLE 9-3. NUMBER OF MAN-DAYS SPENT IN 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.	-	-	-	60	-	-
Alaska	-	-	-	15	4	-
Ariz.	-	-	-	280	-	2
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	180	80	-	250	-	50
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	40
Fla.	-	-	-	88	-	200
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	8	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	205	-	31
Ind.	14	-	-	-	-	-
Ia.	238	143	91	70	80	41
Kans.	-	-	-	116	-	46
Ky.	-	-	-	*	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	18	-	-
Md.	-	30	-	93	-	2
Mass.	-	-	-	80	-	-
Mich.	-	-	-	230	-	887
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	3
Mo.	-	-	-	33	1½	124
Mont.	-	-	-	15	-	-
Nebr.	25	-	-	1	-	80
Nev.	-	-	-	17	-	-
N.H.	-	-	-	-	-	-
N.J.	54	-	6	16	-	17
N.M.	*	*	-	3	-	-
N.Y.	*	*	*	*	*	*
N.C.	2	-	-	2	-	½
N.D.	-	-	-	80	-	-
Ohio	3	-	-	244	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	200	-
Pa.	-	-	-	8	-	-
R.I.	-	-	-	60	-	100
S.C.	-	-	-	9	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	-	1	10	5	1
Utah	8	-	-	61	-	40 (d)
Vt.	-	-	-	11	-	*
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	55	4	-
Wisc.	300	-	188	821	-	13
Wyo.	-	-	-	4	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	450	70	450
V.I.	-	-	-	-	-	-

TABLE 9-3. NUMBER OF MAN-DAYS SPENT IN FIELD ACTIVITIES
(Continued)

	Consultation with:					Total Field Invest., Insp., or Cons.
	Professional Societies	Federal Agencies	State Agencies	County Agencies	City or Local Agencies	
Ala.	-	-	-	-	-	60
Alaska	10	6	12	-	8	55
Ariz.	15	10	24	24	3	358
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	10	5	-	-	5	580
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	40
Fla.	-	-	-	-	-	288
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	-	-	8
Ida.	-	-	-	-	-	-
Ill.	4	5	22	5	4	276
Ind.	-	5	-	-	-	19
Ia.	-	-	-	-	-	663
Kans.	-	3	5	-	-	170
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	18
Md.	2	-	-	-	-	127
Mass.	21	15	28	-	-	199
Mich.	-	-	-	-	-	1,117
Minn.	-	-	-	-	-	-
Miss.	2	5	1	1	1	13
Mo.	3	3	2	2½	13	182
Mont.	1	*	-	-	-	16
Nebr.	-	-	20	4	-	130
Nev.	-	-	-	-	-	17
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	93
N.M.	2	*	*	*	*	5
N.Y.	*	*	*	*	*	*
N.C.	2½	1	1	1	-	10
N.D.	-	2	-	4	6	92
Ohio	-	5	2	-	-	254
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	200
Pa.	-	-	-	-	-	8
R.I.	12	20	45	-	-	237
S.C.	-	6	-	2	-	17
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	-	8	2	1	3	31
Utah	1	11	-	-	3	124
Vt.	-	-	-	-	-	11
Va.	*	*	*	*	*	*
Wash.	-	-	-	-	-	-
W. Va.	-	-	-	-	-	59
Wisc.	10	-	-	10	10	1,352
Wyo.	-	-	-	-	-	4
Guam	-	-	-	-	-	-
P.R.	60	120	350	70 (m)	(m)	1,570
V.I.	-	-	-	-	-	-

SECTION IX. FOOTNOTES

- (a) Premarital, Branch Laboratories, CLIA.
- (b) No accurate records maintained in these areas.
- (c) Consultation visits to Region V office as a member of Lake Michigan Interstate Pesticides Committee and as a member of Lake Michigan Enforcement Committee on laboratory analysis.
- (d) This figure represents 6-month period from January 1, 1971 - June 30, 1971. Prior data not available.
- (e) Aquatic nuisance control.
- (f) Numerous consultations are held with these groups throughout the year but no specific records are kept on these activities.
- (g) Meetings of committee sponsored by USDA to establish standards of facilities and procedures for State and Federal laboratories performing bacteriological examinations on meat products.
- (h) This category overlaps others, as many studies or field trips are done at request of or benefit for local, State, and Federal government agencies.
- (i) This does not include numerous consultations of the Director with governmental agencies.
- (j) One consultation was with International Agency, involving 4 reports issued, and 55 man-days spent in the activity.
- (k) Consultations continuously.
- (l) While these activities do occur, they are not singled out; therefore, no records are available.
- (m) County and local included together.
- (n) Instrument calibration.
- (o) Mostly reported by phone.
- (p) Includes only formal reports; does not include those many special field studies in reply to an individual inquiry.

SECTION X

MISCELLANEOUS INFORMATION

TABLE 10-1. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES

Year Present Lab Completed	Lab Space Increased FY 71- Net sq. ft. added	Planning Now in Progress (FY 72)	Planning Anticipated (FY 73)	Funds Appropriated For:		Architect Has Been Selected
				Planning	Construction	
Ala.	1954	X-4,300	X	-	-	-
Alaska	1937 (a)	-	-	X	-	-
Ariz.	1954	-	X	X	-	-
Ark.	1969	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	1967	-	-	-	-	-
Del.	1959	-	-	-	-	-
D.C.	1940	-	-	-	-	-
Fla.	1954 (b)	X-1,700	X (c)	-	X	X
Ga.	1960	-	-	-	-	-
Hawaii	1961	-	X	-	-	-
Ida.	1965	-	X (d)	-	X	X
Ill.	(e) (lost 4,950 sq. ft.)	-	X (f)	-	-	-
Ind.	1950	X-1,124	-	-	-	-
Ia.	1926	-	-	-	-	-
Kans.	1967 (g)	-	X	-	-	X
Ky.	1960	-	-	-	-	-
La.	1958	-	-	-	-	-
Me.	1969	-	-	-	-	-
Md.	1948	-	X	-	X	X
Mass.	1948 (h)	-	-	-	X	X
Mich.	1936-69 (i)	-	-	-	-	-
Minn.	1969	-	-	-	-	-
Miss.	1959	-	-	-	-	-
Mo.	1939	-	-	-	-	-
Mont.	1955	-	-	-	-	-
Nebr.	1931-67	-	X	-	X	X
Nev.	1963	-	X	-	-	-
N.H.	1943	-	X	-	X	X
N.J.	1969	-	-	-	-	-
N.M.	1937	-	-	-	-	-
N.Y.	1918-48	X-11,000	X	-	X	X
N.C.	1940	X-1,990	X	-	X	X
N.D.	1968	-	-	-	-	-
Ohio	1971	X-56,755	-	-	-	-
Okla.	*	-	-	-	X	X
Ore.	1951	-	-	X	-	-
Pa.	1951	-	X	-	X	X
R.I.	1935 (j)	-	X (k)	-	-	X
S.C.	1965	-	-	-	-	-
S.D.	1951	-	X	-	X	X
Tenn.	1954	-	-	-	-	-
Tex.	1958	-	-	-	-	-
Utah	1952	X-632	X	-	X	X
Vt.	1952	- (l)	-	-	-	-
Va.	1970	- (m)	-	-	-	-
Wash.	1965	X-2,836	-	-	-	-
W.Va.	1954	-	-	-	-	-
Wisc.	1953	-	X	-	X	X
Wyo.	1952	-	X	X	X	X
Guam	1969	-	X	-	X	X
P.R.	1952	-	X	-	-	-
V.I.	1960	-	X	X	X	X

TABLE 10-1. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES
(Continued)

	Construction Should Begin By:	Estimated Cost	Estimated Gross Sq. Ft.	Estimated Net Sq. Ft.	Lab to be a Separate Building	Planned Building to Replace Present Lab
Ala.	-	\$ -	-	-	X	- (n)
Alaska	FY 73	1,100,000	12,500	8,500	X	X (o)
Ariz.	FY 74	1,701,500	23,000	*	X	- (p)
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	FY 72	1,100,000	*	20,000	X	X
Ga.	-	-	-	-	-	-
Hawaii	?	?	?	?	X	X
Ida.	FY 72	120,000	*	1,700	X	X
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	?	?	75,000	43,000	?	X
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	FY 72	15,262,000 (q)	160,000 (r)	86,900	-	X
Mass. (Began FY 70)	-	12,025,199	193,000	155,000	X	X
Mich.	-	-	-	-	-	-
Minn.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	FY 72	880,000	25,366	4,200 (s)	X	X
Nev.	?	?	?	?	-	X
N.H.	Apr. 1971	2,540,000	40,000	36,000	X	X
N.J.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
N.Y. (Began 1969)	-	45,000,000	475,000	275,000	- (t)	X
N.C. (Began FY 71)	-	4,000,000	160,000	38,000 (u)	-	X
N.D.	-	-	-	-	-	-
Ohio	-	-	-	-	-	-
Okla. (Began FY 70)	-	1,922,000	57,310	41,564	-	X
Ore.	-	2,500,000	30,000	25,000	X	X
Pa.	FY 72	3,700,000	120,000	78,000	X	X
R.I.	FY 71	149,500 (v)	*	2,350 (v)	-	-
S.C.	-	-	-	-	-	-
S.D. (In progress)	-	346,000	4,800	2,880 (w)	-	- (w)
Tenn.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Utah	FY 73	1,132,000	26,656	18,216	X	X
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	FY 72	635,000	12,750	*	-	- (n)
Wyo.	FY 72	4,400,000	125,500	75,700	-	X
Guam	FY 72	222,000	5,694	4,742	-	X
P.R.	?	5,000,000	100,000	?	?	X
V.I.	1972	77,000	3,850	?	-	X (x)

TABLE 10-2. CHANGES DURING THE REPORTING YEAR AFFECTING INTERNAL RELATIONSHIPS
OF LABORATORY WITH OTHER UNITS OF GOVERNMENT

Ala.	-
Alaska	Effective September 1970, all Dairy and Food Quality Control Laboratory functions transferred to Department of Natural Resources, Division of Agriculture Laboratory in Palmer. Division of Public Health will only be involved with samples submitted for food poisoning or by sanitarians suspecting spoilage.
Ariz.	-
Ark.	-
Cal.	*
Colo.	*
Conn.	-
Del.	The new Health Service was established in Delaware on March 1, 1970, under the name "Department of Health and Social Services." The former State Board of Health is now a subdivision of the Department, and is called the Division of Physical Health. The title of the Laboratory Director was changed from "Director of Laboratories" to "Chief of Laboratory Services."
D.C.	-
Fla.	-
Ga.	-
Hawaii	-
Ida.	The implementation of charges for certain laboratory services has placed the relationship of the laboratory to other sections and divisions of the Department of Health on a more formal basis. Needs of the other divisions are better outlined than previously. Most federal agencies are paying for certain laboratory services.
Ill.	Laboratory services were drastically reduced due to a 41% cut in manpower and other budgetary restrictions. Routine diagnostic testing, available elsewhere, was curtailed; standard tests for syphilis were limited, and other tests, such as bacterial agglutinations and PKU screening, were virtually eliminated. The sanitary workload was markedly decreased. The newly established Environmental Protection Agency was made responsible for public water supplies (with the exception of fluoride testing), stream water, sewage effluents, and air pollution. This reduced Public Health's sanitary workload approximately 60%.
Ind.	-
Ia.	-
Kans.	-
Ky.	-
La.	-
Me.	-
Md.	Reorganization of State Department of Health and Mental Hygiene. Not yet completed.
Mass.	-
Mich.	-
Minn.	-
Miss.	-
Mo.	-
Mont.	- (Reorganization of Montana State Government coming up. Target date for Health Department is December 1971, when it will become Department of Health and Environmental Sciences).
Nebr.	- (Not until July 1, 1971 when Environmental Protection was removed).
Nev.	-
N.H.	-
N.J.	-
N.M.	-
N.Y.	*
N.C.	-
N.D.	Laboratory now involved in surveying laboratories for Bureau of Health Insurance.
Ohio	-
Okla.	-
Ore.	-
Pa.	-
R.I.	-
S.C.	-
S.D.	-
Tenn.	-
Tex.	-

TABLE 10-2. CHANGES DURING THE REPORTING YEAR AFFECTING INTERNAL RELATIONSHIPS
OF LABORATORY WITH OTHER UNITS OF GOVERNMENT
(Continued)

Utah	In 1967, the Department of Health became the Division of Health of the Department of Social Services and the Division of Laboratories became the Laboratory Section of the Bureau of Disease Control. On November 1, 1970, the Laboratory Section was given Bureau status and became directly responsible to the State Director of Health. On July 1, 1970, the toxicology performed by the Department of Agriculture was transferred to the Bureau of Laboratories.
Vt.	-
Va.	*
Wash.	-
W. Va.	-
Wisc.	-
Wyo.	-
Guam	-
P.R.	The Chemistry Analytical Laboratory is under an FDA joint program. The whole Laboratory is under the Secretary of Environmental Health and Consumer Protection.
V.I.	-

TABLE 10-3. 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	-	-	-
Ariz.	Multi-Course Short-Term Grant (PHS Training Grant) - project period September 1970 - May 1971, extended to November 17, 1971. For presenting courses in laboratory field on the following subjects: a. Laboratory Diagnosis of Intestinal Protozoa. b. Management Skills in the Clinical Laboratory; c. Laboratory Methods in General Medical Mycology.	Administered by the Laboratory Improvement Program, utilizing staff from within the Department, faculty from CDC and one outside consultant on a fee basis.	9,152
Ark.	Arkansas Laboratory Improvement Project (314e2)	*	*
Cal.	*	*	*
Colo.	*	*	*
Conn.	Federal Contract - Human Pesticide Monitoring.	3 chemists	47,853 (annual cost)
Del.	-	-	-
D.C.	-	-	-
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.	-	*

TABLE 10-3. 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>
	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	*
	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	Salmonella Research Grant from CDC - investigation of Salmonella in certain foods of animal origin.	2 microbiologists, 1 laboratory assistant	30,000 (salaries and supplies)
Ida.	1. Drug identification laboratory funded in part by a grant obtained through the U.S. Department of Justice, LEAA.	*	*
	2. Blood alcohol testing program funded by two grants obtained through the U.S. Department of Transportation, National Highway Safety Bureau.	*	*
	3. Laboratory services are provided to other State agencies under terms of memorandum agreements. During FY 1972, it is estimated that the Laboratory will receive \$15,000 in	1 half-time laboratory assistant	15,000 (estimated for FY 72)

TABLE 10-3. 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>
	payments from Fish and Game Department for mercury and water chemistry examinations. Payments received from other State agencies are minimal.		
	4. During FY 1972, the Laboratory expects to receive approximately \$10,000 through charges for work performed for Federal agencies. Approximately one-half of this amount will be in connection with water tests performed for the Forest Service.	*	10,000 (estimated for FY 72)
Ill.	-	-	-
Ind.	-	-	-
Ia.	1. Air Pollution - State Health Department. Monitors air quality.	2	22,918
	2. Water Pollution - State Health Department. BOD Program.	4	9,415
	3. Water Pollution - State Health Department. Limnological Surveys of Iowa waterways.	2	51,215
	4. Medicare Survey - State Health Department. Survey Laboratories and X-ray Units, Medicare Program.	2	38,756
	5. Radiological Health - State Health Department. Radiological Health Field Studies and Surveillance.	3	25,800
	6. Breath Alcohol Program - Department of Public Safety - Alcohol, Traffic Safety	4	89,000
	7. Industrial Safety - Bureau of Labor - Industrial Hygiene Program.	2	33,670
	8. Arbovirus Program - CDC (Arbovirus Unit). Collect, study and culture mosquitoes for Arbovirus.	3	2,464
	9. Pesticide Studies - Conservation Commission - Pesticide Surveillance and fish kill determinations, etc.	2	10,000
	10. Laboratory Improvement Program - HSMHA - Second year funding of continuing education grant that terminated 3 years early.	3	70,321
Kans.	1. Title of Grant: "Drinking Driver Identification and Control Surveillance Program." Funds used to purchase a Beckman Gas Chromatograph and equipment for determination of alcohol in blood and breath of drinking drivers.	*	7,800 (one-half Federal, one-half State funds)

TABLE 10-3. 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. Grant for use in Pesticide Program. Approximately \$9,000 spent on remodeling of laboratory and \$2,000 on equipment and supplies.	*	11,000 (mostly Federal funds)
Ky.	The Kentucky State Department of Health received a Medical Examiners Service Project Grant through the Kentucky Crime Commission.	*	Budget for this program: A. Personnel - \$58,942 B. Equipment - 4,000 C. Travel - 3,391 D. Supplies & Operating Expenses - 2,000 E. Consultants & Contracts - 15,000
	This project is designed to establish a Medical Examiner Services and Post Mortem Examination Section in the State Department of Health in order to provide medical assistance to coroners in investigating deaths; to plan provision for laboratory facilities for performing autopsies and investigations; and provide for the keeping of reports of all investigations and examinations. The grant provides for the employment of a forensic pathologist as director of the Medical Examiner Program and a toxicologist.		Total 83,333
La.	-	-	-
Me.	1. EPA Pesticides Surveillance Contract - surveillance of air, water, etc. for pesticides residue.	3	25,000 (annual cost)
	2. Two Maine horse racing commissions - testing horse urine and saliva for evidence of drugs.	3	20,500 (annual cost)
	3. Federal Department of Transportation, through Maine Highway Commission, implied consent blood alcohol law testing.	3	21,000 (annual cost)
	4. Law Enforcement Agencies and State Medical Examiners (State, County, local), drug identification and toxicology.	3	27,500
Md.	1. State Vocational Rehabilitation Services for assembly of certain specimen marking kits.	*	*
	2. University of Maryland for tissue examination.	*	*
Mass.	1. Health Services General Project Grant under 314(e)(1): Clinical Laboratory Improvement and Evaluation in the Commonwealth of Massachusetts. Grant ends 2/29/72.	8	66,375
	2. Special Project in Maternal and Child Health - Mental Retardation: Program for Detection of Inborn Errors of Metabolism.	15	159,320
	3. Factors Affecting Potency Tests of Pertussis Vaccine - ends 10/31/71.	*	1,784

TABLE 10-3. 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>
	4. Soluble Pertussis Vaccine Development and Production - ends 11/30/71.	*	7,966
	5. Bacteriological Development and Testing - ends 5/31/72.	*	6,870
Mich.	1. Cancer Contract - Federal, NIH	4	42,655
	2. Anthrax - Botulinum - Federal, CDC (36 months)	3	158,220
	3. Blood Derivatives Program - Red Cross	2	28,000
	4. Laboratory Services - Kent County	3	43,136
	5. Inactivation of Rabies Virus - Federal, NIH/NIAID - (2 years)	3	89,400
	6. Pesticides Study - Federal, EPA	14	215,565
	7. Preparation of IGA for Clinical Evaluation in Man - Private (hospital)	1	13,700
	8. Rubella Testing Program - Federal and Interdepartmental	1	7,750 and Fringe
	9. Alcohol Testing Program - Federal thru State Police	1	17,100
	10. Forensic Services Expansion - Federal and State Police	8	105,500
Minn.	-	-	-
Miss.	-	-	-
Mo.	1. Service Agreements: Informal only - Missouri Department of Agriculture - milk products, testing and training.	Environmental bacteriology staff in central and district laboratory.	(cost not available)
	2. Missouri University Veterinary School - Enteric Bacteriology is training a microbiologist to supplement a federal grant they have entitled "Detection of relationship of antibiotic feeding in animals to the health of man."	Microbiology staff in central laboratory.	*
Mont.	Beginning July 1, 1971, Laboratory has responsibility for Quality Control of Alcohol Analysis under "Implied Consent." This includes setting up alcoanalyzers in police stations, headspace analysis in the State laboratory and expert testimony.	40% of Medical Technologist II Laboratory Surveyor's time and full-time Chemist II.	72,137 (Highway Safety Funds made available for FY 72. In addition, travel expenses will be paid).
Nebr.	-	-	-
Nev.	1. Indian Service - Clinical procedures, water analyses, TB cultures, miscellaneous cultures, parasitology, PKU screening.	*	*
	2. Desert Research Institute - water samples for bacterial and chemical analyses.	*	*
	3. Fish and Game - water samples for chemical analysis.	*	*
	4. Veterans Administration Hospital - TB cultures, milk and water samples for bacteriology.	*	*

TABLE 10-3. 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. Nevada State Hospital - Bacteriology and Parasitology.	*	*
	6. Washoe County Health Department - Syphilis Serology, Urinalysis, Blood grouping and Rh.	*	*
	7. Clark County Health Department - Water Resources Project.	*	*
	8. Program Head Start - CBC, Urinalysis, Sickle Cell screening, PKU screening.	*	*
N.H.	-	-	-
N.J.	1. NIH - Hepatitis.	*	233,798
	2. Department of Environmental Protection (water pollution).	*	47,577
	3. State of Delaware (water pollution).	*	9,401
	4. Delaware River Basin Commission (water pollution).	*	20,000
N.M.	Streptococcus program.	*	*
N.Y.	*	*	*
N.C.	-	-	-
N.D.	1. State Tuberculosis Sanitarium.	½	3,200
	2. Indian Health Service.	1½	16,000
Ohio	Department of Natural Resources - water analyses (Chemical and Bacteriological).	*	(no cost or staff estimates available)
	Attorney General's Office - water chemical analyses.	*	*
Okla.	-	-	-
Ore.	-	-	-
Pa.	A Service Purchase Contract has been established with a private laboratory to examine specimens in relation to a syphilis serology activity. A charge of .34 per patient specimen is involved.	-	12,240 (annual contractual amount)
R.I.	-	-	-
S.C.	-	-	-
S.D.	Contract with Indian Health Service for replacement of specimen outfits misused.	*	1,600
Tenn.	-	-	-
Tex.	1. State Inter-Agency Contracts:	9 full-time plus 2 part-time	
	Texas Water Development Board		31,030
	Texas Water Quality Board		92,818
	Texas Animal Health Commission		585
	Texas Highway Department		113
			<u>124,546</u>
	2. Department Agreement: Veterinary Public Health (meat analyses)	1	9,153

TABLE 10-3. 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>
Utah	1. Law Enforcement Grant - Drug Identification and Blood Analysis.	2 chemists part-time.	\$ 4,727
	2. Community Pesticide Study Contract - Pesticide Effects on Two Population Groups.	3 chemists, 2 laboratory assistants.	160,000
Vt.	-	-	-
Va.	*	*	*
Wash.	Two junior colleges and one hospital agreed to let laboratory use facilities for field workshops.	The hospital technologists donated approximately 2 man-days in setting up facilities and equipment for the laboratory.	30 charged by one college for custodial service. There was no charge for the other 2 locations.
W.Va.	-	-	-
Wisc.	1. Residents in pathology from University of Wisconsin rotate through anatomic pathology, i.e., tissue and cytology for training 4 months each.	All staff in tissue and cytology units are involved in the training.	*
	2. "Development of small laboratory computer for laboratory evaluation and Medicare purposes" (Research Contract).	3 full-time	35,000 (per year)
	3. Alcohol Implied Consent Testing - Wisconsin Law Enforcement Alcohol Testing.	1	20,000 (per year)
	4. USPHS: "Study of Proficiency Testing of Clinical Laboratories Within the State of Wisconsin."	*	*
	5. Private: Virus Inhibition Assay of Experimental Products.	*	3,000
Wyo.	-	-	-
Guam	-	-	-
P.R.	1. Highway Safety Commission. Grant for alcohol determination in blood. (2,000 tests).	3	95
	2. Highway Safety Commission. Grant for alcohol research. (750 tests).	1	25,000
	3. Pharmacology division. School of Medicine. Grant for antibiotic testing. (110 tests).	1	2,500
V.I.	-	-	-

TABLE 10-4. LABORATORY NEWSLETTERS

	Laboratory Publishes A Newsletter	Title	Frequency of Publication
Ala.	-	-	-
Alaska	-	-	-
Ariz.	X	Lab Bull	Monthly
Ark.	-	-	-
Cal.	*	*	*
Colo.	*	*	*
Conn.	X	Connecticut Clinical Laboratory Newsletter	Bimonthly
Del.	-	-	-
D.C.	-	-	-
Fla.	-	-	-
Ga.	-	-	-
Hawaii	-	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	-	-	-
Ia.	X	Laboratory HOTLINE	Monthly
Kans.	-	-	-
Ky.	-	-	-
La.	-	-	-
Me.	- (y)	-	-
Md.	-	-	-
Mass.	X	Laboratory News	Quarterly
Mich.	X	Michigan Laboratory News	Quarterly
Minn.	-	-	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	X	Laboratory Bulletin	Monthly
Nebr.	-	-	-
Nev.	X	Laboratory - Oratory	Bimonthly
N.H.	-	-	-
N.J.	-	-	-
N.M.	-	-	-
N.Y.	*	*	*
N.C.	-	-	-
N.D.	-	-	-
Ohio	-	-	-
Okla.	-	-	-
Ore.	-	-	-
Pa.	X	Public Health Laboratory Circular	Irregular
R.I.	-	-	-
S.C.	X	Newsletter	Monthly
S.D.	-	-	-
Tenn.	-	-	-
Tex.	X	Regional Public Health Laboratory	Irregular
Utah	X	Laboratory News	Bimonthly
Vt.	X	Current Laboratory Items	Irregular
Va.	*	*	*
Wash.	-	-	-
W.Va.	-	-	-
Wisc.	X	Laboratory Newsletter	Monthly
Wyo.	-	-	-
Guam	-	-	-
P.R.	X	*	Bimonthly
V.I.	-	-	-

SECTION X. FOOTNOTES

- (a) This represents Juneau (Southeastern Regional Laboratory); Anchorage (Southcentral Regional Laboratory) completed 1962; and Fairbanks (Northern Regional Laboratory), 1963.
- (b) Central Laboratory at Jacksonville. Regional Laboratories completed as follows: Miami, 1958; Tallahassee, 1950; West Palm Beach, 1953; Orlando, 1957; Pensacola, 1965; and Tampa, 1966.
- (c) Replacement of Miami Branch Laboratory.
- (d) These answers apply to regional laboratory at Coeur d'Alene. Request for 4,800 sq. ft. addition to Central Laboratory at Boise was turned down by the 1971 Legislature. Request will again be put in for FY 1973.
- (e) 40-50 years ago.
- (f) Construction completed. To be occupied when funds are available. This newly constructed building will replace the Central Laboratory facility in Chicago.
- (g) This is General Laboratory. Environmental Laboratory is very old and was rearranged in the Fall of 1970 to accommodate space for Air Quality Control Laboratory.
- (h) Began occupancy of existing building in 1948.
- (i) There are 19 buildings in the laboratory complex that were constructed during this period.
- (j) Partial enlargement and modernization 1967, 1968, 1969.
- (k) Expansion in the present building.
- (l) The Legislature has provided funds for improvement of present laboratory facilities - \$100,000 for air and temperature control.
- (m) Net gain in space during FY 1970 was 10,000 sq. ft.
- (n) Addition to present laboratory.
- (o) Laboratory planning for SE Regional Laboratory (Juneau) still in state of flux. Present quarters are to be demolished in August 1972.
- (p) Addition to, with remodeling of present structure, will give a total of 33,000 sq. ft.
- (q) Includes part of a 3-level underground parking area.
- (r) Portion of the multi-story complex to be occupied by the Laboratory.
- (s) Net health laboratories plus office and storage.
- (t) Separate area beneath a tower office building.
- (u) Estimated net sq. feet is for laboratory, not entire building.
- (v) Costs: 1971, \$76,000 and 1972, \$73,500. Net new space: 1971, 1,150 sq. ft., 1972, 1,200 sq. ft.
- (w) Addition to present laboratory is in progress. The 2,880 net sq. ft. added to the old net of 5,700 sq. ft. will give a net total of 8,580 sq. ft.
- (x) Replace and addition.
- (y) Planned for FY 72.

SECTION XI

DIAGNOSTIC WORKLOAD

TABLE 11-1. DIAGNOSTIC BACTERIOLOGY: CORYNEBACTERIUM DIPHTHERIAE AND STREPTOCOCCUS

	<u>Corynebacterium Diphtheriae</u>			<u>Streptococcus</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	854	1,559	116	31,802	41,074	6,179
Alaska	9	9	-	7,559	9,927	822
Ariz.	278	880	41	11,077	12,412	2,177
Ark.	134	268	-	4,427	10,138	1,060
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	201	201	-	253,922	330,232	43,136
Del.	332	996	*	458	*	78
D.C.	47	141	*	3,134	6,268	213
Fla.	15,920	15,920	116	17,725	17,725	3,697
Ga.	393	393	40	12,715	14,868	3,281
Hawaii	9	2	-	41,398	51,118	6,895
Ida.	5	24	-	4,652	5,512	692 (a)
Ill.	1,518	1,521	-	43,471	43,508	6,444
Ind.	66	66	1	-	-	-
Ia.	112	120	3	20,023	26,183	4,584
Kans.	29	29	-	13,856	27,712	3,482
Ky.	-	-	-	5,848	11,614	1,356
La.	1,232	3,560	105	17,344	52,005	6,683
Me.	2	2	-	21,350	25,350	3,607 (a)
Md.	(b)	53,655	20	53,655	53,655	11,984 (c)
Mass.	5	5	*	235,176	280,629	48,850
Mich.	19 (d)	240	1	134,226	134,337	24,210
Minn.	1,509	1,513	1	149	180	149
Miss.	98	100	2	47,511	95,022	4,869
Mo.	-	-	-	28,382	62,711	5,437
Mont.	28	30	2	1,449	1,449	319 (a)
Nebr.	10	20	1	841	997	147
Nev.	3	3	1	198	919	14
N.H.	391	564	-	33,286	33,381	6,403
N.J.	29	29	-	15	15	1
N.M.	106	106	-	732	732	88
N.Y.	15	15	-	6,539	6,533	1,390
N.C.	(e)	(e)	(e)	38,475 (f)	50,950 (f)	10,388 (f)
N.D.	45	45	-	19,052	42,893	3,244
Ohio	329	329	-	94,102	113,223	19,015
Okla.	41	41	-	17,134	19,193	1,579
Ore.	94	98	3	48,330	68,723	10,257
Pa.	34	35	1	91	182	24
R.I.	20	60	-	23,159	46,318	2,821
S.C.	74	158	9	1,835	1,971	121
S.D.	4,761 (g)	5,025	23	(h)	4,529	956
Tenn.	42	42	-	93,626	93,626	17,506
Tex.	8,943	12,941	535	5,145	5,852	707
Utah	-	-	-	22,682	27,218	3,357
Vt.	24,877	24,877	-	24,877	24,877	4,147
Va.	2,107	2,107	-	42,670	48,330	8,761
Wash.	263	1,324	26	1,613	3,350	391
W.Va.	-	-	-	13,605	27,210	3,124
Wisc.	10	24	2	52,838	61,723	10,223
Wyo.	2	2	-	254,152	270,625	15,023
Guam	-	-	-	96	122	6
P.R.	26,971	26,971	-	3,086	3,086	180
V.I.	-	-	-	526	1,053	6

TABLE 11-2. DIAGNOSTIC BACTERIOLOGY: STAPHYLOCOCCUS AND VINCENT'S ANGINA

	Staphylococcus			Vincent's Angina		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	639	639	352	-	-	67 (1)
Alaska	7,521	7,521	803	1	1	-
Ariz.	23	34	*	-	-	-
Ark.	155	447	118	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	3,257	4,870 (j)	3,116	314	640	85
Del.	317	*	74	13	13	6
D.C.	15,544	46,377	*	-	-	-
Fla.	17,725	18,822	1,097	87,392	87,392	488
Ga.	-	66	50	44	44	11
Hawaii	2,800	2,800	2,365	2	2	1
Ida.	-	755	584	-	-	-
Ill.	3,520	4,254	1,978	432	432	182
Ind.	-	-	-	11	11	4
Ia.	1,527	1,527	790	70	70	16
Kans.	2,638	5,276	2,638	-	-	-
Ky.	945	2,173	1,176	-	-	-
La.	2,280	2,280	631	81	81	80
Me.	(k)	2,300	2,020	84	84	-
Md.	(b)	53,655	10,525	34	73	18
Mass.	(l)	-	-	-	-	-
Mich.	*	129,439	16,735	*	450	139
Minn.	113	113	113	3	3	1
Miss.	(e)	(e)	(e)	9	9	9
Mo.	-	-	-	-	-	-
Mont.	111	151	75 (m)	-	-	-
Nebr.	126	126	126	-	-	-
Nev.	103	284	50	-	-	-
N.H.	475	495	215	6	6	6
N.J.	51	51	9	1	1	-
N.M.	602	620	*	-	-	-
N.Y.	840	824	840	15	15	6
N.C.	(f)	(f)	(f)	11	11	4
N.D.	755	1,584	755	90	90	33
Ohio	3,513	7,785	633	23	23	1
Okla.	1,548	1,730	52	20	20	11
Ore.	61	113	49	1	1	-
Pa.	-	-	-	-	-	-
R.I.	186	372	168	34	34	23
S.C.	102	194	92	1	1	1
S.D.	-	-	-	(h)	3	1
Tenn.	2,180	2,180	1,970	31	31	15
Tex.	96	447	53	-	-	-
Utah	-	-	-	3	3	-
Vt.	24,877	24,877	3,199	<100	<100	<20
Va.	8,014	12,174	3,618	74	79	23
Wash.	(n)	(n)	86	-	-	-
W.Va.	613	613	45	2,478	2,478	10
Wisc.	2,426	2,426	2,426	74	22	22
Wyo.	2	*	1	-	-	-
Guam	99	219	20	-	-	-
P.R.	840	840	286	2	2	1
V.I.	526	1,053	43	-	-	-

TABLE 11-3. DIAGNOSTIC BACTERIOLOGY: DARKFIELD PREPARATIONS AND NEISSERIA GONORRHOEAE

	<u>Darkfield Preparations</u>			<u>Neisseria gonorrhoeae</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	6	6	-	69,822	74,312	9,370
Alaska	48	48	2	2,848	3,705	976
Ariz.	-	-	-	10,449	19,116	813
Ark.	-	-	-	727	1,276	133
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	9	9	1	25,362	25,826	2,180
Del.	32	32	6	6,700	13,400	1,343
D.C.	-	-	-	6,483	19,449	1,584
Fla.	490 (o)	490	112	129,743	129,743	20,458
Ga.	8	8	-	25,082	24,936	3,359
Hawaii	8	8	-	8,557	9,824	1,277
Ida.	30	30	-	11,810	12,404	1,403
Ill.	12	12	-	26,150	26,761	3,904
Ind.	-	-	-	12,191	12,191	1,402
Ia.	-	-	-	4,074	4,112	443
Kans.	-	-	-	13,878	14,058	1,295
Ky.	-	-	-	12,468	12,745	1,275
La.	20	20	6	22,673	22,673	7,955
Me.	-	-	-	8,269	8,669	1,957
Md.	13	13	*	106,885	106,885	11,294
Mass.	-	-	-	13,321	13,838	1,636
Mich.	67	67	5	99,419	99,373	6,368
Minn.	17	17	2	11,599	11,840	1,349
Miss.	-	-	-	2,191	2,191	290
Mo.	-	-	-	5,884	13,254	936
Mont.	-	-	-	820	910	143
Nebr.	13	13	3	2,090	2,162	394
Nev.	113	113	14	13,651	15,812	2,394
N.H.	11	18	-	2,078	2,078	321
N.J.	-	-	-	21,757	23,452	3,417
N.M.	32	32	*	6,265	6,265	1,664
N.Y.	-	-	-	11	11	-
N.C.	1	1	-	6,463	6,462	2,003
N.D.	11	11	11	1,430	1,430	298
Ohio	2	2	-	8,137	8,137	1,262
Okla.	22	22	3	9,735	10,883	1,824
Ore.	21	19	-	8,022	7,920	980
Pa.	-	-	-	1,767	245	245 (p)
R.I.	2	2	1	4,670	4,670	369
S.C.	122	122	10	15,956	16,503	4,997
S.D.	-	-	-	1,452	1,837	288
Tenn.	-	-	-	164	164	12
Tex.	3,361	3,721	446	83,635	107,947	17,845
Utah	-	-	-	2,742	2,742	211
Vt.	10	10	1	3,431	6,834	343
Va.	-	-	-	21,126	21,132	3,093
Wash.	77	77	5	7,704	10,226	1,151
W.Va.	5	5	2	6,037	6,413	762
Wisc.	71	71	-	8,221	11,364	844
Wyo.	-	-	-	350	350	59
Guam	-	-	-	41	61	14
P.R.	-	-	-	5,599	5,599	299
V.I.	20	20	8	1,131	1,198	454

TABLE 11-4. DIAGNOSTIC BACTERIOLOGY: MYCOBACTERIUM

	Specimens	Exams	Positives	
			Myco. Tuberculosis	Myco., Atypical
Ala.	58,735	297,104	4,305	2,667
Alaska	16,896	29,659	233	-
Ariz.	16,688	32,188	1,009	506
Ark.	18,896	60,780	738	277
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	7,260	33,568	449	129
Del.	-	-	-	-
D.C.	5,375	51,250	150	13
Fla.	63,638	184,771	1,774	3,004
Ga.	40,602	79,544	1,186 (q)	435
Hawaii	8,493	27,421	102	366
Ida.	1,766	9,372	233	10
Ill.	9,669	38,275	482	384
Ind.	6,677	42,781	541	314
Ia.	6,786	39,358	396	2,621
Kans.	7,870	41,746	307	551
Ky.	14,740	75,327	1,828	334
La.	54,637	243,391	1,582	2,255
Me.	2,849	18,217	271	76
Md.	25,610	50,185	1,428	826
Mass.	*	*	276	217
Mich.	14,844	60,979	2,135	540
Minn.	12,997	61,479	358	122
Miss.	25,356	101,424	875	414
Mo.	-	-	-	-
Mont.	2,333	8,159	97	40
Nebr.	918	4,798	79	32
Nev.	3,289	9,586	75	38
N.H.	6,694	9,543	22	5
N.J.	24,464	143,188	2,216	1,013
N.M.	6,754	19,553	398	41
N.Y.	*	13,950	567	125
N.C.	18,768	75,976	515	558
N.D.	5,819	18,526	90	9
Ohio	13,843	107,415	468	116
Okla.	9,491	29,792	625	195
Ore.	4,435	9,801	*	*
Pa.	23,520	117,600	1,654	641
R.I.	1,849	3,698	64	12
S.C.	16,726	58,717	2,564	529
S.D.	4,567	13,939	634	-
Tenn.	38,486	121,830	2,792	1,627
Tex.	33,135	266,796	3,923	1,614
Utah	2,508	10,366	48	4
Vt.	3,340	*	121	32
Va.	26,333	106,058	1,828	1,280
Wash.	5,830	32,872	189	135
W.Va.	15,068	29,282	510	498
Wisc.	8,183	29,668	578	400
Wyo.	302	904	19	3
Guam	1,408	4,224	427	6
P.R.	-	-	-	-
V.I.	565	1,130	12	17

TABLE 11-5. DIAGNOSTIC BACTERIOLOGY: ENTERIC

	Specimens	Exams	Positives			
			Salmonella	Shigella	<u>E. coli</u>	Other
Ala.	6,741	24,159	562	130	145	33
Alaska	2,840	6,885	71	34	135	-
Ariz.	1,569	4,061	395	277	50	6
Ark.	4,273	25,998	287	46	9	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	9,612	61,772	1,003 (r)	185 (r)	94 (r)	155 (r)
Del.	600	1,800	48	4	29	-
D.C.	1,027	5,135	200	58	24	228
Fla.	41,140	129,784	1,159 (s)	248	16 (t)	(t)
Ga.	27,952	51,575	1,397	956	28	-
Hawaii	29,210	62,024	1,071	2,613	54	-
Ida.	961	1,563	93	35	15	2
Ill.	5,920	36,648	2,080	942	220	30
Ind.	2,301	3,976	414	70	41	-
Ia.	1,703	6,812	409	123	21 (u)	370
Kans.	15,431	68,668	622	1,560	297	545
Ky.	1,659	6,425	196	62	-	-
La.	35,970	150,132	490	83	65	-
Me.	1,601	7,604	102	14	44	-
Md.	8,679	45,404	1,598	808	78	-
Mass.	13,019	*	2,155	641	134	1 (v)
Mich.	19,764	37,404	1,063	86	12	79
Minn.	5,600	22,696	413	387	28	5 (v)
Miss.	5,328	5,722	158	63	*	-
Mo.	1,473	54,880	302	170	2	171
Mont.	1,111	6,664	216	108	-	-
Nebr.	632	2,178	70	-	-	-
Nev.	336	4,254	19	20	24	295
N.H.	1,548	6,246	84	33	3	72
N.J.	5,124	18,200	541	101	110	3 (v)
N.M.	7,530	*	467	952	*	32 (w)
N.Y.	2,772	2,761	68	193	109	788
N.C.	4,827 (x)	10,732	776 (y)	207	27	13 (v)
N.D.	3,590	14,275	130	60	283	-
Ohio	3,417	24,720	147	71	10 (u)	-
Okla.	2,762	11,064	154	47	19	45
Ore.	2,231	4,297	338	58	20	2
Pa.	14,036	69,968	2,703	253	7	12
R.I.	2,507	12,535	217	89	4	-
S.C.	519	2,260	69	12	12	32
S.D.	1,972	5,255	114	161	2	1
Tenn.	9,403	39,456	539	188	6	-
Tex.	15,844	177,638	2,048	1,211	23	602
Utah	2,036	6,082	78	111	3	-
Vt.	684	*	56	10	4	17
Va.	11,189	25,129	396	15	-	-
Wash.	3,017	18,957	372	167	47 (u)	171
W.Va.	572	2,540	67	7	71	107
Wisc.	7,535	42,008	1,554	271	131	389
Wyo.	138	664	8	5	12	3
Guam	101	680	3	-	28	40
P.R.	*	*	-	5	12	1
V.I.	2,546	2,546	1	7	8	-

TABLE 11-6. DIAGNOSTIC BACTERIOLOGY: BACTERIOPHAGE TYPING AND BLOOD CULTURES

	<u>Bacteriophage Typing</u>			<u>Blood Cultures</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	-	-	-	36	781	33
Alaska	(z)	-	-	1	1	-
Ariz.	-	-	-	21	21	19
Ark.	-	-	-	30	90	19
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	3,276 (aa)	7,964	2,344 (aa)	47	47	7
Del.	-	-	-	12	60	4
D.C.	-	-	-	-	-	-
Fla.	1,591	3,182	1,591	40	46	3
Ga.	33	33	33	360	360	17
Hawaii	2,236	2,264	1,152	29	101	18
Ida.	-	-	-	6	6	-
Ill.	1,083	1,083	572	42	84	*
Ind.	587 (bb)	587	210	-	-	-
Ia.	394	394	394	56	448	30
Kans.	1,137	1,137	*	69	69	44
Ky.	1,729	1,788	1,091	-	-	-
La.	937	937	937	78	78	14
Me.	-	-	-	4	26	4
Md.	874	874	*	398	398	*
Mass.	*	*	12	*	*	61
Mich.	2,463	2,667	*	119	267	37
Minn.	3	3	3	106	231	19
Miss.	-	-	-	334	334	1
Mo.	-	-	-	-	-	-
Mont.	(z)	-	-	14	18	10
Nebr.	-	-	-	3	8	2
Nev.	-	-	-	15	75	3
N.H.	-	-	-	57	81	8
N.J.	-	-	-	2	2	-
N.M.	-	-	-	52	52	3
N.Y.	748	732	734	11	11	9
N.C.	-	-	-	(e)	(e)	(e)
N.D.	-	-	-	413	2,065	*
Ohio	-	-	-	-	-	-
Okla.	-	-	-	50	*	*
Ore.	-	-	-	39	85	*
Pa.	-	-	-	-	-	-
R.I.	-	-	-	10	40	2
S.C.	-	-	-	19	19	*
S.D.	-	-	-	150	154	6
Tenn.	-	-	-	20	20	1
Tex.	2,188	6,564	*	17	51	1
Utah	-	-	-	10	40	8
Vt.	386	1,444	*	<10	*	*
Va.	42	42	*	651	43	48
Wash.	-	-	-	3	(e)	-
W.Va.	-	-	-	11	33	6
Wisc.	-	-	-	114	570	11
Wyo.	-	-	-	1	1	-
Guam	-	-	-	1	8	-
P.R.	-	-	-	70	70	2
V.I.	-	-	-	147	147	8

TABLE 11-7. DIAGNOSTIC BACTERIOLOGY: SPINAL FLUID CULTURES AND WOUND CULTURES

	<u>Spinal Fluid Cultures</u>			<u>Wound Cultures</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	22	280	22	19	533	25
Alaska	1	1	1	417	417	316
Ariz.	13	13	13	31	31	31
Ark.	6	18	4	41	129	41
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	2	2	2	-	-	-
Del.	110	110	*	12	60	*
D.C.	-	-	-	-	-	-
Fla.	11	17	3	1,561	3,219	829
Ga.	44	44	8	154	154	45
Hawaii	16	28	13	106	119	106
Ida.	-	-	-	(e)	(e)	*
Ill.	37	222	*	63	378	*
Ind.	-	-	-	-	-	-
Ia.	34	192	29	775	7,750	680
Kans.	42	42	27	59	59	59
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	127	127	*	210	210	*
Mass.	*	*	36	*	*	107
Mich.	43	163	6	14,350	48,908	23,826
Minn.	44	96	8	*	*	*
Miss.	10	10	-	(e)	(e)	(e)
Mo.	-	-	-	-	-	-
Mont.	33	37	16	83	141	69
Nebr.	3	9	-	3	3	-
Nev.	1	5	1	5	30	4
N.H.	4	8	-	24	46	1
N.J.	4	4	1	1	1	-
N.M.	*	*	*	*	*	*
N.Y.	24	22	2	46	46	46
N.C.	(e)	(e)	(e)	(e)	(e)	(e)
N.D.	120	245	*	(e)	(e)	*
Ohio	-	-	-	-	-	-
Okla.	9	*	*	46	*	*
Ore.	35	91	*	160	315	*
Pa.	-	-	-	-	-	-
R.I.	4	16	-	186	744	1
S.C.	3	6	*	45	127	*
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	6	6	4
Tex.	2	12	-	-	-	-
Utah	21	84	7	26	117	22
Vt.	<10	*	*	<10	*	*
Va.	27	27	13	264	268	230
Wash.	6	(e)	-	19	(e)	15
W.Va.	4	24	3	2	18	2
Wis.	11	44	1	2,250	27,000	*
Wyo.	-	-	-	-	-	-
Guam	1	2	-	-	-	-
P.R.	5	5	-	51	51	41
V.I.	22	22	-	214	214	28

TABLES 11-1 - 11-7. FOOTNOTES

- (a) Group A.
- (b) Respiratory diagnostic cultures are examined for C. diphtheriae, streptococci (Group A and non Group A), coagulase positive staphylococci and other pathogens.
- (c) Group A, 8,883; non Group A, 3,101.
- (d) Figure represents branch laboratory only.
- (e) Included with miscellaneous bacteriology, Table 11-11.
- (f) Staphylococcus included with Streptococcus as one total.
- (g) Represents total nose and throat specimens.
- (h) Included with C. diphtheriae.
- (i) Incidental finding on 23,287 smears submitted for Neisseria gonorrhoeae.
- (j) Includes 1,613 coagulase positive staphylococci found in throat swab specimens submitted for streptococci.
- (k) From Streptococcus culture plates.
- (l) Included with referred cultures.
- (m) Includes 16 phage typing referred to CDC.
- (n) Counted under "Referred" and "Other."
- (o) Darkfield examinations performed in local health department clinics not included.
- (p) Number of positives based on gram morphology.
- (q) 1 M. bovis.
- (r) Includes referred cultures.
- (s) Includes 35 S. typhosa.
- (t) "Other" included with "E. coli."
- (u) Enteropathogenic.
- (v) Arizona.
- (w) Typhoid, 31.
- (x) Includes 103 food samples.
- (y) Includes 34 Salmonella typhi.
- (z) Referred to CDC.
- (aa) Staphylococcus bacteriophage typing, 3,257 specimens, 2,325 positives; S. typhi bacteriophage typings, 19 specimens, 19 positives.
- (bb) Staphylococcus.

TABLE 11-8. DIAGNOSTIC BACTERIOLOGY: DENTAL CARIES CULTURES AND ANAEROBIC CULTURES

	<u>Dental Caries Cultures</u>			<u>Anaerobic Cultures</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	-	-	-	488	8,483	81
Alaska	-	-	-	328	328	24
Ariz.	-	-	-	*	*	22
Ark.	-	-	-	69	201	62
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	-	274	274	12
Del.	-	-	-	1	5	*
D.C.	-	-	-	-	-	-
Fla.	1,372	1,372	-	490	1,432	471
Ga.	-	-	-	-	-	-
Hawaii	-	-	-	74	168	54
Ida.	-	-	-	21	30	*
Ill.	81	81	81 (a)	898	898	83
Ind.	-	-	-	-	-	-
Ia.	-	-	-	(b)	-	-
Kans.	-	-	-	839	839	101
Ky.	-	-	-	-	-	-
La.	15	15	15	-	-	-
Me.	-	-	-	43	208	38
Md.	-	-	-	(c)	-	-
Mass.	-	-	-	(d)	-	-
Mich.	5,692	5,358	*	411	2,055	411
Minn.	-	-	-	197	671	80
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	7	7	-	196	220	101
Nebr.	770	1,540	*	1	4	1
Nev.	1	5	1	60	300	45
N.H.	-	-	-	10	27	1
N.J.	-	-	-	58	58	51
N.M.	1	1	1	*	*	*
N.Y.	-	-	-	103	103	103
N.C.	(e)	(e)	(e)	(e)	(e)	(e)
N.D.	-	-	-	964	4,815	*
Ohio	-	-	-	205 (f)	3,075	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	134	402	134
R.I.	-	-	-	33	132	20
S.C.	-	-	-	24	48	*
S.D.	-	-	-	1	-	-
Tenn.	20	20	14	1	1	*
Tex.	-	-	-	160	3,200	*
Utah	-	-	-	20	96	18
Vt.	-	-	-	<10	*	*
Va.	62	55	50	84	84	-
Wash.	-	-	-	(g)	(g)	81
W.Va.	198	198	67	41	246	8
Wisc.	-	-	-	780	15,600	780
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	61	74	8

TABLE 11-9. DIAGNOSTIC BACTERIOLOGY: ANTIBIOTIC SENSITIVITY AND ANIMAL INOCULATION

	Antibiotic Sensitivity			Animal Inoculation		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	62	307	*	115	115	64
Alaska	2,775	2,775	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	913 (h)	913	-	6	30	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	-	-	-	-
Del.	110	550	*	-	-	-
D.C.	78	78	-	-	-	-
Fla.	1,231	3,693	1,225	-	-	-
Ga.	873	873	*	-	-	-
Hawaii	623	623	181	2	2	-
Ida.	599	599	*	-	-	-
Ill.	-	-	-	70	70	*
Ind.	-	-	-	-	-	-
Ia.	2,671	2,671	2,671	841	3,522	*
Kans.	898	898	*	-	-	-
Ky.	1	1	-	-	-	-
La.	3,330	3,330	3,330	-	-	-
Ma.	-	-	-	-	-	-
Md.	*	9,080	*	-	-	-
Mass.	-	-	-	*	*	6
Mich.	*	29,794	*	397	397	*
Minn.	-	-	-	111	111	52
Miss.	443	2,658	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	40	42	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	397	397	*	-	-	-
N.H.	416	2,525	-	-	-	-
N.J.	-	-	-	2	2	-
N.M.	317	317	317	1,927	1,927	25
N.Y.	104	104	-	-	-	-
N.C.	(e)	(e)	(e)	(e)	(e)	(e)
N.D.	6,528	19,584	*	-	-	-
Ohio	170	170	-	74	74	-
Okla.	4	*	*	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	60	480	60	150	300	1
S.C.	98	98	*	1	1	*
S.D.	*	137	-	-	-	-
Tenn.	-	-	-	1	1	-
Tex.	-	-	-	*	*	*
Utah	27	27	27	-	-	-
Vt.	-	-	-	<10	*	*
Va.	64	64	-	18	18	-
Wash.	(g)	323	-	-	-	-
W.Va.	257	326	*	2	8	*
Wisc.	4,532	4,532	*	-	-	-
Wyo.	1	1	*	-	-	-
Guam	100	100	-	-	-	-
P.R.	1,505	1,505	-	-	-	-
V.I.	520	690	420	-	-	-

TABLE 11-10. DIAGNOSTIC BACTERIOLOGY: URINE CULTURES AND REFERRED CULTURES

	Urine Cultures			Referred Cultures		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	33	1,147	40	398	8,257	447 (l)
Alaska	1,413	1,413	423	-	-	-
Ariz.	46	46	46	93	93	*
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	457 (j)	457	457	830	1,132	824 (k)
Del.	83	415	*	-	-	-
D.C.	43,465	114,665	*	252	504	227
Fla.	2,786	2,786	*	3,414	6,828	*
Ga.	-	-	-	1,715	1,714	1,607
Hawaii	553	2,669	507	223	428	209
Ida.	(e)	(e)	*	378	438	*
Ill.	43	258	*	533	3,198	459 (l)
Ind.	-	-	-	634 (m)	*	634 (m)
Ia.	-	-	-	(g)	-	-
Kans.	470	470	*	492 (n)	492	492
Ky.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	198	894	*
Md.	9,247	9,591	*	634	634	*
Mass.	-	-	-	*	*	59
Mich.	13,310	17,918	13,329	4,081	5,135	1,549
Minn.	(o)	-	-	778 (p)	2,460	751
Miss.	330	330	*	-	-	-
Mo.	-	-	-	820 (q)	21,820	538 (q)
Mont.	68	98	58	259	352	333
Nebr.	-	-	-	58	282	58
Nev.	63	315	31	230	708	177
N.H.	358	714	32	82	173	12
N.J.	-	-	-	572	572	542
N.M.	-	-	-	716	716	*
N.Y.	5	-	-	688	688	688
N.C.	(e)	(e)	(e)	(e)	(e)	(e)
N.D.	3,247	9,741	*	(g)	(g)	*
Ohio	-	-	-	1,970 (r)	36,414 (r)	17 (r)
Okla.	59	*	*	75	*	*
Ore.	50	104	*	-	-	-
Pa.	-	-	-	1,000	4,000	1,000
R.I.	1,388	6,940	1,250	317	1,268	317
S.C.	42	42	*	247	741	*
S.D.	-	-	-	390	604	178
Tenn.	-	-	-	2,241	2,241	1,387
Tex.	4	24	-	724	30,535	-
Utah	7	33	6	67 (s)	*	*
Vt.	40	*	*	254	508	254
Va.	-	-	-	1,472	1,578	499
Wash.	(e)	(e)	*	597	19,104	*
W.Va.	152	456	*	32	*	*
Wisc.	1,380	6,838	526	1,198	29,950	*
Wyo.	1	5	*	5	18	*
Guam	80	500	36	12	163	10
P.R.	1,514	1,514	1,198	-	-	-
V.I.	678	678	138	-	-	-

TABLE 11-11. DIAGNOSTIC BACTERIOLOGY: MISCELLANEOUS

	Specimens	Exams	Positives
Ala.	-	-	-
Alaska	2,569	2,569	1,719
Ariz.	763	763	*
Ark.	-	-	-
Cal.	*	*	*
Colo.	*	*	*
Conn.	2,411 (t)	3,708 (t)	310 (t)
Del.	-	-	-
D.C.	157	471	42
Fla.	1,207 (u)	2,171	*
Ga.	-	-	-
Hawaii	2,603 (v)	11,848	2,341
Ida.	706	715	*
Ill.	898 (w)	4,490	738 (w)
Ind.	94 (x)	94	28
Ia.	635	6,350	568
Kans.	770 (n)	770	770
Ky.	-	-	-
La.	14,796 (y)	14,796 (y)	-
Me.	-	-	-
Md.	4,543 (z)	4,543	*
Mass.	30	*	16 (aa)
Mich.	-	-	-
Minn.	-	-	-
Miss.	1,334	1,334	1,035 (bb)
Mo.	-	-	-
Mont.	317 (cc)	484	252
Nebr.	19	57	9
Nev.	143 (dd)	726 (dd)	27 (dd)
N.H.	-	-	-
N.J.	150 (ee)	150	6
N.M.	-	-	-
N.Y.	667	667	-
N.C.	3,210	9,086	2,303 (ff)
N.D.	3,525 (gg)	17,805	*
Ohio	2 (hh)	2	-
Okla.	207	*	*
Ore.	106	238	*
Pa.	-	-	-
R.I.	-	-	-
S.C.	348	688	*
S.D.	255	452	4
Tenn.	-	-	-
Tex.	-	-	-
Utah	-	-	-
Vt.	-	-	-
Va.	-	-	-
Wash.	596 (ii)	3,339 (ii)	37 (ii)
W.Va.	138 (jj)	*	*
Wisc.	2,157 (kk)	2,157 (kk)	475 (kk)
Wyo.	-	-	-
Guam	105 (ll)	896	45
P.R.	348 (mm)	348	190
V.I.	-	-	-

TABLES 11-8 - 11-11. FOOTNOTES

- (a) Lactobacillus counts.
- (b) Anaerobic cultures are routinely set up on all miscellaneous bacteriology cultures. (Half of the organisms isolated from wounds are obligate anaerobes).
- (c) Not tabulated separately; done routinely on all miscellaneous cultures.
- (d) Included with Referred Cultures.
- (e) Included with miscellaneous bacteriology, Table 11-11.
- (f) Referred.
- (g) Included in other categories.
- (h) TB.
- (i) Includes general bacteriology isolations. Most numerous were: *Bacillus* species, 19; *Bacteroides* species, 14; *Clostridium perfringens*, 18; *Corynebacterium* species, 30; *Escherichia coli*, 61; meningitidis, group C, 14; staphylococci, coagulase positive, 17; staphylococci, coagulase negative, 35; streptococci, alpha, 19; streptococci, beta, group B, 10.
- (j) Laboratory standards.
- (k) The most numerous of these isolations were: *Bacillus* sp., 28; *Bacteroides fragilis*, 12; *Clostridium perfringens*, 23; *Corynebacterium* sp., 13; *Erwinia milletiae*, 17; *Escherichia coli*, 32; Gram negative rod, unclassified, 10; *Herbicola* - *lathyri* group, 12; *Herellea vaginicola*, 25; *Klebsiella pneumoniae*, 12; *Mima polymorpha*, 13; *Neisseria meningitidis*, group C, 16; *Pasteurella multocida*, 17; *Providencia stuartii*, 12; *Pseudomonas maltophilia*, 17; *Pseudomonas* sp., 60; *Serratia marcescens*, 19; *Staphylococcus* sp. (coagulase negative), 10; *Xanthomonas* sp., 12.
- (l) Organisms isolated included: *Bacillus* species, 12; *Corynebacterium acnes*, 16; *Corynebacterium* species, 10; *Haemophilus influenzae*, 14; *Haemophilus parainfluenzae*, 11; *Herellea vaginicola*, 15; *Neisseria gonorrhoeae*, 13; *Neisseria meningitidis*, group C, 15; *Neisseria meningitidis* (non group), 23; *Pasteurella multocida*, 11; *Pseudomonas* species, 30; *Escherichia coli*, 11; *Bacteroides fragilis*, 13; *Clostridium perfringens*, 19; *Peptostreptococcus* species, 11. Referred cultures for identification were from blood, throat, urine, spinal fluid, wound, sputum, genital sources, etc.
- (m) Represents 379 aerobic and 255 anaerobic cultures identified. Isolations included the following: *Bacillus* sp., 17; *Corynebacterium* sp., 32; *Haemophilus influenzae*, 21; *Herellea vaginicola*, 12; *Lactobacillus* sp., 13; *Neisseria meningitidis*, 14; Nonviable, 18; *Pasteurella multocida*, 16; *Pseudomonas aeruginosa*, 10; *Pseudomonas* species, 23; *Staphylococcus epidermidis*, 22; *Streptococcus*, beta, 34; *Streptococcus*, alpha, 10; *Bacteroides fragilis*, 40; *Clostridium perfringens*, 80; *Propionibacterium acnes*, 45.
- (n) Referred cultures and miscellaneous bacteriology specimens were from throat, nose, ear, eye, other body parts, blood, feces, urine, sputum, spinal fluid, pleural fluid, other body fluids, abscess, boil, incision, lesion, wound and miscellaneous.
- (o) Tabulated with Tuberculosis, Enteric, and Miscellaneous Bacteriology.
- (p) Miscellaneous bacteriology includes 804 referred cultures of enteric bacteriology (*Salmonella*, *Shigella*, enteropathogenic *E. coli* and saprophytes); 135 referred cultures of acid-fast bacilli, both *M. tuberculosis* and "unclassified" AFB; and 844 miscellaneous referred cultures from a variety of clinical specimens for identification. These included cultures of *Neisseria gonorrhoeae* for confirmation. There also were 178 specimens of various types such as body tissues and fluid (including blood, and spinal fluid), exudates and swabs taken of tissues and exudates for the isolation and identification of any aerobic or anaerobic bacteria present. There were occasional specimens such as checking blood serums for certain bacterial toxins, mushrooms submitted for identification, miscellaneous smears submitted for detection of AFB or other bacteria, commercial toys with fluid associated with illness following ingestion of the fluid. Sterility tests done on tuberculin produced for statewide distribution numbered 160 aerobic and 160 anaerobic cultures.

TABLES 11-8 - 11-11. FOOTNOTES
(Continued)

- (q) There were 537 reference cultures, exclusive of categories specified, received from other laboratories throughout the State for examination and identification, a service which increased 25% over last year. Of these, 60 cultures proved to be gram positive cocci, mostly Streptococci, originating from areas other than nose and throat. One anaerobe was included and the remainder of the cultures were identified as Staphylococci. There were 80 gram positive rods submitted and nearly half of these were anaerobic. There were 22 Corynebacterium species, two of which proved to be C. diphtheriae of the nontoxogenic variety, and one Listeria monocytogenes. The Mima - Herella group was listed with the gram negative cocci and 28 were identified. The remaining 42 cultures were of the Neisseria genus, two of which were extra-genital N. gonorrhoeae and 27 were N. meningitidis of several types. A wide variety of gram negative rods were examined. Various Bacteroides species accounted for 24 cultures; there was one atypical Brucella suis obtained from a blood culture; eight Pasteurella multocida cultures from several sources; two Salmonella typhimurium from other than fecal source; and one Vibrio fetus culture from an abscess.
- (r) Staphylococcus, 1,886 specimens, 36,330 exams; miscellaneous (largely enteric), 43 specimens, 43 exams; Listeria, 41 specimens, 41 exams, 17 positives.
- (s) There were 125 total referred cultures, with 58 listed under other categories.
- (t) Research Laboratory, 1,613 specimens, 2,882 exams; sensitivity tests (laboratory standards), 179 specimens, 179 exams, 179 positives; miscellaneous clinical specimens, 151 specimens, 170 exams, 64 positives; other, 468 specimens, 477 exams, 67 positives.
- (u) Includes eye, ear, pleural fluid, sputum, other fluids and exudate cultures, and miscellaneous smears.
- (v) Sputum, urethra, cervix, vagina, nasal, throat, eye, ear, fluid, peritoneal, lesion, pus, abscess, gastric, cyst, and 400 animal tissues and urine cultures for leptospiral.
- (w) Illinois reported miscellaneous bacteriological specimens as follows: smears for diagnosis, 28; smears for T. pallidum, 23; specimens for PPLO culture, 16. The most common sources of clinical specimens for culture were eye, skin, vagina, ear, blood, abscess, wound and sputum. The most numerous isolations were: Herellea vaginicola, 16; Neisseria gonorrhoeae, 16; Pseudomonas aeruginosa, 25; Staphylococcus aureus, 224; Staphylococcus epidermidis, 119; Staphylococcus species, 34; Streptococcus, alpha, 17; Streptococcus, beta, 76; Yeast-like organisms, 60; Enterobacter-Klebsiella group, 22; Escherichia coli, 34; Clostridium perfringens, 10.
- (x) Cultures for Neisseria gonorrhoeae.
- (y) Miscellaneous specimens and cultures.
- (z) Genital other than for GC, body fluids, eye, ear and skin, 4,511; Streptococcus grouping (done on referred cultures), 32.
- (aa) Environmental: Salmonella sp., 15; Salmonella heidelberg, 1.
- (bb) Staphylococcus, 818.
- (cc) Most numerous bacterial species identified in general diagnostic microbiology: Bacillus sp., 11; Bacteroides fragilis, 15; Clostridium perfringens, 23; Corynebacterium sp., 20; Escherichia coli, 68; Haemophilus influenzae, 16; Herellea vaginicola, 10; Klebsiella pneumoniae, 19; Mima polymorpha 14; Pseudomonas aeruginosa, 18; Staphylococcus aureus, 75; Staphylococcus epidermidis, 35; Streptococcus, alpha, 21; Streptococcus, Group A (other than from throat), 30; Streptococcus faecalis, 24.
- (dd) Food specimens, 39 specimens, 266 exams, 16 positives; animal feeds for Salmonella, 104 specimens, 460 exams, 11 positives.
- (ee) A total of 150 miscellaneous specimens were processed. Of these, 88 were tested for sterility (69 drugs and devices; 12 autoclave monitoring materials; 7 sera for Clinical Laboratory Improvement Program). In addition, 39 stools and urines related to foodborne outbreaks were cultured; 16 proficiency evaluation specimens were processed; 7 autopsy culture referrals from Virology Program were studied.

TABLES 11-8 - 11-11. FOOTNOTES
(Continued)

- (ff) Includes 36 anaerobic, 2,267 aerobic isolations. Among the isolations were: Clostridium perfringens, 12; Bacillus species, 68; Citrobacter species, 38; Coliform group, 40; Corynebacterium species, 53; Enterobacter species, 55; Escherichia coli (non pathogenic), 309; Hemophilus influenzae, 16; Herbicola-lathyri (Erwinia species), 11; Herellea species, 22; Klebsiella group, 65; Mima polymorpha, 20; Neisseria gonorrhoeae, 19; Neisseria meningitidis, 11; Proteus species, 132; Pseudomonas aeruginosa, 11; Pseudomonas maltophilia, 13; Pseudomonas species, 125; Salmonella typhi, 11; Serratia species, 25; Staphylococcus (coagulase negative), 219; Staphylococcus (coagulase positive), 348; Streptococcus, beta Group A, 152; Streptococcus, (non Group A), 40; Streptococcus pneumoniae, 85; Streptococcus, enterococci, 79; Streptococcus, alpha hemolytic, 61; Streptococcus, non hemolytic, 25; Yeast-like organisms, 55.
- (gg) Wound cultures and miscellaneous.
- (hh) Miscellaneous smears.
- (ii) Specimens were urine, lesion, feces, etc., 226; Pertussis, 370. Examinations included Pertussis, 370; Blood, Spinal Fluid, Wound, Urine and Other (lesion, feces, etc.), 2,969. Positives were all Pertussis.
- (jj) Evaluation specimens.
- (kk) M. pneumoniae, 417 specimens, 417 exams, 35 positives; T-strain mycoplasma, 1,740 specimens, 1,740 exams, 440 positives.
- (ll) Cervical and vaginal, ear, etc.
- (mm) Eye, ear and nose cultures.

TABLE 11-12. MYCOLOGY CULTURES

	Specimens	Exams	Positives	
			Dermatophytes	Systemic Fungi
Ala.	1,642	13,378	42	79
Alaska	192	222	*	*
Ariz.	2,777	5,587	35	704
Ark.	1,630	15,256	23	419
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	1,076	27,339 (a)	164	270
Del.	-	-	-	-
D.C.	142	284	60	20
Fla.	5,566	7,462	213	1,719
Ga.	750	748	186	64
Hawaii	916	2,800	46	270
Ida.	339	339	43 (b)	(b)
Ill.	1,065	5,027	268	176
Ind.	1,534	1,534	613	343
Ia.	503	1,006	9	21
Kans.	277	590	6	18
Ky.	166	1,481	-	-
La.	1,280	1,280	90	247
Me.	87	*	35	52
Md.	2,955	2,961	13	896
Mass.	147	*	10	51 (c)
Mich.	3,020	9,326	335	36
Minn.	2,124	4,160	27	568 (d)
Miss.	1,690	1,690	(e)	(e)
Mo.	177	2,872	44	78
Mont.	98	98	12	38
Nebr.	12	36	1	7
Nev.	11	44	2	3
N.H.	79	92	3	2
N.J.	80	80	14	4
N.M.	687	687	*	*
N.Y.	1,413	5,600	110	617
N.C.	586	586	27	111 (f)
N.D.	181	392	14	6
Ohio	425 (g)	850	4	3
Okla.	301	2,015	88	3 (h)
Ore.	205	229	46	19
Pa.	334	668	9	62
R.I.	*	*	20	388
S.C.	786	14,880	128	149
S.D.	102	260	*	*
Tenn.	1,842	1,842	60	126
Tex.	1,448	4,513	25	41
Utah	17	64	-	11
Vt.	93	279	53	<10
Va.	2,988	13,298	715	221
Wash.	598	3,304	15	67
W.Va.	283	849	84	53
Wisc.	3,115	3,115	239	827
Wyo.	-	-	-	-
Guam	1	*	*	*
P.R.	125	125	5	1
V.I.	58	116	2	3

TABLE 11-13. PARASITOLOGY: INTESTINAL PARASITES AND BLOOD PARASITES, MICROSCOPIC

	<u>Intestinal Parasites</u>			<u>Blood Parasites, Microscopic</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	19,710	39,017	3,419	53	53	9
Alaska	653	698	20	1	1	1
Ariz.	501	1,356	59	8	8	4
Ark.	1,285	2,362	358	17	27	9
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	13,170	18,022	2,088	18	18	11
Del.	141	141	3	-	-	-
D.C.	85	255	22	-	-	-
Fla.	88,106	88,106	11,126	37	37	4
Ga.	69,434	114,830	8,428	82	81	17
Hawaii	2,847	4,939	354	5	4	2
Ida.	274	355	8	3	3	2
Ill.	718	1,372	104	7	7	3
Ind.	2,010	3,517	449	28	28	22
Ia.	574	1,148	76	358	716	110
Kans.	5,524	5,524	1,384	16	16	7
Ky.	5,293	7,782	2,023	12	12	1
La.	42,295 (i)	42,295 (i)	11,314	52	52	36
Me.	-	-	-	-	-	-
Md.	9,599	9,599	1,438 (j)	41	41	*
Mass.	-	-	-	-	-	-
Mich.	2,688	3,116	573	11	11	2
Minn.	3,726	7,149	340	22	22	1
Miss.	9,949	9,949	2,232	36	36	7
Mo.	523	1,512	122	13	20	10
Mont.	111	111	28	11	11	8
Nebr.	159	318	9	2	2	-
Nev.	77	231	5	-	-	-
N.H.	363	394	4	8	16	1
N.J.	2,010	2,010	312	3	3	3
N.M.	250	*	21	*	*	*
N.Y.	484 (k)	476 (k)	91	130	130	107
N.C.	11,495 (l)	11,532 (m)	1,566 (1)	33	(m)	3
N.D.	814	2,442	45	23	23	3
Ohio	911	1,927	203	25	25	19
Okla.	2,043	2,048	160	29	29	16
Ore.	848	1,537	41	51	51	31
Pa.	191	423	77	39	39	27
R.I.	596	1,192	112	10	10	7
S.C.	19,082	20,834	3,909	10	10	5
S.D.	(n)	422	1	-	-	-
Tenn.	5,403	11,495	1,057	34	34	11
Tex.	5,885	8,989	1,302	138	153	67
Utah	1,731	1,731	190	-	-	-
Vt.	280	280	27	<10	<10	<10
Va.	23,511	23,511	3,018	8	8	-
Wash.	1,318	1,384	245	3	4	-
W.Va.	1,623	3,246	337	-	-	-
Wisc.	4,430	4,430	523	44	44	*
Wyo.	67	67	6	1	1	-
Guam	4,740	4,740	1,615	128	128	33
P.R.	30,425	29,100	8,472	-	-	-
V.I.	6,162	6,343	823	-	-	-

TABLE 11-14. PARASITOLGY: TRICHOMONAS

	<u>Trichomonas</u>		Positives
	Specimens	Exams	
Ala.	-	-	2,561 (o)
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	*	*	*
Conn.	-	25,364	2,794 (p)
Del.	(q)	6,700	*
D.C.	68,436	68,436	39,218
Fla.	87,392	87,392	8,154
Ga.	24,936	24,936	3,613
Hawaii	13	13	5
Ida.	31	31	10
Ill.	23,004	23,004	1,856
Ind.	12,191	12,191	1,332
Ia.	-	62	60
Kans.	-	-	-
Ky.	-	-	-
La.	-	-	-
Me.	-	-	-
Md.	(t)	(t)	1,586
Mass.	-	-	-
Mich.	(t)	101,213	9,792
Minn.	965	965	838
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	1,063	1,063	223
N.H.	112	128	24
N.J.	-	-	-
N.M.	-	-	-
N.Y.	2,675	*	301
N.C.	-	-	-
N.D.	-	-	-
Ohio	-	257	257
Okla.	96	96	96
Ore.	-	-	-
Pa.	152	152	116
R.I.	2,854	2,854	326
S.C.	268	356	88
S.D.	-	-	-
Tenn.	76	76	6
Tex.	-	-	-
Utah	(t)	(t)	(t)
Vt.	-	-	-
Va.	-	-	-
Wash.	-	-	-
W.Va.	2,478	2,478	152
Wisc.	2,224	2,224	243
Wyo.	-	-	-
Guam	20	20	6
P.R.	4	4	4
V.I.	-	-	-

TABLE 11-15. PARASITOLGY: REFERRED SPECIMENS

	<u>Parasites for Identification</u>		<u>Arthropods for Identification</u>	
	Specimens	Exams	Specimens	Exams
Ala.	4	4	9	9
Alaska	-	-	-	-
Ariz.	8	8	3	3
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	14	14	1	1
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	46	46	(r)	-
Ga.	79	79	-	-
Hawaii	4	4	-	-
Ida.	3	3	-	-
Ill.	4	4	1	1
Ind.	7	7	12	12
Ia.	43	43	-	-
Kans.	6	6	6	6
Ky.	-	-	-	-
La.	14 (s)	14	500	500
Me.	-	-	2	2
Md.	12	12	-	-
Mass.	-	-	-	-
Mich.	-	-	-	-
Minn.	16	16	9	9
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	1	1	1	1
Nebr.	2	2	3	3
Nev.	-	-	-	-
N.H.	1	2	2	2
N.J.	-	-	-	-
N.M.	*	*	*	*
N.Y.	146	146	-	-
N.C.	-	-	-	-
N.D.	-	-	-	-
Ohio	2	2	91	91
Okla.	-	-	-	-
Ore.	4	4	5	5
Pa.	6	6	-	-
R.I.	12	12	2	2
S.C.	-	-	-	-
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	34	48	13,564	13,564
Utah	-	-	-	-
Vt.	<10	<10	<10	<10
Va.	-	-	-	-
Wash.	6	23	6	6
W.Va.	10	10	4	4
Wisc.	12	12	11	11
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLES 11-12 - 11-15. FOOTNOTES

- (a) 25,330 genital smears examined for *Candida* sp., 2,372 positives.
- (b) "Systemic Fungi" included with "Dermatophytes" as one total.
- (c) Includes 46 *Candida albicans*.
- (d) Includes *Candida albicans*, 507; *Torulopsis glabrata*, 44.
- (e) Positives as follows: *Trichophyton* species, 15; *Microsporum* species, 10; *Candida albicans*, 226; other *Candida*, 78; others, 15.
- (f) In addition, 156 other isolations were reported. Most numerous were: *Aspergillus* species, 16; *Candida tropicalis*, 46; *Penicillium* species, 15; *Schopulariopsis* species, 10; *Torulopsis glabrata*, 13.
- (g) Includes 327 referred cultures.
- (h) *Histoplasma capsulatum*, 2; *Cryptococcus neoformans*, 1.
- (i) Includes occult blood, 311 specimens, 311 exams.
- (j) Parasite findings rather than positive specimens. Includes positive pin worm.
- (k) Includes Special Investigations, 110 specimens, 110 exams.
- (l) Includes 36 specimens for occult blood, 19 of which were positive.
- (m) "Blood Parasites, Microscopic" included with "Intestinal Parasites."
- (n) Counted with enteric specimens.
- (o) Incidental finding on 23,287 smears submitted for *Neisseria gonorrhoeae*.
- (p) Genital smears for gonorrhoea examined for *T. vaginalis*.
- (q) Done routinely on all GC smears.
- (r) Performed by Bureau of Entomology.
- (s) Adult worms.
- (t) Included under gonorrhoeae.

TABLE 11-16. VIROLOGY: TOTAL VIRAL ISOLATIONS AND TOTAL HUMAN SOURCE SPECIMENS

	Total Viral Isolations (a)			Total Human Source Specimens		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	206	824	16	206	824	16
Alaska	(b)	-	-	-	-	-
Ariz.	793	2,374	75	772	2,304	75
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	3,000	11,853	195	3,000	11,853	195
Del.	-	-	-	-	-	-
D.C.	300	1,634	37	300	1,634	37
Fla.	2,084	2,142	29	1,021	1,071	25
Ga.	1,036	9,424	151	951	*	147
Hawaii	1,032	3,297	201	1,032	3,297	201
Ida.	-	-	-	-	-	-
Ill.	1,186	3,697	139	1,186	3,697	139
Ind.	161	173	9	161	173	9
Ia.	1,528	18,392	110	1,084	14,808	110
Kans.	526	5,240	167	464	4,640	118
Ky.	355	1,692	14	355	1,692	14
La.	4,602	4,602	158	312	312	62
Me.	2,142	*	156	2,142	*	156
Md.	1,603	1,876	118	1,603	1,876	118
Mass.	2,361	3,848	66	280	1,767	21
Mich.	834	3,007	168	834	3,007	168
Minn.	2,147	6,770	237	2,113	6,676	205
Miss.	-	-	-	-	-	-
Mo.	131	2,330	4	131	2,330	4
Mont.	281	281	13	281	281	13
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	*	57,245	205	*	26,960	60
N.M.	*	*	*	*	*	*
N.Y.	2,163	15,280	125	1,093	10,098	125
N.C.	1,056	3,114	72	1,049	3,100	71
N.D.	67	116	*	67	116	*
Ohio	5,560	9,770	72	827	1,121	72
Okla.	272	1,316	23	272	1,316	23
Ore.	1,188	1,370	182	1,188	1,370	182
Pa.	3,223	11,280	280	3,223	11,280	280
R.I.	-	-	-	-	-	-
S.C.	119	511	12	119	511	12
S.D.	-	-	-	-	-	-
Tenn.	562	562	29	562	562	29
Tex.	70,233	20,512	893	4,164	17,999	843
Utah	499	3,191	78	499	3,191	78
Vt.	115	255	20	115	255	20
Va.	342	604	48	341	603	48
Wash.	551	5,980	48	520	5,773	48
W.Va.	422	667	248	422	667	248
Wisc.	2,704	10,137	309	2,704	10,137	309
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-17. VIROLOGY: HUMAN SOURCE SPECIMENS

	<u>Throat Washings</u>			<u>Fecal</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	44	176	3	66	264	5
Alaska	-	-	-	-	-	-
Ariz.	245	735	7	300	879	45
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	1,267	4,944	97	1,232	4,838	72
Del.	-	-	-	-	-	-
D.C.	96	510	12	112	609	15
Fla.	50	52	1	646	680	17
Ga.	414	*	54	255	*	55
Hawaii	551	1,796	143	159	499	22
Ida.	-	-	-	-	-	-
Ill.	298	900	29	331	993	42
Ind.	20	28	1	28	28	3
Ia.	423	5,027	33	358	5,761	41
Kans.	55	550	20	325	3,250	75
Ky.	96	573	*	92	465	*
La.	312 (c)	312 (c)	62 (c)	(c)	(c)	(c)
Me.	1,062	*	38	384	*	39
Md.	*	*	*	*	*	*
Mass.	71	722	12	75	375	5
Mich.	113	619	9	422	1,585	150
Minn.	474	1,759	46	904	2,712	108
Miss.	-	-	-	-	-	-
Mo.	20	180	-	69	1,356	3
Mont.	80	80	-	125	125	10
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	*	1,264	1	*	12,032	38
N.M.	*	*	*	*	*	*
N.Y.	125	*	15	624	*	78
N.C.	526	1,578	43	249	738	18
N.D.	20	20	*	16	65	*
Ohio	280	370	25	232	332	20
Okla.	105	*	6	111	*	14
Ore.	524	651	127	387	413	26
Pa.	1,251	*	103	787	*	105
R.I.	-	-	-	-	-	-
S.C.	14	53	-	75	341	11
S.D.	-	-	-	-	-	-
Tenn.	102	102	8	172	172	10
Tex.	123	795	12	587	4,840	127
Utah	172	298	7	127	1,466	53
Vt.	40	99	12	28	58	4
Va.	130	249	18	104	179	11
Wash.	145	1,892	18	264	2,816	27
W.Va.	40	138	9	51	85	14
Wisc.	998	4,070	156	716	2,850	51
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-17. VIROLOGY: HUMAN SOURCE SPECIMENS
(Continued)

	Specimens	<u>CSF</u> Exams	Positives	Specimens	<u>Blood</u> Exams	Positives
Ala.	51	204	3	8	32	-
Alaska	-	-	-	-	-	-
Ariz.	87	261	13	1	3	*
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	163	619	4	7	16	-
Del.	-	-	-	-	-	-
D.C.	26	102	4	-	-	-
Fla.	219	231	6	4	4	-
Ga.	158	*	38	9	*	*
Hawaii	142	431	5	41	126	3
Ida.	-	-	-	-	-	-
Ill.	141	423	1	1	3	-
Ind.	59	59	-	1	1	-
Ia.	146	1,531	12	9	175	-
Kans.	75	750	21	2	20	1
Ky.	133	393	*	2	-	-
La.	(c)	(c)	(c)	(c)	(c)	(c)
Me.	263	*	23	-	-	-
Md.	*	*	*	*	*	*
Mass.	73	365	1	-	-	-
Mich.	113	257	4	-	-	-
Minn.	332	996	24	3	9	-
Miss.	-	-	-	-	-	-
Mo.	24	470	1	4	72	-
Mont.	46	46	-	12	12	3
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	*	6,056	8	*	532	-
N.M.	*	*	*	*	*	*
N.Y.	178	*	15	28	*	1
N.C.	234	702	4	2	6	-
N.D.	25	25	*	-	-	-
Ohio	237	337	25	10	10	-
Okla.	36	*	-	-	-	-
Ore.	66	69	3	146	164	18
Pa.	624	*	32	-	-	-
R.I.	-	-	-	-	-	-
S.C.	21	84	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	161	161	2	2	2	-
Tex.	238	1,550	24	3,102	9,674	642
Utah	59	398	2	17	100	3
Vt.	35	72	2	-	-	-
Va.	66	98	17	19	2	-
Wash.	83	673	2	-	-	-
W.Va.	29	54	-	289	346	224
Wisc.	518	1,452	29	6	28	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-17. VIROLOGY: HUMAN SOURCE SPECIMENS
(Continued)

	Specimens	<u>Tissue</u> Exams	Positives	Specimens	<u>Other</u> Exams	Positives
Ala.	12	48	1	25	100	4
Alaska	-	-	-	-	-	-
Ariz.	12	41	*	127	385	10
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	93	506	-	238	930	22
Del.	-	-	-	-	-	-
D.C.	2	14	-	64 (d)	399 (d)	6 (d)
Fla.	80	82	1	22	22	-
Ga.	115 (e)	*	*	(e)	*	*
Hawaii	111	361	28	28	84	-
Ida.	-	-	-	-	-	-
Ill.	173	519	5	242 (f)	859	62
Ind.	12	16	1	41	41	4
Ia.	36	599	3	112	1,715	21
Kans.	5	50	-	2	20	1
Ky.	21	94	*	11	167	*
La.	(c)	(c)	(c)	(c)	(c)	(c)
Me.	-	-	-	433	*	56
Md.	*	*	*	*	*	*
Mass.	61	305	3	-	-	-
Mich.	32	118	1	154	428	4
Minn.	48	144	5	352	1,056	22
Miss.	-	-	-	-	-	-
Mo.	14	252	-	-	-	-
Mont.	11	11	-	7	7	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	*	4,540	4	*	2,536	9
N.M.	*	*	*	*	*	*
N.Y.	31	*	4	107	*	12
N.C.	-	-	-	38	76	6
N.D.	6	6	*	-	-	-
Ohio	43	43	-	25	29	2
Okla.	-	-	-	20	*	3
Ore.	7	7	-	58	66	8
Pa.	186	*	-	375 (g)	375	40
R.I.	-	-	-	-	-	-
S.C.	1	3	-	8	30	1
S.D.	-	-	-	-	-	-
Tenn.	65	65	4	60	60	5
Tex.	39	285	6	75	855	32
Utah	21	93	3	103	836	10
Vt.	3	7	*	9	19	2
Va.	5	44	2	17	31	-
Wash.	6	100	-	22	292	1
W.Va.	12	42	-	1	2	1
Wisc.	114	481	1	352	1,256	72
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-18. VIROLOGY: ANIMAL SOURCE SPECIMENS

	Total Specimens	Total Exams	Total Positives	Specimens	Horses Exams	Positives
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	21	70	*	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	1,063	1,071	4	3	3	-
Ga.	85	*	4	6	*	*
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	444	3,584	-	-	-	-
Kans.	62	600	49	-	-	-
Ky.	-	-	-	-	-	-
La.	4,290	4,290	96	33	33	7
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	2,081	2,081	45	21	21	14
Mich.	-	-	-	-	-	-
Minn.	34	94	32	30	90	32
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	(h)	-	-
Nebr.	-	-	-	-	-	-
Nev.	(1)	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	*	30,285	145	*	1,005	19
N.M.	*	*	*	*	*	*
N.Y.	1,070	5,182	*	920 (j)	*	*
N.C.	7	14	1	4	8	1
N.D.	-	-	-	-	-	-
Ohio	4,733	8,649	-	1	1	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	66,069	2,513	50	11	31	4
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	1	1	-	1	1	-
Wash.	31	207	-	1	11	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-18. VIROLOGY: ANIMAL SOURCE SPECIMENS
(Continued)

	Specimens	Birds Exams	Positives	Specimens	Mosquitoes Exams	Positives
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	21	70	*	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fia.	5	5	-	1,055	1,063	4
Ga.	15	*	*	60 (k)	*	4
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	444	3,584	-
Kans.	-	-	-	2 (k)	*	*
Ky.	-	-	-	-	-	-
La.	3,154 (1)	3,154	11	500 (k)	500	-
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	960	960	14	1,098	1,098	17
Mich.	-	-	-	-	-	-
Minn.	1	1	-	2 (k)	2	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	(m)	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	*	275 (n)	3	*	16,220 (o)	120
N.M.	*	*	*	*	*	*
N.Y.	-	-	-	70 (k)	*	*
N.C.	3	6	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	8	8	-	4,724 (k)	8,640	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	732	2,196	2	65,326	286	44
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	30	196	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-19. VIROLOGY: OTHER ANIMAL AND MISCELLANEOUS SOURCE SPECIMENS

	<u>Other Animal Source Specimens</u>			<u>Miscellaneous Source Specimens</u>		
	Specimens	Exams	Positives	Specimens	Exams	Positives
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	-	-	-	-
Del.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
Ga.	4	*	*	-	-	-
Hawaii	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Kans.	-	-	-	60 (p)	600	49
Ky.	-	-	-	-	-	-
La.	-	-	-	603 (q)	603	78
Me.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
Mass.	1 (r)	1	-	1 (s)	1	-
Mich.	-	-	-	-	-	-
Minn.	1	1	-	-	-	-
Miss.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	*	3,335 (t)	-	*	9,450 (u)	3
N.M.	*	*	*	*	*	*
N.Y.	80	*	*	-	-	-
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 11-20. VIROLOGY: RABIES

	Specimens	Exams	Positives
Ala.	1,794	3,126	54
Alaska	173 (v)	173	50
Ariz.	-	-	-
Ark.	1,282	2,564	78
Cal.	*	*	*
Colo.	*	*	*
Conn.	561	1,635	3
Del.	127	380	-
D.C.	106	190	-
Fla.	4,364	8,728	92
Ga.	2,251	4,526	253
Hawaii	16	16	-
Ida.	273	273	3 (s)
Ill.	3,519	3,540	87
Ind.	3,494	6,988	73
Ia.	954	7,632	50
Kans.	1,957	1,957	118
Ky.	1,559	4,091	187
La.	5,475	5,475	78
Me.	929	2,847	187
Md.	694	1,839	-
Mass.	691	691	3 (s)
Mich.	2,356	3,628	49
Minn.	1,228	2,002	29
Miss.	714	1,285	2
Mo.	1,508	9,952	78
Mont.	(h)	-	-
Nebr.	843	1,686	3
Nev.	-	-	-
N.H.	248	496	2
N.J.	2,289	2,485	15
N.M.	706	1,828	23
N.Y.	-	-	-
N.C.	1,016	1,602	8
N.D.	543	1,086	44
Ohio	3,776	5,835	108
Okla.	2,540	4,896	275
Ore.	586	575	4
Pa.	352	1,056	5
R.I.	155	465	1
S.C.	729	722	2
S.D.	156	226	38
Tenn.	2,415	4,638	102
Tex.	6,551	13,495	372
Utah	162	542	2
Vt.	319	501	26
Va.	1,220	2,976	189
Wash.	397	2,062	7
W.Va.	710	2,843	166
Wisc.	2,066	2,224	71
Wyo.	235	235	12
Guam	98	98	*
P.R.	188	*	70
V.I.	-	-	-

TABLES 11-16 - 11-20. FOOTNOTES

- (a) Excluding Rabies, which is in Table 11-20.
- (b) No direct services. All specimens sent to Arctic Health Research Center or CDC.
- (c) All other human sources included with "Throat Washings."
- (d) Includes vesicular fluid and scrapings, 6 specimens, 42 exams, 2 positives; joint fluid, 2 specimens, 8 exams with no reported positives; urine, 28 specimens, 153 exams, 2 positives; and miscellaneous, 28 specimens, 196 exams with 2 positives.
- (e) "Other" included with "Tissue."
- (f) Includes tissue culture fluids, 74 specimens, 222 exams, 62 positives.
- (g) Urine, VS, VF, miscellaneous.
- (h) Done at Livestock Sanitary Board.
- (i) Referred to Department of Agriculture Diagnostic Laboratory.
- (j) Domestic animals and wildlife.
- (k) Represents pools.
- (l) Sentinel chickens included with "birds."
- (m) Done at Rocky Mountain Laboratory.
- (n) Doa birds.
- (o) Ectoparasite pools (in chicks), 980 exams; ectoparasite pools (in mice), 1,650 exams.
- (p) 52 sewage; 8 feed lots.
- (q) Rat bloods.
- (r) Rabbit.
- (s) Bats.
- (t) Bat survey specimens, 2,320; caged mammal bloods, 1,015.
- (u) Non avian (bloods and organs), 840 exams; caged W. F. mice specimens, 8,610 exams, 3 positives.
- (v) Specimens handled by laboratories and processed by Arctic Health Research Center and CDC.

TABLE 11-21. SEROLOGY: EXAMINATIONS OF BLOOD FOR SYPHILIS

	Specimens	Exams	Positives (a)
Ala.	376,346	395,915	20,322
Alaska	30,431	31,341	742
Ariz.	80,735	90,431	4,571
Ark.	110,442	112,751	4,670
Cal.	*	*	*
Colo.	*	*	*
Conn.	102,567 (b)	119,011 (b)	6,096
Del.	41,667	41,667	1,826
D.C.	168,525	192,197	23,801
Fla.	801,091	832,961	29,444
Ga.	572,355	590,346	30,514
Hawaii	31,383	35,903	1,474
Ida.	25,419	28,257	516
Ill.	114,966	114,966	10,860
Ind.	124,753	128,975	10,816
Ia.	166,013	172,736	6,308
Kans.	111,241	120,458	4,802
Ky.	128,524	126,613	7,150
La.	304,084	304,084	29,764
Me.	46,726	50,844	1,010
Md.	169,027	197,894	15,206
Mass.	370,016	370,016	4,346
Mich.	299,226	339,564	33,646
Minn.	166,736	180,695	6,177
Miss.	268,625	277,846	9,221
Mo.	66,146	79,671	16,660
Mont.	29,768	31,990	1,339
Nebr.	78,160	81,612	1,589
Nev.	34,719	42,705	3,253
N.H.	49,872	50,223	1,695
N.J.	225,949	271,092	15,671
N.M.	30,735	66,123	5,404
N.Y.	129,986	138,765	8,779
N.C.	342,262	375,560	22,540
N.D.	50,431	51,204	434
Ohio	99,898	112,520	8,495
Okla.	136,182	151,287	6,016
Ore.	90,199	94,937	*
Pa.	32,073	32,073	3,407
R.I.	42,269	52,299	3,405
S.C.	266,154	380,599	1,724
S.D.	30,257	31,771	1,692
Tenn.	467,966	467,966	2,966
Tex.	420,061	465,266	40,459
Utah	68,134	73,020	*
Vt.	35,259	36,000	586
Va.	183,911	193,105	11,514
Wash.	35,119	43,169	3,598
W.Va.	43,587	51,532	2,528
Wisc.	197,220	212,745	6,432
Wyo.	11,943	12,875	437
Guam	4,401	5,037	636
P.R.	109,534	134,473	8,502
V.I.	10,500	11,515	338

TABLE 11-22. SEROLOGY: EXAMINATIONS OF SPINAL FLUID FOR SYPHILIS

	Specimens	Exams	Positives (a)
Ala.	1,211	1,219	8
Alaska	130	130	1
Ariz.	215	221	6
Ark.	61	94	8
Cal.	*	*	*
Colo.	*	*	*
Conn.	1,474	3,133	10
Del.	110	110	-
D.C.	60	*	-
Fla.	1,038	1,044	6
Ga.	596	514	8
Hawaii	268	385	2
Ida.	242	242	-
Ill.	99	99	5
Ind.	325	325	5
Ia.	1,650	1,650	1
Kans.	377	754	2
Ky.	172	177	14
La.	1,747	1,747	8
Me.	942	992	7
Md.	558	654	47
Mass.	6,543	6,543	25
Mich.	315	317	2
Minn.	3,725	6,874	16
Miss.	44	88	-
Mo.	375	1,976	3
Mont.	263	263	21
Nebr.	481	1,050	2
Nev.	83	83	-
N.H.	420	420	4
N.J.	635	775	17
N.M.	601	626	-
N.Y.	6,968	7,726	118
N.C.	1,245	1,287	15
N.D.	400	400	-
Ohio	405	390	26
Okla.	4,337	4,862	2,219
Ore.	121	121	*
Pa.	74	74	2
R.I.	636	1,057	1
S.C.	571	578	7
S.D.	173	173	4
Tenn.	486	486	6
Tex.	636	951	20
Utah	278	289	*
Vt.	424	500	7
Va.	452	1,029	35
Wash.	1,096	1,136	7
W.Va.	32	64	10
Wisc.	773	785	6
Wyo.	3	3	1
Guam	-	-	-
P.R.	26	26	1
V.I.	-	-	-



TABLE 11-23. SEROLOGY: BACTERIAL AND MISCELLANEOUS

	Total Specimens	Total Exams	Typhoid			
			H antigen		O antigen	
			Exams	Positives	Exams	Positives
Ala.	4,248	4,707	-	-	-	-
Alaska	185	1,045	130	-	130	-
Ariz.	259	746	118	*	117	*
Ark.	984	2,686	343	15	304	18
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	7,834	10,919	4	3	242	40
Del.	-	-	-	-	-	-
D.C.	874	868	*	1	*	1
Fla.	3,334	4,801	-	-	1,223	18
Ga.	4,267	8,407	-	-	966	3
Hawaii	2,804	2,930	36	9	29	2
Ida.	573	760	47	1	-	-
Ill.	3,795	4,895	222	17	222	13
Ind.	2,100	6,101	29	1	1,309	2
Ia.	14,070	18,218	481	207	481	207
Kans.	1,063	1,997	-	-	-	-
Ky.	757	4,676	599	132	598	132
La.	3,256	3,256	32	2	32	-
Me.	1,574	2,349	110	1	110	-
Md.	2,910	3,796	-	-	-	-
Mass.	3,121	2,788	645	150	645	166
Mich.	4,437	4,446	-	-	-	-
Minn.	*	33,943	1,346	325	1,346	120
Miss.	2,071	4,667	-	-	895	3
Mo.	632	1,237	-	-	-	-
Mont.	453	453	-	-	-	-
Nebr.	7,702	11,964	-	-	3,440	112
Nev.	123	484	65	3	62	-
N.H.	105	519	103	-	103	-
N.J.	*	3,287	-	-	-	-
N.M.	*	2,138	506	*	506	*
N.Y.	*	9,101	-	-	1,335	30
N.C.	*	3,803	37	25	37	18
N.D.	3,308	11,038	3,308	*	-	-
Ohio	2,764	4,159	203	32	428	29
Okla.	2,007	9,936	1,259	95	1,259	23
Ore.	1,281	2,383	128	25	128	25
Pa.	-	-	-	-	-	-
R.I.	*	135	6	*	6	*
S.C.	2,131	4,824	228	54	245	21
S.D.	3,035	6,637	781 (c)	1	1,174	1
Tenn.	1,590	4,096	-	-	708	75
Tex.	*	4,588	-	-	896	40
Utah	5,751	9,638	2	-	2	-
Vt.	2,479	7,404	650	15	650	21
Va.	9,489	20,925	-	-	2,231	110
Wash.	3,576	5,328	500	10	500	4
W.Va.	68	260	22	-	22	-
Wisc.	18,456	20,672	223	15	223	6
Wyo.	326	1,565	162	5 (d)	162	(d)
Guam	6	*	-	-	-	-
P.R.	*	3,905	67	*	67	*
V.I.	298	358	10	-	10	-

TABLE 11-23. SEROLOGY: BACTERIAL AND MISCELLANEOUS
(Continued)

	Paratyphoid A		Paratyphoid B		Brucella	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	-	-	-	-	275	25
Alaska	131	-	131	-	150	2
Ariz.	117	*	117	*	73	*
Ark.	234	25	151	7	428	7
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	3	-	7	2	109	10
Del.	-	-	-	-	-	-
D.C.	*	1	*	1	*	-
Fla.	-	-	-	-	1,223	28
Ga.	-	-	-	-	970	9
Hawaii	37	9	38	10	28	2
Ida.	-	-	47	1	504	4
Ill.	-	-	-	-	628	22
Ind.	29	-	29	1	1,309	7
Ia.	364	15	362	23	9,365	639
Kans.	-	-	-	-	958	5
Ky.	539	39	539	40	587	13
La.	-	-	-	-	1,310	4
Me.	110	2	110	4	269	2
Md.	-	-	-	-	347	11
Mass.	57	1	645	80	701	14
Mich.	-	-	-	-	122	1
Minn.	-	-	1,346	305	3,259	125
Miss.	-	-	-	-	895	2
Mo.	-	-	-	-	379	25
Mont.	-	-	-	-	86	3
Nebr.	-	-	3,440	63	2,084	78
Nev.	66	4	63	1	49	-
N.H.	103	-	103	-	103	-
N.J.	-	-	62	4	40	1
N.M.	100	*	70	*	514	*
N.Y.	-	-	-	-	403	6
N.C.	-	-	-	-	358	6
N.D.	-	-	-	-	3,308	*
Ohio	132	4	127	8	419	1
Okla.	-	-	1,259	10	1,545	19
Ore.	-	-	-	-	168	8
Pa.	-	-	-	-	-	-
R.I.	6	*	6	*	14	*
S.C.	9	1	218	6	268	6
S.D.	13 (a)	-	17	-	1,663	2
Tenn.	152	10	152	6	747	8
Tex.	-	-	-	-	920	59
Utah	-	-	-	-	2,176	8
Vt.	650	3	650	4	650	2
Va.	-	-	2,215	118	4,340	186
Wash.	-	-	-	-	569	8
W.Va.	22	-	22	-	39	-
Wisc.	-	-	223	1	3,015	16
Wyo.	161	1	161	-	155	4
Guam	-	-	-	-	-	-
P.R.	67	*	67	*	67	*
V.I.	10	-	10	-	10	-

TABLE 11-23. SEROLOGY: BACTERIAL AND MISCELLANEOUS
(Continued)

	Francisella tularensis		Weil-Felix					
	Exams	Positives	OX-19		OX-2		OX-K	
			Exams	Positives	Exams	Positives	Exams	Positives
Ala.	74	9	-	-	-	-	-	-
Alaska	148	2	129	-	-	-	-	-
Ariz.	14	*	70	*	-	-	-	-
Ark.	435	32	139	12	97	4	176	1
Cal.	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*
Conn.	12	2	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-	-
D.C.	*	-	*	2	*	-	*	-
Fla.	122	4	122	6	-	-	-	-
Ga.	943	7	981	6	19	2	21	1
Hawaii	-	-	19	-	-	-	-	-
Ida.	60	8	8	*	8	*	8	*
Ill.	360	83	182 (f)	31	32	3	32	-
Ind.	1,308	28	723	3	13	2	13	1
Ia.	46	3	76	59	76	59	76	59
Kans.	958	10	-	-	-	-	-	-
Ky.	523	21	508	116	507	85	-	-
La.	109	9	1,298	-	-	-	-	-
Me.	7	-	7	5	3	2	2	1
Md.	294	2	-	-	-	-	-	-
Mass.	17	4	26	9	26	6	26	3
Mich.	26	*	-	-	-	-	-	-
Minn.	703	54	816	98	816	108	-	-
Miss.	895	4	220	9	-	-	-	-
Mo.	380	32	-	-	-	-	-	-
Mont.	92	6	-	-	-	-	-	-
Nebr.	16	2	11	4	8	2	9	-
Nev.	34	1	35	3	35	2	31	-
N.H.	1	-	1	-	1	-	1	-
N.J.	-	-	1,015	33	1,015	2	1,015	1
N.M.	76	*	68	*	68	*	68	*
N.Y.	213	-	217	1	-	-	-	-
N.C.	358	23	-	-	-	-	-	-
N.D.	31	*	110	*	110	*	110	*
Ohio	117	1	209	36	185	25	39	9
Okla.	1,184	22	1,159	9	1,179	5	-	-
Ore.	23	6	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-
R.I.	7	*	-	-	-	-	-	-
S.C.	302	3	247	17	247	12	244	1
S.D.	392	5	8	-	-	-	-	-
Tenn.	747	26	749	2	-	-	-	-
Tex.	825	26	1,103	88	-	-	-	-
Utah	2,176	31	1,347	8	-	-	-	-
Vt.	51	4	644	12	644	9	644	2
Va.	2,172	40	2,208	252	1,840	93	-	-
Wash.	59	6	43	4	43	1	43	-
W.Va.	14	-	21	3	2	-	1	-
Wisc.	1,469	4	28	-	25	-	25	-
Wyo.	170	24	146	41 (g)	146	(g)	146	(g)
Guam	-	-	-	-	-	-	-	-
P.R.	-	-	67	*	-	-	-	-
V.I.	10	-	10	-	-	-	-	-

TABLE 11-23. SEROLOGY: BACTERIAL AND MISCELLANEOUS
(Continued)

	<u>Antistreptolysin O</u>		<u>Leptospiral</u>		<u>Other Bacterial</u>	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	-	-	412	3	-	-
Alaska	61	8	-	-	-	-
Ariz.	10	*	-	-	-	-
Ark.	1	-	36	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	-	-	-	-	13	12
Del.	-	-	-	-	-	-
D.C.	21	10	*	-	*	-
Fla.	-	-	888	32	-	-
Ga.	-	-	240	3	-	-
Hawaii	-	-	2,396	628 (h)	-	-
Ida.	-	-	78	-	-	-
Ill.	-	-	476	2 (i)	-	-
Ind.	-	-	468	6	85 (j)	-
Ia.	181	95	509	48	-	-
Kans.	-	-	49	-	-	-
Ky.	-	-	62	12	-	-
La.	8	*	152	14	-	-
Me.	-	-	18	1	-	-
Md.	879	17	238	*	-	-
Mass.	-	-	-	-	-	-
Mich.	446	*	122	*	1	*
Minn.	776	*	-	-	-	-
Miss.	1,371	-	36	-	-	-
Mo.	-	-	-	-	-	-
Mont.	22	15	(k)	-	-	-
Nebr.	-	-	13	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	140	1	-	-
N.M.	46	*	22	*	-	-
N.Y.	533	128	22	1	46	10
N.C.	1,073	756	183	7	18	-
N.D.	642	*	-	-	-	-
Ohio	-	-	222 (1)	3	-	-
Okla.	6	-	808	-	-	-
Ore.	-	-	600	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	-	-	530	44	46 (m)	-
S.D.	49	-	21	-	682	41
Tenn.	-	-	146	-	-	-
Tex.	81	58	558	72	166	37
Utah	-	-	30	-	-	-
Vt.	-	-	439	1	-	-
Va.	714	676	234	1	-	-
Wash.	2,308	*	89	1	-	-
W.Va.	23	11	22 (n)	-	-	-
Wisc.	3,464	287	132	9	-	-
Wyo.	-	-	-	-	-	-
Guam	*	3	-	-	-	-
P.R.	1,434	*	-	-	-	-
V.I.	127	-	-	-	-	-

TABLE 11-23. SEROLOGY: BACTERIAL AND MISCELLANEOUS
(Continued)

	Infectious Mononucleosis		Cold Agglutination		C-Reactive Protein	
	Exams	Positives	Exams	Positives	Exams	Positives
Ala.	-	-	-	-	-	-
Alaska	34	8	1	-	-	-
Ariz.	110	*	-	-	-	-
Ark.	342	106	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	7,448	2,085	3,081 (o)	114	-	-
Del.	-	-	-	-	-	-
D.C.	847	212	-	-	-	-
Fla.	1,223	178	-	-	-	-
Ga.	4,267	1,538	-	-	-	-
Hawaii	347	57	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	2,741	583	-	-	-	-
Ind.	786	78	-	-	-	-
Ia.	5,761	1,133	-	-	-	-
Kans.	32	9	-	-	171	60
Ky.	214	32	-	-	-	-
La.	307	104	-	-	8	*
Me.	1,603	448	-	-	-	-
Md.	1,684	181	-	-	63	*
Mass.	*	376	-	-	-	-
Mich.	3,634	1,080	3	*	-	-
Minn.	22,771	11,008	-	-	764	*
Miss.	355	32	-	-	-	-
Mo.	478	64	-	-	-	-
Mont.	253	68	-	-	-	-
Nebr.	2,943	604	-	-	-	-
Nev.	.44	5	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	94	*	-	-	-	-
N.Y.	3,484	130	-	-	552	95
N.C.	746	121	-	-	589	153
N.D.	3,308	*	111	*	-	-
Ohio	705	199	787	173	-	-
Okla.	261	27	13	7	4	3
Ore.	1,336	137	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	90	37	-	-	-	-
S.C.	2,240	587	-	-	-	-
S.D.	643	17	-	-	-	-
Tenn.	382	105	313	15	-	-
Tex.	39	4	-	-	-	-
Utah	3,735	255	170	6	-	-
Vt.	1,732	412	-	-	-	-
Va.	4,971	1,965	-	-	-	-
Wash.	1,171	166	-	-	-	-
W.Va.	50	10	-	-	-	-
Wisc.	4,460	1,156	826	61	1,844	289
Wyo.	156	16	-	-	-	-
Guam	-	-	-	-	*	-
P.R.	38	9	-	-	923	144
V.I.	-	-	-	-	115	-

TABLE 11-23. SEROLOGY: BACTERIAL AND MISCELLANEOUS
(Continued)

	Rheumatoid Disease		Other	
	Exams	Positives	Exams	Positives
Ala.	-	-	3,946	103
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	-	-	-	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	-	-	-	-
Ga.	-	-	-	-
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	269	39	-	-
Kans.	-	-	-	-
Ky.	-	-	-	-
La.	-	-	-	-
Me.	-	-	-	-
Md.	291	*	-	-
Mass.	-	-	-	-
Mich.	-	-	92	*
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	-	-	-	-
N.Y.	968	115	1,328 (p)	204
N.C.	-	-	404 (q)	108
N.D.	-	-	-	-
Ohio	-	-	586 (r)	264
Okla.	-	-	-	-
Ore.	-	-	-	-
Pa.	-	-	-	-
R.I.	-	-	-	-
S.C.	-	-	-	-
S.D.	-	-	1,194 (s)	-
Tenn.	-	-	-	-
Tex.	-	-	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	3	*	-	-
W.Va.	-	-	-	-
Wisc.	2,944	274	1,771	226
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	1,087	120	21 (t)	1
V.I.	46	3	-	-

TABLE 11-24. SEROLOGY: FUNGAL

	Total Specimens	Total Exams	Total Positives	Blastomycosis		Coccidioidomycosis	
				Exams	Positives	Exams	Positives
Ala.	1,571	7,855	302	1,571	87	1,571	13
Alaska	(u)	-	-	-	-	-	-
Ariz.	10,167	13,631	1,696	-	-	12,599	1,648
Ark.	1,886	7,496	687	1,874	255	1,874	1
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	(u)	-	-	-	-	-	-
Del.	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-
Fla.	-	-	-	-	-	-	-
Ga.	876	3,520	60	876	25	876	8
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	5,245	17,343	1,470	3,411	338	3,442	23
Ind.	1,446	4,438	256	1,446	49	100	-
Ia.	1,024	5,428	428	1,357	120	1,357	11
Kans.	498	1,981	113	496	54	495	10
Ky.	2,028	10,115	863	2,285	210	2,080	44
La.	3,282	3,282	179	879	74	880	16
Me.	-	-	-	-	-	-	-
Md.	1,814	6,634	*	1,503	*	1,503	*
Mass.	-	-	-	-	-	-	-
Mich.	1,878	7,512	343	1,878	116	1,878	8
Minn.	*	5,889	1,043	1,430	295	1,431	13
Miss.	1,635	4,984	494	1,635	173	79	2
Mo.	2,694	11,020	1,025	2,749	169	2,747	35
Mont.	(u)	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-
N.Y.	*	5,868	636	2,325	236	399	11
N.C.	*	2,671	91	762	30	385	7
N.D.	(n)	-	-	-	-	-	-
Ohio	4,451	9,342	1,360	1,234	179	1,207	55
Okla.	-	-	-	-	-	-	-
Ore.	103	412	-	103	-	103	-
Pa.	-	-	-	-	-	-	-
R.I.	-	-	-	-	-	-	-
S.C.	1,081	3,083	331	407	62	407	-
S.D.	33	81	-	25	-	25	-
Tenn.	3,394	6,788	427	-	-	-	-
Tex.	*	15,584	479	3,896	146	3,896	48
Utah	-	-	-	-	-	-	-
Vt.	134	536	16	134	7	134	1
Va.	1,590	6,360	457	1,590	106	1,590	-
Wash.	-	-	-	-	-	-	-
W.Va.	91	261	4	53	1	50	-
Wisc.	1,074	2,590	175	758	62	758	3
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
P.R.	*	31	8	-	-	-	-
V.I.	-	-	-	-	-	-	-

TABLE 11-24. SEROLOGY: FUNGAL
(Continued)

	<u>Histoplasmosis</u>		<u>Other</u>	
	Exams	Positives	Exams	Positives
Ala.	3,142	180	1,571 (v)	22
Alaska	-	-	-	-
Ariz.	1,032	48	-	-
Ark.	1,874 (w)	88	1,847 (x)	343
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	-	-	-	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	-	-	-	-
Ga.	1,768	27	-	-
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	10,490	1,109	-	-
Ind.	2,892 (y)	207	-	-
Ia.	2,714 (z)	297	-	-
Kans.	990 (aa)	49 (aa)	-	-
Ky.	5,750	609	-	-
La.	1,523	89	-	-
Me.	-	-	-	-
Md.	3,628	-	-	-
Mass.	-	-	-	-
Mich.	3,756	219	-	-
Minn.	3,028	735	-	-
Miss.	3,270	319	-	-
Mo.	5,524	821	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	-	-	(u)	-
N.Y.	2,325	236	819	153
N.C.	1,524	54	-	-
N.D.	-	-	-	-
Ohio	6,901 (bb)	1,126	-	-
Okla.	-	-	-	-
Ore.	206	-	-	-
Pa.	-	-	-	-
R.I.	-	-	-	-
S.C.	2,242	269	27 (cc)	-
S.D.	31	-	-	-
Tenn.	6,788	427	-	-
Tex.	7,792	285	-	-
Utah	-	-	-	-
Vt.	268	8	-	-
Va.	3,180	351	-	-
Wash.	-	-	-	-
W.Va.	158 (y)	3	-	-
Wisc.	1,074	110	-	-
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	31	8	-	-
V.I.	-	-	-	-

TABLES 11-21 - 11-24. FOOTNOTES

- (a) Weakly reactive or above.
- (b) Includes Research and Evaluation for syphilis on specimens of blood, 3,031 specimens, 5,248 exams.
- (c) 613 of these represent both H and O antigen not broken down by type.
- (d) "O antigen" included with "H antigen."
- (e) Nine of these represent A or B not broken down by type.
- (f) Figures include initial screen tests as well as specific OX-19.
- (g) OX-2 and OX-K included with OX-19.
- (h) Principally rodents and animals. Figure represents any reactions including doubtful.
- (i) Screen test. Positives referred for confirmation.
- (j) G.C. experimental.
- (k) Ten specimens referred to Rocky Mountain Laboratory.
- (l) Pools.
- (m) Paratyphoid C, 5 exams; Salmonella Groups, 41 exams.
- (n) Referred.
- (o) Specimens included with "Viral and Rickettsial."
- (p) Antinuclear Antibodies (Lupus erythematosus).
- (q) Mycoplasma pneumoniae CF.
- (r) Streptococcus MG Agglutination.
- (s) Rubella.
- (t) Heterophile.
- (u) Referred to CDC.
- (v) Agar gel (H & M Bands).
- (w) Yeast phase.
- (x) Histoplasmin.
- (y) Yeast and mycelial phase.
- (z) Yeast phase, 1,357 exams, 213 positives; mycelial phase, 1,357 exams, 84 positives.
- (aa) Yeast phase, 495 exams, 32 positives; mycelial phase, 495 exams, 17 positives.
- (bb) Yeast and Histoplasmin.
- (cc) Cryptococcal.

TABLE 11-25. SEROLOGY: PARASITOLOGICAL

	Total Specimens	Total Exams	Total Positives	Trichinosis		Toxoplasmosis	
				Exams	Positives	Exams	Positives
Ala.	660	1,504	59	22	1	1,482	58
Alaska	(a)	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	126	102	17	9	-	93	17
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	*	508	221	51	9	457	212
Del.	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-
Fla.	452	452	133	-	-	452	133
Ga.	595	595	340	-	-	595	340
Hawaii	-	-	-	-	-	-	-
Ida.	-	-	-	-	-	-	-
Ill.	1,287	1,287	390	-	-	1,287	390
Ind.	239	239	91	65	22	174	69
Ia.	1,296	3,116 (b)	139	40	4	3,032	135
Kans.	-	-	-	-	-	-	-
Ky.	379	372	110	-	-	372	110
La.	470	470	162	(a)	-	470	162
Me.	71	71	24	-	-	71	24
Md.	1,862	3,118	*	112	*	3,006	*
Mass.	-	-	-	-	-	-	-
Mich.	50	50	*	50	*	-	-
Minn.	*	1,053	236	-	-	1,053	236
Miss.	-	-	-	-	-	-	-
Mo.	172	388	37	20	3	368	34
Mont.	(a)	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	*	901	49	221	15	680	34
N.H.	(a)	-	-	-	-	-	-
N.Y.	*	2,720	292	170	19	2,550	273
N.C.	*	1,340	344	-	-	1,340	344
N.D.	(c)	-	-	-	-	-	-
Ohio	931	931	242	-	-	931	242
Okla.	-	-	-	-	-	-	-
Ore.	271	271	45	16	-	255	45
Pa.	956	956	956	67	67	889	889
R.I.	-	-	-	-	-	-	-
S.C.	219	221	41	-	-	221	41
S.D.	*	14	-	3	-	11	-
Tenn.	251	251	26	-	-	251	26
Tex.	*	2,075 (d)	789 (d)	18	3	2,022	785
Utah	-	-	-	-	-	-	-
Vt.	78	78	<10	5	-	73	<10
Va.	247	247	8	247	8	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	91	109	29	18 (c)	-	91	29
Wisc.	68	720	167	68	-	652	167
Wyo.	-	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-

TABLE 11-26. SEROLOGY: VIRAL AND RICKETTSIAL

	Total Specimens	Total Exams	Total Positives	Complement Fixation		HAdI	
				Exams	Positives	Exams	Positives
Ala.	12,614	26,560	130	17,145	118	9,415	12
Alaska	1,454	1,454	1,229	(a)	-	1,454	1,229 (e)
Ariz.	4,071	7,285	*	4,354	*	2,931	*
Ark.	492	*	*	*	*	*	*
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	9,622	39,714 (f)	858 (f)	33,827	381	1,670	54
Del.	(g)	-	-	-	-	-	-
D.C.	2,879	3,007	1,878	2,413	1,568	594	310
Fla.	16,867	37,669	4,763	11,136	2,088	26,503 (h)	2,654
Ga.	10,155	20,804	2,801	14,134	576	4,111	2,059
Hawaii	8,745	8,745	394	5,836	234	2,643	145
Ida.	3,243	6,803	256	4,211	256	2,592	*
Ill.	11,925	28,578	324	18,084	256	9,600	68
Ind.	1,012	7,052	164	6,842	109	136	6
Ia.	15,480	26,613	13,166	10,020	2,483	12,374	10,365
Kans.	6,304	9,741	4,181	2,824	640	6,853	3,501
Ky.	2,038	4,004	1,217	3,906	1,217	28	-
La.	19,592	19,592	11,451	953	284	18,169	11,005
Me.	27,160	24,611	23,967	624	54	23,987	23,913
Md.	55,565	65,019	*	6,340	*	54,136	*
Mass.	*	16,626	*	10,209	*	5,920	*
Mich.	*	23,821	458	21,037	273	2,647	54
Minn.	*	25,295	13,622	9,861	3,813	14,100	9,716
Miss.	686	686	*	686	*	-	-
Mo.	13,493	131,236	47	6,328	24	124,836	19
Mont.	9,518	9,518	7,013	1,894	103	7,439	6,910
Nebr.	-	-	-	-	-	-	-
Nev.	*	972	370	-	-	972	370 (1)
N.H.	-	-	-	-	-	-	-
N.J.	*	1,582,926	18,958	1,375,351 (j)	4,176 (j)	122,507 (k)	14,087 (k)
N.M.	*	706	23	*	*	*	*
N.Y.	*	13,758	*	8,130	*	3,914	*
N.C.	*	29,039 (1)	19,467 (1)	5,502	1,049	21,868	18,289
N.D.	*	1,510	1,035	215	*	1,295	1,035
Ohio	4,906	20,049	4,276	11,450	4,276	8,599	-
Okla.	1,087	2,140	*	1,662	*	478	*
Ore.	29,522	39,536	459	8,850	282	30,652	164
Pa.	5,603	28,292	167	27,719	162	573	5
R.I.	*	20,776	*	-	-	20,776 (m)	*
S.C.	*	32,417	17,306	13,086	268	19,331	17,038
S.D.	3,760	4,877	*	4,877	*	-	-
Tenn.	1,112	11,997	4,646	5,946	33	5,688	4,612 (n)
Tex.	*	17,300 (o)	1,386 (o)	1,925	481	2,724	258
Utah	5,219	5,381	522	167	16	5,032	502
Vt.	3,225	5,431	2,525	2,480	15	2,941	2,500 (e)
Va.	1,947	4,463	115	3,457	101	987	-
Wash.	3,377	5,635	138	5,635 (p)	89	(p)	49
W.Va.	218	2,369	712	990	26	485	222
Wisc.	18,653	20,014	318	18,653	205	1,269	90
Wyo.	4,564	*	3,572	-	-	*	3,572 (e)
Guam	-	-	-	-	-	-	-
P.R.	*	380	*	-	-	192	*
V.I.	-	-	-	-	-	-	-

TABLE 11-26. SEROLOGY: VIRAL AND RICKETTSIAL
(Continued)

	Neutralization		FA	
	Exams	Positives	Exams	Positives
Ala.	-	-	-	-
Alaska	(a)	-	(a)	-
Ariz.	-	-	-	-
Ark.	*	*	*	*
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	249	5	-	-
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	30	21	-	-
Ga.	307	41	2,252	125
Hawaii	266	15	-	-
Ida.	-	-	(q)	(q)
Ill.	894	-	-	-
Ind.	73	49	1	-
Ia.	4,152	313	67	5
Kans.	64	40	-	-
Ky.	70	-	-	-
La.	-	-	470	162
Me.	-	-	-	-
Md.	4,155	*	388 (r)	*
Mass.	440	*	57	*
Mich.	137	131	-	-
Minn.	106	64	1,228	29
Miss.	-	-	-	-
Mo.	72	4	-	-
Mont.	185	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	68,515 (s)	377 (s)	16,553	318
N.M.	*	*	706	23
N.Y.	1,714	*	-	-
N.C.	61	42	1,023	(q)
N.D.	-	-	-	-
Ohio	-	-	-	-
Okla.	-	-	-	-
Ore.	34	13	-	-
Pa.	-	-	-	-
R.I.	-	-	-	-
S.C.	-	-	-	-
S.D.	-	-	-	-
Tenn.	363	1	-	-
Tex.	2,814	201	8,433	349
Utah	20	2	162	2
Vt.	<10	<10	-	-
Va.	19	14	-	-
Wash.	-	-	-	-
W. Va.	-	-	894	464
Wisc.	92	23	-	-
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	188	*
V.I.	-	-	-	-

TABLE 11-27. SEROLOGY: BLOOD FACTOR ANTIBODY AND SERUM ELECTROPHORESIS

	Specimens	Rh Antibody	Other Exams	Serum Electrophoresis
Ala.	532	532	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	34	34	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	-	-	-	-
Del.	-	-	-	-
D.C.	116	116	-	-
Fla.	508	508	-	5,886
Ga.	(t)	785	12,800 (u)	-
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	-	-	-	-
Ky.	12,086	11,504	13,711	-
La.	-	-	-	-
Me.	-	-	-	-
Md.	19,335	4,669	*	1,250 (v)
Mass.	-	-	-	-
Mich.	987	409	*	*
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	*	355	-	410
N.M.	-	-	-	-
N.Y.	*	-	-	542
N.C.	-	-	-	-
N.D.	-	-	-	-
Ohio	-	-	-	-
Okla.	-	-	-	-
Ore.	-	-	-	-
Pa.	-	-	-	-
R.I.	-	-	-	-
S.C.	-	-	-	-
S.D.	6,395	6,395	-	-
Tenn.	271	271	-	-
Tex.	*	-	-	64
Utah	*	-	-	706
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	-	-
Wisc.	9,653	9,653	9,653	957
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	*	9	698 (w)	-
V.I.	-	-	-	-

TABLE 11-28. HEMATOLOGY OR BLOOD BANK

	Total Specimens	Total Exams	Cell Counts	Smears, "L-E" Cells	Smears, Sickle Cells	Erythrocyte Vol. (hematocrit)	Erythrocyte Sed. Rate
Ala.	12,987	12,987	-	-	-	-	-
Alaska	5,904	10,546	-	-	-	-	-
Ariz.	5,940	11,760	-	-	-	-	-
Ark.	1,334	2,559	20	-	-	501	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	-	2,945	-	-	-	-	-
Del.	235	478	51	-	3	194	-
D.C.	67,414	153,430	38,322	-	-	38,322	-
Fla.	46,965	46,965	86	-	5	899	17
Ga.	93,439	199,614	-	-	-	-	-
Hawaii	2 (x)	3,124	2	-	-	-	-
Ida.	1,223	2,585	-	-	-	-	1,166
Ill.	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	-	298	-	-	-	-	-
La.	1,986	1,986	537	-	3	-	43
Me.	11,482	13,359	-	-	-	-	-
Md.	42,950	101,239	19,565	4	1,333	21,957	1,370
Mass.	-	-	-	-	-	-	-
Mich.	6,326	43,095	9,940	-	-	5,520	200
Minn.	-	-	-	-	-	-	-
Miss.	30,662	42,937	4,039	-	535	1,350	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	*	4,118	478	448	10	544	10
N.H.	6,149	17,238	5,708	48	-	5,674	51
N.J.	*	12,625	2,150	-	175	4,025	60
N.M.	*	1,995	-	-	-	-	-
N.Y.	*	22,546	100	-	177	100	-
N.C.	80	80	-	-	-	42	-
N.D.	*	16,588	-	-	-	-	-
Ohio	3,833	5,278	-	-	-	-	-
Okla.	3,813	7,065	231	-	-	186	20
Ore.	-	-	-	-	-	-	-
Pa.	80	421	79	-	-	80	-
R.I.	-	-	-	-	-	-	-
S.C.	*	44,627	4,424	-	101	10,248	977
S.D.	-	-	-	-	-	-	-
Tenn.	20,404	40,368	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	*	2,800	1,200	-	-	400	-
Vt.	-	-	-	-	-	-	-
Va.	*	7,750	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	204	473	191	-	-	89	1
Wisc.	84	16,069	62	19	3	-	-
Wyo.	-	-	-	-	-	-	-
Guam	13,718	13,718	1,459	-	-	4,983	280
P.R.	*	103,817	18,434	179	70	34,208	871
V.I.	-	-	-	-	-	-	-

TABLE 11-28. HEMATOLOGY OR BLOOD BANK
(Continued)

	Hemoglobin	Blood Group (ABO)	Blood Type (Rh)	Other
Ala.	-	-	12,987	-
Alaska	-	4,642	5,904	-
Ariz.	-	5,880	5,880	-
Ark.	35	937	1,049	17 (y)
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	-	-	-	2,945 (z)
Del.	230	-	-	-
D.C.	38,322	2,415	2,415	33,634
Fla.	27,558	690	17,710	-
Ga.	-	93,439	93,446	12,729
Hawaii	-	1,561	1,561	-
Ida.	-	-	-	1,419 (aa)
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	-
Kans.	-	-	-	-
Ky.	298	-	-	-
La.	581	-	-	822 (bb)
Me.	-	1,076	12,283	-
Md.	22,959	8,477	22,724	2,850
Mass.	-	-	-	-
Mich.	8,463	8,067	10,560	345
Minn.	-	-	-	-
Miss.	25,581	1,351	10,081	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	498	1,420	710	-
N.H.	5,757	-	-	-
N.J.	5,300	280	280	355 (cc)
N.M.	-	996	999	-
N.Y.	1,000	8,495	8,495	4,179 (dd)
N.C.	38	-	-	-
N.D.	-	5,271	11,317	-
Ohio	2,340	1,493	1,445	-
Okla.	204	3,694	2,730	-
Ora.	-	-	-	-
Pa.	80	142	40	-
R.I.	-	-	-	-
S.C.	12,479	-	16,166	232
S.D.	-	-	-	-
Tenn.	-	19,964	20,404	-
Tex.	-	-	-	-
Utah	400	-	-	800
Vt.	-	-	-	-
Va.	-	3,875	875	-
Wash.	-	-	-	-
W.Va.	192	-	-	-
Wisc.	-	13	15,959	13
Wyo.	-	-	-	-
Guam	4,200	676	676	1,444 (y)
P.R.	28,071	3,684	8,908	9,392 (y)
V.I.	-	-	-	-

TABLE 11-29. PATHOLOGIC ANATOMY

	Total Specimens	Total Exams	Cytology, Exfoliative	Cytology, Chromosome	Tissue, Human, Micro.	Tissue, Animal, Micro.	Tissue, Gross
Ala.	22,050	44,100	44,100	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	-	-	-	-	-	-	-
Del.	58,355	58,355	58,355	-	-	-	-
D.C.	68,589	68,595	68,436	-	53	106	-
Fla.	-	-	-	-	-	-	-
Ga.	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-
Ida.	164	164	-	153	11	-	-
Ill.	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-
Kans.	-	-	-	-	-	-	-
Ky.	-	-	-	-	-	-	-
La.	12,351	12,351	2,777	-	4,787	-	4,787
Me.	-	-	-	-	-	-	-
Md.	47,633	48,222	48,222 (ee)	-	-	-	-
Mass.	-	-	-	-	-	-	-
Mich.	-	-	-	-	-	-	-
Minn.	240	960	-	960	-	-	-
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-
Mont.	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-
N.M.	-	-	-	-	-	-	-
N.Y.	*	17,653	11,013	-	2,559	761	3,320 (ff)
N.C.	120,452	120,452	120,452	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-
Ore.	11	11	-	-	-	-	11
Pa.	-	-	-	-	-	-	-
R.I.	-	-	-	-	-	-	-
S.C.	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Vt.	-	-	-	-	-	-	-
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	14,143	27,871	27,871	-	-	-	-
Wisc.	137,682	137,682	124,415	444	12,394	429	-
Wyo.	-	-	-	-	-	-	-
Guam	4,872	4,872	4,872	-	-	-	-
P.R.	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-

TABLES 11-25 - 11-29. FOOTNOTES

- (a) Referred to CDC.
- (b) Includes 44 miscellaneous parasitological serology exams not shown in breakdown.
- (c) Referred.
- (d) Includes 35 Trypanosomiasis exams, with 1 positive, not shown in further breakdown.
- (e) Rubella.
- (f) Includes Gel diffusion, 3,454 exams, 324 positives, and counterelectrophoresis, 514 exams, 94 positives not shown in further breakdown.
- (g) Viral and Rickettsial specimens done in New Jersey Virus Laboratory.
- (h) Includes rubella.
- (i) Screening for rubella on prenatals.
- (j) Hepatitis, 1,317,827 exams, 2,790 positives; CNS, 57,524 exams, 1,386 positives.
- (k) Includes rubella, 58,652 exams, 9,769 positives.
- (l) Includes Murine Typhus, 68 exams with no reported positives; RMSF, 483 exams, 87 positives; and Q Fever, 34 exams, no reported positives.
- (m) Influenza 188; Rubella, 20,588.
- (n) Includes 4,609 positive rubella specimens.
- (o) Includes 1,404 exams, 97 positives not shown in breakdown which are as follows: Typhus CF, 416 exams, 26 positives; Q Fever, 432 exams, 25 positives; Rocky Mountain Spotted Fever, 278 exams, 24 positives; Rickettsialpox, 278 exams, 22 positives.
- (p) "HI and/or HAdI" included with "Complement Fixation."
- (q) Included with Rabies.
- (r) Lupus and others.
- (s) Arbovirus, 52,715 exams, 332 positives; Mumps (hemadsorption), 15,800 exams, 45 positives.
- (t) Specimens are counted under "Hematology or Blood Bank."
- (u) Includes Indirect Coombs, 12,729 exams, and Rh Antibody titration, 71.
- (v) IEOP Australia Antigen.
- (w) D^u, Coombs.
- (x) Other specimens counted under Syphilis Serology - Blood.
- (y) Differential.
- (z) Complete blood count.
- (aa) Micro-hematocrit.
- (bb) Color index, 250; differential counts, 251; PCV, 321.
- (cc) Antibody screen.
- (dd) Rh sensitization.
- (ee) Includes 12,445 cervical irrigation specimens.
- (ff) Represents total tissue.

TABLE 11-30. SANITARY BACTERIOLOGY: TOTAL SPECIMENS AND EXAMS

	Total Specimens	Total Exams
Ala.	109,306	233,837
Alaska	13,487	15,181
Ariz.	34,568	43,469
Ark.	39,538	54,113
Cal.	*	*
Colo.	*	*
Conn.	34,457	72,267
Del.	5,184	20,440
D.C.	9,440	27,338
Fla.	175,367	219,695
Ga.	22,954	65,078
Hawaii	18,685	31,304
Ida.	27,639	45,327
Ill.	55,095	82,801
Ind.	45,687	59,269
Ia.	51,973	162,370
Kans.	52,467	71,239
Ky.	31,592	91,708
La.	200,632	200,632
Me.	14,177	23,662
Md.	70,845	117,510
Mass.	45	*
Mich.	88,716	107,876
Minn.	5,615	9,167
Miss.	59,212	87,237
Mo.	67,579	101,702
Mont.	13,084	16,595
Nebr.	19,711	20,036
Nev.	18,554	26,650
N.H.	-	-
N.J.	16,228	22,832
N.M.	25,095	24,795
N.Y.	44,612	97,563
N.C.	33,216	143,965
N.D.	23,814	43,343
Ohio	67,493	68,363
Okla.	49,953	90,081
Ore.	39,983	50,161
Pa.	24,606	35,998
R.I.	3,998	11,494
S.C.	54,536	74,338
S.D.	15,997	28,483
Tenn.	51,063	81,657
Tex.	308,385	692,107
Utah	20,766	24,808
Vt.	18,686	20,162
Va.	78,800	103,706
Wash.	13,992	25,292
W.Va.	28,533	39,184
Wisc.	61,116	61,557
Wyo.	8,294	8,980
Guam	1,068	4,005
P.R.	14,426	74,052
V.I.	2,448	5,678

TABLE 11-31. SANITARY BACTERIOLOGY: WATER

	Drinking Water		Swimming Pools		Waste Water	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	43,855	55,144	416	635	581	1,711
Alaska	12,982	14,073	45	45	5	5
Ariz.	31,269	32,644	180	180	72	82
Ark.	33,336	30,706	1,005	1,005	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	5,825	6,202	360	783	337	411
Del.	3,515 (a)	3,714 (a)	(a)	(a)	-	-
D.C.	898	1,796	42	42	164	492
Fla.	113,295	113,295	14,995	14,995	21,009	42,018
Ga.	-	-	-	-	-	-
Hawaii	6,022	7,921	5,816	9,689	1,291	2,544
Ida.	17,317	17,621	1,274	2,261	2,841	3,163
Ill.	32,478	21,671	13,503	29,307	-	-
Ind.	29,094	29,362	3,261	6,522	5,265	8,383
Ia.	37,207	111,621	1,006	3,108	154	770
Kans.	37,160	37,160	2,426	2,426	2,498	3,252
Ky.	20,282	24,034	-	-	-	-
La.	-	-	-	-	56,998	56,998
Me.	13,332	22,039	781	1,329	50	220
Md.	30,167	35,649	3,495	5,977	1,924	2,020
Mass.	-	-	-	-	-	-
Mich.	57,283	60,174	4,665	7,986	14,854	26,114
Minn.	5,543	5,543	*	3,336 (b)	*	(b)
Miss.	27,303	27,303	-	-	-	-
Mo.	60,111	64,274	1,218	1,203	222 (c)	2,298
Mont.	11,750	15,261	-	-	-	-
Nebr.	18,326	18,326	-	-	1,314 (d)	1,572
Nev.	12,957	12,957	2,159 (b)	2,159 (b)	(b)	(b)
N.H.	-	-	-	-	-	-
N.J.	8,111	8,376	178	178	3,432	4,082
N.M.	21,407	23,213	*	*	*	*
N.Y.	35,772	71,544	1,672	5,016	605	1,210
N.C.	32,738	143,482	478	483	-	-
N.D.	6,128	6,128	631	1,597	-	-
Ohio	64,470	64,470	300	301	2,473 (e)	2,855
Okla.	31,647	35,728	2,929	3,554	146	391
Ore.	36,333	40,465	320	607	3,330	9,089
Pa.	20,000	30,000	3,200	3,200	1,320	2,640
R.I.	-	-	-	-	-	-
S.C.	32,078	32,679	11,471	13,385	-	-
S.D.	14,078 (f)	15,447	(f)	3,379	(f)	2,109 (g)
Tenn.	27,257 (a)	27,257 (a)	(a)	(a)	-	-
Tex.	209,822 (a)	320,268 (a)	(a)	(a)	806 (h)	3,224
Utah	17,057	17,537	2,052	4,104	1,597	2,968
Vt.	17,325	17,500	1,319	2,620	-	-
Va.	44,099	44,099	-	-	-	-
Wash.	11,322	19,024	332	664	1,393	3,793
W. Va.	19,875	19,875	1,814	1,818	918	2,761
Wisc.	55,998	55,998	1,124	1,124	3,967 (i)	4,408
Wyo.	7,719	8,111	256	262	314	602
Guam	189	699	96	209	-	-
P.R.	6,026	30,130	106	3,392	100	3,000
V.I.	1,184	1,894	-	-	508	1,016

TABLE 11-32. SANITARY BACTERIOLOGY: DAIRY PRODUCTS

	Milk and Cream		Frozen Desserts		Other Dairy Products	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	32,569	88,762	26,739	74,766	1,663	3,273
Alaska	176	447	-	-	-	-
Ariz.	2,332	8,935	-	-	408	413
Ark.	2,842	15,067	412	1,648	613	489
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	17,227	45,601	1,709	3,418	1,167	3,192
Del.	1,061	4,244	-	-	-	-
D.C.	4,359	13,077	371	1,113	81	243
Fla.	12,077	24,154	5,404	10,808	1,914	3,828
Ga.	21,947	64,036 (j)	90	270	419	(j)
Hawaii	2,148	4,922	1,940	3,880	251	251
Ida.	4,686	18,397	-	-	9	9
Ill.	7,358	22,915	-	-	547	6,152
Ind.	3,791	6,545	1,715	4,083	905	1,111
Ia.	6,744	33,120	408	2,050	241	964
Kans.	6,943	18,508	1,830	5,476	1,105	3,084
Ky.	10,472	46,712	-	-	-	-
La.	136,619 (k)	136,619 (k)	(k)	(k)	(k)	(k)
Me.	-	-	-	-	-	-
Md.	12,242	26,805	3,593	7,172	764	1,517
Mass.	-	-	-	-	-	-
Mich.	10,255	11,646	52	52	-	-
Minn.	-	-	-	-	-	-
Miss.	30,985 (k)	57,978 (k)	(k)	(k)	(k)	(k)
Mo.	4,490	22,768 (l)	41	(1)	117	(1)
Mont.	515	515	794	794	-	-
Nebr.	71	138	-	-	-	-
Nev.	3,249	10,609	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	2,620	5,240	-	-	-	-
N.M.	*	*	*	*	*	*
N.Y.	6,353	19,059	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	7,847	24,325	2,085	4,170	-	-
Ohio	140	363	-	-	-	-
Okla.	13,901	47,949	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	*	32
S.C.	8,344	16,912	675	2,674	192	301
S.D.	1,919	7,548	-	-	-	-
Tenn.	18,738	48,678	-	-	-	-
Tex.	97,021 (k)	366,170 (k)	(k)	(k)	(k)	(k)
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	31,805	51,147	2,840	8,319	24	24
Wash.	122	593	80	160	-	-
W.Va.	5,546	14,222	-	-	349	446
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	323	969	181	543	-	-
P.R.	2,016	12,096	245	1,470	90	360
V.I.	502	2,048	50	160	-	-

TABLE 11-33. SANITARY BACTERIOLOGY: FOODS

	Food Poisoning		Food Quality		Beverages	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	118	651	1,561	3,750	19	38
Alaska	102	290	144	288	-	-
Ariz.	307	1,215	-	-	-	-
Ark.	161	1,704	351	2,676	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	274	830	8	18	4	9
Del.	66 (m)	594 (m)	-	-	-	-
D.C.	-	-	3,525	10,575	-	-
Fla.	315	1,260	993	3,972	(n)	(n)
Ga.	30	240	51	51	-	-
Hawaii	180	628	152	530	15	15
Ida.	513 (o)	1,815 (o)	(o)	(o)	-	-
Ill.	143	858	716	924	48	68
Ind.	66	211	374	755	1,105	2,092
Ia.	7	56	-	-	-	-
Kans.	-	-	308	939	-	-
Ky.	-	-	482 (p)	13,637 (p)	(p)	(p)
La.	139	139	1,217 (p)	1,217 (p)	(p)	(p)
Me.	14	74	-	-	-	-
Md.	960 (o)	3,023 (o)	(o)	(o)	-	-
Mass.	45	*	-	-	-	-
Mich.	148	402	-	-	-	-
Minn.	72	288	-	-	-	-
Miss.	18	36	-	-	-	-
Mo.	36 (o)	2,472 (o)	(o)	(o)	1,205	8,493
Mont.	25	25	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	108	540	73	365	-	-
N.H.	-	-	-	-	-	-
N.J.	81	145	409	818	-	-
N.M.	*	*	2,106	*	*	*
N.Y.	131	655	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	110	374	-	-	-	-
Okla.	32	83	574	1,461	29	68
Ore.	-	-	-	-	-	-
Pa.	86	158	-	-	-	-
R.I.	24	72	3,397	10,191	106	380
S.C.	-	-	1,603	7,541	(q)	-
S.D.	-	-	-	-	-	-
Tenn.	327	981	-	-	-	-
Tex.	*	*	*	*	*	*
Utah	44	183	-	-	-	-
Vt.	10	10	12	12	<10	<10
Va.	32	117	-	-	-	-
Wash.	412	737	10	20	-	-
W.Va.	-	-	-	-	-	-
Wisc.	27	27	-	-	-	-
Wyo.	-	-	5	5	-	-
Guam	42	512	88	515	140	420
P.R.	69	2,848	51	2,030	210	6,930
V.I.	-	-	-	-	8	8

TABLE 11-34. SANITARY BACTERIOLOGY: SEA FOODS AND MISCELLANEOUS

	Sea Foods		Food Utensil Count		Miscellaneous	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
Ala.	1,225	4,063	560	1,044	-	-
Alaska	18	18	-	-	15 (r)	15
Ariz.	-	-	-	-	-	-
Ark.	-	-	818	818	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	19	57	529	529	6,998 (s)	11,217 (s)
Del.	60	280	-	-	482 (t)	11,608
D.C.	-	-	-	-	-	-
Fla.	(u)	(u)	5,365	5,365	-	-
Ga.	44	108	-	-	373 (v)	373
Hawaii	-	-	870	924	-	-
Ida.	-	-	999	2,061	-	-
Ill.	-	-	-	-	302	906
Ind.	111	205	-	-	-	-
Ia.	-	-	422	422	5,784 (w)	10,259
Kans.	-	-	197	394	-	-
Ky.	-	-	-	-	356	7,325
La.	2,655	2,655	3,004	3,004	-	-
Me.	-	-	-	-	-	-
Md.	2,111	6,419	1,127	2,092	14,462 (x)	26,836 (x)
Mass.	-	-	-	-	-	-
Mich.	-	-	1,459	1,502	-	-
Minn.	-	-	-	-	-	-
Miss.	351	862	-	-	555 (y)	1,068
Mo.	-	-	139	194	-	-
Mont.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Nev.	3	15	5	5	-	-
N.H.	-	-	-	-	-	-
N.J.	1,397	3,993	-	-	-	-
N.M.	-	-	1,582	1,582	-	-
N.Y.	-	-	79	79	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	3,089	3,089	4,034 (z)	4,034
Ohio	-	-	-	-	-	-
Okla.	-	-	695	847	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	174	522	297	297	-	-
S.C.	36	72	137	774	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	4,741	4,741
Tex.	3	21	479	1,916	254 (au)	508
Utah	-	-	16	16	-	-
Vt.	<10	<10	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	114	155	38	38	169 (v)	108
W.Va.	-	-	31	62	-	-
Wisc.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Guam	3	98	6	40	-	-
P.R.	18	816	4,904	9,808	591	1,172
V.I.	-	-	196	552	-	-

TABLES 11-30 - 11-34. FOOTNOTES

- (a) "Swimming Pools" included in "Drinking Water" total.
- (b) "Waste Water" included with "Swimming Pools."
- (c) River water.
- (d) Includes streams.
- (e) Recreational.
- (f) "Waste Water" and "Swimming Pools" included with "Drinking Water."
- (g) Water pollution examinations.
- (h) Includes rivers and lakes.
- (i) Includes surface waters.
- (j) "Other Dairy Products" included with "Milk and Cream."
- (k) "Frozen Desserts" and "Other Dairy Products" included with "Milk and Cream."
- (l) "Frozen Desserts" and "Other Dairy Products" included in Split Sample Containers with "Milk and Cream."
- (m) Represents Food Contamination of "Beverages" and "Frozen Desserts."
- (n) Included with "Drinking Water" under chemistry and bacteriology.
- (o) "Food Quality" included with "Food Poisoning."
- (p) "Beverages" included with "Food Quality."
- (q) "Beverages" included in Milk figures.
- (r) Hospital Environmental Samples.
- (s) Sea, bathing area, 1,188 specimens, 1,188 exams; surface, sea and raw public supply, 4,045 specimens, 7,032 exams; sea, shellfish area, 1,017 specimens, 2,034 exams; meat serology, 37 specimens, 153 exams; incinerator waste, 54 specimens, 54 exams; sterility tests, 170 specimens, 216 exams; foods for Salmonella surveillance, 409 specimens, 409 exams; other, 78 specimens, 131 exams.
- (t) Shellfish waters.
- (u) Included with "Food Quality."
- (v) Environmental Samples.
- (w) Limnology (algae, etc.).
- (x) Shellfish waters, 7,162 specimens, 12,696 exams; stream waters, 7,300 specimens, 14,140 exams.
- (y) Seawater.
- (z) Rodac Plates.
- (aa) Lactobacillus counts.

TABLE 11-35. CLINICAL CHEMISTRY: TOTAL SPECIMENS AND EXAMS AND BLOOD SPECIMENS AND EXAMS

	Total Specimens	Total Exams	Blood Specimens	Blood Exams
Ala.	90,748	90,835	2,562	2,562
Alaska	172	172	-	-
Ariz.	8,076	27,588	33	33
Ark.	21,066	24,299	2,244	2,480
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	96,762	151,257	2,072	7,697
Del.	20,299	24,919	-	-
D.C.	27,922	58,943	27,922	58,943 (a)
Fla.	142,174	142,307	67,774	67,774
Ga.	78,163	78,680	5,096	5,060
Hawaii	318	954	308	924
Ida.	13,706	13,706	-	-
Ill.	4,088	4,088	-	-
Ind.	-	-	-	-
Ia.	7,423	2,920	2,920 (b)	2,649
Kans.	19,376	19,407	-	-
Ky.	57,433	58,412	14,895	14,895
La.	74,604	74,604	-	-
Ma.	30,795	30,795	-	-
Md.	126,079	175,110	44,645	40,039
Mass.	92,231	184,469	-	-
Mich.	149,420	186,250	21,017	35,828
Minn.	79,777	79,866	-	-
Miss.	122,924	122,924	122,924	122,924
Mo.	53,662	55,759	7,525	7,525
Mont.	12,095	13,237	-	1,142
Nebr.	785	785	-	-
Nev.	13,196	13,196	-	-
N.H.	35,954	40,605	10,828	14,087
N.J.	98,467	121,103	*	22,270
N.M.	17,131	17,131	-	-
N.Y.	*	349,235	*	81,009
N.C.	140,409	287,328	46,577	191,991
N.D.	-	-	-	-
Ohio	235,808	270,127	51,848	86,107
Okla.	37,836	38,093	3,527	3,527
Ore.	139,174	146,238	-	-
Pa.	*	114,876	*	3,089
R.I.	42,731	132,099	32,817	43,342
S.C.	36,256	70,718	*	1,604
S.D.	-	-	-	-
Tenn.	73,395	73,395	7,652	7,652
Tex.	*	169,822	*	17,957
Utah	866	12,830	466	9,230
Vt.	18,593	22,712	18,593	22,712
Va.	110,968	111,354	15,992	15,992
Wash.	15,399	15,420	-	-
W.Va.	35,533	134,207	12,362	108,597
Wisc.	135,792	136,265	135,785 (c)	95,051
Wyo.	-	-	-	-
Guam	4,365	*	918	918
P.R.	*	48,082	*	48,045
V.I.	3,984	5,247	3,094	3,373

TABLE 11-36. CLINICAL CHEMISTRY: BLOOD

	Glucose	Cholesterol	Urea Nitrogen	Uric Acid	Trans-aminase	Other
Ala.	2,562	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	33	-	-	-	-	-
Ark.	1,882	7	218	180	185	8
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	1,598	1,527	1,527	1,547	-	1,498
Del.	-	-	-	-	-	-
D.C.	24,766	9	24,766	21	36L	1,471
Fla.	36,712	10,100	1,031	10,148	99 (d)	9,684
Ga.	3,675	1,385	-	-	-	-
Hawaii	308	308	-	308	-	-
Ida.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ia.	672	694	569	276	-	438
Kans.	-	-	-	-	-	-
Ky.	14,895	-	-	-	-	-
La.	-	-	-	-	-	-
Me.	-	-	-	-	-	-
Md.	19,617	1,710	10,009	1,796	1,636	5,271
Mass.	-	-	-	-	-	-
Mich.	16,433	2,913	4,777	3,026	544	8,135
Minn.	-	-	-	-	-	-
Miss.	122,080	-	844	-	-	-
Mo.	7,525	-	-	-	-	-
Mont.	-	1,110	-	-	-	32 (e)
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	6,862	310	5,217	160	-	1,538
N.J.	1,797	15	428	53	11,624	8,353 (f)
N.M.	-	-	-	-	-	-
N.Y.	29,944	7,935	20,299	20,275	1,412	1,144
N.C.	46,477	13,266	13,261	13,268	11,980	93,739
N.D.	-	-	-	-	-	-
Ohio	71,434	5,419	4,635	4,255	-	364 (g)
Okla.	2,832	695	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	2,149	338	309	293	-	-
R.I.	15,121	4,966	10,085	5	198	12,967 (h)
S.C.	-	-	1,515	89	-	-
S.D.	-	-	-	-	-	-
Tenn.	7,652	-	-	-	-	-
Tex.	17,957	-	-	-	-	-
Utah	466	466	466	466	466	6,900
Vt.	16,381	2,112	-	2,108	-	2,111 (i)
Va.	15,992	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	12,098	8,750	8,783	8,782	8,749	61,435
Wisc.	72,322	7,162	2,630	3,703	371	8,863
Wyo.	-	-	-	-	-	-
Guam	516	7	149	246	-	-
P.R.	20,693	2,389	5,601	1,138	7,675	10,549
V.I.	3,373	-	-	-	-	-

TABLE 11-37. CLINICAL CHEMISTRY: URINE AND OTHER

	Urine		Other	
	Specimens	Exams	Specimens	Exams
Ala.	98	98	1,211 (j)	1,211
Alaska	-	-	-	-
Ariz.	8,043	27,555	-	-
Ark.	416	3,344	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	6,425 (k)	6,425 (k)	-	48,870 (l)
Del.	1,155	5,775	-	-
D.C.	-	-	-	-
Fla.	527	527	-	-
Ga.	-	-	-	-
Hawaii	10	30	-	-
Ida.	-	-	-	-
Ill.	-	-	-	-
Ind.	-	-	-	-
Ia.	-	-	-	271
Kans.	771	771	-	-
Ky.	459	1,438	-	-
La.	1,466	1,466	14,950 (m)	14,950 (m)
Me.	-	-	-	-
Md.	17,306 (n)	70,607	164 (o)	164
Mass.	-	-	-	-
Mich.	9,335	31,421	25	187
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	-	-	-	-
Mont.	-	-	-	-
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	5,443	5,564	116	168
N.J.	*	242	-	-
N.M.	-	-	-	-
N.Y.	-	-	*	88,474 (p)
N.C.	-	-	-	-
N.D.	-	-	-	-
Ohio	104	(q)	-	-
Okla.	*	263	-	-
Ore.	-	-	-	-
Pa.	*	95	-	-
R.I.	9,914	54,809	-	-
S.C.	*	26,668	*	6,190
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	-	-	-	-
Utah	400	3,600	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	(r)	21 (r)
W.Va.	-	-	172 (s)	172
Wisc.	-	491	-	40,716
Wyo.	-	-	-	-
Guam	2,129	*	-	-
P.R.	*	37	-	-
V.I.	890	1,874	-	-

TABLE 11-38. CLINICAL CHEMISTRY: PHENYLKETONURIA

	Specimens	Exams	Screening Test		Confirmatory Test	
			Exams	Positives	Exams	Positives
Ala.	86,877	86,891	86,877	*	14	*
Alaska	86	86	86	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	18,406	18,475	18,475	131	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	88,265	88,265	88,196	6	69	69
Del.	19,144	19,144	19,144	-	-	-
D.C.	-	-	-	-	-	-
Fla.	73,873	74,006	73,873	590	133	*
Ga.	73,067	73,620	73,007	483	613	2
Hawaii	-	-	-	-	-	-
Ida.	13,706 (t)	13,706 (t)	12,609	159	-	-
Ill.	4,088	4,088	4,072	3	16	16
Ind.	-	-	-	-	-	-
Ia.	4,503	*	*	2	*	506
Kans.	18,605	18,636	18,605	118	31	1
Ky.	42,079	42,079	42,079	152	-	-
La.	58,188	58,188	58,128	189	60	43
Me.	30,795	30,795	30,701	-	94	1
Md.	63,964	64,300	63,964	68	336	*(u)
Mass.	92,231	92,238	92,231	7	7	7
Mich.	119,043	118,814	118,814	6	*	*
Minn.	79,777	79,866	79,690	23	176	19
Miss.	-	-	-	-	-	-
Mo.	46,137	48,234	48,234	64	-	-
Mont.	12,095	12,095	12,095	2	-	-
Nebr.	785	785	785	-	-	-
Nev.	13,196	13,196	13,196	1	*	1
N.H.	19,567	20,786	20,783	6	3	3
N.J.	98,467	98,591	98,467	161	124	10
N.M.	17,131	17,131	17,131	*	-	-
N.Y.	*	89,932	89,892	*	40	*
N.C.	93,832	95,337	95,337 (v)	*	(v)	*
N.D.	-	-	-	-	-	-
Ohio	183,856	184,020	183,791	51	229	10
Okla.	34,309	34,303	34,303	255	*	5
Ore.	71,635	75,177	75,157	186	20	-
Pa.	*	111,692	111,287	*	405	*
R.I.	*	22,381	22,381	-	-	-
S.C.	36,256	36,256	36,256	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	65,743	65,743	65,743	147	-	-
Tex.	*	151,865	151,395	-	470	-
Utah	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Va.	94,976	95,362	94,976	1,116	386	*
Wash.	15,399	15,399	15,155	4	244 (w)	1
W.Va.	22,999	25,438	22,910	*	2,528	*
Wisc.	7	7	-	-	7	1
Wyo.	-	-	-	-	-	-
Guam	1,318	*	*	-	*	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-39. CLINICAL CHEMISTRY: MAPLE SYRUP URINE DISEASE

	Specimens	Exams	Positives
Ala.	*	73	1
Alaska	86	86	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	*	*	*
Conn.	-	-	-
Del.	-	-	-
D.C.	-	-	-
Fla.	-	-	-
Ga.	-	-	-
Hawaii	-	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	-	-	-
Ia.	-	-	-
Kans.	-	-	-
Ky.	-	-	-
La.	-	-	-
Me.	-	-	-
Md.	-	-	-
Mass.	*	92,231	-
Mich.	-	-	-
Minn.	-	-	-
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	-	-	-
N.M.	-	-	-
N.Y.	*	89,820	*
N.C.	-	-	-
N.D.	-	-	-
Ohio	-	-	-
Okla.	-	-	-
Ore.	67,539	71,061	1
Pa.	-	-	-
R.I.	*	11,567	-
S.C.	-	-	-
S.D.	-	-	-
Tenn.	-	-	-
Tex.	-	-	-
Utah	-	-	-
Vt.	-	-	-
Va.	-	-	-
Wash.	-	-	-
W.Va.	-	-	-
Wisc.	-	-	-
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLES 11-35 - 11-39. FOOTNOTES

- (a) Includes 7,549 exams not shown in further breakdown.
- (b) Reference laboratory specimens for State laboratory improvement programs.
- (c) Includes "Urine" and "Other Clinical Chemistry" with "Blood."
- (d) SGOT.
- (e) Triglyceride.
- (f) Calcium, 42; Chloride, 82; Creatinine, 12; Alkaline Phosphatase, 3,405; Bilirubin, 3,790; Potassium, 106; Lactic Dehydrogenase, 10; Sodium, 168; Total Protein, 738.
- (g) Lead and metals.
- (h) Glucose, 12,607; creatinine, 360.
- (i) Creatinine.
- (j) Total Protein CSF.
- (k) Diabetes screening on filter paper, 6,293; Other, 132.
- (l) Galactosemia screening test. Tests are done on blood specimens on filter paper submitted for PKU.
- (m) Meat, 3,337; Miscellaneous food, 3,219; Seafood - including Waters from oyster beds, 6,435; drugs, 93; beverages, 1,684; soaker solution, 182.
- (n) Includes 1,635 pregnancy tests.
- (o) Fecal examinations.
- (p) Galactosemia, 88,169; Other, 305.
- (q) Included with "Blood."
- (r) Examinations represent Spinal Fluid Total Protein. Specimens counted under Serology, Syphilis.
- (s) Amino Acids.
- (t) Includes 1,097 samples and tests which were done as follow-up (6 weeks), repeats or diet control.
- (u) Positives referred to Johns Hopkins Hospital for follow-up.
- (v) Confirmatory test included with screening test total.
- (w) Includes 225 diet control tests on known positives.

TABLE 11-40. SANITARY CHEMISTRY: WATER

	Total Specimens	Total Exams	Drinking Water	Swimming Water	Waste Water, Sewage	Continuous Monitoring
Ala.	32,389	39,419	39,144	259	16	X
Alaska	1,998	5,361	1,400	-	3,961	-
Ariz.	1,646	20,339	18,331	-	2,008	-
Ark.	-	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	10,542	61,583	49,591	760	11,232 (a)	-
Del.	-	-	-	-	-	-
D.C.	462	1,555	1,555	-	-	-
Fla.	6,760	15,236	15,236 (b)	(b)	(c)	(c)
Ga.	-	-	-	-	-	-
Hawaii	810	6,545	1,654	3,797	1,094	-
Ida.	4,498	55,319	5,945	(d)	49,374	-
Ill.	(e)	51,038	28,115	22,785	138	-
Ind.	8,366	48,793	10,303	-	38,490	-
Ia.	27,431	59,389	37,717	4	21,668	X
Kans.	11,259	73,095	22,605	2,000	48,490	-
Ky.	2,709	9,547	9,547	-	-	-
La.	9,708	9,708	9,527 (f)	-	181	-
Me.	13,364	173,380	172,080	250	1,050	-
Md.	10,261	62,056	42,852	-	19,204 (g)	-
Mass.	-	-	-	-	-	-
Mich.	18,718	81,212	46,858	-	34,354	-
Minn.	*	50,666	23,331	27,335 (h)	(h)	-
Miss.	-	-	-	-	-	-
Mo.	3,068	19,431	19,431	-	-	-
Mont.	*	*	*	*	*	*
Nebr.	1,543	26,636	9,092	93	17,451 (g)	-
Nev.	2,330	31,383	24,298	-	7,085	-
N.H.	-	-	-	-	-	-
N.J.	10,890	93,414	14,803	78,611 (h)	(h)	-
N.M.	*	*	*	*	*	-
N.Y.	10,829	253,260	143,220	-	110,040	-
N.C.	6,209	59,798	59,798	-	-	-
N.D.	1,740	8,128	5,790	48	2,290	-
Ohio	4,557	84,525	55,325	920	28,280	-
Okla.	911 (i)	4,001	4,001	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	*	15,084	15,084	-	-	-
S.D.	3,658	8,774	8,774	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	15,116	153,295	83,080	-	70,215	-
Utah	2,598	42,666	28,721	-	13,945	-
Vt.	3,656	18,953	18,953	-	-	-
Va.	6,893	*	*	*	*	*
Wash.	2,224	23,101	23,101	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	14,867	47,606	15,911	-	31,695	X
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	3,530	6,633	6,633	-	-	-
V.I.	328	657	557	100	-	-

TABLE 11-41. SANITARY CHEMISTRY: MILK AND CREAM, MISCELLANEOUS

	Milk and Cream		Miscellaneous	
	Total Specimens	Total Exams	Specimens	Exams
Ala.	16,066	34,960	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	10,521	18,900	16,787 (j)	108,606 (j)
Del.	-	-	-	-
D.C.	4,847	5,898	3,436 (k)	27,688
Fla.	12,077	24,154	-	-
Ga.	-	-	-	-
Hawaii	2,910	6,260	-	-
Ida.	237	237	-	-
Ill.	-	524	-	14,071 (l)
Ind.	3,791	6,526	-	-
Ia.	1,369	2,738	-	-
Kans.	-	-	-	-
Ky.	-	-	83 (m)	401
La.	-	-	20,226 (n)	20,226
Me.	-	-	-	-
Md.	17,946 (o)	49,417	-	-
Mass.	-	-	-	-
Mich.	4,854	9,490	-	-
Minn.	-	-	-	-
Miss.	(p)	(p)	-	-
Mo.	1,027	1,224	-	-
Mont.	*	*	*	*
Nebr.	41	41	-	-
Nev.	1,046	1,790	-	-
N.H.	-	-	-	-
N.J.	2,028	4,193	-	-
N.M.	-	-	-	-
N.Y.	*	76	-	-
N.D.	-	-	-	-
Ohio	-	-	201 (q)	201
Okla.	-	-	-	-
Ore.	-	-	-	-
Pa.	-	-	-	-
R.I.	-	-	-	-
S.C.	8,344 (r)	19,962	-	-
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	2,164	3,587	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	-	-
Wisc.	-	-	-	-
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	*	5,757	-	-
V.I.	252	504	-	-

TABLE 11-42. AIR POLLUTION

	Total Samples	Total Exams	Discrete Sampling	Continuous Sampling	No. of Stations
Ala.	-	-	-	-	-
Alaska	(s)	-	-	-	-
Ariz.	2,149	2,149	X	X	1
Ark.	-	-	-	-	-
Cal.	*	*	*	*	*
Colo.	*	*	*	*	*
Conn.	3,751	7,035	X	(t)	-
Del.	-	-	-	-	-
D.C.	(u)	-	-	-	-
Fla.	619 (v)	619	-	-	-
Ga.	-	-	-	-	-
Hawaii	(w)	-	-	-	-
Ida.	3,002	4,837	-	-	2
Ill.	-	-	-	-	-
Ind.	(x)	-	-	-	-
Ia.	4,473	4,838	X	X	*
Kans.	212	1,937	X	X	46
Ky.	13,228	13,228	-	-	-
La.	60	60	X	-	-
Me.	-	-	-	-	-
Md.	9,981	14,781	X	X	122 (y)
Mass.	-	-	-	-	-
Mich.	-	-	-	-	-
Minn.	*	13,150	-	-	-
Miss.	-	-	-	-	-
Mo.	-	-	-	-	-
Mont.	*	*	*	*	*
Nebr.	-	-	-	-	-
Nev.	450	450	X	X	3
N.H.	-	-	-	-	-
N.J.	-	-	-	-	-
N.M.	*	4,985	*	-	-
N.Y.	9,964	19,928	-	-	134
N.C.	-	-	-	-	-
N.D.	3,150	5,350	X	X	1
Ohio	2,925	3,242	X	-	-
Okla.	-	-	-	-	-
Ore.	-	-	-	-	-
Pa.	-	-	-	-	-
R.I.	-	-	-	-	-
S.C.	-	-	-	-	-
S.D.	-	-	-	-	-
Tenn.	-	-	-	-	-
Tex.	*	179	-	-	-
Utah	778	797	X	-	-
Vt.	-	-	-	-	-
Va.	-	-	-	-	-
Wash.	(z)	-	-	-	-
W.Va.	-	-	-	-	-
Wisc.	2,172	2,172	X	X	80
Wyo.	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	-	-	-	-	-
V.I.	-	-	-	-	-

TABLE 11-43. OCCUPATIONAL HEALTH AND SAFETY

	Total Specimens	Chemical Analysis	Investigations, Field
Ala.	-	-	-
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	*	*	*
Conn.	243	900	- (aa)
Del.	(bb)	-	-
D.C.	10,507	11,510	-
Fla.	- (aa)	-	-
Ga.	-	-	-
Hawaii	(cc)	-	-
Ida.	-	-	-
Ill.	-	-	-
Ind.	(x)	-	-
Ia.	484	6,282	96
Kans.	-	-	-
Ky.	596	2,596	-
La.	-	-	-
Me.	-	-	-
Md.	278	489	-
Mass.	-	-	-
Mich.	-	-	-
Minn.	-	-	-
Miss.	-	-	-
Mo.	128	128	-
Mont.	*	*	*
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	*	2,382	5,376
N.M.	*	14,375	-
N.Y.	-	-	-
N.C.	-	-	-
N.D.	-	-	-
Ohio	244	392	-
Okla.	-	-	-
Ore.	-	-	-
Pa.	-	-	-
R.I.	-	-	-
S.C.	-	-	-
S.D.	-	-	-
Tenn.	-	-	-
Tex.	-	-	-
Utah	967	967	-
Vt.	-	-	-
Va.	-	-	-
Wash.	-	-	-
W.Va.	-	-	-
Wisc.	1,284	2,346	154
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLES 11-40 - 11-43. FOOTNOTES

- (a) Includes surface water, 3,830 exams.
- (b) "Swimming Waters" included with "Drinking Water."
- (c) Performed by Department of Pollution Control and in city or county pollution control agencies.
- (d) Included in one of the other Water categories.
- (e) Chemistry specimens included with Sanitary Bacteriology.
- (f) Includes Water quality basic data, 882 exams.
- (g) Also includes stream waters.
- (h) "Waste Water" included with "Swimming Waters."
- (i) Private water samples only. Public water samples and pollution cases are handled by Water Pollution Laboratory.
- (j) Solid Wastes, 311 specimens, 5,079 exams; Sand, 17 specimens, 51 exams; clinical thermometers, 13,655 specimens, 95,585 exams; Fish kill, 28 specimens, 624 exams; milk products, 959 specimens, 2,684 exams; Frozen Desserts and Mixes, 871 specimens, 1,263 exams; miscellaneous samples, 946 specimens, 3,320 exams.
- (k) Meat.
- (l) Food, 12,820; Pharm., 232; Miscellaneous, 1,019.
- (m) Food.
- (n) Frozen Desserts.
- (o) Includes milks, canned foods, seafoods, baked goods/cereals, beverages and miscellaneous foods.
- (p) Included under Sanitary Bacteriology, Milk and Cream.
- (q) Sand analysis.
- (r) Includes all dairy products.
- (s) Provided through other State agencies, primarily Division of Environmental Health.
- (t) Conducted by Air Pollution Control Section.
- (u) Performed in another unit of D.C. government.
- (v) Represents Airborne Pollen Counts. In general, air pollution is examined by Department of Pollution Control and in city or county pollution control agencies.
- (w) Done by Air Sanitation Branch.
- (x) Performed by laboratory in Bureau of Engineering, Indiana State Board of Health.
- (y) High volume and multiple sequential.
- (z) Performed by Department of Ecology.
- (aa) Conducted by Occupational Health Section.
- (bb) Tests are performed by Medical Examiner Laboratory.
- (cc) Performed by Occupational and Radiological Health Branch.

TABLE 11-44. RADIOACTIVITY

	Total Specimens	Total Exams	Air		Milk	
			Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Ark.	(a)	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	1,022	1,943	431	498	40	268
Del.	(b)	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	2,429	4,884	1,055	1,055	108	540
Ga.	-	-	-	-	-	-
Hawaii	(c)	-	-	-	-	-
Ida.	-	-	-	-	-	-
Ill.	627	963	218	437	-	-
Ind.	(d)	-	-	-	-	-
Ia.	1,572	3,551	712	712	84	319
Kans.	1,148	2,605	256	256	85	595
Ky.	-	-	-	-	-	-
La.	1,223	1,223	-	-	474	474
Me.	557	900	168	336	2	4
Md.	1,178	1,524	*	802	*	264
Mass.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Minn.	*	5,196	*	1,464	*	805
Miss.	-	-	-	-	-	-
Mo.	846	846	-	-	-	-
Mont.	*	*	*	*	*	*
Nebr.	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
N.J.	*	596	-	-	*	19
N.M.	*	4,895	*	4,895	-	-
N.Y.	3,010	6,452	753	753	599	1,198
N.C.	1,238	7,863	455	2,389	104	993
N.D.	688	772	550	550	84	168
Ohio	403	1,334	30	60	-	-
Okla.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
S.C.	2,210	2,210	1,487	1,487	10	10
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	571	1,394	45	45	75	375
Utah	1,013	4,046	159	636	212	848
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	2,131	2,909	260	520	312	624
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-44. RADIOACTIVITY
(Continued)

	Water and Rainfall		Other	
	Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	251	596	300	581
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	509	1,018	757	2,271
Ga.	-	-	-	-
Hawaii	-	-	-	-
Ida.	-	-	-	-
Ill.	56	112	353 (e)	414 (e)
Ind.	-	-	-	-
Ia.	776	2,520	-	-
Kans.	507	1,308	300	446
Ky.	-	-	-	-
La.	314	314	435	435
Ma.	269	442	118	118
Md.	*	441	*	17 (f)
Mass.	-	-	-	-
Mich.	-	-	-	-
Minn.	*	2,013	*	914
Miss.	-	-	-	-
Mo.	846	846	-	-
Mont.	*	*	*	*
Nebr.	-	-	-	-
Nev.	-	-	-	-
N.H.	-	-	-	-
N.J.	*	399	*	178
N.M.	-	-	-	-
N.Y.	1,395	3,975	263	526
N.C.	559	4,185	120	296
N.D.	54	54	-	-
Ohio	371	1,270	2	4
Okla.	-	-	-	-
Ore.	-	-	-	-
Pa.	-	-	-	-
R.I.	-	-	-	-
S.C.	453	453	260 (g)	260
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	107	239	344	735
Utah	642	2,562	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	-	-
Wisc.	172	172	1,387 (h)	1,593
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 11-45. PESTICIDES

	Total Specimens	Total Exams	Milk		Water	
			Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Ariz.	1,771	1,774	*	1,702	*	72
Ark.	- (a)	-	-	-	-	-
Cal.	*	*	*	*	*	*
Colo.	*	*	*	*	*	*
Conn.	496	9,318	(i)	22	(i)	84
Del.	(b)	-	-	-	-	-
D.C.	-	-	-	-	-	-
Fla.	18	180	-	-	-	-
Ga.	-	-	-	-	-	-
Hawaii	69	70	12	12	32	32
Ida.	124	124	117	117	4	4
Ill.	197	197	-	-	37	37
Ind.	1,017	2,234	676	690	145	1,214
Ia.	327	1,324	-	-	157	644
Kans.	-	-	-	-	-	-
Ky.	462	1,038	195	424	146	346
La.	166	166	24	24	30	30
Me.	180	304	-	-	180	304
Md.	640	1,831	146	409	232	682
Mass.	-	-	-	-	-	-
Mich.	2,456	*	*	*	*	*
Minn.	*	675	-	-	*	675
Miss.	-	-	-	-	-	-
Mo.	203	203	20	20	163	163
Mont.	*	*	*	*	*	*
Nebr.	14	38	-	-	14	38
Nev.	82	82	81	81	-	-
N.H.	-	-	-	-	-	-
N.J.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
Ohio	387	387	83	83	37	37
Okla.	862	2,758	-	-	-	-
Ore.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
R.I.	296	1,480	4	20	45	225
S.C.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Tex.	119	923	3	3	76	831
Utah	136	1,354	36 (j)	254	100	1,100
Vt.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
Wash.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
Wisc.	275	550	2	4	270	540
Wyo.	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 11-45. PESTICIDES
(Continued)

	Food		Miscellaneous	
	Specimens	Exams	Specimens	Exams
Ala.	-	-	-	-
Alaska	-	-	-	-
Ariz.	-	-	-	-
Ark.	-	-	-	-
Cal.	*	*	*	*
Colo.	*	*	*	*
Conn.	(1)	38	496 (k)	9,174 (k)
Del.	-	-	-	-
D.C.	-	-	-	-
Fla.	5	50	13 (1)	130
Ga.	-	-	-	-
Hawaii	25	26	-	-
Ida.	3	3	-	-
Ill.	160	160	-	-
Ind.	196	330	-	-
Ia.	-	-	170 (m)	680
Kans.	-	-	-	-
Ky.	121	268	-	-
La.	63	63	49	49
Me.	-	-	-	-
Md.	262	740	-	-
Mass.	-	-	-	-
Mich.	*	*	-	-
Minn.	-	-	-	-
Miss.	-	-	-	-
Mo.	20	20	-	-
Mont.	*	*	*	*
Nebr.	-	-	-	-
Nev.	1	1	-	-
N.H.	-	-	-	-
N.J.	-	-	-	-
N.M.	-	-	-	-
N.Y.	-	-	-	-
N.C.	-	-	-	-
N.D.	-	-	-	-
Ohio	267	267	-	-
Okla.	-	-	862 (n)	2,758
Ore.	-	-	-	-
Pa.	-	-	-	-
R.I.	247	1,235	-	-
S.C.	-	-	-	-
S.D.	-	-	-	-
Tenn.	-	-	-	-
Tex.	40	89	-	-
Utah	-	-	-	-
Vt.	-	-	-	-
Va.	-	-	-	-
Wash.	-	-	-	-
W.Va.	-	-	-	-
Wisc.	3	6	-	-
Wyo.	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 11-46. FORENSIC TOXICOLOGY

	Drugs		Food, Water, Milk		Tissues or Body Fluids		
	Specimens	Exams	Specimens	Exams	Total Specimens	Total Exams	Barbiturates
Ala.	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-
Ark.	(a)	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*
Conn.	13,830 (o)	43,031	-	-	3,796	5,512	1,059
Del.	(b)	-	-	-	-	-	-
D.C.	-	-	-	-	4,628	8,972	1,363
Fla.	4,927	19,708	22	22	7,590	143,877	1,956
Ga.	-	-	-	-	-	-	-
Hawaii	6	12	37	45	1,075	1,097	30
Ida.	2,795 (p)	16,968	-	-	1,733	2,157	-
Ill.	-	-	-	-	2,531	27,287	237
Ind.	(q)	-	-	-	-	-	-
Ia.	-	-	-	-	182 (r)	*	-
Kans.	-	-	-	-	2,613	3,284	245
Ky.	273	1,132	1	40	-	-	-
La.	-	-	-	-	24	24	-
Me.	1,324	1,324	46	46	1,527	1,698	82
Md.	-	-	-	-	3,201	4,288	-
Mass.	-	-	-	-	-	-	-
Mich.	6,702	*	-	-	*	4,696	15
Minn.	-	-	-	-	*	5,147	(s)
Miss.	-	-	-	-	-	-	-
Mo.	-	-	-	-	9	9	-
Mont.	*	*	*	*	*	*	*
Nebr.	908	2,042	-	-	-	-	-
Nev.	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-
N.M.	-	-	-	-	*	31	-
N.Y.	-	-	-	-	-	-	-
N.C.	(t)	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-
Ohio	-	-	-	-	6	8	-
Okla.	-	-	-	-	127	155	-
Ore.	-	-	-	-	-	-	-
Pa.	-	-	-	-	*	2,329	-
R.I.	7,269	52,633	-	-	590	7,161	2,688
S.C.	-	-	-	-	*	6,292	-
S.D.	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Utah	330	330	19	189	3,363 (u)	3,033	43
Vt.	87	87	-	-	1,758	1,758	20
Va.	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
Wisc.	16 (v)	16	-	-	4,774	4,309	186
Wyo.	-	-	-	-	21	21	-
Guam	-	-	-	-	-	-	-
P.R.	-	-	-	-	*	1,514	-
V.I.	200	221	-	-	220	221	-

TABLE 11-46. FORENSIC TOXICOLOGY
(Continued)

	Tissues or Body Fluids							Other Metals
	Bromide	Alcohol	Psychotropic Agents	Drug levels; misc.	Lead	Arsenic	Mercury	
Ala.	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-	-	-
Ark.	-	-	-	-	-	-	-	-
Cal.	*	*	*	*	*	*	*	*
Colo.	*	*	*	*	*	*	*	*
Conn.	19	2,414	52	-	-	22	-	-
Del.	-	-	-	-	-	-	-	-
D.C.	-	2,035	-	-	-	-	1	-
Fla.	-	5,820	-	780	(w)	300	(w)	(w)
Ga.	-	-	-	-	-	-	-	-
Hawaii	-	4	10	1,046	-	-	-	-
Ida.	-	1,551	-	449	-	-	-	-
Ill.	-	1,247	25	9,903	159	70	1	32
Ind.	-	-	-	-	-	-	-	-
Ia.	-	-	-	-	-	-	-	-
Kans.	-	1,987	296	190	155	87	77	16
Ky.	-	-	-	-	-	-	-	-
La.	-	-	-	-	14	3	6	-
Me.	-	1,372	-	40	155	4	1	-
Md.	-	-	-	-	2,013 (x)	-	-	-
Mass.	-	-	-	-	-	-	-	-
Mich.	-	1,723	-	405	-	5	-	-
Minn.	-	497	-	-	1,230	381	569	-
Miss.	-	-	-	-	-	-	-	-
Mo.	-	9	-	-	-	-	-	-
Mont.	*	*	*	*	*	*	*	*
Nebr.	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-
N.J.	-	-	-	-	-	-	-	-
N.M.	-	31	-	-	*	*	*	*
N.Y.	-	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	8	-	-
Okla.	-	-	-	-	48	46	17	4
Ore.	-	-	-	-	-	-	-	-
Pa.	-	2,329	-	-	-	-	-	-
R.I.	-	2,989	-	329	-	32	31	-
S.C.	-	-	-	-	213	-	1	6,026 (y)
S.D.	-	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-
Utah	6	676	398	433	119	119	92	44
Vt.	-	1,013	-	-	21 (z)	(z)	127	-
Va.	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-	-
Wisc.	-	1,043	95	96	141	93	-	158
Wyo.	-	21	-	-	-	-	-	-
Guam	-	-	-	-	-	-	-	-
P.R.	-	1,514	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-

TABLE 11-46. FORENSIC TOXICOLOGY
(Continued)

TABLE 11-47
MISCELLANEOUS EXAMINATIONS

Tissues or Body Fluids						Miscellaneous Exams		
Carbon Monoxide	Poisons	Narcotics	Methemoglobin	Pesticides	Other	Specimens	Exams	
Ala.	-	-	-	-	-	Ala.	-	
Alaska	-	-	-	-	-	Alaska	-	
Ariz.	-	-	-	-	-	Ariz.	-	
Ark.	-	-	-	-	-	Ark.	-	
Cal.	*	*	*	*	*	Cal.	*	
Colo.	*	*	*	*	*	Colo.	*	
Conn.	92	5	1,084	-	2	763 (aa)	Conn. 12,382 (bb) 13,333 (bb)	
Del.	-	-	-	-	-	Del.	-	
D.C.	-	-	5,572	1	-	D.C.	-	
Fla.	156	145	400	-	133,025	1,295	Fla.	-
Ga.	-	-	-	-	-	Ga.	-	
Hawaii	-	-	5	-	2	Hawaii	-	
Ida.	-	44	-	-	-	113	Ida.	-
Ill.	783	45	523	2	-	14,260	Ill.	-
Ind.	-	-	-	-	-	-	Ind.	-
Ia.	-	-	-	-	-	*	Ia.	-
Kans.	45	35	146	-	5	-	Kans.	55 (cc) 102
Ky.	-	-	-	-	-	-	Ky.	-
La.	-	-	-	-	1	-	La.	-
Me.	37	-	7	-	-	-	Me.	-
Md.	-	-	-	-	-	2,275 (dd)	Md.	1,997 (ee) 9,055 (ee)
Mass.	-	-	-	-	-	-	Mass.	-
Mich.	80	111	6	-	2,351	-	Mich.	-
Minn.	416	-	1,487	-	-	567 (ff)	Minn.	-
Miss.	-	-	-	-	-	-	Miss.	-
Mo.	-	-	-	-	-	-	Mo.	-
Mont.	*	*	*	*	*	*	Mont.	*
Nebr.	-	-	-	-	-	-	Nebr.	-
Nev.	-	-	-	-	-	-	Nev.	-
N.H.	-	-	-	-	-	-	N.H.	-
N.J.	-	-	-	-	-	-	N.J.	* 155 (gg)
N.M.	-	*	-	-	-	*	N.M.	-
N.Y.	-	-	-	-	-	-	N.Y.	-
N.C.	-	-	-	-	-	-	N.C.	-
N.D.	-	-	-	-	-	-	N.D.	-
Ohio	-	-	-	-	-	-	Ohio	-
Okla.	2	-	38	-	-	-	Okla.	-
Ore.	-	-	-	-	-	-	Ore.	-
Pa.	-	-	-	-	-	-	Pa.	-
R.I.	476	168	406	-	-	42	R.I.	-
S.C.	-	-	-	-	52	-	S.C.	-
S.D.	-	-	-	-	-	-	S.D.	-
Tenn.	-	-	-	-	-	-	Tenn.	-
Tex.	-	-	-	-	-	-	Tex.	-
Utah	87	13	11	-	968	24	Utah	-
Vt.	577	-	-	-	-	-	Vt.	-
Va.	-	-	-	-	-	-	Va.	-
Wash.	-	-	-	-	-	-	Wash.	-
W.Va.	-	-	-	-	-	-	W.Va.	-
Wisc.	78	-	2,393	-	-	26	Wisc.	-
Wyo.	-	-	-	-	-	-	Wyo.	-
Guam	-	-	-	-	-	-	Guam	-
P.R.	-	-	-	-	-	-	P.R.	-
V.I.	-	-	221	-	-	-	V.I.	-

TABLES 11-44 - 11-47. FOOTNOTES

- (a) Performed by Division of Radiological Health and Chemistry.
- (b) Tests are performed by Medical Examiner Laboratory.
- (c) Performed by Occupational and Radiological Health Branch.
- (d) Performed by laboratory in Bureau of Engineering, Indiana State Board of Health.
- (e) Medical and Dental, 62 specimens, 123 exams; miscellaneous, 291 specimens, 291 exams.
- (f) Shellfish.
- (g) Environmental samples - fish, vegetables, soil and silt.
- (h) Reactor Monitoring.
- (i) Specimens are counted under Sanitary Chemistry Section.
- (j) Human.
- (k) Human adipose, serum, etc., 496 specimens, 8,880 exams; other, 294 exams.
- (l) Dust, wood, powders.
- (m) Wildlife, soil, etc.
- (n) Air surveillance program performed through contract with Environmental Protection Agency.
- (o) Drugs, alcohol, narcotics, etc.
- (p) Evidence samples (law enforcement).
- (q) Drugs are examined by State Board of Health, Food, Drug and Dairy Laboratory.
- (r) Inorganic: Ammonia, 26; pH, 22; Sulfate, 9; Scale Residue, 6; Suspended Solids, 16; Zinc, 33. Gas: Oxygen, 2; Nitrogen, 2; Methane, 2. Organic Compounds: 1,2-Benzanthracene, 7; Ferric Ferrocyanide, 1; Morpholine, 11; Aniline, 1; Phenol, 5; Benzene, 9; Toluene, 8; Xylene, 8; Butyl Alcohol, 1; Cyclohexanone, 1; Methylene Chloride, 1; Trichloroethylene, 1; Casein, 1; Ethyl Alcohol, 2. Miscellaneous: Chemical Oxygen Demands, 6; Detergent, 1.
- (s) "Barbiturates" included with "Narcotics."
- (t) All Forensic Toxicology is done at the State Board of Health's Medical Examiner Laboratory.
- (u) Cases.
- (v) Identification.
- (w) Performed by Occupational Health Section.
- (x) Blood.
- (y) Cadmium, 1,510; Zinc, 2,258; Copper, 2,258.
- (z) "Arsenic" included with "Lead."
- (aa) Acidic and neutral drugs, 212; other, 551.
- (bb) Specimens for metals, 11,866 specimens, 12,340 exams; criminological examinations, etc.; 516 specimens, 993 exams.
- (cc) Forensic serology.
- (dd) Lead in Paints and Ceramics.
- (ee) Drug Chemistry (Pharmaceutical Control), 1,326 specimens, 7,984 exams; Bedding and Upholstery Laboratory Control, 671 specimens, 1,071 exams.
- (ff) Cholinesterase.
- (gg) Pollen Count.

SECTION XII

SPECIAL QUESTIONS ON DIAGNOSTIC WORKLOAD

TABLE 12-1. USE OF TRANSGROW MEDIUM IN THE LABORATORY

	Do you use Transgrow medium in the Laboratory?	Do you supply Transgrow medium in specimen kits?
Ala.	X	-
Alaska	-	-
Ariz.	X	X - (limited)
Ark.	X	X
Cal.	*	*
Colo.	*	*
Conn.	X	X
Del.	X	X - (on request only)
D.C.	X	X
Fla.	X - (limited)	-
Ga.	-	-
Hawaii	X	X
Ida.	X	X
Ill.	X	X
Ind.	X	X
Ia.	X	X (in a limited program to some VD Clinics, etc.)
Kans.	X	X
Ky.	X	X
La.	X	X
Me.	X	X
Md.	X (only experimentally)	-
Mass.	X (evaluation)	-
Mich.	X	X
Minn.	X	X
Miss.	X	X
Mo.	X	X
Mont.	X	X
Nebr.	X	X
Nev.	X	X
N.H.	X	X
N.J.	-	-
N.M.	X	X
N.Y.	*	*
N.C.	X (specimens received on it, then Thayer Martin used if further subculturing is necessary)	-
N.D.	X	X
Ohio	- (planning to use)	- (planning to use)
Okla.	X	X (Family Planning and VD Clinics in local health departments only)
Ore.	X	-
Pa.	- (under evaluation)	- (under evaluation)
R.I.	-	- (program to begin FY 72)
S.C.	X	X
S.D.	X	X
Tenn.	-	-
Tex.	X	X
Utah	X	- (supplied only to VD control clinics)
Vt.	X	X
Va.	*	*
Wash.	X	X (on a comparison study basis only)
W.Va.	X	X
Wisc.	-	-
Wyo.	X	-
Guam	-	-
P.R.	X	X
V.I.	X	X (medium only, not in kit)

TABLE 12-2. ANTIBIOTIC SENSITIVITY METHODS USED

What antibiotic sensitivity methods do you use?

Ala.	- (Antibiotic sensitivity is not done routinely; these are done for Laboratory's own use).
Alaska	Kirby-Bauer disc method.
Ariz.	Kirby-Bauer disc method.
Ark.	(Only mycobacterial).
Cal.	*
Colo.	*
Conn.	Kirby-Bauer disc method.
Del.	Hand dispensing of indicated discs.
D.C.	Kirby-Bauer disc method.
Fla.	-
Ga.	Direct and Indirect for <u>M. tuberculosis</u> .
Hawaii	Kirby-Bauer disc method.
Ida.	Kirby-Bauer disc method. CDC approved procedure for TB sensitivity.
Ill.	Sensitivity tests performed on mycobacteria only. CDC methods used.
Ind.	-
Ia.	Kirby-Bauer disc method. Laboratory uses Kirby-Bauer on those that are done. Effort being made to increase the number of laboratories in Iowa using this technique; therefore, State Laboratory uses it.
Kans.	Kirby-Bauer disc method.
Ky.	Kirby-Bauer disc method.
La.	Sensitivity studies performed for mycobacteria. Not performed in routine bacteriology.
Me.	Disc for mycobacteria only.
Md.	Kirby-Bauer where applicable.
Mass.	-
Mich.	Antibiotic disc, but not Kirby-Bauer.
Minn.	-
Miss.	Kirby-Bauer disc method.
Mo.	-
Mont.	Kirby-Bauer. For acid fasts, the proportion method.
Nebr.	-
Nev.	Impregnated discs.
N.H.	Kirby-Bauer disc method.
N.J.	(Not performed routinely).
N.M.	Sensitivity discs.
N.Y.	*
N.C.	-
N.D.	Kirby-Bauer disc method.
Ohio	Very little antibiotic sensitivity done. Laboratory is in process of setting up the Kirby-Bauer method.
Okla.	Indirect, primary drugs, mycobacteria. Kirby-Bauer disc method.
Ore.	Plate dilution for <u>N. meningitidis</u> only.
Pa.	Kirby-Bauer disc method.
R.I.	TB only; incorporated in medium.
S.C.	Kirby-Bauer disc sensitivity for most bacterial pathogens. Tube dilution for <u>M. tuberculosis</u> and <u>N. gonorrhoeae</u> .
S.D.	Kirby-Bauer disc method. Very limited requests - only from one installation and Indian Health Service.
Tenn.	-
Tex.	Acid Fast Bacilli according to the method of Kubica and Dye.
Utah	Kirby-Bauer disc method.
Vt.	-
Va.	*
Wash.	Kirby-Bauer disc method.
W.Va.	Kirby-Bauer disc method.
Wisc.	Kirby-Bauer disc method. Tube dilution.
Wyo.	Kirby-Bauer disc method.
Guam	-
P.R.	Disc test.
V.I.	Kirby-Bauer disc method.

TABLE 12-3. ISOLATION OF RICKETTSIAE

Do you examine specimens for the isolation of rickettsiae?	
Ala.	X
Alaska	- Referred to CDC.
Ariz.	-
Ark.	-
Cal.	*
Colo.	*
Conn.	-
Del.	X As contractual service performed by the N.J. State Laboratory.
D.C.	X
Fla.	-
Ga.	X
Hawaii	-
Ida.	-
Ill.	-
Ind.	-
Ia.	X
Kans.	-
Ky.	-
La.	-
Me.	-
Md.	X
Mass.	-
Mich.	-
Minn.	X
Miss.	-
Mo.	X
Mont.	X
Nebr.	-
Nev.	-
N.H.	-
N.J.	-
N.M.	-
N.Y.	*
N.C.	-
N.D.	-
Ohio	X
Okla.	-
Ore.	-
Pa.	-
R.I.	-
S.C.	-
S.D.	-
Tenn.	-
Tex.	X
Utah	-
Vt.	-
Va.	*
Wash.	-
W.Va.	-
Wisc.	X
Wyo.	-
Guam	-
P.R.	-
V.I.	-

TABLE 12-4. SIGNIFICANCE OF TITERS REPORTED TO DOCTORS

Does your laboratory indicate in the report to the doctor the significance of titers?	
Ala.	-
Alaska	X
Ariz.	-
Ark.	Sometimes.
Cal.	*
Colo.	*
Conn.	X
Del.	-
D.C.	X
Fla.	X
Ga.	X
Hawaii	X
Ida.	X
Ill.	X
Ind.	X
Ia.	X In specific instances such as Rubella and Toxoplasma.
Kans.	X
Ky.	-
La.	-
Me.	-
Md.	-
Mass.	X
Mich.	-
Minn.	X
Miss.	-
Mo.	X
Mont.	X
Nebr.	-
Nev.	-
N.H.	-
N.J.	X On non-syphilis serology specimens.
N.M.	-
N.Y.	*
N.C.	X Provided sufficient history is submitted.
N.D.	-
Ohio	-
Okla.	-
Ore.	-
Pa.	X
R.I.	X Rubella only.
S.C.	X Rubella only.
S.D.	-
Tenn.	X
Tex.	X
Utah	- Published in manual.
Vt.	X
Va.	*
Wash.	X Reported in virology, ASO and infectious mononucleosis; not in syphilis serology and febrile agglutination.
W.Va.	-
Wisc.	-
Wyo.	-
Guam	-
P.R.	X
V.I.	X

TABLE 12-5. METHOD USED FOR CF VIRAL AND RICKETTSIAL SEROLOGY

Which method do you use for CF viral and rickettsial serology?

Ala.	Laboratory Branch Complement Fixation (LBCF) test.
Alaska	-
Ariz.	Laboratory Branch Complement Fixation (microtiter).
Ark.	Microtiter.
Cal.	*
Colo.	*
Conn.	Sever's Microtiter Complement Fixation test.
Del.	-
D.C.	Microtiter.
Fla.	Laboratory Branch Complement Fixation (microtiter).
Ga.	Laboratory Branch Complement Fixation.
Hawaii	Laboratory Branch Complement Fixation and/or Lennette's microtiter.
Ida.	Laboratory Branch Complement Fixation (microtiter, 50% endpoint).
Ill.	Lennette and Schmidt's microtiter.
Ind.	Laboratory Branch Complement Fixation (microtiter).
Ia.	Laboratory Branch Complement Fixation (microtiter).
Kans.	Laboratory Branch Complement Fixation (microtiter).
Ky.	Laboratory Branch Complement Fixation (microtiter).
La.	Laboratory Branch Complement Fixation.
Me.	Laboratory Branch Complement Fixation.
Md.	Laboratory Branch Complement Fixation.
Mass.	Laboratory Branch Complement Fixation.
Mich.	Laboratory Branch Complement Fixation (microtiter).
Minn.	Lennette's modified microtiter.
Miss.	Laboratory Branch Complement Fixation.
Mo.	Laboratory Branch Complement Fixation.
Mont.	Lennette and Schmidt's microtiter.
Nebr.	-
Nev.	-
N.H.	-
N.J.	-
N.M.	-
N.Y.	*
N.C.	Laboratory Branch Complement Fixation (50% endpoint).
N.D.	-
Ohio	Modified Kolmer.
Okla.	Laboratory Branch Complement Fixation.
Ore.	Laboratory Branch Complement Fixation (microtiter).
Pa.	Lennette's microtiter.
R.I.	Laboratory Branch Complement Fixation.
S.C.	Laboratory Branch Complement Fixation (microtiter).
S.D.	-
Tenn.	Laboratory Branch Complement Fixation.
Tex.	Laboratory Branch Complement Fixation.
Utah	Laboratory Branch Complement Fixation (50% endpoint).
Vt.	Laboratory Branch Complement Fixation.
Va.	*
Wash.	Modified Kolmer microtiter.
W.Va.	Laboratory Branch Complement Fixation (microtiter).
Wisc.	Laboratory Branch Complement Fixation.
Wyo.	-
Guam	-
P.R.	-
V.I.	-

TABLE 12-6. METHODS USED FOR AUSTRALIA ANTIGEN

(a) Which methods do you use for Australia Antigen?		(b) What is the source of the reagents used?
Ala.	Counterelectrophoresis.	NIH.
Alaska	- Specimens sent to special study groups.	-
Ariz.	-	-
Ark.	-	-
Cal.	*	*
Colo.	*	*
Conn.	Counterelectrophoresis, Immunodiffusion.	Spectra Biological Laboratories.
Del.	- Contractual service performed by the New Jersey State Laboratory.	-
D.C.	- Referred to CDC.	-
Fla.	Immunodiffusion, Counterelectrophoresis, Micro LBCF.	Abbott Scientific Products.
Ga.	Agar gel diffusion.	American Red Cross, private blood banks, Massachusetts Department of Public Health, and Federal Government.
Hawaii	Sever's Method as described by Shulman.	Industrial Biological Laboratories.
Ida.	Complement Fixation.	Abbott Laboratories.
Ill.	Counterimmunoelectrophoresis, Complement Fixation.	Courtland.
Ind.	-	-
Ia.	Counterelectrophoresis.	Blood bank.
Kans.	CF, gel diffusion.	Furnished by USPHS.
Ky.	-	-
La.	-	-
Me.	Agar gel diffusion, CF, IEOP.	Massachusetts Department of Public Health.
Md.	Complement Fixation, Immunoelectrophoresis.	Abbott's for CF; Spectra and Massachusetts Antibody for IEOP.
Mass.	Counterelectrophoresis, Immunodiffusion.	Locally collected human antiserum.
Mich.	Counterelectrophoresis, Agar Immunodiffusion.	National Heart and Lung Institute, commercial, own.
Minn.	Immunodiffusion, Complement Fixation.	Human serum.
Miss.	-	-
Mo.	Counterelectrophoresis, Immunodiffusion.	Commercial and CDC.
Mont.	- Referred to CDC.	-
Nebr.	-	-
Nev.	-	-
N.H.	-	-
N.J.	-	-
N.M.	Gel diffusion.	*
N.Y.	*	*
N.C.	No service available. (CF and electrophoresis trial tests).	Highland and Courtland.
N.D.	-	-
Ohio	-	-
Okla.	-	-
Ore.	Counterelectrophoresis.	Commercial.
Pa.	-	-
R.I.	-	-
S.C.	Immunodiffusion, Counterelectrophoresis, CF.	Spectra Biological Laboratories, Abbott Scientific.
S.D.	-	-
Tenn.	-	-
Tex.	Counterelectrophoresis.	Massachusetts Department of Public Health.
Utah	- Performed in major blood banks.	-
Vt.	-	-
Va.	*	*
Wash.	-	-
W.Va.	-	-

TABLE 12-6. METHODS USED FOR AUSTRALIA ANTIGEN
(Continued)

(a) Which methods do you use for Australia Antigen?	(b) What is the source of the reagents used?
<p>Wisc. Counterelectrophoresis, Immunodiffusion, LBCF.</p> <p>Wyo. -</p> <p>Guam -</p> <p>P.R. Counter current electrophoresis.</p> <p>V.I. Spectra Biologicals.</p>	<p>The Hyland electrophoresis kit and Abbott's Immunodiffusion reagents are routinely used. Reagents from NIH and a private source are also employed. Commercial and some produced in this laboratory.</p> <p>-</p> <p>-</p> <p>Commercial.</p> <p>Spectra Biologicals Laboratories.</p>

TABLE 12-7. MULTIPHASIC SCREENING PROGRAMS

	Are you involved in any Multiphasic Screening Programs?	List of Programs
Ala.	-	-
Alaska	-	-
Ariz.	-	-
Ark.	-	-
Cal.	*	*
Colo.	*	*
Conn.	-	-
Del.	-	-
D.C.	X	Mobile Unit operated by Disease Control Bureau.
Fla.	X	Coronary Heart Disease Screening Program. Tests performed: Hemoglobin, Glucose, Uric Acid, Urea Nitrogen, Cholesterol, Triglycerides.
Ga.	-	-
Hawaii	-	-
Ida.	-	-
Ill.	-	-
Ind.	-	-
Ia.	-	-
Kans.	-	-
Ky.	X	Glucose, VDRL and Intestinal Parasites.
La.	-	-
Me.	-	-
Md.	X	Multiphasic screening of high risk adults in one county with chemistries and STS. Cervical cancer screening through mailing of cervical irrigation kits to all females of high cancer risk age in State. Additional laboratory work on cancer clinic patients in 2 counties. Routine yearly diabetic screening.
Mass.	X	Homocystinuria ("Guthrie" test for methionine); Tyrosinemia ("Guthrie" test for tyrosine); Galactosemia ("Beutler" enzyme test and "Paigen" galactose test); Hereditary Angioneurotic Edema ("Morphey" HANE test); all amino acidopathies (Urine Paper Chromatography, "Efron" method); Organic Acid Abnormalities (Urine Paper Chromatography).
Mich.	X	Glucose Determination, Diabetes Association Chronic Disease Program.
Minn.	-	-
Miss.	-	-
Mo.	-	-
Mont.	X	Laboratory has done total cholesterol and triglycerides for Heart Screening Program and when the clinic has been held in Helena, Laboratory has supplied ECG operators and blood drawers.
Nebr.	-	-
Nev.	-	-
N.H.	X	Diabetes - glucose.
N.J.	-	-
N.M.	-	-
N.Y.	*	*
N.C.	X	Multiphasic screening for the detection of chronic diseases. Tests include: calcium, inorganic phosphate, glucose, BUN, uric acid, cholesterol, total protein, albumin, total bilirubin, alkaline phosphatase, LDH and SGOT.
N.D.	-	-
Ohio	X	Several City and County Health Department Programs in connection with the Division of Chronic Diseases screening programs. Also certain groups of State employees participate in a departmental screening program.
Okla.	X	Clinical Chemistry, Glucose, Cholesterol.
Ore.	-	-
Pa.	-	-
R.I.	-	-
S.C.	-	-
S.D.	-	-

TABLE 12-7. MULTIPHASIC SCREENING PROGRAMS
(Continued)

Are you involved in any Multiphasic Screening Programs?	List of Programs
Tenn.	-
Tex.	-
Utah	-
Vt.	X
Va.	*
Wash.	-
W.Va.	X
Wisc.	X
Wyo.	-
Guam	-
P.R.	-
V.I.	-

TABLE 12-8. ROUTINE METHOD USED FOR BACTERIAL EXAMINATION OF POTABLE WATER

What routine method do you use for bacterial examination of potable water?		
	<u>Membrane Filter</u>	<u>Multiple Fermentation Tube</u>
Ala.	X	X
Alaska	X	X
Ariz.	X	-
Ark.	X	-
Cal.	*	*
Colo.	*	*
Conn.	X	-
Del.	X	X Used if the water is not clear, or contains "metallic ions."
D.C.	X	X
Fla.	X	-
Ga.	-	-
Hawaii	-	X
Ida.	X Private waters, stream pollution studies.	X
Ill.	X	X
Ind.	X (60%).	X (40%).
Ia.	-	X
Kans.	X	-
Ky.	X	-
La.	X	-
Ma.	X	-
Md.	X	X
Mass.	-	-
Mich.	X	-
Minn.	X (Used in field).	X (Used in Laboratory).
Miss.	X	-
Mo.	X	-
Mont.	-	X
Nebr.	X	-
Nev.	X	-
N.H.	-	-
N.J.	X	-
N.M.	X	-
N.Y.	*	*
N.C.	-	X
N.D.	X	-
Ohio	-	X
Okla.	X Used in Central Laboratory, not Branch Laboratories.	X
Ore.	X Special request only.	X
Pa.	X	X
R.I.	-	- (Program not in Division of Laboratories).
S.C.	X	X
S.D.	X Depends on water.	X Depends on water.
Tenn.	X	-
Tex.	X Laboratory is changing to the membrane filter but this change- over is not complete yet.	X Laboratory is changing to the membrane filter but this changeover is not complete yet.
Utah	X	-
Vt.	X	-
Va.	*	*
Wash.	-	X
W.Va.	X	X
Wisc.	-	X
Wyo.	-	X
Guam	-	X
P.R.	X	X
V.I.	X	-

TABLE 12-9. TESTS INCLUDED IN COMPLETE CHEMICAL ANALYSIS OF WATER

What tests are included in complete chemical analysis of water?

Ala.	-		
Alaska	pH Iron Bicarbonate Fluoride Dissolved Solids	Turbidity Calcium Carbonate Nitrate Surfactants	Color Magnesium Sulfate Phosphate
Ariz.	Specific Resistance (Ohms) Calcium Total Iron Chlorides Sulfates Turbidity Sediment Manganese	Soluble Solids Magnesium Phenolphthalein Alkalinity Fluoride Chromium Color Arsenic Copper	Total Hardness Sodium Methyl Purple Alkalinity Nitrates Free Chlorine Odor Lead
Ark.	- (Not handled in this laboratory).		
Cal.	*		
Colo.	*		
Conn.	(Routine complete chemical analysis).		
	Color pH Free Ammonia Alkalinity	Odor Nitrite Albuminoid Ammonia Hardness	Turbidity Nitrate Chloride Iron
Del.	- (Chemical analysis of water is performed by the Water and Air Resources Department).		
D.C.	Alkalinity Cadmium Fluoride Selenium Chloride Iron Phenols Zinc Sodium	Arsenic Chromium-Hexavalent Lead Silver Copper Manganese Sulfates pH Mercury	Barium Cyanide Hardness Absorptivity (ABS) Carbon Chloroform Extract Nitrate Total Dissolved Solids Magnesium
Fla.	<u>Drinking Waters</u> Iron Carbonates Hardness pH Trace Metals (limited)	Chlorides Magnesium Sulfate Solids	Fluorides Calcium Color Pesticides (limited)
	<u>Surface Waters</u> - Performed by Department of Pollution Control Laboratories.		
Ga.	-		
Hawaii	Temperature Odor Loss on Ignition Nitrites Total Phosphorus Chemical Oxygen Demand (COD) Aluminum Sulfate Chlorides Fluoride Copper Phenols	pH Turbidity Alkalinity Nitrates Dissolved Oxygen Silica Calcium Sodium Chlorine Manganese Zinc	Color Total Solids Hardness Total Nitrogen Biochemical Oxygen Demand (BOD) Iron Magnesium Potassium Arsenic Lead Selenium

TABLE 12-9. TESTS INCLUDED IN COMPLETE CHEMICAL ANALYSIS OF WATER (CONT.)

What tests are included in complete chemical analysis of water?

Ida.	pH Total Dissolved Solids Hardness Iron Potassium Lead Nitrate Ammonia	Color Total Solids Calcium Manganese Zinc Sulfate Phosphate Silica	Turbidity Alkalinity Magnesium Sodium Copper Chloride Fluoride
Ill.	<u>Environmental</u> Total Mineral Solids Fluoride Chloride Calcium Potassium Radiologic (alpha & beta)	Residue or Evaporation Alkalinity Iron Magnesium Nitrate Silica	pH Hardness Manganese Sodium Ammonia Sulfate
	<u>Toxicology</u> Heavy metals and organic toxic substances as requested.		
Ind.	Turbidity Magnesium Iron Chloride Nitrates Arsenic (some)	pH Sodium Manganese Sulfates Alum (if used in treatment) Lead (some)	Calcium Potassium Alkalinity Fluorides Phosphates (if used in treatment)
Ia.	Conductivity Alkalinity Calcium Potassium Aluminum Nitrate Chromium Zinc Mercury	Silica Temperature Magnesium Iron Carbonate Fluoride Cadmium Nickel Radioactivity: Gross Beta-Gamma Gross Alpha Radium 226	pH Hardness Sodium Manganese Bicarbonate Copper Lead Arsenic
Kans.	Total solids pH Manganese Magnesium Carbonate Chloride Boron	Specific Conductance Silica Phosphate Sodium Bicarbonate Nitrate Total Hardness	Turbidity Total Iron Calcium Potassium Sulfate Fluoride Total Alkalinity
Ky.	Acidity Carbonate Chloride Total Hardness Carbonate Noncarbonate Potassium Suspended Solids Color Barium Carbon chloroform extract Cyanide Nitrite Selenium Zinc Selected Organics	Total Alkalinity Bicarbonate Fluoride Iron Manganese Sodium Total Solids Sulfate Odor Radioactivity (gross beta) Chromium LAS Lead Silica Mercury	Hydroxide Calcium Aluminum Magnesium Nitrate Arsenic Dissolved Solids pH Turbidity Cadmium Copper Nickel Phenols Silver Pesticides

TABLE 12-9. TESTS INCLUDED IN COMPLETE CHEMICAL ANALYSIS OF WATER (CONT.)

What tests are included in complete chemical analysis of water?

Miss.	Silica Turbidity (J.T.U.) Color (Units) Hardness as CaCO ₃ Sulfite Nitrate Chloride Magnesium Potassium	Carbon Dioxide BOD (Surface) Odor Alkalinity as CaCO ₃ Sulfate pH (Units) Total Iron Manganese Oxygen	Nitrogen as NH ₃ Collection Temperature Total Dissolved Solids Bicarbonate Nitrite Total Phosphate Calcium Sodium
Mo.	Turbidity Total Alkalinity Silica Manganese Calcium Sulfate Total Dissolved Solids Carbonate Hardness	pH Bicarbonates Total Iron Sodium Magnesium Chloride Loss on Ignition Noncarbonate Hardness	Phenolphthalein Alkalinity Carbonates Aluminum Potassium Nitrate Fluoride Total Hardness
Mont.	Iron Lead Magnesium Potassium Sulfate Fluoride Also when requested: Manganese Detergents Heavy Metals	Arsenic Copper Calcium Carbonate Chloride Hydroxide Aluminum Oils Nitrites	Zinc Selenium Sodium Bicarbonate Nitrate Hardness mg/liter as CaCO ₃ Phosphates Phenols
Nebr.	pH Specific Conductivity Total Alkalinity Total Hardness	Calcium Sodium Iron Manganese	Fluoride Chloride Nitrate Sulfate
	The above is the basic routine. Other items by special arrangement.		
Nev.	Color Turbidity pH Alkalinity Bicarbonate Carbonate	Iron Hardness Calcium Magnesium Sulfate Chloride	Nitrate Sodium Potassium Arsenic Fluoride Total Dissolved Solids Ortho & Total Phosphates
N.H.	-		
N.J.	Color Odor Turbidity Total Solids Total Hardness Chloride	pH Alkalinity Nitrate Iron Manganese	Fluoride Molar Absorptivity Sodium Sulfate Other Metals (personnel in Bureau of Potable Water - D.E.P. - designate the elements)
N.M.	Sodium Potassium Calcium Magnesium Iron Manganese Chloride Fluoride	Nitrate Bicarbonate Carbonate Sulfate Phosphate Total Hardness Alkalinity Dissolved Residue	Suspended Residue Surfactants Conductance pH Turbidity Color Odor

TABLE 12-9. TESTS INCLUDED IN COMPLETE CHEMICAL ANALYSIS OF WATER (CONT.)

What tests are included in complete chemical analysis of water?

La. Routine Chemical Analysis:

Odor	Color	Total Solids
Loss on Ignition	Alkalinity	Hardness
Chlorides	Free Carbon Dioxide	Iron
pH	Turbidity	Manganese
Sodium	Potassium	Fluorides

Other Tests as Requested:

Nitrates	Ammonium Nitrogen	Phosphates
Sulfates	COD	BOD
Dissolved Oxygen	Suspended Solids	Ash
Volatile Solids	Linear Alkylate	Arsenic
Barium	Sulfonate (LAS)	Cadmium
Copper	Mercury	Chromium
Lead	Selenium	Silver

Me.	Odor	Color	Turbidity
	Chloride	Nitrate	Nitrite
	Fluoride	Ammonia	Hardness
	pH	Iron	Copper

Md.	Depends upon whether it is public, private, treated, or untreated water or stream waters.		
	Color	Turbidity	pH
	Total Solids	Alkalinity	Hardness
	Iron	Sodium	Nitrate Nitrogen

Plus the following supplements:

Minerals	Ammonia Nitrogens	BOD
Total and ortho-phosphates as well as many others.		

Mass.	-		
Mich.	Color	Odor	Turbidity
	Total Solids	Silica	Iron as Fe
	Manganese	Calcium	Magnesium
	Sodium	Potassium	Nitrate
	Chloride	Sulfate	Bicarbonate
	Carbonate	Calcium Carbonate	Fluoride
	pH	Conductance	

Minn.	Settleable solids ml. per liter	Total Solids	Total Volatile Matter
	Turbidity	Suspended Solids	Suspended Volatile Matter
	Alkalinity as CaCO ₃	Color	Total Hardness as CaCO ₃
	Residual Chlorine	pH Value	Chloride
	Total Phosphorus	Dissolved Oxygen	Five-Day BOD
	Organic Nitrogen	Soluble Phosphorus	Ammonia Nitrogen
	Methylene Blue-Active Substances as ABS	Nitrite Nitrogen	Nitrate Nitrogen
	Total Chromium	Copper	Cadmium
	Phenolic Compounds as Phenol	Nickel	Zinc
	Sodium	Chromium Hexavalent	Cyanide
	Fluoride	Boron	Magnesium
	Calcium as CaCO ₃	Potassium	Sulfate
	Silver	Iron	Manganese
	Selenium	Lead	Arsenic
	Oil & Grease	Silicate	Barium
	Dissolved Beta	Sulfide	Bicarbonate Alkalinity as CaCO ₃
		Threshold Odor Number	Gross Beta
		Suspended Beta	Pesticides

TABLE 12-9. TESTS INCLUDED IN COMPLETE CHEMICAL ANALYSIS OF WATER (CONT.)

What tests are included in complete chemical analysis of water?

N.Y.	*		
N.C.	Color	Sodium	Acidity
	Alkalinity	Potassium	Chloride
	Total Hardness	pH	Chromium ⁺⁶
	Iron	Fluoride	Copper
	Manganese	Arsenic	Lead
	Turbidity	Cadmium	Zinc
N.D.	Dissolved Solids	Calcium	Sulfate
	Alkalinity	Magnesium	Bicarbonate
	Hardness	Sodium	Carbonate
	Iron	Fluoride	Nitrate
	Manganese	Phosphate	Conductivity
	pH	Chloride	
Ohio	Turbidity	Phosphate	Chromium
	Color	Chloride	Iron
	pH	Fluoride	Manganese
	Total Alkalinity	Copper	Nickel
	Corrosion Index	Lead	Silver
	Total Hardness	Sodium	Zinc
	Total Residue	Potassium	Aluminum
	Sulfate	Barium	Beryllium
	Nitrate	Cadmium	
Okla.	(Private samples only - others are performed by Water Pollution Laboratory).		
	Phenolphthalein Alkalinity	Salt (calculated from Chlorides)	Nitrates
	Methyl orange Alkalinity		Sulfates
	Total Chlorides	Total Hardness	Fluorides
Ore.	-		
Pa.	-		
R.I.	- (Program not in Division of Laboratories).		
S.C.	Total Solids	Hardness	Copper
	Alkalinity	Iron	Zinc
	Calcium	Chloride	Mercury (municipalities)
	Magnesium	pH	
S.D.	Conductance	Potassium	Fluoride
	Total Solids	Sodium	Chloride
	Iron	Calcium	Sulphate
	Phenolphthalein Alkalinity	Magnesium	Bicarbonates
	Total Alkalinity	Manganese	Calculated Hardness
	pH	Nitrate	
Tenn.	-		
Tex.	<u>Potable Water:</u>		
	Silica	Chloride	Dissolved Solids
	Calcium	Fluoride	Phenolphthalein Alkalinity
	Magnesium	Nitrate	as CaCO ₃
	Sodium	% Sodium	Total Alkalinity as CaCO ₃
	Carbonate	SAR	Total Hardness as CaCO ₃
	Bicarbonate	RSC	Specific Conductance
	Sulfate	pH	Dilutal Conductance

The following tests are performed only when requested: Potassium
Manganese
Boron
Total Iron

TABLE 12-9. TESTS INCLUDED IN COMPLETE CHEMICAL ANALYSIS OF WATER (CONT.)

What tests are included in complete chemical analysis of water?

Utah	14 anions, 18 cations, 12 general chemistry procedures.		
Vt.	pH Turbidity Color Odor Phenolphthalein Alkalinity as CaCO ₃ Methyl orange Alkalinity as CaCO ₃ Hardness as CaCO ₃ Iron Manganese	Copper Sulfate Total Dissolved Solids ABS and LAS Chloride as Cl Nitrate as N Nitrite as N Cyanide Phenol Arsenic Barium	Cadmium Total Chromium Chromium - Hexavalent Lead Mercury Selenium Silver Zinc Fluoride Sodium
Va.	*		
Wash.	Silica Aluminum Iron Manganese Calcium Magnesium Sodium Potassium Bicarbonate Carbonate Sulfate Sulfite Chloride	Fluoride Nitrate Nitrite Phosphate pH Specific Conductance Turbidity Color Odor Taste Free Carbon Dioxide (Calculated Values) Suspended Solids	Dissolved Solids Total Solids (Calculated Values) Total Hardness Alkalinity Noncarbonate Hardness (Calculated Values) Calcium Hardness (Calculated Values) Magnesium Hardness (Calculated Values) Calculated Hardness (Calculated Values)
W.Va.	-		
Wisc.	Phenolphthalein Alkalinity Total Alkalinity Calcium Chlorides Fluorides Total Hardness	Total Iron Magnesium Manganese Nitrate Nitrogen Nitrite Nitrogen	Sodium Sulfates Total Solids pH pH (field)
Wyo.	- (Not performed in this Laboratory).		
Guam	-		
P.R.	Alkalinity Arsenic Cadmium Calcium Chlorides Copper Chromium Hexavalent	Hardness Fluorides Iron Nitrates Magnesium Manganese Silver	Lead pH Total Dissolved Solids Sulfates Zinc Total Solids
V.I.	Alkalinity Calcium Chloride	Total Hardness Magnesium	pH Total Solids

TABLE 12-10. ANALYTIC METHODS USED FOR DETERMINATION OF MERCURY

(a) What analytic methods are you using for determination of mercury?	(b) For what purposes?
Ala. - Alaska - Specimens sent to FDA Lab., Seattle; and Univ. of Rochester.	- Levels of mercury in fish products (halibut, salmon) and biological specimens (hair and blood) to find out normal and abnormal levels.
Ariz. Flameless atomic absorption. Ark. - (Not handled in this Lab.)	Water-Food. For monitoring & enforcement.
Cal. *	*
Colo. *	*
Conn. Flameless atomic absorption, dithizone titrations.	Water, fish, muds, urine.
Del. -	-
D.C. Flameless atomic absorption.	Environmental
Fla. Atomic absorption Spectrophotometry, cold absorption.	Human diagnostic - blood, urine, tissue. Drinking water - monitoring for pollution.
Ga. -	-
Hawaii (1) W. R. Hatch and W. L. Ott, <i>Analy. Chem.</i> , Vol. 40, p. 2085, 1918. (2) Digestion Method of Perkin - Elmer Corp. (3) H. Brandenberger and H. Boder, 1968, Flameless Atomic Absorption.	Mercury content in fish and fish products. Mercury in water and waste water.
Ida. Flameless atomic absorption, occasionally gas chromatography and Dithizone.	Determination of extent of mercury in environmental samples. Emphasis has been on wildlife (pheasants and fish). More recently studies on streams.
Ill. <u>Environmental</u> : Flameless atomic absorption; Spectrophotometric, Dithizone.	Legal
Ind. <u>Toxicology</u> : Wet method and atomic absorption.	To detect mercury in water, fish, insects, stream bottoms, etc., as a part of water pollution program.
Ia. Flameless atomic absorption.	Public water supply; aquatic influence on fish and birds.
Ia. Cold flame atomic absorption.	Mercury in food & biological fluids.
Kans. Dithizone. Ky. AOAC and cold vapor atomic absorption.	Determ. of mercury in food, water, air, urine, etc.
La. Flameless atomic absorption.	Determ. mercury in water, seafood, urine & food products.
Me. Atomic absorption.	Food, urine, blood and water contamination.
Md. Flameless atomic absorption.	Bay, stream and raw water sources, sewage, seafoods and others.
Mass. -	-
Mich. - (Done by another State agency.)	-
Minn. H ₂ SO ₄ -KMNO ₄ oxidation, SNCl ₂ reduction and mercury detection by cold atomic absorption.	Fish, water, urine, blood, saliva, etc.
Miss. -	-
Mo. Atomic absorption.	Environmental.
Mont. Flameless atomic absorption.	Industrial hygiene - dental offices. Wheat in granaries (use of cerosan); fish and water.
Nebr. Prepared to use cold cathode atomic absorption.	No requests have been received.
Nev. -	-
N.H. -	-
N.J. EPA (Hatch - Ott).	Monitoring potable water supplies and industrial effluents; surveying stream bottom samples.
N.M. Dithizone method.	Surveillance of mercury in water.
N.Y. *	*
N.C. Flameless atomic absorption.	Drinking waters, some surface waters, fish, shellfish, some mammalian tissues.
N.D. -	-

TABLE 12-10. ANALYTIC METHODS USED FOR DETERMINATION OF MERCURY (CONT)

(a) What analytic methods are you using for determination of mercury?	(b) For what purposes?
Ohio Atomic absorption spectroscopy.	Stream and lake pollution. Other special requests.
Okla. -	-
Ore. -	-
Pa. -	-
R.I. Atomic absorption.	No full scale program. Occasional requests as a toxicology examination or for levels in food.
S.C. Flameless atomic absorption spectroscopy.	All purposes.
S.D. -	-
Tenn. -	-
Tex. Flameless atomic absorption.	Shellfish, fish, water pollution.
Utah Atomic absorption with mercury kit.	Ident. of mercury in water (routine), foods, body tissues, urine, etc.
Vt. Atomic absorption spectrophotometry.	Water testing. Hair survey.
Va. *	*
Wash. -	-
W.Va. -	-
Wisc. Flameless atomic absorption.	Survey of wells, lakes & streams; fish; bottom organisms.
Wyo. - (Not performed in this lab).	-
Guam -	-
P.R. Determination by wet digestion and flameless atomic absorption spectrophotometry.	Detection of mercury in food or water.
V.I. -	-

TABLE 12-11. METHADONE SCREENING PROGRAMS

	(a) Do you have a methadone screening program?	(b) How many people are in the program?	(c) What is the frequency of the tests?
Ala.	-	-	-
Alaska	-	-	-
Ariz.	-	-	-
Ark.	-	-	-
Cal.	*	*	*
Colo.	*	*	*
Conn.	-	-	-
Del.	-	-	-
	Methadone clinic is held in Kent General Hosp., Dover, Delaware.		
D.C.	-	-	-
Fla.	X	35	Weekly
Ga.	-	-	-
	In planning stage.		
Hawaii	-	-	-
Ida.	X	25	Currently once per month. This is a new program, implemented in May 1971. Future plans call for testing at once-a-week frequency.
Ill.	-	-	-
Ind.	-	-	-
Ia.	-	-	-
Kans.	-	-	-
Ky.	-	-	-
La.	-	-	-
Me.	-	-	-
Md.	-	-	-
	Contracted to independent laboratories by Drug Abuse Administration.		
Mass.	-	-	-
Mich.	-	-	-
Minn.	-	-	-
	Lab. does laboratory work for agencies outside the Health Dept. that have methadone maintenance programs.		
Miss.	-	-	-
Mo.	-	-	-
Mont.	-	-	-
Nebr.	-	-	-
Nev.	-	-	-
N.H.	-	-	-
N.J.	X	767	Approx. twice a week. (Urine drug monitoring, 53,974).
N.M.	-	-	-
N.Y.	*	*	*
N.C.	-	-	-
N.D.	-	-	-
Ohio	-	-	-
Okla.	-	-	-
Ore.	-	-	-
Pa.	-	-	-
R.I.	-	-	-
S.C.	X	60	Weekly
	In support of private physician.		

TABLE 12-11. METHADONE SCREENING PROGRAMS (CONT)

	(a) Do you have a methadone screening program?	(b) How many people are in the program?	(c) What is the frequency of the tests?
S.D.	-	-	-
Tenn.	-	-	-
Tex.	-	-	-
Utah	-	-	-
Vt.	-	-	-
Va.	*	*	*
Wash.	-	-	-
W.Va.	-	-	-
Wisc.	X	75	Twice a week.
Wyo.	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	X	38	Twice a week.