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**CONSOLIDATED ANNUAL REPORT**  
**on**  
**State and Territorial**  
**Public Health Laboratories**  
**Fiscal Year 1979**

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
PUBLIC HEALTH SERVICE  
CENTER FOR DISEASE CONTROL  
ATLANTA, GEORGIA 30333

**CONSOLIDATED ANNUAL REPORT**  
**on**  
**State and Territorial**  
**Public Health Laboratories**  
**Fiscal Year 1979**

**April 1980**

**A Collaborative Compilation**  
**by the**  
**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES**  
**Public Health Service**  
**Center for Disease Control**  
**Bureau of Laboratories**  
**Atlanta, Georgia 30333**  
**and the**  
**Association of State and Territorial**  
**Public Health Laboratory Directors**

ASSOCIATION OF STATE AND TERRITORIAL  
PUBLIC HEALTH LABORATORY DIRECTORS

1979 – 1980

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# Preface

## To Readers of the Consolidated Annual Report

The intent and purpose of the Consolidated Annual Report is to provide data for planning, management and evaluation to the members of the Association of State and Territorial Public Health Laboratory Directors.

Some readers have attempted to utilize the summary tables for comparison of specific state laboratories in relation to the national average and by rank. Comparisons were made as to expenditures, personnel, specimen load and services without studying the data in the detailed tables or consulting the state laboratory director. The conclusions reached were not valid as the comparisons were in error due to lack of knowledge of the state laboratory activities and budgetary system.

The CAR Committee strongly recommends that readers exercise caution when utilizing the summary tables in making comparisons between state laboratories and that the individual state laboratory director be consulted regarding the use of the comparative data.

J. Mehsen Joseph, Ph.D.  
Chairman, CAR Committee

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## INTRODUCTION

This, the sixteenth edition of the Consolidated Annual Report (CAR), provides quantitative information about laboratory personnel, expenditures, source of funds and services identified in fifteen workload areas. This information is provided by the Association of State and Territorial Public Health Laboratory Directors (ASTPHLD). ASTPHLD consists of the public health laboratories in each of the fifty states, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands.

The primary intent of the CAR is to aid Association members in planning, evaluating, budgeting, and effecting legislative activity at the State level. Principal users of this reporting system are State and Territorial Laboratory Directors, State and Territorial Health Officers and the Center for Disease Control, Bureau of Laboratories.

Fifty-two of the fifty-four member laboratories provided data for this edition. Alaska and New York did not report to the CAR for fiscal year 1979. Therefore, national totals found in this edition represent only fifty-two state and territorial public health laboratories.

The CAR deals with financial, personnel, and workload activities of ASTPHLD. Therefore, this report understates the additional resources expended on public health laboratory services in nearly every state/territory having local health departments. It totally omits those funds expended for public health laboratory services by other state/territorial agencies. If some type of activity is not reported in this CAR for a given Association member, it may indicate that a state or territorial agency other than the public health laboratory performs that service.

The basic unit of study in the Workload Reporting Section of the CAR is the laboratory specimen/sample. This is defined by ASTPHLD as any material received in the laboratory for testing in a workload category or sub-category or a material which is divided into aliquots for testing in multiple categories or sub-categories and is counted as one specimen for each category or sub-category. Specimens collected from the same site on the same patient (or same environmental sample) at the same time, are counted as one specimen in each category or sub-category in which it is tested.

The types of procedures routinely used (those tests performed as a standard operating procedure on a specimen or sample) in Association laboratories are identified by category and sub-category in the fifteen workload areas. The ASTPHLD provides workload data in this report only for those procedures routinely followed in their laboratories and excludes those procedures they are capable of performing but do not do on a routine basis.

To assure complete coverage of laboratory activities the questionnaire for the 1978 CAR was composed of four sections: (1) financial, (2) personnel, (3) workload reporting, and (4) special questions. The *Financial Section* requested data in three areas: (1) expenditure, (2) source of funds, and (3) allocations of expenditure data into workload categories. The *Personnel Section* requested the type and number of budgeted positions in five categories and defined these categories by turnover, vacancies and workload area. All budgeted positions are defined in terms of (FTE) full-time equivalent or man-year equivalent because the standard work week differs among reporting laboratories in terms of number of hours worked. The *Workload Reporting Section* requested specific data concerning routine laboratory procedures and the number of specimens/samples tested under each procedure. The *Special Questions Section* requested information concerning current organizational structure and premarital examination laws.

### NOTE: DATA COMPARISONS

Every attempt has been made to ensure the correctness of the raw data which are included in this report. However, because of the various accounting practices employed, a great diversity exists among Association laboratories. Therefore, the reader is advised to exercise great care in making comparative financial analysis without first consulting the laboratory director involved.

### USE OF SYMBOLS AND TERMS

Basically, the data display format is the same as that of the FY 1978 CAR. The following matrix identifies the symbols found in this edition.

SYMBOL	MEANING AND PURPOSE
*, #	Footnote
-	A report with no activity for that particular item
X	A positive response

The term "specimen" indicates an animal or human source, while "sample" indicates an environmental source; however, in Tables 1-2 through 1-5 the term "specimens" refers to both human sources and environmental samples. Average is the total divided by the number of participating laboratories reporting activity in a given category or sub-category.

### PUBLICATION

The CAR was initiated by ASTPHLD in 1963. The report is designed to provide comprehensive data concerning state and territorial laboratories to ASTPHLD.

The Consolidated Annual Report is a joint activity of ASTPHLD and CDC, Bureau of Laboratories. Because it is compiled by CDC personnel all comments, suggestions, and correspondence on its contents should be forwarded to:

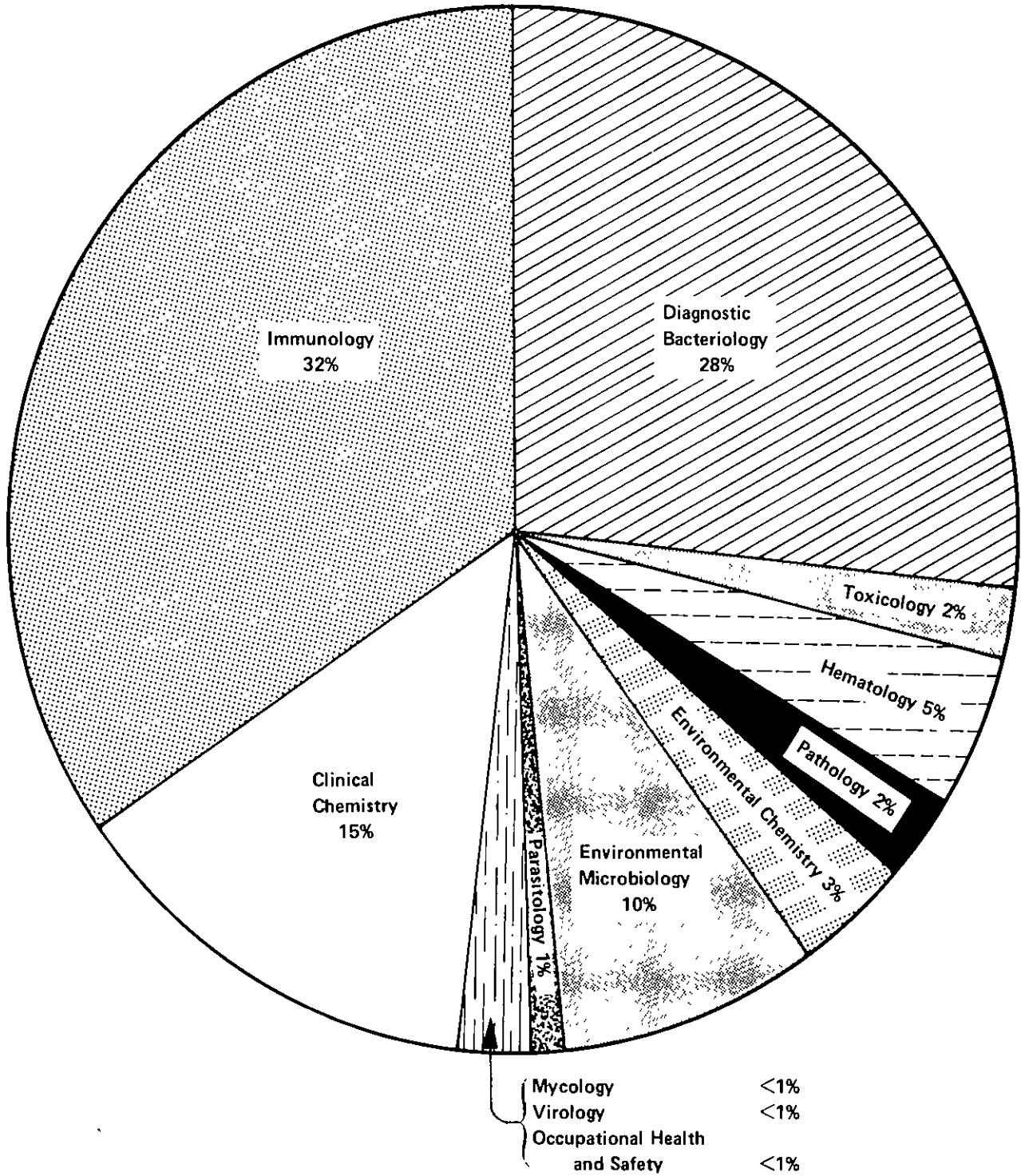
Center for Disease Control  
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Laboratory Management  
Consultation Office, BL  
Chamblee 29-9  
Atlanta, Georgia 30333



**SECTION I**  
**SUMMARY TABLES**

Table 1-1

SPECIMENS/SAMPLES RECEIVED BY THE STATE AND TERRITORIAL PUBLIC HEALTH LABORATORIES



**Table 1-2**  
**SUMMARY OF LABORATORY EXPENDITURES, POSITIONS, AND SPECIMENS**

Lab. & Region	Population X 1000	Expenditures		Laboratory Personnel						Specimens	
		Total Laboratory	Expenditure Per Capita	Budgeted Positions			Budgeted Prof. & Tech. Positions			Total Lab. Specimens	Specimens Per Capita
				Budgeted Positions	Positions To Population	Expenditure Per Position	Budgeted Positions	Positions To Population	Expenditure Per Position		
<b>Total</b> .....	<b>196,167</b>	<b>115,634,338</b>	<b>0.590</b>	<b>5,674.7</b>	<b>1:34,569</b>	<b>20,377</b>	<b>3,505.3</b>	<b>1:55,963</b>	<b>32,988</b>	<b>26,847,473</b>	<b>0.137</b>
Average .....	3,923	2,312,687	—	113.5	—	—	70.1	—	—	516,298	—
<b>New England</b> .....	<b>12,244</b>	<b>12,191,173</b>	<b>0.996</b>	<b>671.5</b>	<b>1:18,234</b>	<b>18,155</b>	<b>423.5</b>	<b>1:28,911</b>	<b>28,787</b>	<b>2,169,657</b>	<b>0.177</b>
Conn. ....	3,108	3,824,259	1.231	228.0	1:13,632	16,773	163.0	1:19,067	23,462	584,894	0.188
Mass. ....	5,782	4,069,498	0.704	235.0	1:24,604	17,317	120.0	1:48,183	33,912	690,165	0.119
Me. ....	1,085	1,139,386	1.050	50.0	1:21,700	22,788	34.0	1:31,912	33,511	133,436	0.123
N.H. ....	849	365,979	0.431	22.0	1:38,591	16,635	14.0	1:60,643	26,141	199,666	0.235
R.I. ....	935	2,307,674	2.468	109.0	1:8,578	21,171	74.0	1:12,635	31,185	389,809	0.417
Vt. ....	485	484,377	0.999	27.5	1:17,636	17,614	18.5	1:26,216	26,183	125,613	0.259
<b>Middle Atlantic</b> .....	<b>19,114</b>	<b>7,299,067</b>	<b>0.382</b>	<b>332.0</b>	<b>1:57,572</b>	<b>21,985</b>	<b>211.0</b>	<b>1:90,588</b>	<b>34,593</b>	<b>831,452</b>	<b>0.044</b>
N.J. ....	7,329	4,672,067	0.638	227.0	1:32,286	20,582	153.0	1:47,902	30,536	628,247	0.086
N.Y. ....	—	—	—	—	—	—	—	—	—	—	—
Pa. ....	11,785	2,625,000	0.223	105.0	1:112,238	25,000	58.0	1:203,190	45,259	125,613	0.011
<b>East North Central</b> .....	<b>41,056</b>	<b>22,456,804</b>	<b>0.547</b>	<b>1,035.3</b>	<b>1:39,656</b>	<b>21,691</b>	<b>594.5</b>	<b>1:69,060</b>	<b>37,774</b>	<b>3,049,336</b>	<b>0.074</b>
Ill. ....	11,245	2,965,835	0.264	172.0	1:65,378	17,243	102.0	1:110,245	29,077	426,662	0.038
Ind. ....	5,330	2,122,173	0.398	83.0	1:64,217	25,568	64.0	1:83,281	33,159	166,217	0.031
Mich. ....	9,129	9,927,490	1.088	416.3	1:21,929	23,847	224.0	1:40,754	44,319	1,035,509	0.113
Ohio ....	10,701	4,047,772	0.378	188.5	1:56,769	21,474	117.0	1:91,462	34,596	882,138	0.082
Wisc. ....	4,651	3,393,534	0.730	175.5	1:26,501	19,336	87.5	1:53,154	38,783	538,720	0.116
<b>West North Central</b> .....	<b>16,884</b>	<b>9,471,904</b>	<b>0.561</b>	<b>440.2</b>	<b>1:38,355</b>	<b>21,517</b>	<b>273.7</b>	<b>1:61,688</b>	<b>34,607</b>	<b>2,209,688</b>	<b>0.131</b>
Ia. ....	2,879	2,943,618	1.022	117.0	1:24,607	25,159	74.0	1:228,162	39,779	531,350	0.185
Kans. ....	2,326	1,561,380	0.671	82.0	1:28,366	19,041	50.0	1:46,520	31,228	304,394	0.131
Minn. ....	3,975	1,724,345	0.434	88.5	1:44,915	19,484	47.0	1:84,574	36,688	420,005	0.106
Mo. ....	4,801	1,571,083	0.327	60.0	1:80,017	26,185	42.0	1:114,310	37,407	548,509	0.114
Nebr. ....	1,561	533,622	0.342	28.0	1:55,750	19,058	20.0	1:78,050	26,681	155,683	0.087
N.D. ....	653	609,162	0.933	34.0	1:19,206	17,917	20.0	1:32,650	30,458	167,614	0.257
S.D. ....	689	528,694	0.767	25.0	1:27,560	21,148	15.0	1:45,933	35,246	102,093	0.148
<b>South Atlantic</b> .....	<b>29,171</b>	<b>18,612,465</b>	<b>0.638</b>	<b>1,078.2</b>	<b>1:27,055</b>	<b>17,263</b>	<b>704.4</b>	<b>1:41,413</b>	<b>26,423</b>	<b>7,458,944</b>	<b>0.256</b>
Del. ....	582	549,696	0.945	32.1	1:18,131	17,124	22.1	1:26,335	24,873	150,493	0.259
D.C. ....	690	1,044,700	1.514	55.0	1:12,545	18,995	45.0	1:15,333	23,216	365,058	0.529
Fla. ....	8,452	4,569,125	0.541	258.0	1:32,760	17,710	168.0	1:50,310	27,197	2,127,860	0.252
Ga. ....	5,048	2,705,192	0.536	137.0	1:36,847	19,746	71.0	1:71,099	38,101	968,229	0.192
Md. ....	4,139	4,384,323	1.059	269.0	1:15,387	16,299	188.0	1:22,016	23,321	1,363,304	0.329
N.C. ....	5,525	2,739,532	0.496	151.0	1:36,589	18,143	96.0	1:57,552	28,537	785,214	0.142
S.C. ....	2,876	1,825,112	0.635	119.1	1:24,148	15,324	84.3	1:34,116	21,650	768,930	0.267
Va. ....	5,135	—	—	—	—	—	—	—	—	655,946	0.128
W. Va. ....	1,859	794,785	0.428	57.0	1:32,614	13,944	30.0	1:61,967	26,493	313,910	0.169
<b>East South Central</b> .....	<b>13,836</b>	<b>8,693,634</b>	<b>0.628</b>	<b>486.5</b>	<b>1:28,440</b>	<b>17,870</b>	<b>289.0</b>	<b>1:47,875</b>	<b>30,082</b>	<b>3,430,027</b>	<b>0.248</b>
Ala. ....	3,690	3,456,353	0.937	188.0	1:19,628	18,385	121.0	1:30,496	28,565	1,382,189	0.375
Ky. ....	3,458	2,066,731	0.598	88.5	1:39,073	23,353	58.0	1:59,621	35,633	308,819	0.089
Miss. ....	2,389	902,897	0.378	52.0	1:45,942	17,363	33.0	1:72,394	27,361	871,091	0.365
Tenn. ....	4,299	2,267,653	0.528	158.0	1:27,209	14,352	77.0	1:55,831	29,450	867,628	0.202
<b>West South Central</b> .....	<b>21,706</b>	<b>9,252,973</b>	<b>0.426</b>	<b>447.0</b>	<b>1:48,559</b>	<b>20,700</b>	<b>271.0</b>	<b>1:80,096</b>	<b>34,144</b>	<b>4,514,164</b>	<b>0.208</b>
Ark. ....	2,144	1,085,231	0.506	61.0	1:35,148	17,791	38.0	1:56,421	28,559	431,412	0.201
La. ....	3,921	2,273,135	0.580	134.0	1:29,261	16,964	58.0	1:67,603	39,192	610,485	0.156
Okla. ....	2,811	964,107	0.343	52.0	1:54,058	18,541	37.0	1:75,973	26,057	415,374	0.148
Tex. ....	12,830	4,930,500	0.384	200.0	1:64,150	24,653	138.0	1:92,971	35,728	3,056,893	0.238
<b>Mountain</b> .....	<b>10,030</b>	<b>9,306,448</b>	<b>0.928</b>	<b>432.8</b>	<b>1:23,175</b>	<b>21,503</b>	<b>266.5</b>	<b>1:37,636</b>	<b>34,921</b>	<b>1,786,474</b>	<b>0.178</b>
Ariz. ....	2,296	1,499,592	0.653	65.0	1:35,323	23,071	42.0	1:54,667	35,705	131,147	0.057
Colo. ....	2,619	1,537,209	0.587	78.0	1:33,577	19,708	50.0	1:52,380	30,744	516,598	0.197
Ida. ....	857	1,351,495	1.577	67.0	1:12,791	20,172	41.0	1:20,902	32,963	225,749	0.263
Mont. ....	761	514,230	0.676	28.5	1:26,702	18,043	20.0	1:38,050	25,712	96,113	0.126
Nev. ....	633	828,403	1.309	32.0	1:19,781	25,888	15.0	1:42,200	55,227	105,534	0.167
N.M. ....	1,190	1,684,177	1.415	77.5	1:15,355	21,731	43.5	1:27,356	38,717	273,959	0.230
Utah ....	1,268	1,619,369	1.277	70.0	1:18,114	23,134	45.0	1:28,178	35,986	208,228	0.164
Wyo. ....	406	271,973	0.670	14.8	1:27,432	18,377	10.0	1:40,600	27,197	229,138	0.564
<b>Pacific</b> .....	<b>28,825</b>	<b>17,253,870</b>	<b>0.599</b>	<b>601.2</b>	<b>1:47,946</b>	<b>28,699</b>	<b>372.7</b>	<b>1:77,341</b>	<b>46,294</b>	<b>1,052,149</b>	<b>0.037</b>
Alaska .....	—	—	—	—	—	—	—	—	—	—	—
Cal. ....	21,896	12,884,665	0.588	405.6	1:53,984	31,767	259.4	1:84,410	49,671	1,24,487	0.006
Hawaii .....	895	987,941	1.104	54.5	1:16,422	18,127	37.5	1:23,867	26,345	295,760	0.331
Ore. ....	2,376	1,531,804	0.645	62.1	1:38,261	24,667	40.8	1:59,235	37,544	452,621	0.191
Wash. ....	3,658	1,849,460	0.506	79.0	1:46,304	23,411	35.0	1:104,514	52,842	179,281	0.049
<b>Territories</b> .....	<b>3,301</b>	<b>1,096,000</b>	<b>0.332</b>	<b>150.0</b>	<b>1:22,007</b>	<b>7,307</b>	<b>99.0</b>	<b>1:33,343</b>	<b>11,071</b>	<b>345,582</b>	<b>0.105</b>
Guam .....	96	187,545	1.954	12.0	1:8,000	15,629	9.0	1:10,667	20,838	15,288	0.159
P.R. ....	3,205	908,455	0.283	138.0	1:23,225	6,583	90.0	1:35,611	10,094	277,724	0.087
V.I. ....	95	—	—	—	—	—	—	—	—	52,570	0.553

Table 1-3  
 NATIONAL RANKING OF STATE & TERRITORIAL PUBLIC HEALTH LABORATORIES BY EXPENDITURES, POSITIONS, AND SPECIMENS\*

Rank	Expenditures				Laboratory Personnel											Specimens				
	Total Laboratory X1000		Expenditure Per Capita		Budgeted Positions					Budgeted Prof. & Tech. Positions						Total Lab. Specimens X1000		Specimens Per Capita		
	State	\$	State	Ratio	Budgeted Positions		Positions To Pop.		Expenditure Per Position		Budgeted Positions		Positions To Pop.		Expenditure Per Position		State	#	State	Ratio
					State	#	State	Ratio (X1000)	State	\$	State	#	State	Ratio (X1000)	State	\$				
Total Average	115,834	2,313	0.590	5,674.7	113.5	1:35	20,377	3,505.3	1:56	32,988	26,847	0.134								
1	Cal.	12,885	R.I.	2,468	Mich	416.3	Guam	1:8	Cal	31,767	Cal	259.4	Guam	1:11	Nev.	55,227	Tex.	3,057	Wyo.	0.564
2	Mich	9,927	Guam	1,954	Cal	405.6	R.I.	1:9	Mo	26,185	Mich	224.0	R.I.	1:13	Wash	52,842	Fla.	2,128	V.I.	0.558
3	Tex.	4,931	Ida	1,577	Md	269.0	D.C.	1:13	Nev	25,888	Md.	188.0	D.C.	1:15	Cal	49,671	Ala.	1,382	D.C.	0.529
4	N.J.	4,672	D.C.	1,514	Fla	258.0	Ida.	1:13	Ind.	25,568	Fla	168.0	Conn.	1:19	Pa.	45,269	Md	1,363	R.I.	0.459
5	Fla	4,569	N.M.	1,415	Mass	235.0	Conn	1:14	Ida	26,159	Conn	163.0	Ida	1:21	Mich	44,319	Mich	1,036	Ala	0.375
6	Md	4,384	Nev.	1,309	Conn	228.0	N.M.	1:15	Pa	25,000	N.J.	153.0	Md	1:22	Ida	39,779	Ga.	968	Miss.	0.365
7	Mass	4,069	Utah	1,277	N.J.	227.0	Md	1:15	Ore	24,667	Tex	138.0	Hawaii	1:24	La	39,192	Ohio	882	Hawaii	0.330
8	Ohio	4,048	Conn	1,231	Tex.	200.0	Hawaii	1:16	Tex	24,653	Ala.	121.0	Vt	1:26	Wisc	38,783	Miss	871	Md	0.329
9	Conn	3,824	Hawaii	1,104	Ohio	188.5	Vt	1:18	Mich	23,847	Mass	120.0	Del	1:26	N.M.	38,717	Tenn	868	S.C.	0.267
10	Ala	3,456	Mich	1,088	Ala	188.0	Utah	1:18	Wash.	23,411	Ohio	117.0	N.M.	1:27	Ga	38,101	N.C.	785	Ida	0.264
11	Wisc	3,394	Md	1,059	Wisc	175.5	Del	1:18	Ky	23,353	Ill	102.0	Utah	1:28	Ore	37,544	S.C.	769	Vt	0.260
12	Ill	2,966	Me	1,050	Ill	172.0	N.D.	1:19	Utah	23,134	N.C.	96.0	Ala	1:30	Mo	37,407	Mass	690	Del	0.258
13	Ida	2,944	La	1,022	Tenn	158.0	Ala	1:20	Ariz	23,071	P.R.	90.0	Me	1:32	Minn	36,688	Va	656	N.D.	0.257
14	N.C.	2,740	Vt	0,999	N.C.	151.0	Nev	1:20	Me.	22,788	Wisc	87.5	N.D.	1:33	Utah	35,986	N.J.	628	Fla	0.252
15	Ga	2,705	Del.	0,945	P.R.	138.0	Me	1:22	N.M.	21,731	S.C.	84.3	S.C.	1:34	Tex	35,728	La	610	Tex	0.238
16	Pa	2,625	Ala.	0,937	Ga.	137.0	Mich.	1:22	Ohio	21,474	Tenn	77.0	P.R.	1:36	Ariz	35,705	Conn	585	N.M.	0.230
17	R.I.	2,308	N.D.	0,933	La	134.0	P.R.	1:23	R.I.	21,171	R.I.	74.0	Mont.	1:38	Ky.	35,633	Mo	549	Tenn.	0.202
18	La.	2,273	S.D.	0,767	S.C.	119.1	S.C.	1:24	S.D.	21,148	Ida.	74.0	Wyo.	1:41	S.D.	35,246	Wisc	539	Ark	0.201
19	Tenn.	2,268	Wisc	0,730	Ida	117.0	Mass	1:25	N.J.	20,582	Ga	71.0	Mich	1:41	Ohio	34,596	Ida	531	Colo.	0.197
20	Ind	2,122	Mass	0,704	R.I.	109.0	Ida	1:25	Ida	20,172	Ind.	61.0	Nev	1:42	Mass	33,912	Colo	517	Ga.	0.192
21	Ky	2,067	Mont	0,676	Pa.	105.0	Wisc	1:27	Ga	19,746	Pa	58.0	S.D.	1:46	Me.	33,511	Ore	453	Ore	0.191
22	Wash	1,849	Kans	0,671	Minn	88.5	Mont	1:27	Colo	19,708	Ky	58.0	Kans	1:47	Ind	33,159	Ark	431	Conn	0.188
23	S.C.	1,825	Wyo	0,670	Ky	88.5	Tenn	1:27	Minn	19,484	La	58.0	N.J.	1:48	Ida	32,963	Ill	427	Ida	0.184
24	Minn	1,724	Ariz	0,653	Ind	83.0	Wyo	1:27	Wisc	19,336	Kans	50.0	Mass	1:48	Kans	31,228	Minn	420	W.Va	0.189
25	N.M.	1,684	Ore	0,645	Kans.	82.0	S.D.	1:28	Nebr	19,058	Colo	50.0	Fla	1:50	R.I.	31,185	Okla	415	Nev	0.167
26	Utah	1,619	N.J.	0,638	Wash	79.0	Kans	1:28	Kans.	19,041	Minn	47.0	Colo	1:52	Colo	30,744	R.I.	390	Utah	0.164
27	Mo	1,571	S.C.	0,635	Colo	78.0	La	1:29	D.C.	18,995	D.C.	45.0	Wisc	1:53	N.J.	30,536	D.C.	365	N.H.	0.157
28	Kans	1,561	Ky	0,598	N.M.	77.5	N.J.	1:32	Okla	18,541	Utah	45.0	Ariz	1:55	N.D.	30,458	W.Va	314	Guam	0.156
29	Colo.	1,537	Cal	0,588	Utah	70.0	W.Va	1:33	Ala	18,385	N.M.	43.5	Tenn	1:56	Tenn	29,450	Ky	309	La.	0.156
30	Ore	1,532	Colo	0,587	Ida.	67.0	Fla	1:33	Wyo	18,377	Mo	42.0	Ark	1:56	Ill	29,077	Kans	304	Okla	0.148
31	Ariz	1,500	La	0,580	Ariz.	65.0	Colo	1:34	N.C.	18,143	Ariz	42.0	N.C.	1:58	Ala.	28,565	Hawaii	295	S.D.	0.148
32	Ida	1,351	Fla	0,541	Ore	62.1	Ark	1:35	Hawaii	18,127	Ida	41.0	Ore	1:58	Ark	28,559	P.R.	278	N.C.	0.142
33	Me.	1,139	Ga	0,536	Ark.	61.0	Ariz	1:35	Mont	18,043	Ore	40.8	Ky	1:60	N.C.	28,537	N.M.	274	Kans	0.131
34	Ark	1,085	Tenn.	0,528	Mo	60.0	N.C.	1:37	N.D.	17,917	Ark.	38.0	N.H.	1:61	Miss	27,361	Wyo	229	Va	0.128
35	D.C.	1,045	Ark	0,506	W.Va	57.0	Ga	1:37	Ark	17,791	Hawaii	37.5	W.Va.	1:62	Fla	27,197	Ida	226	Mont	0.126
36	Hawaii	988	Wash	0,506	D.C.	55.0	Ore	1:38	Fla	17,710	Okla	37.0	La	1:68	Wyo.	27,197	Utah	208	Mass	0.119
37	Okla	964	N.C.	0,496	Hawaii	54.5	N.H.	1:39	Vt	17,614	Wash	35.0	Ga	1:71	Nebr	26,681	Pa	203	Wisc	0.116
38	P.R.	908	Minn	0,434	Miss	52.0	Ky	1:39	Miss	17,363	Me	34.0	Miss	1:72	W.Va.	26,493	Wash	179	Mo	0.114
39	Miss	903	N.H.	0,431	Okla	52.0	Minn	1:45	Mass	17,317	Miss	33.0	Okla	1:76	Hawaii	26,345	N.H.	170	Mich	0.113
40	Nev	828	W.Va	0,428	Me	50.0	Miss.	1:46	Ill	17,243	W.Va	30.0	Nebr	1:78	Vt	26,183	N.D.	168	Minn	0.106
41	W.Va	795	Ind	0,398	N.D.	34.0	Wash	1:46	Del	17,124	Del	22.1	Ind	1:83	N.H.	26,141	Ind	166	Ky	0.089
42	N.D.	609	Tex	0,384	Del	32.1	Cal	1:54	La	16,964	Nebr	20.0	Cal	1:84	Okla	26,057	Del	150	Nebr	0.087
43	Del	550	Ohio	0,378	Nev	32.0	Okla	1:54	Conn	16,773	N.D.	20.0	Minn	1:85	Mont	25,712	Nebr	136	P.R.	0.087
44	Nebr.	534	Miss	0,378	Mont	28.5	Nebr	1:56	N.H.	16,635	Mont	20.0	Ohio	1:91	Del	24,873	Me	133	N.J.	0.086
45	S.D.	529	Okla	0,343	Nebr.	28.0	Ohio	1:57	Md	16,299	Vt	18.5	Tex	1:93	Conn.	23,462	Ariz	131	Ohio	0.082
46	Mont	514	Nebr.	0,342	Vt	27.5	Tex	1:64	Guam	15,629	S.D.	15.0	Wash	1:105	Md	23,321	Vt	124	Ariz	0.057
47	Vt.	484	Mo	0,327	S.D.	25.0	Ind	1:64	S.C.	15,324	Nev.	15.0	Ill	1:110	D.C.	23,216	Cal.	126	Wash	0.049
48	N.H.	386	P.R.	0,283	N.H.	22.0	Ill	1:65	Tenn.	14,352	N.H.	14.0	Mo	1:114	S.C.	21,650	Nev	106	Ill	0.038
49	Wyo	272	Ill.	0,264	Wyo	14.8	Mo	1:80	W.Va.	13,944	Wyo	10.0	Pa.	1:203	Guam	20,838	S.D.	102	Ind.	0.031
50	Guam	188	Pa	0,223	P.R.	12.0	Pa.	1:112	P.R.	6,583	Guam	9.0	Ida	1:228	P.R.	10,094	Mont	96	Me.	0.023
51																				
52																				
53																				
54																				

\* National averages indicated by underlining



Table 1-5  
SUMMARY OF LABORATORY SPECIMENS BY CATEGORY AND PERCENT OF CATEGORY TO TOTAL SPECIMENS

Lab & Region	Total No. of Specimens	Diagnostic Bacteriology		Mycology		Parasitology		Virology		Immunology		Hematology		Clinical Chemistry		Pathology		Environmental Microbiology		Environmental Chemistry		Occupational Health/Safety		Toxicology		
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
No States Reporting	52	52		47		52		50		52		35		48		13		49		41		19		37		
<b>Total</b>	<b>26,847,473</b>	<b>7,648,968</b>	<b>28.5</b>	<b>59,666</b>	<b>0.2</b>	<b>297,285</b>	<b>1.1</b>	<b>108,170</b>	<b>0.7</b>	<b>8,514,830</b>	<b>31.7</b>	<b>1,453,047</b>	<b>5.4</b>	<b>4,068,098</b>	<b>15.2</b>	<b>512,730</b>	<b>1.9</b>	<b>2,629,005</b>	<b>9.8</b>	<b>681,069</b>	<b>3.3</b>	<b>66,187</b>	<b>0.2</b>	<b>544,730</b>	<b>2.0</b>	
Average	516,298	146,942	—	1,267	—	5,717	—	3,723	—	163,743	—	41,516	—	88,437	—	39,441	—	53,653	—	21,489	—	3,188	—	14,722	—	
<b>New England</b>	<b>2,169,657</b>	<b>636,191</b>	<b>29.3</b>	<b>2,904</b>	<b>0.1</b>	<b>17,011</b>	<b>0.8</b>	<b>15,750</b>	<b>0.7</b>	<b>580,148</b>	<b>26.7</b>	<b>16,949</b>	<b>0.8</b>	<b>368,202</b>	<b>17.9</b>	<b>3,082</b>	<b>0.1</b>	<b>178,864</b>	<b>8.2</b>	<b>110,226</b>	<b>5.1</b>	<b>3,824</b>	<b>0.2</b>	<b>216,506</b>	<b>10.0</b>	
Conn	16	584,894	22.6	1,532	0.3	10,751	1.8	9,178	1.6	168,572	28.8	15,524	2.7	116,324	19.9	3,082	0.5	23,467	4.0	28,800	4.9	2,672	0.5	72,684	12.4	
Mass	12	690,165	25.0	671	0.1	33	—	5,284	0.8	202,356	29.3	—	—	195,952	28.4	—	—	38	—	—	—	—	—	—	113,386	16.4
Me	44	133,436	35.0	271	0.2	183	0.1	858	0.6	28,237	21.2	—	—	17,383	13.0	—	—	19,685	14.8	12,384	9.3	45	—	7,715	5.8	
N.H.	39	189,866	22.8	85	0.1	1,145	0.7	188	0.1	40,383	23.8	—	—	21,310	12.6	—	—	—	—	—	—	—	—	—	35	—
R.I.	26	389,809	35.7	88	—	2,307	0.6	72	—	94,320	24.2	1,425	0.4	37,253	9.6	—	—	29,810	7.6	66,872	16.9	1,107	0.3	18,525	4.8	
Vt.	46	125,613	31.2	257	0.2	1,447	1.2	170	0.1	46,280	36.8	—	—	—	—	—	—	30,935	24.6	3,170	2.5	—	—	4,161	3.3	
<b>Middle Atlantic</b>	<b>831,452</b>	<b>262,081</b>	<b>31.5</b>	<b>1,606</b>	<b>0.2</b>	<b>3,314</b>	<b>0.4</b>	<b>10,555</b>	<b>1.3</b>	<b>259,993</b>	<b>31.3</b>	<b>430</b>	<b>0.1</b>	<b>262,004</b>	<b>31.5</b>	—	—	<b>16,906</b>	<b>2.0</b>	<b>13,655</b>	<b>1.6</b>	—	—	<b>1,009</b>	<b>0.1</b>	
N.J.	14	628,247	37.9	1,238	0.2	2,893	0.5	9,056	1.4	249,370	39.7	—	—	97,063	15.4	—	—	16,906	2.7	13,655	2.2	—	—	—	—	
N.Y.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Pa.	37	203,206	11.8	268	0.1	421	0.2	1,499	0.7	10,623	5.2	430	0.2	164,941	81.2	—	—	—	—	—	—	—	—	—	1,008	0.5
<b>East North Central</b>	<b>3,049,338</b>	<b>914,759</b>	<b>30.0</b>	<b>7,391</b>	<b>0.2</b>	<b>13,305</b>	<b>0.4</b>	<b>49,733</b>	<b>1.6</b>	<b>751,188</b>	<b>24.6</b>	<b>48,559</b>	<b>1.6</b>	<b>819,304</b>	<b>26.3</b>	<b>100,134</b>	<b>3.3</b>	<b>360,266</b>	<b>11.8</b>	<b>132,791</b>	<b>4.4</b>	<b>16,950</b>	<b>0.6</b>	<b>34,955</b>	<b>1.1</b>	
Ill.	23	426,662	43.2	1,210	0.3	1,139	0.3	11,548	2.7	121,870	28.6	—	—	12,311	2.9	—	—	57,260	13.4	24,515	5.7	—	—	12,535	2.9	
Ind.	41	1,190,717	7.2	730	0.4	2,323	1.4	3,324	2.0	64,762	99.0	—	—	—	—	—	—	58,767	35.4	74,385	14.7	—	—	39	—	
Mich.	5	1,035,509	31.8	1,915	0.2	3,712	0.4	4,386	0.4	328,596	31.7	11,902	1.1	225,743	21.8	—	—	101,848	9.8	28,392	2.7	—	—	—	—	
Ohio	7	882,138	39.0	764	0.1	1,494	0.2	23,708	2.7	104,651	11.9	4,798	0.5	282,585	32.0	—	—	75,361	8.5	24,077	2.7	6,506	0.7	14,455	1.6	
Wisc.	18	538,720	8.5	2,772	0.5	4,838	0.9	6,767	1.3	131,309	24.4	31,859	5.9	98,665	18.3	100,134	18.6	66,940	12.4	31,442	5.8	10,444	1.9	7,926	1.5	
<b>West North Central</b>	<b>2,209,688</b>	<b>635,362</b>	<b>28.8</b>	<b>7,006</b>	<b>0.3</b>	<b>21,411</b>	<b>1.0</b>	<b>13,786</b>	<b>0.6</b>	<b>847,090</b>	<b>38.3</b>	<b>25,549</b>	<b>1.2</b>	<b>222,931</b>	<b>10.1</b>	<b>204</b>	<b>—</b>	<b>277,278</b>	<b>12.5</b>	<b>137,627</b>	<b>6.2</b>	<b>4,210</b>	<b>0.2</b>	<b>17,224</b>	<b>0.8</b>	
Ia.	19	531,350	25.2	1,120	0.2	2,033	0.4	2,857	0.5	240,879	45.3	—	—	2,985	0.6	—	—	45,736	8.6	91,071	17.1	3,285	0.6	7,426	1.4	
Kans.	30	304,394	23.9	764	0.3	5,230	1.7	597	0.2	102,622	33.7	—	—	50,584	16.6	—	—	51,274	16.8	16,529	5.4	925	0.3	3,136	1.0	
Minn.	24	420,005	124.023	29.5	3,823	0.9	10,798	2.6	5,335	1.3	207,197	49.3	—	—	68,565	16.3	204	—	—	—	—	—	—	—	—	
Mo.	17	548,509	187,813	34.2	466	0.1	1,362	0.2	3,686	0.7	144,886	26.4	14,154	2.6	58,811	10.7	—	—	125,059	22.8	11,311	2.1	—	—	861	0.2
Nebr.	43	135,683	27,034	19.9	55	—	399	0.3	600	0.4	66,473	49.0	—	—	2,772	2.0	—	—	23,896	17.6	8,653	6.4	—	—	5,801	4.3
N.D.	40	167,614	56,820	33.9	523	0.3	1,177	0.7	452	0.3	47,553	28.4	11,395	6.8	39,214	23.4	—	—	10,480	6.3	—	—	—	—	—	—
S.D.	49	102,093	32,931	32.3	155	0.2	412	0.4	269	0.3	37,380	36.6	—	—	—	—	—	—	20,833	20.4	—	—	—	—	—	—
<b>South Atlantic</b>	<b>7,458,944</b>	<b>2,013,353</b>	<b>27.0</b>	<b>10,903</b>	<b>0.1</b>	<b>125,259</b>	<b>1.7</b>	<b>37,364</b>	<b>0.5</b>	<b>2,333,300</b>	<b>31.3</b>	<b>517,480</b>	<b>6.9</b>	<b>1,198,327</b>	<b>16.1</b>	<b>388,123</b>	<b>5.2</b>	<b>528,236</b>	<b>7.1</b>	<b>133,655</b>	<b>1.8</b>	<b>16,925</b>	<b>0.2</b>	<b>156,019</b>	<b>2.1</b>	
Del.	42	150,493	32,282	21.6	—	210	0.1	1,192	0.8	39,569	26.3	1,972	1.3	8,902	5.7	47,441	31.5	11,800	7.8	4,023	3.3	—	—	2,502	1.7	
D.C.	27	365,058	112,502	30.8	—	294	—	63	—	119,611	32.5	53,304	14.6	81,629	11.4	16,976	4.7	1,191	0.3	1,673	0.6	—	—	18,815	5.2	
Fla.	2	2,127,880	686,372	30.8	2,292	0.1	59,700	2.8	5,511	0.3	564,342	31.2	150,298	7.1	308,112	14.5	—	—	256,551	12.1	5,179	0.2	1,231	0.1	18,272	0.9
Ga.	6	968,229	270,499	27.9	907	0.1	22,740	2.3	11,523	1.2	461,293	47.6	49,507	5.1	112,479	11.6	—	—	183	—	—	—	97	—	39,112	4.0
Md.	4	1,263,304	407,901	29.9	2,343	0.2	8,140	0.6	4,597	0.3	372,100	27.3	94,076	6.9	201,585	14.8	73,766	5.4	103,569	7.6	48,930	3.6	9,264	0.7	37,053	2.7
N.C.	10	785,214	22,924	2.9	1,897	0.2	5,863	0.7	3,112	0.4	238,038	30.1	53,951	6.8	151,318	19.3	204,633	26.1	75,621	9.6	19,883	2.5	4,956	0.6	5,218	0.7
S.C.	11	768,930	240,428	31.1	1,683	0.2	13,489	1.8	8,631	1.1	238,579	31.0	70,556	9.2	155,276	20.2	—	—	15,160	2.0	12,773	1.7	—	—	12,355	1.6
Va.	13	655,946	160,310	24.4	1,632	0.2	12,186	1.9	1,971	0.3	168,870	25.7	42,557	6.5	150,471	22.9	—	—	53,586	8.2	40,284	6.1	1,377	0.2	22,692	3.5
W.Va.	28	313,910	110,135	35.1	449	0.1	2,628	0.8	764	0.2	53,808	17.2	1,259	0.4	68,875	21.9	45,307	14.4	30,595	9.7	—	—	—	—	—	—
<b>East South Central</b>	<b>3,430,027</b>	<b>1,143,190</b>	<b>33.3</b>	<b>8,660</b>	<b>0.3</b>	<b>45,882</b>	<b>1.3</b>	<b>9,193</b>	<b>0.3</b>	<b>1,189,246</b>	<b>34.7</b>	<b>266,732</b>	<b>7.7</b>	<b>381,407</b>	<b>10.5</b>	<b>16,547</b>	<b>0.5</b>	<b>318,532</b>	<b>9.3</b>	<b>61,852</b>	<b>1.8</b>	<b>2,658</b>	<b>0.1</b>	<b>8,330</b>	<b>0.2</b>	
Ala.	3	1,382,189	448,868	32.5	3,873	0.3	26,377	2.1	4,073	0.3	471,417	34.1	77,251	5.6	151,933	11.0	14,700	1.1	125,284	9.1	51,387	3.7	—	—	5,028	0.4
Ky.	29	308,819	30,383	9.8	276	0.1	688	0.2	1,977	0.6	142,167	46.0	19,376	6.3	54,161	17.5	847	0.3	45,604	14.8	7,380	2.4	2,658	0.9	3,304	1.1
Miss.	8	871,091	252,204	29.0	2,196	0.3	10,206	1.2	702	0.1	271,188	31.1	167,979	19.3	86,374	9.9	—	—	77,157	8.9	3,085	0.4	—	—	—	—
Tenn.	9	867,628	411,735	47.5	2,315	0.3	8,411	0.7	2,441	0.3	304,174	35.1	1,126	0.1	68,939	7.9	—	—								

**SECTION II  
PERSONNEL**

Table 2-1  
BUDGETED POSITIONS BY CATEGORIES AND POSITION VACANCIES

Lab & Region	Total Budgeted Positions	Management			Clerical			Prof. & Tech.			Support Ser			Maintenance			Total Filled Positions	
		#	%	= Vac	#	%	= Vac	#	%	= Vac	#	%	= Vac	#	%	= Vac	#	%
<b>Total</b> .....	<b>5,673.0</b>	<b>385.0</b>	<b>6.8</b>	<b>15.0</b>	<b>752.8</b>	<b>13.3</b>	<b>68.5</b>	<b>3,502.6</b>	<b>61.7</b>	<b>202.0</b>	<b>887.6</b>	<b>15.6</b>	<b>54.0</b>	<b>145.0</b>	<b>2.6</b>	<b>10.0</b>	<b>5,065.5</b>	<b>89.3</b>
Average .....	111.2	7.6	6.8	0.3	14.8	13.3	1.3	68.7	61.7	4.0	17.4	15.6	1.1	2.8	2.6	0.2	99.3	89.3
<b>New England</b> .....	<b>671.5</b>	<b>41.0</b>	<b>6.1</b>	<b>-</b>	<b>89.0</b>	<b>13.2</b>	<b>5.0</b>	<b>423.5</b>	<b>63.1</b>	<b>15.0</b>	<b>82.0</b>	<b>12.2</b>	<b>5.0</b>	<b>36.0</b>	<b>5.4</b>	<b>2.0</b>	<b>644.5</b>	<b>96.0</b>
Conn .....	228.0	7.0	3.1	-	30.0	13.2	3.0	163.0	71.5	11.0	27.0	11.8	2.0	1.0	0.4	-	212.0	93.0
Mass .....	235.0	25.0	10.7	-	33.0	14.0	2.0	120.0	51.1	1.0	24.0	10.2	2.0	33.0	14.0	2.0	228.0	97.0
Me .....	50.0	2.0	4.0	-	7.0	14.0	-	34.0	68.0	2.0	7.0	14.0	-	-	-	-	48.0	96.0
N.H. ....	22.0	1.0	4.6	-	4.0	18.2	-	14.0	63.6	-	3.0	13.6	-	-	-	-	22.0	100.0
R.I. ....	109.0	5.0	4.6	-	11.0	10.1	-	74.0	67.9	1.0	17.0	15.6	1.0	2.0	1.8	-	107.0	98.2
Vt .....	27.5	1.0	3.7	-	4.0	14.5	-	18.5	67.3	-	4.0	14.5	-	-	-	-	27.5	100.0
<b>Middle Atlantic</b> .....	<b>332.0</b>	<b>27.0</b>	<b>8.1</b>	<b>-</b>	<b>45.0</b>	<b>13.5</b>	<b>6.0</b>	<b>211.0</b>	<b>63.6</b>	<b>9.0</b>	<b>46.0</b>	<b>13.9</b>	<b>2.0</b>	<b>3.0</b>	<b>0.9</b>	<b>1.0</b>	<b>314.0</b>	<b>94.6</b>
N.J. ....	227.0	8.0	3.5	-	27.0	11.9	1.0	153.0	67.4	6.0	39.0	17.2	2.0	-	-	-	218.0	96.0
N.Y. ....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa. ....	105.0	19.0	18.1	-	18.0	17.1	5.0	58.0	55.2	3.0	7.0	6.7	-	3.0	2.9	1.0	96.0	91.4
<b>East North Central</b> .....	<b>1,035.3</b>	<b>83.0</b>	<b>8.0</b>	<b>5.0</b>	<b>96.0</b>	<b>9.3</b>	<b>16.0</b>	<b>594.5</b>	<b>57.4</b>	<b>70.0</b>	<b>195.8</b>	<b>18.9</b>	<b>22.0</b>	<b>66.0</b>	<b>6.4</b>	<b>7.0</b>	<b>915.3</b>	<b>88.4</b>
Ill. ....	172.0	13.0	7.5	1.0	27.0	15.7	8.0	102.0	59.3	31.0	29.0	16.9	6.0	1.0	0.6	-	126.0	73.3
Ind. ....	83.0	7.0	8.4	-	-	-	-	64.0	77.1	2.0	12.0	14.5	1.0	-	-	-	80.0	96.4
Mich. ....	416.3	15.0	3.6	2.0	27.0	6.5	1.0	224.0	63.8	19.0	94.3	22.7	9.0	56.0	13.4	6.0	379.3	91.1
Ohio ....	188.5	7.0	3.7	-	20.0	10.6	3.0	117.0	62.1	8.0	35.5	18.8	4.0	9.0	4.8	1.0	172.5	91.5
Wisc. ....	175.5	41.0	23.4	2.0	22.0	12.5	4.0	87.5	49.9	10.0	25.0	14.2	2.0	-	-	-	157.5	89.7
<b>West North Central</b> .....	<b>434.5</b>	<b>43.0</b>	<b>9.9</b>	<b>3.0</b>	<b>64.5</b>	<b>14.8</b>	<b>4.0</b>	<b>268.0</b>	<b>61.7</b>	<b>6.0</b>	<b>58.0</b>	<b>13.4</b>	<b>2.0</b>	<b>1.0</b>	<b>0.2</b>	<b>-</b>	<b>419.5</b>	<b>96.6</b>
Ia. ....	117.0	12.0	10.3	-	17.0	14.5	1.0	74.0	63.2	3.0	14.0	12.0	-	-	-	-	113.0	95.6
Kans. ....	82.0	13.0	15.8	3.0	10.0	12.2	1.0	50.0	61.0	2.0	9.0	11.0	-	-	-	-	76.0	92.7
Minn. ....	88.5	6.0	6.8	-	18.5	20.9	2.0	47.0	53.1	1.0	17.0	19.2	1.0	-	-	-	84.5	95.5
Mo. ....	60.0	3.0	5.0	-	7.0	11.7	-	42.0	70.0	-	7.0	11.7	-	1.0	1.6	-	60.0	100.0
Nebr. ....	28.0	2.0	7.1	-	4.0	14.3	-	20.0	71.5	-	2.0	7.1	-	-	-	-	28.0	100.0
N.D. ....	34.0	3.0	8.8	-	5.0	14.7	-	20.0	58.8	-	6.0	17.7	-	-	-	-	34.0	100.0
S.D. ....	25.0	4.0	16.0	-	3.0	12.0	-	15.0	60.0	-	3.0	12.0	1.0	-	-	-	24.0	96.0
<b>South Atlantic</b> .....	<b>1,078.2</b>	<b>50.0</b>	<b>4.7</b>	<b>1.0</b>	<b>144.8</b>	<b>13.4</b>	<b>8.0</b>	<b>704.4</b>	<b>65.3</b>	<b>24.6</b>	<b>162.0</b>	<b>15.0</b>	<b>3.0</b>	<b>17.0</b>	<b>1.6</b>	<b>-</b>	<b>783.6</b>	<b>72.7</b>
Del. ....	32.1	1.0	3.1	-	4.0	12.5	-	22.1	68.8	2.0	5.0	15.6	-	-	-	-	30.1	93.8
D.C. ....	55.0	2.0	3.6	-	6.0	10.9	2.0	45.0	81.9	3.0	2.0	3.6	-	-	-	-	50.0	90.9
Fla. ....	258.0	12.0	4.6	-	35.0	13.6	-	168.0	65.1	-	41.0	15.9	-	2.0	0.8	-	-	-
Ga. ....	137.0	8.0	5.8	-	22.0	16.1	-	71.0	51.8	2.0	35.0	25.6	-	1.0	0.7	-	135.0	98.5
Md. ....	269.0	4.0	1.5	-	37.0	13.7	1.0	188.0	69.9	4.0	35.0	13.0	1.0	5.0	1.9	-	263.0	98.0
N.C. ....	151.0	9.0	5.9	-	19.0	12.6	1.0	96.0	63.6	4.0	25.0	16.6	-	2.0	1.3	-	146.0	96.7
S.C. ....	119.1	12.0	10.0	1.0	10.8	9.1	1.0	84.3	70.8	5.6	10.0	8.4	-	2.0	1.7	-	111.5	93.6
Va. ....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W.Va. ....	57.0	2.0	3.5	-	11.0	19.3	3.0	30.0	52.6	4.0	9.0	15.8	2.0	5.0	8.8	-	48.0	84.2
<b>East South Central</b> .....	<b>486.5</b>	<b>32.0</b>	<b>6.6</b>	<b>1.0</b>	<b>71.0</b>	<b>14.6</b>	<b>2.0</b>	<b>289.0</b>	<b>59.4</b>	<b>10.0</b>	<b>83.5</b>	<b>17.1</b>	<b>3.0</b>	<b>11.0</b>	<b>2.3</b>	<b>-</b>	<b>470.5</b>	<b>96.7</b>
Ala. ....	188.0	14.0	7.4	-	30.0	15.9	1.0	121.0	64.4	2.0	21.0	11.2	3.0	2.0	7.7	-	184.0	97.9
Ky. ....	88.5	6.0	6.8	-	10.0	11.3	-	58.0	65.5	5.0	13.5	15.3	1.0	1.0	1.1	-	82.5	93.2
Miss. ....	52.0	2.0	3.8	-	8.0	15.4	-	33.0	63.5	1.0	9.0	17.3	-	-	-	-	51.0	98.1
Tenn. ....	158.0	10.0	6.3	1.0	23.0	14.6	1.0	77.0	48.7	2.0	40.0	25.3	1.0	8.0	5.1	-	153.0	96.8
<b>West South Central</b> .....	<b>447.0</b>	<b>16.0</b>	<b>3.6</b>	<b>-</b>	<b>84.7</b>	<b>18.9</b>	<b>11.0</b>	<b>271.0</b>	<b>60.6</b>	<b>13.0</b>	<b>75.3</b>	<b>16.9</b>	<b>6.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>417.0</b>	<b>93.3</b>
Ark. ....	61.0	2.0	3.3	-	11.0	18.0	4.0	38.0	62.3	4.0	10.0	16.4	3.0	-	-	-	50.0	82.0
La. ....	134.0	9.0	6.7	-	35.0	26.1	-	58.0	43.3	-	32.0	23.9	2.0	-	-	-	132.0	98.5
Okl. ....	52.0	2.0	3.8	-	6.7	12.9	-	37.0	71.2	-	6.3	12.1	-	-	-	-	52.0	100.0
Tex. ....	200.0	3.0	1.5	-	32.0	16.0	7.0	138.0	69.0	9.0	27.0	13.5	1.0	-	-	-	183.0	91.5
<b>Mountain</b> .....	<b>432.8</b>	<b>47.0</b>	<b>10.8</b>	<b>1.0</b>	<b>60.0</b>	<b>13.9</b>	<b>2.0</b>	<b>266.5</b>	<b>61.6</b>	<b>7.0</b>	<b>52.3</b>	<b>12.1</b>	<b>2.0</b>	<b>7.0</b>	<b>1.6</b>	<b>-</b>	<b>420.8</b>	<b>97.2</b>
Ariz. ....	65.0	6.0	9.2	-	14.0	21.6	1.0	42.0	64.6	1.0	2.0	3.1	1.0	1.0	1.5	-	62.0	95.4
Colo. ....	78.0	14.0	17.9	-	7.0	9.0	1.0	50.0	64.1	2.0	7.0	9.0	1.0	-	-	-	74.0	94.9
Ida. ....	67.0	6.0	8.9	-	14.0	20.9	-	41.0	61.2	2.5	2.0	3.0	-	4.0	6.0	-	64.5	96.3
Mont. ....	28.5	2.0	7.0	-	3.0	10.5	-	20.0	70.2	-	3.5	12.3	-	-	-	-	28.5	100.0
Neav. ....	32.0	2.0	6.2	-	3.0	9.4	-	15.0	46.9	-	11.0	34.4	-	1.0	3.1	-	32.0	100.0
N.M. ....	77.5	8.0	10.4	1.0	7.0	9.0	-	43.5	56.1	1.5	18.0	23.2	-	1.0	1.3	-	75.0	96.8
Utah. ....	70.0	8.0	11.4	-	10.0	14.3	-	45.0	64.3	-	7.0	10.0	-	-	-	-	70.0	100.0
Wyo. ....	14.8	1.0	6.8	-	2.0	13.5	-	10.0	67.5	-	1.8	12.2	-	-	-	-	14.8	100.0
<b>Pacific</b> .....	<b>601.2</b>	<b>31.0</b>	<b>5.2</b>	<b>3.0</b>	<b>80.8</b>	<b>13.4</b>	<b>6.5</b>	<b>372.7</b>	<b>62.0</b>	<b>18.4</b>	<b>115.7</b>	<b>19.2</b>	<b>8.0</b>	<b>1.0</b>	<b>0.2</b>	<b>-</b>	<b>565.3</b>	<b>94.0</b>
Alaska. ....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cal. ....	405.6	13.0	3.2	2.0	52.5	12.9	4.5	259.4	64.0	13.4	80.7	19.9	5.0	-	-	-	380.7	93.9
Hawaii. ....	54.5	1.0	1.8	-	4.0	7.4	-	37.5	68.8	2.0	12.0	22.0	1.0	-	-	-	51.5	94.5
Ore. ....	62.1	5.0	8.1	-	11.3	18.2	1.0	40.8	65.7	1.0	5.0	8.0	-	-	-	-	60.1	96.8
Wash. ....	79.0	12.0	15.2	1.0	13.0	16.4	1.0	35.0	44.3	2.0	18.0	22.8	2.0	1.0	1.3	-	73.0	92.4
<b>Territories</b> .....	<b>154.0</b>	<b>15.0</b>	<b>9.8</b>	<b>1.0</b>	<b>17.0</b>	<b>11.0</b>	<b>8.0</b>	<b>102.0</b>	<b>66.2</b>	<b>29.0</b>	<b>17.0</b>	<b>11.0</b>	<b>1.0</b>	<b>3.0</b>	<b>2.0</b>	<b>-</b>	<b>115.0</b>	<b>74.7</b>
Guam. ....	12.0	2.0	16.7	-	1.0	8.3	-	9.0	75.0	1.0	-	-	-	-	-			



Table 2-2  
TURNOVER

Lab & Region	Total Filled Pos.	Total # Resig & Sep.	% Turnover Filled Pos.	Number of Resignations & Separations by Categories						
				Management	Clerical	Prof & Tech Positions			Supportive Services	Maintenance
						# Pos.	Resig & Sep.	% Turnover		
<b>Total</b> .....	<b>5,065.5</b>	<b>748.3</b>	<b>14.8</b>	<b>31.0</b>	<b>174.5</b>	<b>3,334.6</b>	<b>369.0</b>	<b>11.1</b>	<b>150.8</b>	<b>29.0</b>
Average .....	101.3	15.0	14.8	0.6	3.5	66.7	7.4	11.1	3.0	0.6
<b>New England</b> .....	<b>644.5</b>	<b>55.0</b>	<b>8.5</b>	<b>1.0</b>	<b>15.0</b>	<b>423.5</b>	<b>27.0</b>	<b>6.4</b>	<b>8.0</b>	<b>4.0</b>
Conn. ....	212.0	15.0	7.1	—	3.0	163.0	10.0	6.1	2.0	—
Mass. ....	228.0	17.0	7.5	1.0	6.0	120.0	3.0	2.5	3.0	4.0
Me. ....	48.0	3.0	6.3	—	1.0	34.0	1.0	2.9	1.0	—
N.H. ....	22.0	4.0	18.2	—	2.0	14.0	2.0	14.3	—	—
R.I. ....	107.0	15.0	14.0	—	2.0	74.0	11.0	14.9	2.0	—
Vt. ....	27.5	1.0	3.6	—	1.0	18.5	—	—	—	—
<b>Middle Atlantic</b> .....	<b>314.0</b>	<b>49.0</b>	<b>15.6</b>	<b>—</b>	<b>19.0</b>	<b>211.0</b>	<b>19.0</b>	<b>9.0</b>	<b>10.0</b>	<b>1.0</b>
N.J. ....	218.0	40.0	18.3	—	14.0	153.0	16.0	10.5	10.0	—
N.Y. ....	—	—	—	—	—	—	—	—	—	—
Pa. ....	96.0	9.0	9.4	—	5.0	58.0	3.0	5.2	—	1.0
<b>East North Central</b> .....	<b>915.3</b>	<b>162.0</b>	<b>17.7</b>	<b>5.0</b>	<b>23.0</b>	<b>594.5</b>	<b>83.0</b>	<b>14.0</b>	<b>38.0</b>	<b>13.0</b>
Ill. ....	126.0	21.0	16.7	—	4.0	102.0	13.0	12.7	4.0	—
Ind. ....	80.0	10.0	12.5	—	—	64.0	7.0	10.9	3.0	—
Mich. ....	379.3	42.0	11.1	2.0	1.0	224.0	13.0	5.8	16.0	10.0
Ohio ....	172.5	65.0	37.7	1.0	14.0	117.0	37.0	31.6	10.0	3.0
Wisc. ....	157.5	24.0	15.2	2.0	4.0	87.5	13.0	14.9	5.0	—
<b>West North Central</b> .....	<b>419.5</b>	<b>72.0</b>	<b>17.2</b>	<b>7.0</b>	<b>26.0</b>	<b>268.0</b>	<b>29.0</b>	<b>10.8</b>	<b>16.0</b>	<b>—</b>
Ia. ....	113.0	18.0	15.9	1.0	6.0	74.0	9.0	12.2	2.0	—
Kans. ....	76.0	17.0	22.4	1.0	6.0	50.0	8.0	16.0	2.0	—
Minn. ....	84.5	18.0	21.3	—	11.0	47.0	2.0	4.3	5.0	—
Mo. ....	60.0	8.0	13.3	—	—	42.0	5.0	11.9	3.0	—
Nebr. ....	28.0	4.0	14.3	1.0	—	20.0	2.0	10.0	1.0	—
N.D. ....	34.0	2.0	5.9	—	—	20.0	1.0	5.0	1.0	—
S.D. ....	24.0	5.0	20.8	4.0	3.0	15.0	2.0	13.3	2.0	—
<b>South Atlantic</b> .....	<b>783.6</b>	<b>125.6</b>	<b>16.0</b>	<b>5.0</b>	<b>29.0</b>	<b>536.4</b>	<b>76.6</b>	<b>14.3</b>	<b>11.0</b>	<b>4.0</b>
Del. ....	30.1	5.0	16.6	—	2.0	22.1	2.0	9.1	1.0	—
D.C. ....	50.0	5.0	10.0	—	2.0	45.0	3.0	6.7	—	—
Fla. ....	—	—	—	—	—	—	—	—	—	—
Ga. ....	135.0	20.0	14.8	—	8.0	71.0	10.0	7.4	2.0	—
Md. ....	263.0	32.0	12.2	1.0	7.0	188.0	21.0	11.2	3.0	—
N.C. ....	146.0	24.0	16.4	1.0	2.0	96.0	18.0	18.8	3.0	—
S.C. ....	111.5	21.6	19.4	3.0	3.0	84.3	14.6	17.3	—	1.0
Va. ....	—	—	—	—	—	—	—	—	—	—
W. Va. ....	48.0	18.0	37.5	—	5.0	30.0	8.0	26.7	2.0	3.0
<b>East South Central</b> .....	<b>470.5</b>	<b>72.0</b>	<b>15.3</b>	<b>8.0</b>	<b>18.0</b>	<b>289.0</b>	<b>29.0</b>	<b>10.0</b>	<b>16.0</b>	<b>1.0</b>
Ala. ....	184.0	25.0	13.6	4.0	7.0	121.0	8.0	6.6	6.0	—
Ky. ....	82.5	10.0	12.1	—	4.0	58.0	4.0	6.9	2.0	—
Miss. ....	51.0	8.0	15.7	—	1.0	33.0	6.0	18.2	1.0	—
Tenn. ....	153.0	29.0	18.9	4.0	6.0	77.0	11.0	14.3	7.0	1.0
<b>West South Central</b> .....	<b>417.0</b>	<b>81.0</b>	<b>19.4</b>	<b>—</b>	<b>18.0</b>	<b>271.0</b>	<b>41.0</b>	<b>15.1</b>	<b>22.0</b>	<b>—</b>
Ark. ....	50.0	14.0	28.0	—	4.0	38.0	7.0	18.4	3.0	—
La. ....	132.0	27.0	20.5	—	4.0	58.0	12.0	20.7	11.0	—
Okla. ....	52.0	5.0	9.6	—	—	37.0	4.0	10.8	1.0	—
Tex. ....	183.0	35.0	19.1	—	10.0	138.0	18.0	13.0	7.0	—
<b>Mountain</b> .....	<b>420.8</b>	<b>70.8</b>	<b>16.8</b>	<b>2.0</b>	<b>15.0</b>	<b>266.5</b>	<b>33.0</b>	<b>12.4</b>	<b>15.8</b>	<b>5.0</b>
Ariz. ....	62.0	10.0	16.1	1.0	4.0	42.0	4.0	9.5	1.0	—
Colo. ....	74.0	12.0	16.2	—	3.0	50.0	5.0	10.0	4.0	—
Ida. ....	64.5	14.0	21.7	—	4.0	41.0	6.0	14.6	—	4.0
Mont. ....	28.5	3.0	10.5	—	—	20.0	3.0	15.0	—	—
Nev. ....	32.0	6.0	18.8	—	—	15.0	2.0	13.3	4.0	—
N.M. ....	75.0	12.0	16.0	1.0	1.0	43.5	6.0	13.8	3.0	1.0
Utah ....	70.0	10.0	14.3	—	3.0	45.0	5.0	11.1	2.0	—
Wyo. ....	14.8	3.8	25.7	—	—	10.0	2.0	20.0	1.8	—
<b>Pacific</b> .....	<b>565.3</b>	<b>50.9</b>	<b>9.0</b>	<b>3.0</b>	<b>10.5</b>	<b>372.7</b>	<b>24.4</b>	<b>6.6</b>	<b>13.0</b>	<b>—</b>
Alaska ....	—	—	—	—	—	—	—	—	—	—
Cal. ....	380.7	26.9	7.1	2.0	4.5	259.4	13.4	5.2	7.0	—
Hawaii ....	51.5	5.0	9.7	—	—	37.5	3.0	8.0	2.0	—
Ore. ....	60.1	13.0	21.6	—	5.0	40.8	6.0	14.7	2.0	—
Wash. ....	73.0	6.0	8.2	1.0	1.0	35.0	2.0	5.7	2.0	—
<b>Territories</b> .....	<b>115.0</b>	<b>10.0</b>	<b>8.7</b>	<b>—</b>	<b>1.0</b>	<b>102.0</b>	<b>7.0</b>	<b>6.9</b>	<b>1.0</b>	<b>1.0</b>
Guam ....	11.0	2.0	18.2	—	—	9.0	2.0	22.2	—	—
P.R. ....	101.0	4.0	4.0	—	—	90.0	2.0	2.2	1.0	1.0
V.I. ....	3.0	4.0	133.3	—	1.0	3.0	3.0	100.0	—	—

**Table 2-3**  
**STAFFING PATTERN OF PROFESSIONAL AND TECHNICAL PERSONNEL IN THE 15 WORKLOAD REPORTING CATEGORIES AND POSITION CHANGES SINCE LAST REPORTING PERIOD (+ OR -)**

Lab & Region	WORKLOAD REPORTING CATEGORIES															Total Prof. and Tech. Pos. Reported in Workload Categories	Total Changes Reported		
	I Diagnostic Bact.	II Mycology	III Parasitology	IV Virology	V Immunology	VI Hematology	VII Clinical Chemistry	VIII Pathology	IX Env. Micro.	X Env. Chem.	XI Occup. Health & Safety	XII Toxicology	XIII Lab. Inspec. Program	XIV Biologic. Reagent, Media Prod.	XV Research and Develop.				
<b>New England</b>																			
Conn	230 +15	10	40	40	160 +4.8	30	170 +8.8	10	80 +0.8	360 +6.9	20 -3.0	270 +2.0	130 +2.0	80	-	-1.0	163.0	+22.6	
Mass	210 +10	10	20	130 +1.0	110	-	140	-	10	-	-	140 +1.0	30 -1.0	400 +1.0	10 -1.0	-	120.0	+2.0	
Me	70	-10	-10	35 +0.5	15	-	10	-	80	-	80	-	25	20	0.5	+0.5	34.0	-1.0	
NH	98	0.2	0.5	0.1	6.5	-	0.5	-	-	-	-	0.1	10	0.5	-	-	14.0	-	
R.I.	70	1	-	-	6.5	-	60 -1.0	-	100	240 +3.0	40 +1.0	150 -2.0	20 +1.0	-	-	-	74.0	+2.0	
Vt.	70	1	-	-	6.5	-	-	-	15 -0.5	15 -0.5	-	20	0.1	1.0	-	-	18.5	-1.5	
	51 +1.0	0.3	1.0	1.5	35 -1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Middle Atlantic</b>																			
N.J.	240 -7.0	20	10	240	120 +12.0	-	80 +5.0	-	60 -2.0	530 +21.0	-	-200	230 -2.0	-	-	-	153.0	+7.0	
N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.0	+5.0	
Pa	190 +4.0	1	1	110 +1.0	IV	110 -1.0	VI	-	-	-	-	60 +1.0	110	-	-	-	-	-	
	180	10	10	120 +2.0	90	-	-	-	110	130	-	100 +1.0	250 +19.0	20 +1.0	-	-	102.0	+23.0	
Ill	100	-5	15	1.5 +5	60	-	-	-	110	260 +1.0	-	-	20	30 +1.0	-	-	64.0	+2.0	
Ind	415 -3.0	10	10	100 +2.0	140 +1.0	2.5 -2.5	80 +2.5	-	65 -1.0	75 +1.0	-	-	140 +6.0	61.0	52.0	-	224.0	+6.0	
Mich	490 -4.0	1	1	1	1	-	110	-	90 +3.0	320	-	50 -3.0	100 +4.0	10	-5.0	-	117.0	-5.0	
Ohio	140 -1.5	10	10	150 +6.0	110 +1.0	-	170 -2.0	140	20	80 +2.0	10 -1.0	30 -2.0	-	-	0.5 -1.3	-	87.5	+0.2	
Wisc	90 +2.0	20	0.5	70 -1.0	60	-	0.5	-	40 -1.0	270 +4.0	60 +1.0	0.5 -1.0	65 +2.0	60	-	-	74.0	+6.0	
Wis	120	10	20	50 +1.0	30	-	10 +1.0	-	40 +1.0	120 -3.4	10 -1.0	50 -1.0	-	-	-	-	50.0	-2.4	
Minn	78	20	23	90 -1.0	110	-	40 +1.0	30	-	-	-	-	60	30	-	-	47.0	-	
Mo.	100	0.5	0.5	50	60	-	30 +2.0	-	50	40	-	-	50 -1.0	30 +1.0	-	-	42.0	+2.0	
Nebr	40 -0.5	-	-	20	20	-	30 -3.0	-	50 +2.0	50	-	10 +1.0	-	-0.5	-	-	20.0	-1.0	
N.D.	130 +6.5	1	1	1	1	-	10	-	10 -1.0	50 -1.0	-	-	-0.5	-1.0	-	-	20.0	+3.0	
S.D.	20	0.5 +0.5	0.5 +0.5	20	10 -1.0	-	-	-	20	40	-	-	10	20 +2.0	-	-	15.0	+2.0	
<b>South Atlantic</b>																			
Del	39	0.1	0.1 -0.1	40 +1.0	0.9 -0.7	0.8 +0.4	0.3 -0.5	60	2.6 -0.1	2.2 -0.3	-0.1	0.8 +0.3	0.4 -0.1	-	-	-	22.1	-0.2	
D.C.	50 -2.0	30 +1.0	10	-	60 -1.0	50	40 -2.0	60 -5.0	20	20	-	70	20 -1.0	20 -1.0	-	-	46.0	-10.0	
Fla	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ga	25.5 -1.5	15	2.25 -1.25	5.25 -2.25	15.25 -0.75	2.25 -0.25	80 +4.0	-	-	-	0.5 +0.5	6.5 -0.6	-	40	-	-	71.0	-2.0	
Md	40.0 -4.0	10	10 -1.0	50 +1.0	28.0 +5.0	8.0 -2.0	200	14.0	210 +1.0	400 -2.0	-	70	20	10	-	-	188.0	-2.0	
N.C.	100	10	10	50	130	25	105 +2.0	210	70	125	4.5	10	70	20	-	-	96.0	+2.0	
S.C.	18.1 +1.1	4.0 +1.0	2.0 -2.0	3.5 -0.3	15.3 +1.2	10.2 +1.2	10.5 +1.0	-	6.8 +1.2	6.7 -1.9	-	8.1 +2.1	20	0.2	-	-	84.3	+3.5	
Va	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
W.Va	80	1	1	20 -1.0	20	1	50 +1.0	40	30 -1.0	-	-	-	40	10	-	-	30.0	-1.0	
<b>East South Central</b>																			
Ala	500	30	100	30	140 -1.0	30	50 +2.0	30	180 +1.0	-	-	10	20 +0.5	110 -2.0	-	-0.5	121.0	-	
Ky	60	10	10	20	120 +1.0	30	70 +4.0	10 +1.0	50 -1.0	80	30 -1.0	60 +1.0	30	-	-	-	68.0	+5.0	
Miss	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tenn	380 -1.0	10	20 +1.0	60 -4.0	120 +3.0	20 +1.0	-	-	100 -1.0	-	-	-	70 +7.0	10 -11.0	-	-	77.0	-5.0	
<b>West South Central</b>																			
Ark	100	20	10	65 -0.5	IV	70	VI	-	60	-	-	-	25 +0.5	30	-	-	38.0	-	
La	100 +1.0	10	10	10	120 +1.0	30	30 +2.0	-	140 +3.0	160 +5.0	-	-	-	-	-	-	68.0	+12.0	
Okla	94 +0.7	0.5	10 +0.2	30 +0.4	9.2 +0.3	0.8 +0.1	2.9 +0.9	-	65 +0.4	0.9 -0.2	-	-	2.5 +0.2	-	0.3 -0.5	-	37.0	+2.5	
Tex	250 -14.0	10 +1.0	70	90 -3.0	130 +1.0	20 +2.0	200 +6.0	-	60	370 +1.0	20 +2.0	-	90 -1.0	70 -4.0	-	-	138.0	-4.0	
<b>Mountain</b>																			
Ariz	40	30	30	20	40	-	-	-	50	110 +3.0	10 -1.0	-	40	60	-	-	42.0	+2.0	
Colo	50 -2.0	0.5	10	15	40 +1.0	60	-	-	40	230 +10.0	10 -1.0	40 +2.0	10 -1.0	-	-	-	50.0	+14.0	
Ida	90 -1.0	1	1	30	10	1.5 +1.5	-	-	70	95	-	95	-	-	-	-	41.0	-1.5	
Mont	30	0.5	0.5	2.5	10	-	-	-	35 +1.0	7.5 -1.9	0.5	-	-0.2	10 -2.0	-	-	20.0	-3.1	
Nebr	2.5	-	-	0.3	1.3	1.0	-	-	10	5.3	-	-	10	20	-	-	16.0	-	
N.M.	6.9	2.1 +2.1	-	3.0	1.3	1.0	0.9	10	0.8	11.5 +1.5	X	70 +2.0	10 -1.0	-	-	-	43.6	+4.5	
Utah	4.0	1.0	1.0	3.0	4.6	1.0	3.0 +3.0	-	20	150 +4.0	10	60 -3.0	60 +2.5	-1.0	-	-	45.0	+5.5	
Wyo	4.5	-	-	-	10	-	-	-	0.5	-	-	30	10	-	-	-	10.0	-	
<b>Pacific</b>																			
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cal	15.5	8.5 +2.5	30	340 +9.0	180 +4.5	-	200 +5.0	-	50	69.5 +4.0	52.0	10	28.9 +2.9	-	40 +2.0	-	259.4	+29.9	
Hawaii	13.5 +1.5	0.5	10	20	30	-	0.5	-	40 -1.5	11.6	-	-	1.5	-	-	-	37.5	-	
Ore	6.8 +0.8	10	10	40 -1.0	140 +4.0	-	70 +0.2	-	30 -1.0	40	-	-	4.0	-	-	-	40.8	+3.0	
Wash	80	10	10	20	10	-	30	-	20	100	-	-	70	-	-	-	35.0	-	
<b>Territories</b>																			
Guam	40 +1.0	-	10	-1.0	10	20 +1.0	10	-	-	-	-	-	-	-	-	-	9.0	+1.0	
P.R.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
V.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**SECTION III**  
**FINANCE**

Table 3-1  
LABORATORY EXPENDITURES BY CATEGORY

Lab & Region	Total Laboratory Expenditures	EXPENDITURE CATEGORY										
		Personnel			Supplies & Materials		Equipment		General Operating Exp.		Other	
		Salaries	Benefits	% of Total Exp.	Amount	% of Total Exp.	Amount	% of Total Exp.	Amount	% of Total Exp.	Amount	% of Total Exp.
<b>Total</b> .....	<b>115,632,338</b>	<b>72,008,384</b>	<b>12,160,821</b>	<b>72.8</b>	<b>12,812,035</b>	<b>11.1</b>	<b>6,175,232</b>	<b>5.3</b>	<b>9,426,519</b>	<b>8.2</b>	<b>3,049,347</b>	<b>2.6</b>
Average .....	2,312,647	1,440,168	243,216	—	256,241	—	123,505	—	188,530	—	60,987	—
<b>New England</b> .....	<b>12,191,173</b>	<b>7,728,052</b>	<b>1,115,829</b>	<b>72.5</b>	<b>1,235,144</b>	<b>10.1</b>	<b>626,476</b>	<b>5.2</b>	<b>1,325,306</b>	<b>10.9</b>	<b>160,366</b>	<b>1.3</b>
Conn. ....	3,824,258	2,594,649	615,451	83.9	367,084	9.6	135,820	3.6	103,234	2.7	8,021	0.2
Mass .....	4,069,498	2,513,616	71,292	63.5	437,863	10.8	14,739	0.4	1,005,435	24.7	26,553	0.6
Me. ....	1,139,386	562,099	72,405	55.7	112,345	9.9	241,733	21.2	86,402	7.6	64,402	5.6
N.H. ....	365,979	221,003	32,910	69.4	57,586	15.7	180	0.1	53,950	14.7	350	0.1
R.I. ....	2,307,674	1,467,252	293,450	76.3	197,956	8.6	220,515	9.6	67,461	2.9	61,040	2.6
Vt. ....	484,377	369,433	30,321	82.5	62,310	12.9	13,489	2.8	8,824 (A)	1.8	(A)	—
<b>Middle Atlantic</b> .....	<b>7,297,067</b>	<b>4,265,873</b>	<b>1,144,084</b>	<b>74.1</b>	<b>600,244</b>	<b>8.2</b>	<b>188,084</b>	<b>2.6</b>	<b>494,069</b>	<b>6.8</b>	<b>604,713</b>	<b>8.3</b>
N.J. ....	4,672,067	2,905,873	562,084	74.2	435,244	9.3	139,084	3.0	35,069	0.8	594,713 (B)	12.7
N.Y. ....	—	—	—	—	—	—	—	—	—	—	—	—
Pa. ....	2,625,000	1,360,000	582,000	73.9	165,000	6.3	49,000	1.9	459,000	17.5	10,000	0.4
<b>East North Central</b> .....	<b>22,456,804</b>	<b>14,033,301</b>	<b>2,582,032</b>	<b>74.0</b>	<b>2,135,160</b>	<b>9.5</b>	<b>1,079,978</b>	<b>4.8</b>	<b>2,430,968</b>	<b>10.8</b>	<b>195,365</b>	<b>0.9</b>
Ill. ....	2,965,835	1,966,274	279,042	75.4	326,201	11.0	237,544	8.0	146,487	4.9	20,287	0.7
Ind. ....	2,122,173	1,390,588	236,400	76.7	—	—	—	—	490,987	23.1	4,198	0.2
Mich. ....	9,927,490	6,202,881	1,445,182	77.0	638,731	6.4	251,526	2.6	1,324,268	13.3	64,902	0.7
Ohio .....	4,047,772	2,194,803	482,857	66.1	602,040	14.9	384,751	9.5	305,779	7.6	77,542	1.9
Wisc. ....	3,393,534	2,288,755	138,551	71.5	568,188	16.7	206,157	6.2	163,447	4.8	28,436	0.8
<b>West North Central</b> .....	<b>9,471,904</b>	<b>5,492,260</b>	<b>839,502</b>	<b>66.8</b>	<b>1,497,844</b>	<b>15.8</b>	<b>623,065</b>	<b>6.6</b>	<b>793,177</b>	<b>8.4</b>	<b>226,056</b>	<b>2.4</b>
Ia. ....	2,943,618	1,608,816	239,598	62.8	507,079	17.2	264,384	9.0	270,142	9.2	53,599	1.8
Kans. ....	1,561,380	969,809	152,391	71.8	138,623	8.9	10,718	0.7	271,544	17.4	18,295	1.2
Minn. ....	1,724,345	1,147,531	217,455	79.2	259,198	15.0	17,219	1.0	64,761	3.7	18,181	1.1
Mo. ....	1,571,083	864,267	107,312	61.8	321,983	20.5	150,171	9.6	85,656	5.5	41,694	2.6
Nebr. ....	533,622	282,492	33,799	59.3	88,339	16.6	53,890	10.1	61,577	11.5	13,525	2.5
N.D. ....	609,162	358,401	50,696	67.2	95,843	15.7	87,733	14.4	6,239	1.0	10,250	1.7
S.D. ....	528,694	260,944	38,251	56.6	86,779	16.4	38,950	7.4	33,258	6.3	70,512	13.3
<b>South Atlantic</b> .....	<b>18,612,465</b>	<b>12,668,652</b>	<b>1,565,927</b>	<b>76.5</b>	<b>2,652,573</b>	<b>14.2</b>	<b>589,830</b>	<b>3.2</b>	<b>856,125</b>	<b>4.6</b>	<b>279,358</b>	<b>1.5</b>
D.C. ....	549,696	395,569	87,025	87.8	41,270	7.5	5,426	1.0	12,301	2.2	8,105	1.5
Del. ....	1,044,700	800,700	78,000	84.1	120,400	11.5	45,600	4.4	—	—	—	—
Fla. ....	4,569,125	2,766,744	452,647	70.4	566,770	12.4	304,672	6.7	397,084	8.7	81,208	1.8
Ga. ....	2,705,192	1,744,885	396,077	79.1	364,065	13.5	72,945	2.7	34,860	1.3	92,360	3.4
Md. ....	4,384,323	3,369,595	—	76.9	723,510	16.5	31,105	0.7	254,670	5.8	5,443	0.1
N.C. ....	2,739,532	1,803,802	311,130	77.2	399,983	14.6	86,617	3.2	85,075	3.1	52,925	1.9
S.C. ....	1,825,112	1,228,969	193,947	78.0	327,072	17.9	6,663	0.4	39,509	2.1	28,952	1.6
Va. ....	—	—	—	—	—	—	—	—	—	—	—	—
W. Va. ....	794,785	558,388	47,101	76.2	109,503	13.8	36,802	4.6	32,626	4.1	10,365	1.3
<b>East South Central</b> .....	<b>8,693,634</b>	<b>5,674,314</b>	<b>735,800</b>	<b>73.7</b>	<b>1,206,924</b>	<b>13.9</b>	<b>316,051</b>	<b>3.6</b>	<b>535,947</b>	<b>6.2</b>	<b>224,598</b>	<b>2.6</b>
Ala. ....	3,456,353	2,482,587	224,009	78.3	589,634	17.1	83,323	2.4	64,800	1.9	12,000	0.3
Ky. ....	2,066,731	1,048,640	164,894	58.7	272,297	13.2	170,784	8.3	254,865	12.3	155,241	7.5
Miss. ....	902,897	557,940	99,753	72.8	156,957	17.4	4,694	0.5	79,477	8.8	4,076	0.5
Tenn. ....	2,267,653	1,585,147	247,144	80.8	188,036	8.3	57,240	2.5	138,805	6.0	53,281	2.4
<b>West South Central</b> .....	<b>9,252,973</b>	<b>5,283,234</b>	<b>977,268</b>	<b>67.4</b>	<b>951,692</b>	<b>10.3</b>	<b>720,313</b>	<b>7.8</b>	<b>1,292,037</b>	<b>14.0</b>	<b>48,429</b>	<b>0.5</b>
Ark. ....	1,085,231	598,187	118,518	66.0	123,626	11.4	7,891	0.7	236,159	21.8	850	0.1
La. ....	2,273,135	1,615,720	164,140	78.3	180,705	7.9	144,268	6.3	155,378	6.8	12,924	0.7
Okla. ....	964,107	646,827	143,110	81.9	105,361	10.9	21,654	2.3	32,500	3.4	14,655	1.5
Tex. ....	4,930,500	2,402,500	551,500	59.9	542,000	11.0	546,500	11.1	868,000	17.6	20,000	0.4
<b>Mountain</b> .....	<b>9,306,448</b>	<b>5,925,566</b>	<b>857,079</b>	<b>72.9</b>	<b>1,043,701</b>	<b>11.2</b>	<b>622,658</b>	<b>6.7</b>	<b>730,235</b>	<b>7.8</b>	<b>127,209</b>	<b>1.4</b>
Ariz. ....	1,499,592	905,343	180,432	72.4	142,198	9.5	49,161	3.3	196,644	13.1	25,814	1.7
Colo. ....	1,537,209	1,165,498	152,809	85.8	196,852	12.8	10,150	0.6	—	—	11,900	0.8
Ida. ....	1,351,495	965,199	—	71.4	314,813	23.3	71,483	5.3	—	—	—	—
Mont. ....	514,230	342,482	55,783	77.4	49,174	9.6	22,677	4.4	17,964	3.5	26,150	5.1
Nev. ....	828,403	473,178	74,755	66.1	52,841	6.4	168,026	20.3	43,080	5.2	16,523	2.0
N.M. ....	1,684,177	938,506	135,009	63.7	144,162	8.6	87,434	5.2	353,174	21.0	25,892	1.5
Utah .....	1,619,369	952,229	230,962	73.1	124,707	7.7	198,346	12.3	102,663	6.3	10,462	0.6
Wyo. ....	271,973	183,131	27,329	77.4	18,954	7.0	15,381	5.7	16,710	6.1	10,468	3.8
<b>Pacific</b> .....	<b>17,253,870</b>	<b>10,115,084</b>	<b>2,288,647</b>	<b>71.9</b>	<b>1,376,886</b>	<b>8.0</b>	<b>1,349,477</b>	<b>7.8</b>	<b>957,799</b>	<b>5.5</b>	<b>1,165,977</b>	<b>6.8</b>
Alaska .....	—	—	—	—	—	—	—	—	—	—	—	—
Cal. ....	12,884,665	7,271,876	1,765,946	70.1	1,089,553	8.5	1,211,247	9.4	440,380	3.4	1,105,663	8.6
Hawaii .....	987,941	700,155	142,031	85.2	67,617	6.8	67,443	6.8	8,595	1.0	2,100	0.2
Ore. ....	1,531,804	814,017	154,734	63.2	139,716	9.1	70,237	4.7	343,470	22.4	9,630	0.6
Wash. ....	1,849,460	1,329,036	225,936	84.0	80,000	4.3	550	0.1	165,354	9.0	48,584	2.6
<b>Territories</b> .....	<b>1,096,000</b>	<b>842,048</b>	<b>54,653</b>	<b>81.8</b>	<b>111,867</b>	<b>10.2</b>	<b>59,300</b>	<b>5.4</b>	<b>10,856</b>	<b>1.0</b>	<b>17,276</b>	<b>1.6</b>
Guam .....	187,545	147,212	17,420	87.8	18,538	9.9	3,900	2.0	475	0.3	—	—
P.R. ....	908,455	694,836	37,233	80.6	93,329	10.3	55,400	6.1	10,381	1.1	17,276	1.9
V.I. ....	—	—	—	—	—	—	—	—	—	—	—	—

(A) "Other" included with "General Operating Expenditures" (B) Includes Indirect Cost

**Table 3-2  
SOURCES OF LABORATORY FUNDS**

Lab & Region	Total Laboratory Budget	State Funds		Federal Funds		Earned Funds		Other Funds	
		Amount	% of Total Exp.	Amount	% of Total Exp.	Amount	% of Total Exp.	Amount	% of Total Exp.
<b>Total</b> .....	<b>114,723,883</b>	<b>81,100,176</b>	<b>70.7</b>	<b>25,569,648</b>	<b>22.3</b>	<b>6,266,550</b>	<b>5.5</b>	<b>1,787,509</b>	<b>1.5</b>
Average .....	2,341,304	1,655,106	—	521,830	—	127,889	—	36,480	—
<b>New England</b> .....	<b>12,191,173</b>	<b>9,825,976</b>	<b>80.6</b>	<b>1,604,071</b>	<b>13.2</b>	<b>725,867</b>	<b>5.9</b>	<b>35,259</b>	<b>0.3</b>
Conn. ....	3,824,259	3,605,879	94.3	218,380	5.7	—	—	—	—
Mass. ....	4,069,498	3,645,705	89.6	423,793	10.4	—	—	—	—
Me. ....	1,139,386	227,086	19.9	151,174	13.3	725,867	63.7	35,259	3.1
N.H. ....	365,979	270,179	73.8	95,800	26.2	—	—	—	—
R.I. ....	2,307,674	1,781,359	77.2	526,315	22.8	—	—	—	—
Vt. ....	484,377	295,768	61.1	188,609	38.9	—	—	—	—
<b>Middle Atlantic</b> .....	<b>7,297,067</b>	<b>5,815,722</b>	<b>79.7</b>	<b>1,095,521</b>	<b>15.0</b>	<b>385,824</b>	<b>5.3</b>	—	—
N.J. ....	4,672,067	3,615,722	77.4	670,521	14.3	385,824	8.3	—	—
N.Y. ....	—	—	—	—	—	—	—	—	—
Pa. ....	2,625,000	2,200,000	83.8	425,000	16.2	—	—	—	—
<b>East North Central</b> .....	<b>22,456,804</b>	<b>13,208,241</b>	<b>58.8</b>	<b>6,292,698</b>	<b>28.0</b>	<b>2,248,998</b>	<b>10.0</b>	<b>706,867</b>	<b>3.2</b>
Ill. ....	2,965,835	374,622	12.6	2,591,213	87.4	—	—	—	—
Ind. ....	2,122,173	1,861,547	87.7	260,626	12.3	—	—	—	—
Mich. ....	9,927,490	8,504,444	85.7	1,275,335	12.8	—	—	147,711	1.5
Ohio ....	4,047,772	670,644	16.6	1,996,588	49.3	821,384	20.3	559,156	13.8
Wisc. ....	3,393,534	1,796,984	52.9	168,936	5.0	1,427,614	42.1	—	—
<b>West North Central</b> .....	<b>9,471,904</b>	<b>5,121,847</b>	<b>54.1</b>	<b>2,887,553</b>	<b>30.5</b>	<b>596,677</b>	<b>6.3</b>	<b>865,827</b>	<b>9.1</b>
Ia. ....	2,943,618	1,471,351	50.0	144,594	4.9	520,000	17.7	807,673	27.4
Kans. ....	1,561,380	1,285,104	82.3	276,276	17.7	—	—	—	—
Minn. ....	1,724,345	1,251,531	72.6	472,814	27.4	—	—	—	—
Mo. ....	1,571,083	383,588	24.4	1,129,341	71.9	—	—	58,154	3.7
Nebr. ....	533,622	195,290	36.6	307,271	57.6	31,061	5.8	—	—
N.D. ....	609,162	258,068	42.4	346,970	57.0	4,124	0.6	—	—
S.D. ....	528,694	276,915	52.4	210,287	39.8	41,492	7.8	—	—
<b>South Atlantic</b> .....	<b>18,612,465</b>	<b>14,058,871</b>	<b>75.5</b>	<b>3,728,181</b>	<b>20.0</b>	<b>645,857</b>	<b>3.5</b>	<b>179,556</b>	<b>1.0</b>
Del. ....	549,696	348,398	63.4	201,298	36.6	—	—	—	—
D.C. ....	1,044,700	827,800	79.2	216,900	20.8	—	—	—	—
Fla. ....	4,569,125	2,949,795	64.6	1,428,924	31.3	10,850	0.2	179,556	3.9
Ga. ....	2,705,192	2,361,517	87.3	343,675	12.7	—	—	—	—
Md. ....	4,384,323	4,066,872	92.8	317,451	7.2	—	—	—	—
N.C. ....	2,739,532	1,854,371	67.7	600,433	21.9	284,728	10.4	—	—
S.C. ....	1,825,112	1,263,751	69.2	211,082	11.6	350,279	19.2	—	—
Va. ....	—	—	—	—	—	—	—	—	—
W. Va. ....	794,785	386,367	48.6	408,418	51.4	—	—	—	—
<b>East South Central</b> .....	<b>8,693,634</b>	<b>6,191,314</b>	<b>71.2</b>	<b>2,053,916</b>	<b>23.6</b>	<b>448,404</b>	<b>5.2</b>	—	—
Ala. ....	3,456,353	2,412,103	69.8	1,044,250	30.2	—	—	—	—
Ky. ....	2,066,731	1,438,200	69.6	430,582	20.8	197,949	9.6	—	—
Miss. ....	902,897	223,078	24.7	516,777	57.2	163,042	18.1	—	—
Tenn. ....	2,267,653	2,117,933	93.4	62,307	2.8	87,413	3.8	—	—
<b>West South Central</b> .....	<b>9,252,973</b>	<b>7,323,563</b>	<b>79.1</b>	<b>1,913,982</b>	<b>20.7</b>	<b>15,428</b>	<b>0.2</b>	—	—
Ark. ....	1,085,231	706,145	65.1	363,658	33.5	15,428	1.4	—	—
La. ....	2,273,135	2,146,459	94.4	126,676	5.6	—	—	—	—
Okla. ....	964,107	679,959	70.5	284,148	29.5	—	—	—	—
Tex. ....	4,930,500	3,791,000	76.9	1,139,500	23.1	—	—	—	—
<b>Mountain</b> .....	<b>9,306,448</b>	<b>5,854,343</b>	<b>62.9</b>	<b>3,127,270</b>	<b>33.6</b>	<b>324,835</b>	<b>3.5</b>	—	—
Ariz. ....	1,499,592	739,049	49.3	760,543	50.7	—	—	—	—
Colo. ....	1,537,209	778,196	50.6	700,013	45.6	59,000	3.8	—	—
Ida. ....	1,351,495	819,692	60.7	374,803	27.7	157,000	11.6	—	—
Mont. ....	514,230	175,143	34.0	266,680	51.9	72,407	14.1	—	—
Nev. ....	828,403	630,523	76.1	193,880	23.4	4,000	0.5	—	—
N.M. ....	1,684,177	1,375,577	81.7	308,600	18.3	—	—	—	—
Utah ....	1,619,369	1,177,313	72.7	409,628	25.3	32,428	2.0	—	—
Wyo. ....	271,973	158,850	58.4	113,123	41.6	—	—	—	—
<b>Pacific</b> .....	<b>17,253,870</b>	<b>13,555,773</b>	<b>78.6</b>	<b>2,823,437</b>	<b>16.3</b>	<b>874,660</b>	<b>5.1</b>	—	—
Alaska ....	—	—	—	—	—	—	—	—	—
Cal. ....	12,884,665	10,428,981	80.9	1,967,899	15.3	487,785	3.8	—	—
Hawaii ....	987,941	766,556	77.6	221,385	22.4	—	—	—	—
Ore. ....	1,531,804	904,929	59.1	371,225	24.2	255,650	16.7	—	—
Wash. ....	1,849,460	1,455,307	78.7	262,928	14.2	131,225	7.1	—	—
<b>Territories</b> .....	<b>187,545</b>	<b>144,526</b>	<b>77.1</b>	<b>43,019</b>	<b>22.9</b>	—	—	—	—
Guam ....	187,545	144,526	77.1	43,019	22.9	—	—	—	—
P.R. ....	—	—	—	—	—	—	—	—	—
V.I. ....	—	—	—	—	—	—	—	—	—

Table 3-3  
SUMMARY OF TOTAL LABORATORY EXPENDITURE BY WORKLOAD CATEGORY AND PERCENTAGE OF CATEGORY TO TOTAL EXPENDITURE

Lab & Region	Total Lab Expenditure	I Diagnostic Bacteriology		II Mycology		III Parasitology		IV Virology		V Immunology		VI Hematology		VII Clinical Chemistry		VIII Pathology		IX Environmental Microbiology		X Environmental Chemistry		XI Occupational Health/Safety		XII Toxicology		XIII Lab Improvement Program		XIV Biol., Reagent Media Prod.		XV Research & Development		XVI Administrative Support & Other				
		\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%					
<b>New England</b>																																				
Conn.	3,824,259	380,000	9.9	17,000	0.5	69,000	1.8	69,000	1.8	265,000	6.9	47,000	1.2	265,000	6.9	16,000	0.4	132,000	3.5	578,000	15.1	33,000	0.9	486,000	12.7	224,000	5.9	85,000	2.2			1,158,259	30.3			
Mass.	4,069,498																																			
Me.	1,139,386	268,864	23.6	4,436	0.4	2,115	0.2	37,176	3.3	121,482	10.7			53,918	4.7			78,076	6.8	204,131	17.9	226,910	19.9			30,569	2.7			33,918	3.0	77,791	6.8			
N.H.	365,979	242,995#	66.4											19,378	5.3									3,910	1.1							99,696	27.2			
R.I.	2,307,674	271,473#	11.8							169,355	7.3			141,356	6.1			273,305	11.9	487,267	21.1	50,915	2.2	430,500	18.7	41,693	1.8					441,810	19.1			
Vt.	484,377	71,900	14.8	9,300	1.9	16,600	3.4	38,000	7.9	50,200	10.4							40,100	8.3	56,400	11.6			46,600	9.6	1,777	0.4	37,000	7.6			116,500	24.1			
<b>Middle Atlantic</b>																																				
N.J.	4,672,067	746,232	16.0					543,441	11.6			239,872	5.1	1,128,412	24.2											530,107	11.3			12,420	0.3	1,471,583	31.5			
N.Y.																																				
Pa.	2,625,000	505,200#	19.3					399,950#	15.2	IV		365,200#	13.9	VI										140,000	5.3	475,100	18.1					739,550	28.2			
<b>East North Central</b>																																				
Ill.	2,965,835	460,000	15.5	29,000	1.0	31,000	1.0	269,000	9.1	200,000	6.7									245,000	8.3	260,000	8.8			406,000	13.7	420,000	14.2	200,335	6.7			445,500	15.0	
Ind.	2,122,173																																			
Mich.	9,927,490	2,684,391#	27.0																																	
Ohio	4,047,772	1,254,896#	31.0											178,154	4.4			928,011#	22.9	IX		IX		440,186	10.9	288,027	2.9	2,389,400	24.1	1,115,278	11.2	3,450,394	34.8			
Wis.	3,393,534	302,029	8.9	62,741	1.8			365,063	10.8	325,332	9.6			436,708	12.9			407,980	12.0	166,756	4.9			156,264	4.6							107,899	2.7	1,069,450	31.5	
<b>West North Central</b>																																				
Ia.	2,943,618	188,387	6.4	46,240	1.6	15,962	0.5	174,750	5.9	119,917	4.1			12,036	0.4					82,586	2.8	843,171	28.6	178,793	6.1	14,658	0.5	210,190	7.1	125,215	4.3			931,713	31.7	
Kans.																																				
Minn.	1,724,345	303,048	17.7	41,968	2.4	45,205	2.6	337,668	19.6	450,617	26.1			84,935	4.9	86,308	5.0																			
Mo.	1,571,083	409,110	26.0	24,352	1.6	19,481	1.2	265,827	16.9	235,662	15.0	16,968	1.1	41,948	2.7			188,530	12.0	144,540	9.2					4,713#	0.3	XI		219,741	12.7	44,450	2.6	110,315	6.4	
Nebr.	533,622	131,440	24.6							49,723	9.3			13,766	2.6			110,536	20.7	106,504	20.0															
N.D.	609,162	157,773#	25.9											51,778	8.5			45,078	7.4	177,877	29.2			121,653	22.8					17,056	2.8	20,102	3.3	139,499	22.9	
S.D.	528,694	129,316#	24.5															124,849#	23.6	IX										86,987	16.5	XVI		187,542#	35.4	
<b>South Atlantic</b>																																				
Del.	549,696	56,666	10.3	944	0.2	998	0.2	82,368	15.0	17,281	3.1	10,897	2.0	4,888	0.9	111,969	20.4	38,641	7.0	39,956	7.3	396	0.1	14,025	2.5	5,666	1.0					165,001	30.0			
D.C.	1,044,700	169,152	16.2	63,812	6.1	14,074	1.3			124,733	11.9	128,562	12.3	73,816	7.1	109,604	10.5	38,139	3.7	1,913	0.2			142,018	13.6	42,133	4.0	27,911	2.7			108,833	10.4			
Fla.	4,569,125																																			
Ga.	2,705,192	839,997	31.0	55,500	2.1	95,649	3.5	192,094	7.1	498,191	18.4	80,649	3.0	195,500	7.2							21,676	0.8	181,552	6.7					144,893	5.4	10,716	0.4	388,775	14.4	
Md.	4,384,323	974,854	22.2	9,996	0.2	19,027	0.4	129,249	3.0	742,879	16.9	231,273	5.3	463,554	10.6	324,051	7.4	368,283	8.4	887,430	20.2	91,237	2.1	21,790	0.5	120,700	2.8									
N.C.	2,739,532	424,944#	15.5							655,453	23.9			339,293	12.4	418,550	15.3																			
S.C.	1,825,112	280,037	15.3	49,221	2.7	58,437	3.2	89,016	4.9	270,532	14.8	76,517	4.2	137,123	7.5			98,517	5.4	64,969	3.6			127,862	7.0	31,434	1.7			4,800	0.3			536,647	29.4	
Va.																																				
W. Va.	794,785	123,166#	15.5			38,430	4.8	52,837	6.6	54,843	6.9			96,997	12.2			66,545	8.4	66,511	8.4															
<b>East South Central</b>																																				
Ala.																																				
Ky.	2,066,731	189,000	9.2	27,020	1.3	27,020	1.3	54,041	2.6	378,000	18.3	81,061	3.9	216,076	10.5	243,808	11.8	162,122	7.8	243,183	11.8	81,061	3.9	189,000	9.1	118,410	5.7					56,929	2.8			
Tenn.	902,897	253,690#	28.1			144,474#	16.0							110,879	12.3			194,144	21.5	44,503	4.9													155,207	17.2	
Miss.	2,267,653	446,530	19.7	21,564	0.9	33,862	1.5	107,393	4.7	190,123	8.4	38,695	1.7					171,770	7.6							178,265	7.9	118,852	5.2			960,599	42.4			
<b>West South Central</b>																																				
Ark.	1,085,231	513,110#	47.3									168,087#	15.5	VI																						
La.																																				
Okl.	964,107	174,503	18.1	9,641	1.0	18,318	1.9	55,918	5.8	170,647	17.7	14,462	1.5	53,990	5.6			120,513	12.5	16,390	1.7					46,277	4.8			5,785	0.6	277,				

**Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs		
Ala.....	<b>Federal</b>	<b>Medicaid — Sickle Cell</b> (Electrophoretic separation of filter paper blood specimens for the detection of abnormal hemoglobins)	Micro. IV	.15	Pers.	33,062
			Micro. III	.25	Supp.	1,703
			Micro. II	.35	Equip.	2,658
			Micro. I	.55	Other	929
					<b>Total</b>	<b>38,352</b>
		<b>Medicaid — Intestinal Parasites</b> (Microscopic examinations of formalized specimens for the detection of Helminth and protozoa)	Micro. III	.30	Pers.	16,041
			Micro. I	.20	Supp.	1,198
			Lab. Tech. II	.40	Equip.	1,312
			Clerk Steno III	.15	Other	642
			Clerk Typist II	.10	<b>Total</b>	<b>19,193</b>
		<b>Medicaid — Pinworm</b> (Microscopic examination of taped slide preparation for the detection of pinworms.)	Micro. II	.12	Pers.	6,784
			Lab. Tech. II	.25	Supp.	481
			Clerk Typist II	.10	Equip.	583
			Lab. Tech. I	.05	Other	516
				<b>Total</b>	<b>8,364</b>	
		<b>Medicaid — Lead</b> (Epp. & Blood lead determination Pelves Cup)	Micro. IV	.10	Pers.	15,659
Micro. III	.20		Supp.	910		
Micro. I	.60		Equip.	36,000		
Clerk Typist II	.25		Other	220		
		<b>Total</b>	<b>52,789</b>			
Ariz.....	<b>Federal</b>	<b>HIB (Medicare)</b> (Laboratory certification)	Lab. Cons. Surveyor	1.0	Pers.	32,071
			Typist II	1.0	Supp.	1,949
					Equip.	851
					Other	13,158
				<b>Total</b>	<b>48,029</b>	
		<b>EPA (Safe Drinking Water)</b> (Environmental laboratory certification)	Lab. Cons. Surveyor	1.0	Pers.	26,972
			Typist II	1.0	Supp.	3,441
				Other	1,099	
				<b>Total</b>	<b>31,512</b>	
		<b>EPA (Air Pollution)</b> (Laboratory analysis of samples)	Chemist III	1.0	Pers.	23,771
			<b>Total</b>	<b>23,771</b>		
<b>EPA (Water Pollution)</b> (Laboratory analysis of samples)	Chemist III	1.0	Pers.	23,346		
			<b>Total</b>	<b>23,346</b>		
<b>State</b>	<b>Arizona Dairy Commission</b> (Laboratory analysis of dairy products)	Chemist II	2.0	Pers.	94,819	
		Lab. Tech. II	5.0	Supp.	43,379	
		Typist II	1.0	Equip.	33,056	
				Other	4,463	
			<b>Total</b>	<b>175,717</b>		
	<b>Arizona Industrial Commission</b> (Laboratory analysis of industrial hygiene samples)	Chemist III	1.0	Pers.	28,842	
		Lab. Tech. I	1.0	Supp.	526	
				Other	1,464	
			<b>Total</b>	<b>30,832</b>		
	Ark.....	<b>Federal</b>	<b>Development Grant (314d)</b> (General Services)	—	23.0	Pers.
					Supp.	29,794
					Equip.	504
					Other	75,040
				<b>Total</b>	<b>373,658</b>	
<b>Safe Drinking Water Act</b> (Bacteriological Analysis)	—	2.0	Pers.	41,111		
			Supp.	11,599		
			Other	13,705		
		<b>Total</b>	<b>66,415</b>			

**Table 3-4**  
**GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS**  
**WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs	
Cal.....	<b>Federal</b>				
	<b>Federal Environmental Protection Agency</b> (Calibration of particulate mass monitors)	Res. Spec. III Res. Spec. I Adm. Asst.	.25 .20 .10	Pers. Supp. Equip. Other	17,896 2,000 1,200 8,859
				<b>Total</b>	<b>29,955</b>
	<b>Federal Environmental Protection Agency</b> (Improvement & evaluation of methods for sulfate analysis)	Res. Spec. III Res. Chem. Chem. II Chem. III Std. Asst.	.15 .25 .70 .15 .60	Pers. Supp. Other	48,596 2,196 18,532
				<b>Total</b>	<b>69,324</b>
	<b>Federal Environmental Protection Agency</b> (Improve design and validate sampler for inhaled particles)	Res. Spec. III Res. Spec. I Chem. II	0.5 0.5 0.15	Pers. Supp. Equip. Other	42,479 4,000 4,776 38,526
			1.0	<b>Total</b>	<b>89,781</b>
	<b>BMSRG</b> (Identify carcinogens by cell transformation tech.)	Chem. II	1.0	Pers. Other	23,724 800
				<b>Total</b>	<b>24,524</b>
	<b>Federal Environmental Protection Agency</b> (Conference on methods in air pollution studies)	Off. Asst.	0.5	Pers. Other	6,000 11,200
				<b>Total</b>	<b>17,200</b>
	<b>DHEW Extramural Programs, National Institute of Allergy and Infectious Diseases (NIAID)</b> (Studies on the pathogenesis of naegleria infections)	Research Spec. II P.H. Micro. I	1.0 0.6	Pers. Supp. Other	49,059 3,879 2,075
				<b>Total</b>	<b>55,013</b>
	<b>DHEW Extramural Programs, National Institute of Allergy and Infectious Diseases (NIAID)</b> (Electron microscopic studies of selected viral agents.)	Laboratory Asst.	1.0	Pers. Supp. Equip. Other	13,689 5,864 553 215
				<b>Total</b>	<b>20,321</b>
<b>DHEW Extramural Programs, National Institute of Allergy and Infectious Diseases (NIAID)</b> (Immunology and epidemiology of certain viral diseases)	Research Spec. P.H. Micro. I Lab. Asst./An. Tech. Postdoc. Fellow	1.0 3.8 4.0 1.0	Pers. Supp. Other	190,133 17,000 16,210	
			<b>Total</b>	<b>223,343</b>	
<b>US Army Medical Research and Development Command</b> (Development of psoralen photoinactivated alphavirus and arenavirus vaccines.)	Research Spec. II P.H. Micro. I Lab. Asst.	1.0 0.5 0.8	Pers. Supp. Other	58,883 5,675 15,443	
			<b>Total</b>	<b>80,001</b>	
<b>National Institutes of Health Procurement Branch/National Cancer Institute (NCI)</b> (NCI collaborative studies (cancer virus studies))	P.H. Micro. I Animal Tech.	1.6 3.0	Pers. Supp. Other	89,461 9,888 26,149	
			<b>Total</b>	<b>125,498</b>	
<b>National Science Foundation — Division of Cell Biology</b> (Cytogenetic and immunological studies on virus-induced cell transformation in marsupial cell cultures.)	P.H. Micro. I	0.6	Pers. Supp. Other	12,073 3,897 4,030	
			<b>Total</b>	<b>20,000</b>	
<b>Health Effects Research Laboratory — EPA</b> (Studies on viruses in water and reclaimed waste-water.)	P.H. Micro. I Lab. Asst.	2.0 1.0	Pers. Supp. Other	60,720 6,000 25,444	
			<b>Total</b>	<b>92,164</b>	



**Table 3-4**  
**GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS**  
**WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs		
Cal. (Cont.)	<b>Environmental Protection Agency — Water Virology Laboratory Unit.</b> (Develop and evaluate procedures for virus concentration and removal from water. Develop laboratory techniques for virus assay of water samples, evaluation of waste-water treatment systems, and health significance of viruses in water environment. Services are part of the support for Sanitary Engineering Section.)	Res. Spec. IV	1.0	Pers.	73,560	
		P.H. Micro. II	1.0	Supp.	5,000	
				Equip.	25,000	
				Other	27,227	
				<b>Total</b>	<b>130,787</b>	
Col.....	<b>State</b> (State Department of Highways — Alcohol test laboratory)	—	2.0	Pers.	53,054	
				Supp.	5,692	
				Equip.	5,000	
				Other	7,200	
				<b>Total</b>	<b>70,946</b>	
Conn.....	<b>Federal</b> <b>Medicare</b> (Laboratory improvement)	Sr. Clerk	1.0	Pers.	76,632	
		Supv. Med. Examiner	0.8	<b>Total</b>	<b>76,632</b>	
		Med. Examiners	1.6			
		Asst. Biochemist	1.0			
		Asst. Director	0.3			
		<b>314D Block Grant</b> (Toxicology reports)	Clerk-Typist	1.0	Pers.	8,204
					<b>Total</b>	<b>8,204</b>
		(Lab. equip. maintainer)	Asst. Main. Foreman	1.0	Pers.	13,610
					<b>Total</b>	<b>13,610</b>
		(Parasitology)	Sr. Micro.	1.0	Pers.	16,525
					<b>Total</b>	<b>16,525</b>
		(Pub. Health Micro.)	Micro.	1.0	Pers.	11,040
					<b>Total</b>	<b>11,040</b>
		(Radiological monitoring)	Sr. Env. Chem.	1.0	Pers.	16,525
					<b>Total</b>	<b>16,525</b>
		(Potable water)	Chemist	1.0	Pers.	10,213
					<b>Total</b>	<b>10,213</b>
		(Genetic disease screening)	Med. Tech. I	1.0	Pers.	11,765
					<b>Total</b>	<b>11,765</b>
		(Diagnostic virology)	Micro.	0.8	Pers.	8,654
			<b>Total</b>	<b>8,654</b>		
<b>Maternal and Child Hygiene</b> (Streptococcus cultures)	Lab. Helper	1.0	Pers.	8,263		
			<b>Total</b>	<b>8,263</b>		
(Genetic disease screening)	Lab. Helper	0.4	Pers.	3,384		
			<b>Total</b>	<b>3,384</b>		
(Lead screening)	Biochem.	1.0	Pers.	12,790		
			<b>Total</b>	<b>12,790</b>		
(PKU)	Med. Tech. I	0.4	Pers.	5,166		
			<b>Total</b>	<b>5,166</b>		
(V.D. Control)	Sr. Micro.	1.0	Pers.	15,609		
			<b>Total</b>	<b>15,609</b>		
D.C. ....	<b>Federal</b> <b>Lead Poisoning Prevention</b> (Chemistry assays on human specimens)	Chemist	2.0	Pers.	67,860	
		Technician	2.0	Supp.	5,000	
				<b>Total</b>	<b>72,860</b>	
	<b>MIC/C + Y</b> (Various clinical tests on various specimens)	Chemist	1.0	Pers.	80,281	
		Technician	5.0	<b>Total</b>	<b>80,281</b>	

**Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs	
D.C. (Cont.)	GC Testing Program (Microbiological testing of male/female specimens)	Technician	2.0	Pers.	32,810
		Clerk	0.5	Supp.	32,000
				<b>Total</b>	<b>64,810</b>
Ga. ....	<b>Federal</b>  <b>Sexually Transmitted Disease Unit</b> (GC culture program)  <b>Division of Mental Health</b> (Urine testing for abuse drugs)  <b>Adult Health Unit</b> (Hypertension Screening Program)	Lab. Manager	1.0	Pers.	103,635
		Sr. Lab. Sci.	1.0	Supp.	39,500
		Sr. Lab. Tech.	3.0	<b>Total</b>	<b>143,135</b>
		Clerical	2.0		
		Lab. Manager	1.0	Pers.	125,012
		Lab. Associate	1.0	Supp.	38,000
		Prin. Lab. Tech.	2.0	Other	18,540
		Sr. Lab. Tech.	2.0	<b>Total</b>	<b>181,552</b>
		Clerical	1.0		
		Lab. Scientist	1.0	Pers.	14,488
				Supp.	4,500
				<b>Total</b>	<b>18,988</b>
Ida. ....	<b>State</b>  <b>Traffic Safety Commission</b> (Analysis — blood/breath for alcohol & drugs (DWI))  <b>Department of Law Enforcement</b> (Handling reports associated with alcohol testing)  <b>Law Enforcement Planning Commission</b> (Support of satellite forensic lab services in two branch laboratories)  <b>Federal</b> <b>Environmental Protection Agency</b> (Establish and maintain certification program for water testing laboratories)  <b>Environmental Protection Agency</b> (Studies of human effects due to pesticides and related products)  <b>CDC — USPHS — Laboratory Improvement (2 grants)</b> (To provide training, consultation & proficiency testing to physician office & other small laboratories)	Criminalists (Chemists)	1.65	Pers.	40,372
		Secretaries	0.6	Supp.	18,154
				Equip.	25,785
				<b>Total</b>	<b>84,311</b>
		Secretaries	1.5	<b>Total</b>	<b>28,000</b>
		Criminalists	0.5	Pers.	7,886
				Supp.	8,500
				Equip.	1,134
				<b>Total</b>	<b>17,520</b>
		Microbiologist	0.25	Pers.	15,377
		Chemist	0.25	Supp.	1,669
		Secretary	0.5	<b>Total</b>	<b>17,046</b>
Coordinator	1.0	Pers.	151,897		
Chemist	5.0	Supp.	39,240		
Support	1.0	Equip.	290		
Secretary	1.0	<b>Total</b>	<b>191,427</b>		
Lab surveyor	2.0	Pers.	62,066		
Lab. Tech.	1.0	Supp.	42,129		
Sec. & Support	3.0	<b>Total</b>	<b>104,195</b>		
Ill. ....	<b>Federal</b> (Laboratory Training Workshop (CDC))	Micro. III	1.0	Pers.	29,500
		Micro. I	1.0	Supp.	4,500
				Equip.	1,200
				Other	7,000
				<b>Total</b>	<b>42,200</b>
Ia. ....	<b>Federal</b>  <b>Center for Disease Control</b> (Continuing education contracts (2) to provide a continuing education program via a mobile library and through loaner training packets throughout Iowa)  (Proficiency testing contracts (2) to continue and expand existing proficiency testing programs)	—	2.3	Pers.	41,639
				Supp.	5,833
				Equip.	592
				Other	26,449
				<b>Total</b>	<b>74,513</b>
	1.0	Pers.	16,851		
		Supp.	18,528		
		Other	9,920		
		<b>Total</b>	<b>45,299</b>		

**Table 3-4**  
**GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS**  
**WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)—Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs	
Ia. (Cont.)	<b>Medicare</b> (Surveys of hospital laboratories to insure compliance w/Medicare standards)	—	1.6	Pers.	45,041
				Supp.	170
				Other	16,137
				<b>Total</b>	<b>61,348</b>
	<b>NIOSH</b> (Analytical services as part of a subcontract for a coal liquefaction study)	—	1.4	Pers.	22,928
				Supp.	17,936
				Equip.	12,227
				Other	8,008
				<b>Total</b>	<b>61,099</b>
	<b>FDA</b> (To provide field testing of diagnostic x-ray system for standards compliance)	—	0.2	Pers.	4,591
				Supp.	44
				Other	3,547
				<b>Total</b>	<b>8,182</b>
<b>EPA</b> (Water Quality/Bladder Cancer Study—Providing field sampling of water supplies and related data)	—	0.8	Pers.	11,187	
			Supp.	891	
			Other	4,522	
			<b>Total</b>	<b>16,600</b>	
<b>State</b>					
<b>DEQ</b> (Providing laboratory services for water quality surveillance)	—	7.2	Pers.	104,390	
			Supp.	57,312	
			Equip.	83,602	
			Other	43,142	
			<b>Total</b>	<b>288,446</b>	
<b>DEQ</b> (Providing laboratory services for air quality surveillance)	—	3.0	Pers.	60,634	
			Supp.	18,496	
			Equip.	107,835	
			Other	33,798	
			<b>Total</b>	<b>220,763</b>	
<b>Rubella Screening</b> (Screening of prenatal sera for rubella-susceptible mothers)	—	1.8	Pers.	27,828	
			Supp.	8,885	
			Other	804	
			<b>Total</b>	<b>37,517</b>	
<b>Gonorrhea Culture Program</b> (Providing culture services to physicians to detect asymptomatic patients)	—	1.0	Pers.	13,279	
			Supp.	7,705	
			Other	15,727	
			<b>Total</b>	<b>36,711</b>	
<b>Industrial Hygiene</b> (Providing laboratory services for Iowa Bureau of Labor)	—	3.5	Pers.	68,718	
			Supp.	9,298	
			Equip.	5,089	
			Other	18,684	
			<b>Total</b>	<b>101,789</b>	
<b>Kans. .... Federal</b>					
<b>Venereal Disease Control Project</b> (Gonorrhea culture screening of OB/GYN patients in private & public clinics for gonorrhea detection & control)	Micro. I Lab. Tech. Clerical	1.0 0.5 0.2	Supp.	7,000	
			<b>Total</b>	<b>7,000</b>	
<b>Water Pollution Control Project</b> (EPA laboratory support for National Pollution Discharge Elimination System (PL 92-500))	Chem. II Chem. I Micro. I Lab. Tech.	.5 1.0 1.0 1.0	Pers.	43,053	
			Supp.	38,112	
			<b>Total</b>	<b>81,165</b>	
<b>Water Supply Program</b> (EPA laboratory support for Safe Drinking Water Act (PL 93-523) requirements in form of equipment grant from Federal funds)	Chem. III Chem. II Micro. I Rad. Chem. Lab. Tech.	1.0 1.5 1.0 1.0 1.0	Pers.	34,883	
			Supp.	73,320	
			<b>Total</b>	<b>108,203</b>	

**Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs		
Kans. (Cont.)	<b>Air Quality Program — EPA laboratory</b> (Support for sulfur dioxide and suspended particulate monitoring including suspended particulate analysis from 56 air monitoring sites in State and continuous monitoring calibrations support for 5 sites in state.)	Chem. II	0.75	Pers.	17,556	
		Clerical	0.1	<b>Total</b>	<b>17,556</b>	
	<b>Occupational Health Consultation</b> (Provide analytical support for onsite consultation services at employers work-site in accordance with the requirements of 29 CFR 1908.)	Chem. II	.35	Pers.	18,370	
		Chem. I	1.0	Supp.	1,000	
				<b>Total</b>	<b>19,370</b>	
	<b>314d Funds — Public Health</b> (Laboratory Support)	Micro. III	1.0	Pers.	168,210	
		Micro. II	3.0	<b>Total</b>	<b>168,210</b>	
		Micro. I	3.0			
		Chem. III	1.0			
		Chem. II	1.0			
Chem. I		2.0				
	Lab. Tech.	1.0				
<b>Title 18 Medicare Funds</b> (Surveys of hospital laboratories to insure compliance with Medicare standards.)	Lab. Cert. Supervisor	0.50	Pers.	13,225		
	Micro.	0.25	<b>Total</b>	<b>13,225</b>		
Private	<b>Harvard Air/Lung Study</b> (Laboratory analytical services related to ambient air monitoring)	Chem. II	0.25	Other	7,000	
				<b>Total</b>	<b>7,000</b>	
Ky. ....	Federal	Microbiologist	7.0	Pers.	71,480	
				Supp.	18,578	
			Equip.	67,333		
			Other	3,950		
		<b>Total</b>	<b>161,341</b>			
	<b>T&amp;A funds from Department of Natural Resources &amp; Environmental Protection</b> (Bacterial and chemical testing of private and public water)	Microbiologist	3.0	Pers.	61,475	
		Chemist	3.0	Supp.	61,474	
		Surveyor	1.0	<b>Total</b>	<b>122,949</b>	
	<b>T&amp;A funds from Department of Labor</b> (Analysis of occupational samples)	Chemist	2.5	Pers.	37,500	
		Lab. Aide	0.5	Supp.	37,500	
			<b>Total</b>	<b>75,000</b>		
<b>Proficiency Testing</b> (Proficiency testing for approximately 210 laboratories.)	Lab. Aide	1.0	Pers.	37,166		
	Clerk	1.0	Supp.	11,140		
	Microbiologist	1.0	Equip.	1,420		
	Microbiologist	1.0	Other	523		
	Consultant	0.5	<b>Total</b>	<b>50,249</b>		
<b>Laboratory Training</b> (Training workshops for several clinical labs throughout the State.)	Microbiologist	1.0	Pers.	10,976		
	Consultant	0.5	Supp.	2,130		
			Other	812		
			<b>Total</b>	<b>13,918</b>		
Me. ....	Federal/State	Medicare/Medicaid (Laboratory surveillance for hospital licensure and services)	1.5	Pers.	22,569	
				Supp.	850	
			<b>Total</b>	<b>23,419</b>		
State	<b>Racing Comm.</b> (Urine analysis—harness racing)		1.5	Pers.	15,000	
				<b>Total</b>	<b>15,000</b>	
Md. ....	Federal	Cervical Cancer Screening Program (Pap Smear screening of women who are ineligible for other public health programs)	Lab. Sci. III	1.0	Pers.	30,532
			Lab. Sci. II	1.0	Supp.	3,606
			Typ. Clk.	1.0	<b>Total</b>	<b>34,138</b>
	<b>Air Pollution Act, Air Quality Control Program</b> (Constant monitoring of air throughout the state for pollutants)	Lab. Sci.	1.0	Pers.	21,819	
		Lab. Asst.	1.0	<b>Total</b>	<b>21,819</b>	

**Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs			
Md. (Cont.)	<b>Occupational and Safety Health Act, Division of Labor and Industry</b> (Laboratory testing of samples submitted by the MOSHA Program)	Lab. Sci. III	2.0	Pers.	43,722		
		Lab. Sci. I	1.0	Supp.	4,389		
		Lab. Asst.	3.0	Equip.	225		
				Other	10,476		
				<b>Total</b>	<b>58,812</b>		
		<b>Crippled Childrens Program for laboratory supplies</b> (Testing for inborn errors of metabolism in newborns)	—	—	Supp.	75,852	
					<b>Total</b>	<b>75,852</b>	
		<b>Venereal Disease Control</b> (Testing for GC and Syphilis)	—	—	Supp.	69,560	
					<b>Total</b>	<b>69,560</b>	
		<b>Certification, Training and Field Services</b> (Licensure and inspection of laboratories for Medicare requirements)	Lab. Sci.	2.0	Pers.	36,300	
					Supp.	7,970	
					Equip.	2,000	
				Other	11,000		
				<b>Total</b>	<b>57,270</b>		
Mass. ....	<b>Federal</b> <b>Center for Disease Control</b> (Laboratory Training Contract—MHRI#31660—9/22/78-3/21/80)	—	4.0	Pers.	72,700		
				Supp.	6,800		
				Other	15,845		
				<b>Total</b>	<b>95,345</b>		
			(Laboratory Training Contract—MHRI#31740—9/26/79-3/26/81)	—	4.0	Pers.	65,520
				Supp.	7,470		
				Other	28,494		
				<b>Total</b>	<b>101,484</b>		
	(Technical Consultation Contract—MHRI#31670—9/25/78-3/24/80)	—	4.0	Pers.	74,417		
				Supp.	1,500		
				Other	10,356		
				<b>Total</b>	<b>86,237</b>		
	(Proficiency Testing Contract—MHRI#31690—7/12/79-1/12/81)	—	3.0	Pers.	64,776		
				Supp.	20,000		
				Other	26,871		
				<b>Total</b>	<b>111,647</b>		
Mich. ....	<b>Federal</b> <b>Cancer Contract</b> (Special testing of cancer treatment drugs under development.)	Secret. 07	0.5	Pers.	51,711		
		Micro. VII	1.0	Supp.	3,069		
		Lab. Tech. III	1.0	Equip.	683		
		Lab. Asst. II	0.5	<b>Total</b>	<b>55,463</b>		
			<b>Brucellosis Contract</b> (Development of effective brucellosis vaccine.)	P.H. Lab. Sci. 13	1.0	Pers.	44,219
				Lab. Asst. II	1.0	Supp.	6,854
						Equip.	2,423
						<b>Total</b>	<b>53,496</b>
			<b>Rabies Vaccine Contract</b> (Research towards the improvement of rabies vaccine.)	Lab. Tech. 05	0.2	Pers.	2,283
						Supp.	500
				<b>Total</b>	<b>2,783</b>		
	<b>PBB Contract</b> (Long term health study of persons exposed to PBB.)	Secret. IV B	1.0	Pers.	229,235		
		Med. Lab. Tech. 07	3.0	Supp.	52,175		
		Typist II B	1.0	Equip.	5,872		
		Chem. 10	1.0	Other	14,011		
		Lab. Tech. III	2.0	<b>Total</b>	<b>301,293</b>		
		Lab. Asst. II	2.0				
		Stat. II	0.4				
		Stat. 09	1.0				
		Stat. Tech. 07	1.0				
		Cait. Clerk IV B	0.2				
	<b>314d Funds</b> General support for provision of vaccines & public health laboratory services.)	various levels & classes	27.5*	Pers.	508,500		
				<b>Total</b>	<b>508,500</b>		

\*Based on average Lab. Diag. Program Salaries.

**Table 3-4**  
**GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS**  
**WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs	
Mich. (Cont.)	<b>Veneral Disease Contract</b> (Enhanced case finding, education and treatment of V.D.)	Lab. Tech. IV B	1.0	Pers.	64,685
		Micro. VI B	1.0	<b>Total</b>	<b>64,685</b>
		Micro. VI B	1.0		
	<b>Pesticides Contract</b> (Analysis of tissues for pesticides for monitoring performance of studies concerning pesticide exposure.)	P.H. Adm. 16	0.6	Pers.	125,744
		Steno. 05	1.0	Supp.	26,551
		Evn. Sanit. IX	1.0	Equip.	2,397
		P.H. Field Rep. 09	1.0	Other	8,989
		Lab. Tech. III	2.0	<b>Total</b>	<b>163,681</b>
		Lab. Sci. IX	1.0		
		Lab. Asst. II	0.8		
	<b>Laboratory Training Contract</b> (Development, administration and evaluation of the effectiveness of a laboratory training program for clinical and public health laboratories.)	Lab. Eval. Spec. VI B	1.0	Pers.	28,370
		Typist Clerk II B	1.0	Supp.	1,876
				Other	1,167
		<b>Total</b>			<b>31,413</b>
	<b>Local</b>				
<b>Kent County Agreement</b> (Provides certain local laboratory services for County.)	Micro. VII	1.0	Pers.	66,362	
	Micro. VI B	1.0	Supp.	305	
	Lab. Tech. III	1.0	<b>Total</b>	<b>66,667</b>	
<b>Private</b>					
<b>Phillips Duphar Influenza Contract</b> (Test the conditions for the preservation of attenuated influenza vaccine by freeze-drying.)	—	—	Supp.	7,937	
			Equip.	1,219	
			<b>Total</b>	<b>9,156</b>	
<b>Red Cross Agreement</b> (Research to develop or improve blood fractions.)	Lab. Sci. VII	1.0	Pers.	44,846	
	Lab. Tech. 07	1.0	Supp.	9,605	
			Equip.	5,298	
			Other	498	
	<b>Total</b>			<b>60,247</b>	
<b>Brucellosis Vaccine Contract with Meat Packing Companies</b> (Development of effective brucellosis vaccine.)	Student Asst. 07	0.8	Pers.	9,898	
			Supp.	1,743	
			<b>Total</b>	<b>11,641</b>	
<b>Minn. ....</b>	<b>Federal</b>				
<b>HEW, CDC</b> (Continuing education for laboratory personnel.)	Med. Techno.	1.0	Pers.	18,332	
	Med. Techni.	1.0	Supp.	2,220	
	Clerk-Typist	1.0	Equip.	184	
			Other	8,111	
			<b>Total</b>	<b>28,847</b>	
<b>Mo. ....</b>	<b>Federal</b>				
<b>FDA</b> (Performance of lab tests on food samples.)	—	1.0	—	—	
	<b>State</b>				
<b>State Milk Board</b> (Laboratory inspection and approval. Performance of laboratory tests on milk.)	—	0.5	—	—	
<b>Dept. of Natural Resources</b> (Public water supply testing bacteriological and chemical. Laboratory inspection.)	—	4.0	—	—	
<b>Division of Highway Safety</b> (Breath alcohol maintenance and calibration program.)	—	4.0	—	—	
<b>Mont. ....</b>	<b>Federal</b>				
(CDC Developmental Assistance Contract. Laboratory Training—traveling workshops—continuing education and training for clinical laboratory techs.)	1 Med. Tech.	1.0	Pers.	13,385	
	1 clerical	1.0	Supp.	1,893	
			Equip.	4,179	
			Other	5,211	
			<b>Total</b>	<b>24,668</b>	
	<b>State</b>				
<b>Montana Air Pollution Study</b> (Chemical laboratory support analysis of field samples for particulates, sulfate, nitrate, metals.)	1 Chemist		Pers.	19,750	
	1 Lab. Tech.		Supp.	2,155	
			Other	4	
			<b>Total</b>	<b>21,909</b>	

**Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OF AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs		
Nev. ....	<b>State</b>					
	<b>Environmental Air and Water</b> (Chemical and bacteriological tests on water and air.)	Chem. 1.5 M.B. 0.2 Lab. Asst. 1.0 Admin. 0.1 Stock Clerk 0.1 Clerical 0.1		Pers. 46,440 Supp. 10,610 <b>Total 57,050</b>		
	<b>Federal</b>					
	<b>EPA Safe Drinking Water</b> (Chemical and bacteriological exams of drinking water.)	M.B. 0.4 Chem. 1.5 Lab. Asst. 2.3 Clerical 0.2 Admin. 0.1 Stock Clerk 0.2		Pers. 66,270 Supp. 40,204 Equip. 40,000 <b>Total 146,474</b>		
	<b>314D</b> (Communicable disease service.)	(undesignated)	—	Other 35,198	<b>Total 35,198</b>	
	N.J. ....	<b>Federal</b>				
		<b>VD Casefinding</b>	—	—	Pers. 82,506 Other 16,842 <b>Total 99,348</b>	
		<b>Pesticides Program</b>	—	—	Pers. 2,328 Supp. 1,997 Equip. 845 Other 463 <b>Total 5,633</b>	
		<b>CETA Program</b>	—	—	Pers. 9,256 <b>Total 9,256</b>	
		<b>Immunization Project</b>	—	—	Pers. 5,963 Other 1,184 <b>Total 7,147</b>	
<b>General Health Section 314d</b>		—	—	Pers. 510,450 Supp. 9,500 <b>Total 519,950</b>		
<b>Spec. Child &amp; Health Service Program</b>		—	—	Pers. 18,905 <b>Total 18,905</b>		
<b>Maternal &amp; Child Health—Title V</b>		—	—	Pers. 10,282 <b>Total 10,282</b>		
<b>Private (Earned Funds)</b>						
<b>Rabies</b>		—	—	Pers. 56,862 Supp. 2,500 <b>Total 59,362</b>		
<b>Laboratory Revolving Funds</b>	—	—	Pers. 152,270 Supp. 10,439 Equip. 82,509 Other 30,480 <b>Total 275,698</b>			
<b>Drinking Water Certificate</b>	—	—	Pers. 47,374 Supp. 194 Other 3,196 <b>Total 50,764</b>			
<b>State</b> (Total State Funds)	—	—	Pers. 2,571,761 Supp. 410,614 Equip. 55,730 Other 577,617 <b>Total 3,615,722</b>			

**Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs	
N.C. ....	<b>Federal</b>				
	<b>OSHA Program</b> (Analytical testing support to field engineers investigating OSHA complaints.)	Chem. I Lab. Tech.	1.0 1.0	Pers. Supp. Equip. Other	27,398 2,874 11,885 1,258
				<b>Total</b>	<b>43,415</b>
	<b>VD Control Project</b> (Gonorrhea lab advisor provides training PT to participating local health departments.)	Lab. Imp. Consult. Med. Lab. Tech. II	0.5 1.0	Pers.	28,167
				<b>Total</b>	<b>28,167</b>
	<b>CDC Technical Assistance</b> (Field training provided to local hospital labs.)	Lab. Imp. Consult. Clerk Typist III	1.0 1.0	Pers. Supp. Equip. Other	7,996 5,373 16,349 2,067
				<b>Total</b>	<b>31,785</b>
	<b>Highway Safety Program</b> (Preparation & distribution of ethyl alcohol calibration standard solution for breathalyzers.)	An. Chem. II An. Chem. I Chem. An. I Lab. Tech. Lab. Tech.	0.05 0.05 0.05 0.05 0.05	Supp.	4,046
				<b>Total</b>	<b>4,046</b>
	<b>Solid Waste Project</b> (Chemical analyses on land fill drainage.)	An. Chem. I	1.0	Pers.	19,854
				<b>Total</b>	<b>19,854</b>
	<b>Hazardous Waste Project</b> (Identification of toxic chemical wastes.)	—	—	Equip.	19,609
				<b>Total</b>	<b>19,609</b>
	<b>EPA</b> (Coliform analyses on public water systems)	Med. Lab. Tech. I Med. Lab. Tech. I Stock Clerk I	1.0 1.0 1.0	Pers. Supp. Equip. Other	25,219 5,344 16,168 48,981
				<b>Total</b>	<b>95,712</b>
		<b>State</b>			
	<b>Hypothyroid Screening Project</b> (Diagnosis of neonatal hypothyroidism.)	Med. Lab. Tech. II Med. Lab. Tech. II Clerk Typist II	1.0 1.0 1.0	Pers. Supp.	6,504 12,834
				<b>Total</b>	<b>19,338</b>
	<b>Perinatal Care Project</b> (Blood typing grouping; antibody screen on pregnant women.)	Med. Lab. Tech. II	1.0	Supp.	13,992
			<b>Total</b>	<b>13,992</b>	
<b>Sickle Cell Screening</b> (Screening and diagnosis of hemoglobinopathies.)	P.H. Micro. II P.H. Micro. I Clerk Typist III	0.8 1.0 1.0	Pers. Equip. Other	44,699 5,119 970	
			<b>Total</b>	<b>50,788</b>	
N.D. ....	<b>State</b>				
	<b>N.D. State Dairy Commissioner</b> (Milk testing)	Tech.	0.5	Pers. Supp.	4,200 300
			<b>Total</b>	<b>4,500</b>	
N.M. ....	<b>Federal</b>				
	<b>Highway Traffic Safety (Alcohol)</b> (Provide scientific and technical support to alcohol program of NM Traffic Safety Bureau (funded by National Highway Traffic Safety Admin. grant).)	Chemist I-II Lab. Tech. Clerk IV	.77 .20 .30	Pers. Supp. Equip. Other	24,054 1,400 14,534 16,200
				<b>Total</b>	<b>56,188</b>
Ohio .....	<b>Federal</b>				
	<b>Maternal &amp; Child Health</b> (Newborn screening (Inborn errors Met.))	Chem. Sup. 1 Chem. 1 Lab. Tech. 2 Lab. Tech. 1 Typist 2	1.0 1.0 2.0 2.0 1.0	Pers. Supp. Equip. Other	94,071 27,395 1,032 493
				<b>Total</b>	<b>122,991</b>
	<b>Sickle Cell</b> (Abnormal hemoglobin)	Micro. 1	1.0	Pers. Supp.	14,000 2,500
				<b>Total</b>	<b>16,500</b>



**Table 3-4**  
**GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS**  
**WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL) — Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs	
Ohio (Cont).	<b>Genetics</b> (Hypothyroid screening)	Micro. 1	0.5	Pers.	17,603
		Chem. 1	0.5	Supp.	32,013
				Equip.	705
				<b>Total</b>	<b>50,321</b>
	<b>S.T.D. (VD) Control</b> (V.D. testing)	Micro. 3	1.0	Pers.	91,758
		Micro. 1	1.5	Supp.	67,480
		Lab. Tech. 2	1.0	Equip.	678
		Lab. Tech. 1	2.0	Other	55
		Lab. Tech. 1	1.0	<b>Total</b>	<b>159,971</b>
	<b>Public Water Supply</b> (Environmental chemistry)	—	—	Equip.	9,912
				<b>Total</b>	<b>9,912</b>
	<b>ORSANCO</b> (Environmental chemistry)	—	—	Other	1,921
				<b>Total</b>	<b>1,921</b>
	<b>State</b>				
	<b>Encephalitis</b> (Viral test support)	—	—	Supp.	18,276
			<b>Total</b>	<b>18,276</b>	
<b>Federal &amp; State</b>					
<b>Ohio Env. Prot. Agency</b> (Environmental chemistry and microbiology)	Chem. Sup. 2	1.0	Pers.	560,000	
	Chem. Sup. 1	4.25	Supp.	107,459	
	Chem. 3	1.0	Equip.	33,020	
	Chem. 2	2.5	Other	41,230	
	Chem. 1	11.0	<b>Total</b>	<b>182,269</b>	
	Lab. Tech. 1	3.6			
	Lab. Asst	3.0			
	Secret. 1	1.0			
	Typist 2	3.5			
	Clerk 1	1.0			
	Micro. Sup. 1	0.8			
	Micro. 2	2.4			
	Lab. Tech. 1	3.0			
<b>Industrial Commission</b> (Occupational chemistry)	Chem. Sup. 1	.25	Pers.	9,308	
	Lab. Asst.	.25	Supp.	4,308	
	Typist 2	.25	Other	2,912	
			<b>Total</b>	<b>16,528</b>	
<b>Industrial Relations</b> (Occupational chemistry)	Chem. Sup. 1	.25	Pers.	9,308	
			Supp.	684	
			Other	18,864	
			<b>Total</b>	<b>28,856</b>	
<b>Department of Natural Resources</b> (Environmental chemistry)	—	—	Other	157	
			<b>Total</b>	<b>157</b>	
Okla.....	<b>Federal</b>				
	<b>Family Planning—Oklahoma State Department of Health</b> (gonorrhea culture and syphilis serology)	—	—	—	
	<b>Corps of Engineers</b> (Water microbiology)	—	—	—	
	<b>State and Federal</b>				
	<b>Veneral Disease Program—Oklahoma State Department of Health</b> (Gonorrhea culture)	—	—	—	
Ore. ....	<b>Federal</b>				
	<b>Toxicology</b>	—	4.0	Pers.	17,781
				Supp.	5,831
				Equip.	2,649
				Other	11,993
				<b>Total</b>	<b>38,254</b>
	<b>Administration</b>	—	5.5	Pers.	72,570
				Supp.	124
				Other	27,406
				<b>Total</b>	<b>100,100</b>

**Table 3-4**  
**GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS**  
**WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)—Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs
Ore. (Cont.)	Lab. Inspection	—	3.3	Pers. 42,398 Supp. 350 Equip. 109 Other 13,972 <b>Total 56,829</b>
	Med. Micro.	—	2.0	Pers. 21,224 Supp. 3,472 Other 342 <b>Total 25,038</b>
	Metabolic	—	4.5	Pers. 72,781 Supp. 2,200 Other 7,544 <b>Total 82,525</b>
	Syphilis Serology	—	2.0	Pers. 34,355 Supp. 1,063 Other 289 <b>Total 35,707</b>
	Water	—	1.0 0.5	Pers. 35,366 Supp. 558 Other 3,681 <b>Total 39,605</b>
	State Administration	—	7.5	Pers. 155,571 Supp. 3,102 Equip. 408 Other 61,229 <b>Total 220,310</b>
	Med. Micro.	—	6.75	Pers. 130,477 Supp. 10,812 Equip. 3,572 Other 43,712 <b>Total 188,573</b>
	Metabolic	—	1.0	Pers. 24,795 Supp. 7,346 Equip. 69 Other 8,818 <b>Total 40,928</b>
	Syphilis Serology	—	7.0	Pers. 123,074 Supp. 49,990 Equip. 1,699 Other 44,993 <b>Total 219,756</b>
	Water	—	2.5	Pers. 50,778 Supp. 5,317 Other 22,666 <b>Total 78,761</b>
	Virus	—	9.0	Pers. 107,140 Supp. 23,726 Equip. 419 Other 25,216 <b>Total 156,501</b>
	Private Lab Inspection	—	2.0	Pers. 33,356 Supp. 202 Other 10,168 <b>Total 43,726</b>
	Other States Metabolic	—	3.5	Pers. 47,085 Supp. 26,474 Equip. 61,312 Other 70,220 <b>Total 205,091</b>

**Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)—Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs
Pa. ....	<b>Federal</b> Statewide Virology Proficiency Testing Program (CDC)	Micro. 4 M.R.S. 1 Micro. 3	.10 .20 .20	Pers. 8,086 Supp. 2,945 Equip. 2,500 Other 300 <b>Total 13,831</b>
R.I. ....	<b>Federal</b> <b>Public Health Service</b> (Block grant for general laboratory services)	Micro. Chemist	6.0 1.0	Pers. 150,475 Supp. 11,000 Equip. (a) <b>Total 161,475</b>
	<b>Environmental Protection Agency</b> (Water supply testing)	Chemist Micro.	7.0 2.0	Pers. 144,026 Supp. 25,815 Equip. (a) Other 164 <b>Total 170,005</b>
	<b>Center for Disease Control</b> (Training contract—micro. training program)	—	—	Supp. 101 Equip. 11,345 Other 1,117 <b>Total 12,563</b>
	<b>Environmental Protection Agency</b> (Hazardous waste testing)	—	—	Supp. 17,896 Equip. (a) <b>Total 17,896</b>
S.C. ....	<b>Federal</b> (Pesticides Contract—EPA funds for pesticides study. Laboratory analysis of human, animal & environmental samples for pesticides & herbicides are provided under sub-contract with MUSC, which has major contract with EPA to develop data on baseline levels in humans, animals & the environment for these toxic substances)	Chemist IV Chemist III Chemist I Dir., Div. Environ. Health Labs.	1.0 1.0 2.0 0.05	Pers. 56,990 Other 22,353 <b>Total 79,343</b>
	<b>Forestry Contract</b> (Note: Contract began after middle of fiscal year. Laboratory analysis of pine tree samples (needles, etc.) and samples of surrounding environment (water, soil, etc.) for presence of pesticide carbofuran & its degradation products.)	Chemist I	1.0	Pers. 2,173 Supp. 71 Equip. 19,623 Other 2,139 <b>Total 24,006</b>
	<b>Blood Lead Agreement</b> (Laboratory analysis of serum samples from high risk populations.)	Chemist II	0.5	Pers. 8,460 Supp. 4,701 Equip. 170 Other 218 <b>Total 13,549</b>
S.D. ....	<b>Federal</b> CDC—Consultation Contract	Fac. Spec. II Stat. Clerk	1.0 0.5	Pers. 17,789 Supp. 5,189 Equip. 69 Other 3,731 <b>Total 26,778</b>
	CDC—Training Contract	—	—	<b>Total 60,208</b>
	<b>State</b> <b>Dept. of Water and Natural Resources</b> (Environmental testing)	Chem. III Chem. II Chem. I Micro. II Lab. Tech.	1.2 1.2 0.6 0.6 0.6	Pers. 62,529 Supp. 7,972 Equip. 1,159 Other 3,247 <b>Total 74,907</b>
Tenn. ....	<b>State</b> Department of Safety (Blood alcohol exams)	—	—	<b>Total 153,679</b>
	<b>U.T. Memphis</b> (Medical ecology and toxicology)	—	—	<b>Total 129,000</b>

(a) included with supplies.

**Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS  
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)—Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs	
Tenn. (Cont.)	<b>State Autopsy Fee Schedule</b> (Autopsy reimbursement to pathologists.)	—	—	<b>Total</b>	<b>64,000</b>
Tex. ....	<b>Federal</b>				
	<b>Safe Drinking Water Grant</b> (Chemical and bacteriological analysis of drinking water.)	Chemist Microbiologist Technician Clerical	8.0 1.0 5.0 1.0	Pers. Supp. Equip.	157,206 66,811 153,826
				<b>Total</b>	<b>377,843</b>
	<b>Cooperative Meat Inspection</b>	Chemist Support	1.0 1.0	Pers.	22,686
				<b>Total</b>	<b>22,686</b>
	<b>Health Maintenance</b> (Hypertension screening)	Med. Tech.	1.0	Pers.	16,876
				<b>Total</b>	<b>16,876</b>
	<b>State</b>				
	<b>Interagency contract with Water Resources Board</b>	Microbiologist Chemist Technician Clerical Support	2.0 5.0 5.0 1.0 3.0	Pers.	146,037
				<b>Total</b>	<b>146,037</b>
	<b>EPSDT</b>	Chemist Med. Tech. Technician Clerical Support	2.0 2.0 5.0 1.0 1.0	Pers. Supp. Equip. Other	145,100 23,391 3,400 1,455
				<b>Total</b>	<b>173,346</b>
	<b>(a) Included with Supplies.</b>				
Utah .....	<b>Federal</b>				
	<b>Technical Consultation II Contract federal funds</b> (Serves laboratory improvement section—laboratory technical consultation.)	Microbiologist 21	1.0	Pers. Supp. Other	12,824 2,099 632
				<b>Total</b>	<b>15,555</b>
	<b>Laboratory Training Contract federal funds</b> (Serves laboratory improvement program—laboratory training.)	Microbiologist 23 Microbiologist 19 Typist	1.0 1.0 1.0	Pers. Supp. Equip. Other	22,847 3,735 745 882
				<b>Total</b>	<b>28,209</b>
	<b>Technical Consultation I Contract federal funds</b> (Serves laboratory improvement section—laboratory technical consultation.)	Microbiologist 21 Microbiologist 19 Typist	1.0 1.0 0.5	Pers. Supp. Other	18,112 3,550 641
				<b>Total</b>	<b>22,303</b>
Wisc. ....	<b>State</b>				
	<b>Wisconsin Dept. of Transportation and U.S. Dept. of Transportation</b> (Implementing controlled substances analysis-WI implied consent program.)	—	0.2	Pers. Supp.	2,700 5,980
				<b>Total</b>	<b>8,680</b>
	<b>Wisconsin Dept. of Health and Social Services</b> (Alpha-fetoprotein screening of maternal serum in mid-pregnancy.)	—	2.0	Pers. Supp. Other	35,800 12,300 660
				<b>Total</b>	<b>48,760</b>
	<b>Wisconsin Dept. of Health and Social Services</b> (Operation of a cytogenetics unit)	—	2.0	Pers. Supp.	37,000 10,000
				<b>Total</b>	<b>47,000</b>
	<b>Wisconsin Division of Highway Safety</b> (CNS depressants on WI Traffic fatalities.)	—	1.0	Pers. Supp. Other	16,325 2,669 109
				<b>Total</b>	<b>19,103</b>
	<b>Federal</b>				
	<b>DHEW, PHS, Health Research Administration</b> (training grant)	—	1.0	Pers.	14,200
				<b>Total</b>	<b>14,200</b>
	<b>DHSS, DHEW, PHS, CDC</b> (Erythrocyte protoporphyrin proficiency testing.)	—	1.0	Pers. Supp. Other	8,880 755 1,991
				<b>Total</b>	<b>11,626</b>

**Table 3-4**  
**GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS**  
**WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)—Continued**

Lab	Source of Funds Programs Served & Services Provided	Staff Utilized	FTE	Costs		
<b>Wisc.</b> <b>(Cont.)</b>	<b>DHEW, PHS, CDC</b> (Proficiency testing)	—	2.0	Pers.	29,508	
				Supp.	20,125	
				Other	4,591	
				<b>Total</b>	<b>54,224</b>	
<b>Wyo.....</b>	<b>Federal</b> <b>Gov. Off. H'way Safety</b> (Alcohol analyses, training of law enforcement personnel, court testimony.)	Chem. III	0.5	Pers.	37,502	
		Chem. I	1.0	Supp.	746	
		Sec.	0.5	Equip.	413	
				Other	6,909	
				<b>Total</b>	<b>45,570</b>	
		<b>Medicare Survey</b> (Laboratory surveys for Medicare compliance.)	Med. Tech. III	0.3	Pers.	5,962
					<b>Total</b>	<b>5,962</b>

**Table 3-5  
STATES REPORTING CHARGES FOR LABORATORY SERVICES**

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
Ala. ....	Pinworms	1.25	Test	72,632	Recycled to support services provided.
	Intestinal Parasites	3.58	Test		
	Sickle Cell	2.75	Test		
	Lead Initial	2.00	Test		
	Lead Confirmation	3.00	Test		
Ariz. ....	—	—	—	124,000	State General Fund
Ark. ....	Pre-marital blood test certificates	1.00	Specimen	15,731	To pay off bonds on laboratory building.
Colo. ....	Drugs of Abuse Urine Screening	3.05	Specimen	59,000	Appropriated to the division to operate the program.
Conn. ....	Environmental Chemistry	1.81	Rel. Value	500,000	State General Fund
	Strep. Mailers	1.00	Each mailer & Culture		
	Strep. Office Klts	.35	Each service		
Idaho ....	Purity Tests	5.00-7.00	Test	162,497	\$157,000 allotted to laboratories.  Remaining \$5,497 reverted to State General Fund.
	Most Probable Number Tests	6.50-10.00	Test		
	Water Pollution Testing—BOD	14.00	Test		
	Water Pollution Testing—COD	8.50	Test		
	Water Pollution Testing—TOC	25.00	Test		
	Water Pollution Testing—Total Aerobic plate count	4.00	Test		
	Water Chemistry tests (Includes alkalinity, ammonia, bicarbonate alkalinity, boron, calcium, carbonate alkalinity, chloride, dissolved oxygen, fluoride hardness, hydrogen sulfide, nitrate, odor, ortho phosphate, settleable solids, silica, specific conductance, sulfate, suspended solids, total dissolved solids, total solids, turbidity)	5.50	Test		
	Elemental analyses performed by atomic absorption spectrophotom- etry (Includes aluminum, barium, cadmium, chromium, copper, iron, magnesium, manganese, molybdenum, nickel, potassium, silver, sodium, vanadium, zinc).	6.50	Test		
	pH	2.50	Test		
	color	2.50	Test		
	Complete Inorganic chemical testing for drinking water (Includes arsenic, barium, cadmium, chromium, fluoride lead, mercury, nitrate, selenium, silver)	75.00	Test		
	Individual tests for:				
	Arsenic	12.00	Test		
	Chlorophyll A	6.50	Test		
	Cyanide	15.00	Test		
	Fluoride, vegetation	25.00	Test		
	Kjeldahl Nitrogens	10.00	Test		
	Mercury	12.00	Test		
	Oil and grease	15.00	Test		
	Pesticide Residue Analysis	75.00	Test		
	Phenols	15.00	Test		
	Rad. Health (gross alpha-beta)	9.00	Test		
	Selenium	12.00	Test		
	Sulfur Dioxide (bubbler)	10.00	Test		
	Surfactants (detergents)	15.00	Test		
	Suspended Particulate	5.00	Test		
	Total or Inorganic Phosphorus	8.00	Test		
	Tannin & Lignin	10.00	Test		
	Trihalomethane	50.00	Test		
	Volatile Petroleum Prod.	20.00	Test		
	Mercury—Tissue, Urine, Blood, Foods	15.00	Test		
	Lead—Tissue, Urine, Blood, Foods	12.00	Test		
	Lead—Pottery	8.00	Test		

**Table 3-5**  
**STATES REPORTING CHARGES FOR LABORATORY SERVICES — Continued**

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
Idaho (Cont.)	EPSDT Testing—Urine Culture	4.00	Test		
	EPSDT Testing—Urine Screen	1.00	Test		
	EPSDT Testing—Hematocrit	1.00	Test		
	Miscellaneous Tests				
	Throat Culture	6.00	Test		
	Urine drug screen	7.50	Test		
	Syphilis Serology	6.00	Test		
	Rubella Serology	6.00	Test		
	Cytogenetic Analysis	125.00	Test		
	Analysis of food sample for Salmonella	10.00	Test		
Ind. ....	Private Water Bact. (or chem)	2.50 + postage	Test	45,808	Money is forwarded to the State Treasury general fund — except for postage and handling fees (up to \$2.25) for sending out private water bact. sample bottles; these fees remain in a State Board of Health revolving fund.
	Public Water Bact.	10.00	Year		
	Premarital Syphilis Serology	2.50	Specimen		
Ia. ....	MPN Potable Water	3.00	Sample	450,900	Estimate of receipts is built into general operating budget.
	Membrane Filter Water	12.00	Sample		
	Nitrate/Iron—Hardness	3.00	Sample		
	BOD-Effluent	8.00	Sample		
	Trade Metals	10-14.00	Test		
	Radiation	10-40.50	Test		
	Pesticides	48-104.50	Test		
	Urine Screen—Abused Drugs	7.50	Specimen		
	Other Water Quality Parameters	4-48.00	Test		
Kans. ....	Environmental Lab. Cert.	20.00	Parameter	245,164	State General Fund
	Water Microbiology	100.00	Micro		
	Water Chemistry	3.00	Sample		
	Partial Analysis	15.00	Sample		
	Complete Analysis	35.00	Sample		
	Complete chemical analysis consisting of:	35.00	Test		
	calcium, magnesium, sodium, potassium, total hardness, carbonate hardness, non-carbonate hardness, total alkalinity, bicarbonate alkalinity, carbonate, bicarbonate, chloride, sulfate, nitrate, fluoride, pH, turbidity, specific conductance, total dissolved solids, phosphate, silica, iron, manganese				
	Complete heavy metals consisting of:	25.00	Test		
	iron, manganese, arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, zinc				
	Partial chemical analysis consisting of:	15.00	Test		
	calcium, magnesium, sodium, total alkalinity, chloride, sulfate, nitrate, fluoride, iron, manganese, total hardness				
	Total hardness consisting of:	6.00	Test		
	calcium, magnesium, chloride, and alkalinity				
	Complete solids consisting of:	15.00	Test		
	total solids, total fixed solids, total volatile solids, total suspended solids, fixed suspended solids, volatile suspended solids, total dissolved solids, fixed dissolved solids, volatile dissolved solids				

**Table 3-5  
STATES REPORTING CHARGES FOR LABORATORY SERVICES – Continued**

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds	
Kansas (Cont.)	Suspended solids (fixed and volatile)	5.00	Test			
	Alkalinity	2.00	Test			
	Chloride	2.00	Test			
	Iron	3.00	Test			
	Manganese	2.00	Test			
	Sodium	2.00	Test			
	Sulfate	3.00	Test			
	Phosphate	2.00	Test			
	Nitrate	2.00	Test			
	Fluoride	2.00	Test			
	Detergents	7.50	Test			
	Five-day biochemical oxygen demand	15.00	Test			
	Chemical oxygen demand	7.50	Test			
	Dissolved oxygen	2.00	Test			
	Phenol	15.00	Test			
	Volatile acids	15.00	Test			
	pH	2.00	Test			
	Total organic nitrogen	7.50	Test			
	Ammonia nitrogen	5.00	Test			
	Mercury	10.00	Test			
	Arsenic and selenium	7.50	Test			
	Other heavy metals	5.00	Each			
	Organic chemistry (Screen for toxic levels of pesticides and herbicides)	160.00	Test			
	Coliform determination	3.00	Test			
	Weekly coliform, pH and turbidity tests on swimming pool water:					
	Outdoor pools per season (sampling every week)	50.00	Sample			
	Indoor pools per season (sampling every two weeks)	100.00	Sample			
	Radiation chemistry (screen for gross alpha and gross beta activity)	28.00	Sample			
	Me. ....	Microbiology			725,000	Support personnel provide all supplies and equipment not available from State and/or Federal funding.
		Culture Kits				
		Throat (Strep)	3.00	Sample		
		Enteric Pathogens	6.00	Sample		
		Mycology	10.00	Sample		
	Parasitology, Intestinal	6.00	Sample			
	Pertussis—FA	3.00	Sample			
	Newborne Metabolic Disease Screening	3.00	Sample			
	Blood Serology (Bact., Myco., Parasit., or Viral)	4.00	Sample			
	Torch	12.00	Sample			
	Water					
	Test for safety	7.00	Test			
	New H <sub>2</sub> O Supply	15.00	Test			
	Complete Testing	25.00	Test			
	Sewage	25.00	Test			
	Purveyors of H <sub>2</sub> O	30.00	Test			
	Purveyors of H <sub>2</sub> O/coliform	34.00	Test			
	Dump Leachate	35.00	Test			
	Trihalomethanes	20.00	Test			
	Single Test—Turbidity	4.00	Test			
	Total Coliforms	4.00	Test			
	Fecal Coliforms	4.00	Test			
	Fecal Strep.	4.00	Test			
	Drug ID Toxicology	10.00	Hr.			
	Breath & Blood Alcohol	20.00	Sample			
	Pesticides (EPA min.)	65.00	Set of 6			
	Racing Chemistry	375/wk	50-70			
Mass. ....	Certificates — Lab. Imp. Biologic Products	5.00 10.00 & up	Lab Kit	21,358	State General Fund	
Minn. ....	Handling Fee	1.50	Specimen	342,414	General Fund	



**Table 3-5**  
**STATES REPORTING CHARGES FOR LABORATORY SERVICES – Continued**

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
Miss. ....	Medicare/Medicaid Patients	Medicaid Rate	Specimen	264,587	General Laboratory Budget
	Throat culture for Group A Strep	1.00	Specimen		
	TB cultures (Mental Hosp.)	3,600.00	Yearly		
	Sickle Cell	1.51	Specimen		
	Parasite	3.00	Specimen		
Mont. ....	Water microbiology	4.00	Sample	79,016	Placed in earmarked revenue account for laboratory testing of water, credited directly against laboratory expenses, or reverted back to those bureaus which have prepaid laboratory costs.
	Chem. analy. of private water supply	15.00	Sample		
	Analyses of drinking water samples:				
	Sanitary quality	4.00	Sample		
	Most Probable Number	10.00	Sample		
	Fecal Collform Analysis	4.00	Sample		
	Standard Chemical Analy.	15.00	Sample		
	Individual Constituents				
	Acidity	15.00	Test		
	Alkalinity & pH	13.00	Test		
	Aluminum	8.00	Test		
	Ammonia	5.00	Test		
	Antimony	4.50	Test		
	Arsenic	15.00	Test		
	Barium	4.50	Test		
	Beryllium	4.50	Test		
	Bioassay	9.50	F/ask		
	BOD	115.00	Test		
	Boron	10.50	Test		
	Cadmium	4.00	Test		
	Calcium	4.00	Test		
	Chloride	2.50	Test		
	Chromium	2.50	Test		
	Chromium Hex	55.00	Test		
	Cobalt	2.00	Test		
	COD	30.00	Test		
	Color (2 tests-pH adjusted)	26.00	Test		
	Copper	2.50	Test		
	Cyanide	135.00	Test		
	Dissolved Oxygen	2.50	Test		
	Fluoride	4.50	Test		
	Hardness	2.00	Test		
	Iron	4.00	Test		
	Lead	2.00	Test		
	Lithium	4.50	Test		
	Manganese	2.50	Test		
	Mercury	7.00	Test		
	Metals Digestion	11.00	Test		
	Metals Extraction	15.50	Test		
	Molybdenum	4.50	Test		
	Nickel	2.50	Test		
	Nitrate	4.00	Test		
	Nitrite	4.00	Test		
	Nitrogen Kjeldahl	9.00	Test		
	Oil and Grease	38.00	Test		
	TOC	47.00	Test		
	Ortho-P	2.00	Test		
	pH	5.00	Test		
	Phenols	64.50	Test		
	Total-P	6.00	Test		
	Potassium	4.00	Test		
	Selenium	13.00	Test		
	Silica	44.00	Test		
	Silver	2.50	Test		
	Sodium	4.00	Test		
	Specific Conductance	2.50	Test		
	Strontium	4.50	Test		
	Sulfate	4.50	Test		
	Sulfide	71.00	Test		
	Tin	4.50	Test		
	TSS	10.50	Test		
	Turbidity	4.00	Test		
	Vanadium	9.00	Test		
	Zinc	2.50	Test		
	Lindane	29.00	Test		
	Endrin	29.00	Test		

**Table 3-5  
STATES REPORTING CHARGES FOR LABORATORY SERVICES – Continued**

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
Mont. (Cont.)	Toxaphene	29.00	Test		
	Methoxychlor	29.00	Test		
	2, 4-D	47.00	Test		
	Silvex	47.00	Test		
	All six organics	210.00	Test		
	Occupational Health Chem.				
	Metals by AAS	8.00	Test		
	As, Hg, Se by AAS	10.00	Test		
	Organic Solvents by G.C.	25.00	Test		
	Free Silica	60.00	Test		
	Coal tar pitch volatiles	40.00	Test		
	Gross $\alpha$ or $\beta$ -H <sub>2</sub> O	10.00	Test		
	Gross $\alpha$ or $\beta$ -H <sub>2</sub> O	15.00	Test		
	Air Quality Chemistry				
	Fluoride—plates	1.20	Test		
	Fluoride—paper	1.20	Test		
	Fluoride—vegetation	4.00	Test		
	Fluoride—coal	4.00	Test		
	Fluoride—soil	4.00	Test		
	Sulfur dioxide—bubblers	6.00	Test		
	Sulfur dioxide—plates	5.50	Test		
Oxides of Nitrogen (NOx)	3.60	Test			
Sulfate and Nitrate	4.50	Test			
Particulates	1.25	Test			
Sulfur—coal, soil	20.00	Test			
Metals—coal, soil	—	Test			
Nebr. ....	Mailing containers	.50	Test	128,000	Laboratory cash fund and is used in the laboratory operating budget.
	Forensic alcohol	8.00	Test		
	Water microbiology	4.00	Test		
	Water chemistry	5.00	Test		
	Water organics	10.00	Specimen		
Nev. ....	Water Bacteriology	5.00	Test	9,000	It is added to the operating account.
	Complete Water Chemistry	110.00	Specimen		
	Lab Licensor	10.00	Each		
	Personnel Certification	10.00	Each		
	Certification Renewal	1.00	—		
N.J. ....	VDRL	2.00	Specimen	156,789	Divisional revolving fund.
	Rubella	3.00	Specimen		
	Potable Water/Bact.	6.00	Sample		
	Lead Poisoning	6.00	Specimen		
N.M. ....	Analyses of all types provided for clients outside Health and Environment Dept (HED) and for federally assisted programs such as Safe Drinking Water Act.	Variable	Sample or Specimen	347,000	Become part of laboratory operating budget.
N.C. ....	Collform Test Water	5.00	Test	284,728	State appropriation to laboratory is reduced by the amount of estimated receipts and in effect becomes part of annual operating budget. Receipts from N.C. Drinking Water Act used to fund positions and purchase supplies, postage, equipment, etc., necessary to perform analytical services.
	Inorganic Chemicals—Water	100.00	Sample		
	Organic Chemicals Water	120.00	Sample		
	Radiological	50.00	Sample		
	Sale of specimen collection outfits and biological products	Varies w/lt type			
Ore. ....	Metabolic Disorders	3.00	Specimen	174,000	They assist the program but are not the sole support.
S.C. ....	Rh	5.00	Specimen	116,668	Salaries and operating expenses.
	Rubella serology	5.00	Specimen		
	STS (VDRL or RPR)	1.00	Specimen		
	Infectious Mono.	8.00	Specimen		
	FTA-ABS	8.00	Specimen		
	Toxoplasmosis (IFA)	14.00	Specimen		
	Blood Lead, qual.	3.00	Specimen		
	Blood Lead, quant.	7.00	Specimen		
	Drug Analysis, qual.	3.00	Specimen		
	Drug Analysis, quant.	10.00	Specimen		
S.D. ....	Environmental samples	1.23	RV	76,207	24,584 Returned to general fund 51,623 Revolving fund

**Table 3-5  
STATES REPORTING CHARGES FOR LABORATORY SERVICES — Continued**

<b>Lab</b>	<b>Services Performed</b>	<b>Charge Per Unit</b>	<b>Unit</b>	<b>Estimated Annual Receipts</b>	<b>Disposition of Funds</b>
Utah . . . . .	Newborn Screening	2.50	Kit	100,000	Used to offset the cost of the tests.
V.I. . . . .	Serology	3.00	—	—	Revolving funds.
	Parasitology	5.00			
	Toxicology	10.00			
	FTA	8.00			
	PKU	3.00			
	Cultures	10.00			
	Thyroids Profiles T <sub>3</sub> & T <sub>4</sub>	8.00			
	Sickle Cell	5.00			
Wash. . . . .	Metabolic	3.20	Test	125,000	Support laboratory operations
	Water Bacteriology	6.00	Test		
	Premarital	5.00	Test		
	Water Chemistries	2.00-85.00			
Wisc. . . . .	Specimen Testing	3.00	Test	1,427,614	Salaries, supplies, capital equipment

**SECTION IV**  
**WORKLOAD REPORTING CATEGORIES**

## DIAGNOSTIC WORKLOAD SECTION

### THE FOLLOWING DEFINITIONS APPLY TO CATEGORIES I THROUGH XII:

Workload is reported by the number of specimens in each category or sub-category. Types of procedures *routinely\** used in your laboratory are to be indicated by checking the appropriate box. The Association (ASTPHLD) is interested in the type of procedures routinely followed in your laboratory. Therefore, do not check those procedures that you have the capability of performing but do not do so on a routine basis.

\*Definition of *Routine* – Those tests performed as part of your standard operating procedures on a specimen or sample.

### **Specimen/Sample**

*Any* material received in the lab for testing in a workload category or sub-category or a material which is divided into aliquots for testing in multiple categories or sub-categories is counted as *one specimen for each category or sub-category*. Specimens collected from the same site on the same patient (or same environmental source) at the same time, are to be counted as *one specimen* in each category or sub-category in which it is tested.

Table 4-1  
I. DIAGNOSTIC BACTERIOLOGY  
SUMMARY OF SPECIMENS BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Diagnostic Bacteriology Specimens	A	B	C	D	E	F
		Nasopharyngeal Specimens	Mycobacterial Specimens	Enteric Specimens	Gonococcus Specimens	Anaerobic Specimens	Other Bacteriology Specimens
<b>Total</b> .....	<b>7,640,958</b>	<b>1,956,612</b>	<b>511,219</b>	<b>218,355</b>	<b>4,777,785</b>	<b>12,675</b>	<b>164,312</b>
Average .....	146,942	37,627	10,877	4,281	91,880	276	3,423
<b>New England</b> .....	<b>636,191</b>	<b>326,806</b>	<b>24,114</b>	<b>22,968</b>	<b>248,343</b>	<b>517</b>	<b>12,443</b>
Conn. ....	132,308	85,653	6,224	6,255	26,784	97	7,295
Mass. ....	172,445	97,907	—	10,270	61,803	128	2,337
Me. ....	46,695	3,925	4,507	664	37,439	150	—
N.H. ....	106,520	42,649	10,451	1,784	49,110	—	2,526
R.I. ....	139,030	75,253	1,347	2,498	59,627	20	285
Vt. ....	39,193	21,419	1,585	1,497	14,580	112	—
<b>Middle Atlantic</b> .....	<b>262,081</b>	<b>78</b>	<b>30,148</b>	<b>18,680</b>	<b>211,290</b>	<b>145</b>	<b>1,740</b>
N.J. ....	238,066	1	18,364	7,493	211,250	99	859
N.Y. ....	—	—	—	—	—	—	—
Pa. ....	24,015	77	11,784	11,187	40	46	881
<b>East North Central</b> .....	<b>914,759</b>	<b>449,604</b>	<b>37,639</b>	<b>31,763</b>	<b>373,112</b>	<b>1,730</b>	<b>20,911</b>
Ill. ....	184,274	38,265	7,402	6,969	128,908	262	2,468
Ind. ....	11,907	54	3,763	2,338	4,742	185	825
Mich. ....	329,015	143,986	15,647	12,366	144,491	174	12,351
Ohio ....	343,739	252,810	5,860	2,673	77,623	460	4,313
Wisc. ....	45,824	14,489	4,967	7,417	17,348	649	954
<b>West North Central</b> .....	<b>635,362</b>	<b>230,084</b>	<b>31,176</b>	<b>17,496</b>	<b>324,994</b>	<b>1,251</b>	<b>30,361</b>
Ia. ....	133,958	48,170	2,896	1,381	75,661	316	5,534
Kans. ....	72,733	20,377	5,801	4,646	39,245	360	2,304
Minn. ....	124,023	2,023	13,716	5,145	102,577	159	403
Mo. ....	187,813	111,731	—	2,725	72,298	76	983
Nebr. ....	27,034	4,194	727	424	21,689	—	—
N.D. ....	56,820	23,516	4,235	2,246	6,032	239	20,552
S.D. ....	32,981	20,073	3,801	929	7,492	101	585
<b>South Atlantic</b> .....	<b>2,013,353</b>	<b>205,340</b>	<b>145,629</b>	<b>57,830</b>	<b>1,569,368</b>	<b>3,567</b>	<b>31,619</b>
Del. ....	32,282	796	—	697	29,769	—	1,020
D.C. ....	112,502	6,767	2,196	2,615	94,586	—	6,338
Fla. ....	656,372	38,117	52,412	25,003	530,713	904	9,223
Ga. ....	270,499	16,620	24,258	6,630	218,464	997	3,530
Md. ....	407,901	40,657	18,150	8,487	339,460	543	604
N.C. ....	22,924	1,220	14,563	4,666	365	351	1,759
S.C. ....	240,428	4,239	12,851	1,564	214,971	453	6,350
Va. ....	160,310	48,847	12,793	7,692	88,289	309	2,380
W. Va. ....	110,135	48,077	8,406	476	52,751	10	415
<b>East South Central</b> .....	<b>1,143,190</b>	<b>236,648</b>	<b>98,891</b>	<b>18,907</b>	<b>778,082</b>	<b>1,509</b>	<b>9,143</b>
Ala. ....	448,868	48,351	38,542	4,846	353,411	322	3,396
Ky. ....	30,383	2,878	15,459	1,727	9,651	35	633
Miss. ....	252,204	41,217	23,167	5,624	179,977	*	3,119
Tenn. ....	411,735	144,202	21,723	6,710	235,953	1,152	1,995
<b>West South Central</b> .....	<b>1,086,963</b>	<b>65,704</b>	<b>92,672</b>	<b>26,321</b>	<b>865,005</b>	<b>2,202</b>	<b>35,059</b>
Ark. ....	117,166	16,367	21,633	2,556	75,958	218	434
La. ....	111,419	4,529	12,467	5,309	86,334	1,115	1,665
Okla. ....	136,317	26,460	10,373	1,841	96,074	99	1,470
Tex. ....	722,061	18,348	48,199	16,615	606,639	770	31,490
<b>Mountain</b> .....	<b>653,580</b>	<b>379,739</b>	<b>25,288</b>	<b>10,772</b>	<b>229,640</b>	<b>941</b>	<b>7,200</b>
Ariz. ....	21,904	296	8,247	2,275	10,063	518	505
Colo. ....	178,702	138,614	1,864	1,656	36,037	96	435
Ida. ....	35,107	2,222	2,002	829	29,565	79	410
Mont. ....	18,946	1,126	2,873	407	13,877	150	513
Nev. ....	39,896	219	2,003	356	36,420	25	873
N.M. ....	101,015	8,017	6,548	2,616	79,568	52	4,214
Utah ....	61,473	35,978	1,471	2,586	21,167	21	250
Wyo. ....	196,537	193,267	280	47	2,943	—	—
<b>Pacific</b> .....	<b>251,304</b>	<b>50,804</b>	<b>23,710</b>	<b>13,179</b>	<b>155,026</b>	<b>605</b>	<b>7,980</b>
Alaska ....	—	—	—	—	—	—	—
Cal. ....	15,476	223	1,392	354	13,253	109	145
Hawaii ....	188,424	43,421	11,657	8,029	119,373	216	5,728
Ore. ....	13,312	6,066	3,275	2,010	1,472	59	430
Wash. ....	34,092	1,094	7,386	2,786	20,928	221	1,677
<b>Territories</b> .....	<b>44,175</b>	<b>11,805</b>	<b>1,952</b>	<b>439</b>	<b>21,915</b>	<b>208</b>	<b>7,856</b>
Guam ....	3,348	70	1,952	175	1,018	3	130
P.R. ....	24,364	1,123	—	264	18,289	83	4,605
V.I. ....	16,463	10,612	—	—	2,608	122	3,121

\* Included In Other Bacteriology Specimens, Table 4-10

Table 4-2  
I. DIAGNOSTIC BACTERIOLOGY  
A. Nasopharyngeal Specimens

Lab & Region	Number of Specimens	1. Streptococcus Beta Hemolytic, Group A					
		Procedures Used					
		Culture	FA	Sero-grouping	Sero-typing	Bacitracin Disc	Other
<b>Total</b> .....	<b>1,878,203</b>						
Average .....	39,129						
<b>New England</b> .....	<b>325,864</b>						
Conn. ....	85,504	X	X	X	--	X	--
Mass. ....	97,682	X	X	--	--	--	--
Me. ....	3,439	X	X	X	--	X	Coagulase activity — staphylococci
N.H. ....	42,649	X	X	--	--	--	--
R.I. ....	75,193	X	X	--	--	--	--
Vt. ....	21,397	X	X	X	--	--	--
<b>Middle Atlantic</b> .....	<b>55</b>						
N.J. ....	--	--	--	--	--	--	--
N.Y. ....	--	--	--	--	--	--	--
Pa. ....	55	X	--	X	--	--	--
<b>East North Central</b> .....	<b>442,123</b>						
Ill. ....	36,996	X	--	--	--	--	--
Ind. ....	--	--	--	--	--	--	--
Mich. ....	143,424	X	--	X	--	X	--
Ohio ....	247,430	X	X	X	--	--	--
Wisc. ....	14,218	X	X	--	--	X	--
<b>West North Central</b> .....	<b>222,888</b>						
Ia. ....	48,163	X	X	--	--	--	--
Kans. ....	20,162	X	X	--	--	--	--
Minn. ....	--	--	--	--	--	--	--
Mo. ....	111,321	X	X	X	--	X	--
Nebr. ....	4,133	X	X	X	X	X	--
N.D. ....	23,507	X	X	--	--	--	--
S.D. ....	15,602	X	X	--	--	--	--
<b>South Atlantic</b> .....	<b>164,906</b>						
Del. ....	796	X	X	--	--	X	--
D.C. ....	6,767	X	--	--	--	X	--
Fla. ....	18,960	X	--	--	--	X	--
Ga. ....	15,794	--	X	--	--	--	--
Md. ....	31,943	X	--	X	--	X	--
N.C. ....	1,036	X	X	X	--	--	--
S.C. ....	4,186	X	X	X	--	--	--
Va. ....	37,523	X	X	X	--	X	--
W. Va. ....	47,901	X	X	--	--	--	--
<b>East South Central</b> .....	<b>235,407</b>						
Ala. ....	48,082	X	X	--	--	--	--
Ky. ....	2,750	X	X	X	--	--	--
Miss. ....	41,180	X	X	--	--	--	--
Tenn. ....	143,395	--	X	--	--	--	--
<b>West South Central</b> .....	<b>56,063</b>						
Ark. ....	16,161	X	X	X	X	--	--
La. ....	3,827	X	X	X	--	--	--
Okla. ....	26,252	X	X	--	--	--	--
Tex. ....	9,823	X	X	X	--	X	--
<b>Mountain</b> .....	<b>379,426</b>						
Ariz. ....	246	X	X	X	X	--	Biochemicals
Colo. ....	138,600	X	X	--	--	--	--
Ida. ....	2,169	X	X	--	--	X	--
Mont. ....	1,041	X	--	X	--	--	--
Nev. ....	219	X	--	--	--	X	--
N.M. ....	7,964	X	X	X	--	X	--
Utah ....	35,920	X	X	--	--	--	--
Wyo. ....	193,267	X	X	--	--	--	--
<b>Pacific</b> .....	<b>49,730</b>						
Alaska ....	--	--	--	--	--	--	--
Cal. ....	--	X	X	X	X	--	--
Hawaii ....	43,310	X	X	X	X	X	--
Ore. ....	5,723	X	X	--	--	--	--
Wash. ....	697	X	X	--	--	--	--
<b>Territories</b> .....	<b>1,741</b>						
Guam ....	6	X	--	--	--	X	--
P.R. ....	1,123	--	X	--	--	--	--
V.I. ....	612	X	X	X	X	X	--

Table 4-3  
I. DIAGNOSTIC BACTERIOLOGY  
A. Nasopharyngeal Specimens

Lab & Region	2. Diphtheria				
	Number of Specimens	Procedures Used			
		Direct Smear	Culture	Confirm. Sugars	Toxo- genicity
<b>Total</b> .....	<b>25,549</b>				
Average .....	639				
<b>New England</b> .....	<b>43</b>				
Conn. ....	18	—	X	X	X
Mass. ....	10	—	—	—	—
Me. ....	—	—	—	—	—
N.H. ....	—	—	—	—	—
R.I. ....	5	X	X	X	X
Vt. ....	10	X	X	X	X
<b>Middle Atlantic</b> .....	<b>1</b>				
N.J. ....	—	—	—	—	—
N.Y. ....	—	—	—	—	—
Pa. ....	1	—	X	X	X
<b>East North Central</b> .....	<b>497</b>				
Ill. ....	128	X	X	X	X
Ind. ....	23	X	X	X	X
Mich. ....	2	—	X	X	X
Ohio ....	287	—	X	X	X
Wisc. ....	57	X	X	X	X
<b>West North Central</b> .....	<b>5,063</b>				
Ia. ....	2	X	X	X	X
Kans. ....	5	X	X	X	X
Minn. ....	31	—	X	—	X
Mo. ....	26	X	X	X	X
Nebr. ....	38	X	X	X	X
N.D. ....	2	—	X	—	—
S.D. ....	4,418	X	X	X	X
<b>South Atlantic</b> .....	<b>18,996</b>				
Del. ....	—	—	—	—	—
D.C. ....	—	—	—	—	—
Fla. ....	18,960	—	X	X	X
Ga. ....	—	—	—	—	—
Md. ....	4	X	X	X	X
N.C. ....	*	X	X	X	—
S.C. ....	—	—	—	—	—
Va. ....	32	X	X	X	X
W. Va. ....	3	—	X	—	—
<b>East South Central</b> .....	<b>302</b>				
Ala. ....	246	X	X	—	X
Ky. ....	37	X	X	X	X
Miss. ....	9	—	X	X	X
Tenn. ....	10	X	X	X	X
<b>West South Central</b> .....	<b>72</b>				
Ark. ....	19	X	X	X	—
La. ....	40	—	X	—	—
Okla. ....	5	X	X	X	X
Tex. ....	8	—	X	—	X
<b>Mountain</b> .....	<b>144</b>				
Ariz. ....	47	X	X	X	X
Colo. ....	12	X	X	X	X
Ida. ....	12	X	X	X	X
Mont. ....	12	—	X	X	—
Nev. ....	—	X	X	X	—
N.M. ....	53	X	X	X	X
Utah ....	8	X	X	X	X
Wyo. ....	—	—	—	—	—
<b>Pacific</b> .....	<b>430</b>				
Alaska ....	—	—	—	—	—
Cal. ....	5	X	X	X	X
Hawaii ....	15	X	X	X	X
Ore. ....	16	X	X	X	X
Wash. ....	394	X	X	X	X
<b>Territories</b> .....	<b>1</b>				
Guam ....	1	—	X	—	—
P.R. ....	—	—	—	—	—
V.I. ....	—	X	X	—	—

\*Included In Other Bacteriology Specimens, Table 4-10



**Table 4-4**  
**I. DIAGNOSTIC BACTERIOLOGY**  
**A. Nasopharyngeal Specimens**

Lab & Region	3. Pertussis					
	Number of Specimens	Culture	FA	Serological	Biochemicals	Other
<b>Total</b> .....	<b>16,070</b>					
Average .....	374					
<b>New England</b> .....	<b>325</b>					
Conn. ....	52	X	X	X	X	—
Mass. ....	174	X	X	—	X	—
Me. ....	82	—	X	—	—	—
N.H. ....	—	—	—	—	—	—
R.I. ....	5	X	X	—	X	—
Vt. ....	12	X	X	—	—	—
<b>Middle Atlantic</b> .....	<b>22</b>					
N.J. ....	1	X	—	—	—	—
N.Y. ....	—	—	—	—	—	—
Pa. ....	21	X	X	—	X	—
<b>East North Central</b> .....	<b>2,054</b>					
Ill. ....	1,141	X	X	—	X	—
Ind. ....	31	—	X	—	—	—
Mich. ....	458	X	X	—	—	—
Ohio ....	188	X	X	—	X	—
Wisc. ....	214	X	X	—	X	—
<b>West North Central</b> .....	<b>545</b>					
Ia. ....	5	X	X	—	—	—
Kans. ....	26	X	X	X	X	—
Minn. ....	87	X	X	X	X	—
Mo. ....	348	X	X	X	—	—
Nebr. ....	23	X	X	X	X	—
N.D. ....	3	X	X	—	—	—
S.D. ....	53	X	—	—	—	—
<b>South Atlantic</b> .....	<b>1,353</b>					
Del. ....	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—
Fla. ....	197	—	X	—	—	—
Ga. ....	826	X	X	—	X	—
Md. ....	87	X	X	—	X	—
N.C. ....	184	X	X	—	X	—
S.C. ....	3	X	X	—	X	—
Va. ....	25	—	X	—	—	—
W. Va. ....	31	—	X	—	—	—
<b>East South Central</b> .....	<b>939</b>					
Ala. ....	23	X	X	—	—	—
Ky. ....	91	—	X	—	—	—
Miss. ....	28	—	X	—	—	—
Tenn. ....	797	X	X	—	—	Agglutinations
<b>West South Central</b> .....	<b>542</b>					
Ark. ....	187	X	—	—	X	—
La. ....	117	X	—	—	—	—
Okla. ....	186	X	X	—	—	—
Tex. ....	52	—	—	—	—	—
<b>Mountain</b> .....	<b>169</b>					
Ariz. ....	3	X	—	—	—	—
Colo. ....	2	X	X	—	—	—
Ida. ....	41	X	X	—	X	—
Mont. ....	73	—	—	—	—	—
Nev. ....	—	X	—	X	X	—
N.M. ....	*	X	X	—	X	—
Utah ....	50	X	X	—	X	—
Wyo. ....	—	—	—	—	—	—
<b>Pacific</b> .....	<b>121</b>					
Alaska ....	—	—	—	—	—	—
Cal. ....	—	X	X	X	X	—
Hawaii ....	3	X	X	—	—	—
Ore. ....	115	X	X	—	—	—
Wash. ....	3	X	X	—	—	—
<b>Territories</b> .....	<b>10,000</b>					
Guam ....	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—
V.I. ....	10,000	—	—	X	—	—

\*Included in Other Bacteriology Specimens, Table 4-10

**Table 4-5**  
**I. DIAGNOSTIC BACTERIOLOGY**  
**A. Nasopharyngeal Specimens**

<b>4. Other Nasopharyngeal Specimens</b>		
<b>Lab</b>	<b>Number of Specimens</b>	<b>Disease - Procedures Used</b>
<b>Total</b> .....	<b>54,530</b>	
<b>Average</b> .....	<b>2,727</b>	
Cal. ....	218	Infant botulism - Culture, biochemicals, animal inoculation; Legionnaires' disease - culture, biochemicals, FA, animal inoculation; miscellaneous blood cultures
Conn. ....	79	Vincent's Infection - smear - Crystal Violet
Guam ....	63	Sputum for fungus sp. - Sabouraud, 37° and room temperature; Sputum for general bacteria - culture and sensitivity
Hawaii ....	93	Meningococcus - culture, identification; Staphylococcus - culture, coagulase; Leptospiae - culture, darkfield; H. influenzae - culture, identification
Kans. ....	184	Nasopharyngitis - smear, culture, biochemicals, serogrouping, serotyping
La. ....	545	Legionnaires' disease - FA; Plague - animal inoculation
Me. ....	404	Hemophilus influenzae - typing and factors; Neisseria meningitidis - culture and typing; Gram negative non-fermenters - biochemical identification; Miscellaneous streptococci - biochemical identification
Md. ....	8,623	Bacteremia - culture; Bacterial; other - culture
Mass. ....	41	Meningococcal contacts or infections - culture, biochemical, serogrouping
Mich. ....	102	Vincent's Angina - slide
Minn. ....	1,905	Referred cultures for identification - smear, biochemical, serological, animal patho/toxin
Mo. ....	36	B. lact. (H. influenzae) - iodometric
N.D. ....	4	Hemophilus - culture
Ohio ....	4,905	Staphylococcus - culture, phage typing; aerobic non-fermenters - culture; aerobic gram positive bacteria - culture
Okla. ....	17	Vincent's Angina - microscopic exam; Staphylococcal disease - culture
Ore. ....	212	Miscellaneous URI - isolation, culture identification
R.I. ....	50	Vincent's Angina - smear; N. meningitidis - culture, biochemical; Pneumococcus - culture, biochemical; Staphylococcus, culture, biochemical; H. influenzae - culture, biochemical
S.C. ....	50	Gram positive and gram negative rods, staphylococci - standard biochemical techniques
Tex. ....	8,465	Staphylococcus - phage typing
Va. ....	1,127	Meningitidis, Pneumococcus, H. influenzae, Staphylococcus (Phage)
V.I. ....	-	S. pneumoniae - culture
W. Va. ....	142	Staphylococcus, Meningococcus, Miscellaneous N-T-Culture

Table 4-6  
I. DIAGNOSTIC BACTERIOLOGY  
B. Mycobacterial Specimens

Lab & Region	Number of Specimens	Procedures Used							
		Direct Smear	Concentrate Smear	Culture	Direct Suscept. # of Drugs	Indirect Suscept. # of Drugs	# of Bio-chemicals	Species Ident.	Other
<b>Total</b> .....	<b>511,219</b>								
Average .....	10,877								
<b>New England</b> .....	<b>20,011</b>								
Conn. ....	6,224	—	X	X	—	9	14	X	—
Mass. ....	—	—	—	—	—	—	—	—	—
Me. ....	4,507	—	X	X	X	X	X	X	Atypical and/or classified
N.H. ....	10,451	X	X	X	—	—	—	—	—
R.I. ....	1,347	—	X	X	—	7	12	X	—
Vt. ....	1,585	—	X	X	6	6	12	X	—
<b>Middle Atlantic</b> .....	<b>30,148</b>								
N.J. ....	18,364	X	X	X	4	4	11	X	—
N.Y. ....	—	—	—	—	—	—	—	—	—
Pa. ....	11,784	—	X	X	5	9	12	—	—
<b>East North Central</b> .....	<b>37,639</b>								
Ill. ....	7,402	X	X	X	—	5	9	X	—
Ind. ....	3,763	—	X	X	6	6	7	X	Growth, pigment formation
Mich. ....	15,647	—	X	X	—	—	—	X	—
Ohio ....	5,860	—	X	X	10	10	9	X	—
Wisc. ....	4,967	X	X	X	7	7	10	X	—
<b>West North Central</b> .....	<b>31,176</b>								
Ia. ....	2,896	X	X	X	8	8	14	X	—
Kans. ....	5,801	—	X	X	6	6	16	X	—
Minn. ....	13,716	—	X	X	X	3	15	X	Drug susceptibility
Mo. ....	—	—	—	—	—	—	—	—	—
Nebr. ....	727	X	X	X	5	5	11	X	—
N.D. ....	4,235	—	X	X	4	4	13	X	—
S.D. ....	3,801	X	X	X	3	3	5	X	—
<b>South Atlantic</b> .....	<b>145,629</b>								
Del. ....	—	—	—	—	—	—	—	—	—
D.C. ....	2,196	—	X	X	—	7	10	X	—
Fla. ....	52,412	—	X	X	—	7	12	X	—
Ga. ....	24,258	—	X	X	5	5	11	X	—
Md. ....	18,150	X	X	X	5	9	3-12	X	—
N.C. ....	14,563	—	X	X	4	4	8	X	—
S.C. ....	12,851	—	X	X	7	7	10	X	—
Va. ....	12,793	—	X	X	—	4	12	—	—
W. Va. ....	8,406	—	X	X	5	5	7	X	—
<b>East South Central</b> .....	<b>98,891</b>								
Ala. ....	38,542	X	X	X	9	9	14	X	Animal inoculation
Ky. ....	15,459	—	X	X	9	9	9	X	Fluorochrome smear
Miss. ....	23,167	—	X	X	—	7	6	X	—
Tenn. ....	21,723	X	X	X	—	6	10	X	—
<b>West South Central</b> .....	<b>92,672</b>								
Ark. ....	21,633	—	X	X	6	6	10	X	—
La. ....	12,467	X	X	X	—	5	14	X	—
Okla. ....	10,373	—	X	X	—	5	12	X	—
Tex. ....	48,199	—	X	X	7	7	10	X	—
<b>Mountain</b> .....	<b>25,288</b>								
Ariz. ....	8,247	X	X	X	8	8	10	X	—
Colo. ....	1,864	—	X	X	—	—	2	X	—
Ida. ....	2,002	X	X	X	6	6	11	X	—
Mont. ....	2,873	X	X	X	7	7	9	X	—
Nev. ....	2,003	X	X	X	—	11	5	X	—
N.M. ....	6,548	—	X	X	4	4	6	X	—
Utah ....	1,471	X	X	X	3	6	12	X	—
Wyo. ....	280	X	X	X	—	—	—	—	—
<b>Pacific</b> .....	<b>23,710</b>								
Alaska ....	—	—	—	—	—	—	—	—	—
Cal. ....	1,392	—	X	X	5	5-9	10	X	—
Hawaii ....	11,657	X	X	X	5	5	10	X	—
Ore. ....	3,275	X	X	X	—	—	13	X	—
Wash. ....	7,386	—	X	X	84	74	222	X	—
<b>Territories</b> .....	<b>1,952</b>								
Guam ....	1,952	X	—	X	—	—	—	—	—
P.R. ....	—	—	—	—	—	—	—	—	—
V.I. ....	—	X	X	X	—	—	4	—	—

Table 4-7  
I. DIAGNOSTIC BACTERIOLOGY  
C. Enteric Specimens

Lab & Region	Number of Specimens	Procedures Used							
		Primary Plating	Enrichment Plating	Bio-chemicals	FA	Sero-grouping	Sero-typing	Phage Typing, S. Typhi	Other
<b>Total</b> .....	<b>218,355</b>								
Average .....	4,281								
<b>New England</b> .....	<b>22,968</b>								
Conn. ....	6,255	X	X	X	X	X	X	—	Mouse Toxicity Testing (anaerobe)
Mass. ....	10,270	X	X	X	—	X	X	—	—
Me. ....	664	X	X	X	—	X	—	—	—
N.H. ....	1,784	X	X	X	X	X	—	—	—
R.I. ....	2,498	X	X	X	—	X	X	—	—
Vt. ....	1,497	X	X	X	—	X	X	—	—
<b>Middle Atlantic</b> .....	<b>18,680</b>								
N.J. ....	7,493	X	X	X	—	X	X	—	Kirby Bauer Susceptibility
N.Y. ....	—	—	—	—	—	—	—	—	—
Pa. ....	11,187	X	X	X	—	X	X	X	—
<b>East North Central</b> .....	<b>31,763</b>								
Ill. ....	6,969	X	X	X	—	X	X	X	—
Ind. ....	2,338	X	X	X	—	X	X	X	—
Mich. ....	12,366	X	X	X	—	X	X	—	—
Ohio ....	2,673	X	X	X	—	X	X	—	—
Wisc. ....	7,417	X	X	X	—	X	X	—	—
<b>West North Central</b> .....	<b>17,496</b>								
Ia. ....	1,381	X	X	X	X	X	X	—	—
Kans. ....	4,646	X	X	X	—	X	X	—	—
Minn. ....	5,145	X	X	X	—	X	X	X	Microscopic
Mo. ....	2,725	X	X	X	—	X	X	—	—
Nebr. ....	424	X	X	X	—	X	—	—	—
N.D. ....	2,246	X	X	X	—	X	X	—	—
S.D. ....	929	X	X	X	—	X	X	—	—
<b>South Atlantic</b> .....	<b>57,830</b>								
Del. ....	697	X	X	X	—	X	X	—	—
D.C. ....	2,615	X	X	X	—	X	X	—	—
Fla. ....	25,003	X	X	X	—	X	X	—	—
Ga. ....	6,630	X	X	X	—	X	X	—	—
Md. ....	8,487	X	X	X	—	X	X	—	Sensitivities
N.C. ....	4,666	X	X	X	—	X	X	—	—
S.C. ....	1,564	X	X	X	—	X	X	—	—
Va. ....	7,692	X	X	X	—	X	X	—	—
W. Va. ....	476	X	X	X	—	X	X	—	—
<b>East South Central</b> .....	<b>18,907</b>								
Ala. ....	4,846	X	X	X	—	X	X	—	—
Ky. ....	1,727	X	X	X	—	X	X	X	—
Miss. ....	5,624	X	X	X	X	X	X	—	Subculture
Tenn. ....	6,710	X	X	X	—	X	X	—	—
<b>West South Central</b> .....	<b>26,321</b>								
Ark. ....	2,556	X	X	X	—	X	X	—	—
La. ....	5,309	X	X	X	—	X	X	X	—
Okla. ....	1,841	X	X	X	—	X	X	—	—
Tex. ....	16,615	X	X	X	—	X	X	X	—
<b>Mountain</b> .....	<b>10,772</b>								
Ariz. ....	2,275	X	X	X	X	X	X	—	—
Colo. ....	1,656	X	X	X	—	X	X	—	—
Ida. ....	829	X	X	X	—	X	X	—	—
Mont. ....	407	X	X	X	—	X	—	—	—
Nev. ....	356	X	X	X	—	X	—	—	—
N.M. ....	2,616	X	X	X	—	X	X	—	—
Utah ....	2,586	X	X	X	—	X	X	—	Antibiotic sensitivities
Wyo. ....	47	X	X	X	—	X	—	—	—
<b>Pacific</b> .....	<b>13,179</b>								
Alaska .....	—	—	—	—	—	—	—	—	—
Cal. ....	354	X	X	X	X	X	X	X	S. typhi bacteriophage typing, sensitivity tests, Campylobacter isolation
Hawaii .....	8,029	X	X	X	—	X	X	X	—
Ore. ....	2,010	X	X	X	X	X	X	—	—
Wash. ....	2,786	X	X	X	—	X	X	—	—
<b>Territories</b> .....	<b>439</b>								
Guam .....	175	X	X	X	—	X	X	—	—
P.R. ....	264	X	X	X	X	X	—	—	—
V.I. ....	—	X	X	X	—	X	X	—	—

Table 4-8  
I. DIAGNOSTIC BACTERIOLOGY  
D. Gonococcus Specimens

Lab & Region	Number of Specimens	Procedures Used						
		Smear	Culture	Oxidase Reaction	FA	Bio-chemical	Beta-Lactamase	Other
<b>Total</b> .....	<b>4,777,785</b>							
Average .....	91,880							
<b>New England</b> .....	<b>249,343</b>							
Conn. ....	26,784	X	X	X	X	X	X	—
Mass. ....	61,803	X	X	X	X	X	X	—
Me. ....	37,439	X	X	X	X	X	X	—
N.H. ....	49,110	X	X	X	X	X	X	—
R.I. ....	59,627	X	X	X	X	X	X	—
Vt. ....	14,580	X	X	X	X	X	X	—
<b>Middle Atlantic</b> .....	<b>211,290</b>							
N.J. ....	211,250	X	X	X	—	X	X	—
N.Y. ....	—	—	—	—	—	—	—	—
Pa. ....	40	X	X	X	—	X	—	—
<b>East North Central</b> ....	<b>373,112</b>							
Ill. ....	128,908	X	X	X	—	X	—	—
Ind. ....	4,742	X	X	X	X	X	X	—
Mich. ....	144,491	X	X	X	—	X	X	—
Ohio ....	77,623	X	X	X	X	X	X	—
Wisc. ....	17,348	X	X	X	—	X	X	—
<b>West North Central</b> ....	<b>324,994</b>							
Ia. ....	75,661	X	X	X	X	X	—	Kirby Bauer
Kans. ....	39,245	X	X	X	X	X	X	—
Minn. ....	102,577	X	X	X	X	X	X	—
Mo. ....	72,298	X	X	X	X	X	X	—
Nebr. ....	21,689	X	X	X	X	X	X	Phagebact
N.D. ....	6,032	X	X	X	—	X	X	—
S.D. ....	7,492	X	X	X	X	X	X	—
<b>South Atlantic</b> .....	<b>1,569,368</b>							
Del. ....	29,769	X	X	X	—	X	X	—
D.C. ....	94,586	X	X	—	—	—	—	Phagebact co-agglutination
Fla. ....	530,713	X	X	X	—	X	X	—
Ga. ....	218,464	X	X	X	X	X	X	—
Md. ....	339,460	X	X	X	X	X	X	—
N.C. ....	365	X	X	X	X	X	X	—
S.C. ....	214,971	X	X	X	X	X	X	—
Va. ....	88,289	X	X	—	—	—	—	—
W. Va. ....	52,751	X	X	X	X	X	X	—
<b>East South Central</b> ....	<b>778,092</b>							
Ala. ....	353,411	X	X	X	X	X	X	X
Ky. ....	9,651	X	X	X	X	X	X	—
Miss. ....	179,077	X	X	X	—	X	X	Gram stain and culture, drug susceptibility
Tenn. ....	235,953	X	X	X	X	—	—	—
<b>West South Central</b> ....	<b>865,005</b>							
Ark. ....	75,958	X	X	X	—	X	X	—
La. ....	86,334	X	X	X	—	X	X	—
Okla. ....	96,074	X	X	X	X	X	X	—
Tex. ....	606,639	X	X	X	X	X	X	—
<b>Mountain</b> .....	<b>229,640</b>							
Ariz. ....	10,063	X	X	X	X	X	—	—
Colo. ....	36,037	X	X	X	X	X	X	—
Ida. ....	29,565	X	X	X	X	X	X	—
Mont. ....	13,877	X	X	X	X	X	X	—
Nev. ....	36,420	X	X	X	—	X	X	—
N.M. ....	79,568	X	X	X	X	X	X	—
Utah ....	21,167	X	X	X	X	X	X	—
Wyo. ....	2,943	X	X	X	X	X	—	—
<b>Pacific</b> .....	<b>155,026</b>							
Alaska ....	—	—	—	—	—	—	—	—
Cal. ....	13,253	X	X	X	X	X	X	—
Hawaii ....	119,373	X	X	X	X	X	X	—
Ore. ....	1,472	X	X	X	X	X	X	—
Wash. ....	20,928	X	X	X	X	X	X	—
<b>Territories</b> .....	<b>21,915</b>							
Guam ....	1,018	X	X	X	—	X	—	Penicillin 10 units sensitivity testing
P.R. ....	18,289	X	X	X	X	X	X	—
V.I. ....	2,608	X	X	X	—	X	—	—

Table 4-9  
I. DIAGNOSTIC BACTERIOLOGY  
E. Anaerobic Specimens

Lab & Region	Number of Specimens	Techniques Used		Procedures Used						
		Preduced Media	Gas Chromatography	Gram Stain	Plating	Subculture	Biochemical	FA	GLC	Other
<b>Total</b> .....	<b>13,579</b>									
Average .....	295									
<b>New England</b> .....	<b>517</b>									
Conn. ....	97	—	X	X	X	X	X	X	X	—
Mass. ....	128	X	X	X	X	X	X	—	X	—
Me. ....	160	X	X	X	X	X	X	—	X	—
N.H. ....	—	—	—	—	—	—	—	—	—	—
R.I. ....	20	X	—	X	X	X	X	—	—	—
Vt. ....	112	X	X	X	X	X	X	X	X	—
<b>Middle Atlantic</b> .....	<b>145</b>									
N.J. ....	99	—	—	X	X	—	X	—	—	—
N.Y. ....	—	—	—	—	—	—	—	—	—	—
Pa. ....	46	—	—	X	X	X	X	—	X	—
<b>East North Central</b> .....	<b>1,730</b>									
Ill. ....	262	—	X	X	X	X	X	—	X	—
Ind. ....	185	—	—	X	—	—	X	—	X	—
Mich. ....	174	X	X	X	X	X	X	—	X	—
Ohio ....	460	X	X	X	X	X	X	—	X	Senslivity testing, animal inoculation
Wisc. ....	649	X	X	X	X	X	X	X	X	—
<b>West North Central</b> .....	<b>1,251</b>									
Ia. ....	316	X	X	X	X	X	X	X	X	—
Kans. ....	360	X	X	X	X	X	X	—	X	—
Minn. ....	159	—	—	X	X	X	X	—	—	Animal toxogenicity, Serology
Mo. ....	76	—	X	—	X	X	X	—	X	—
Nebr. ....	—	—	—	—	—	—	—	—	—	—
N.D. ....	239	X	—	X	X	X	X	—	—	—
S.D. ....	101	X	—	X	X	X	X	—	—	—
<b>South Atlantic</b> .....	<b>3,567</b>									
Del. ....	—	—	—	—	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—	—	—	—	—
Fla. ....	904	X	X	X	X	X	X	—	X	—
Ga. ....	997	—	X	X	X	X	X	—	X	—
Md. ....	543	X	X	X	X	X	X	—	X	—
N.C. ....	351	X	X	X	X	X	X	—	X	—
S.C. ....	453	X	X	X	X	X	X	X	X	Flagellar stains
Va. ....	309	X	—	X	X	X	X	—	—	—
W. Va. ....	10	X	—	—	—	—	—	—	—	—
<b>East South Central</b> .....	<b>1,509</b>									
Ala. ....	322	—	—	X	X	X	X	X	—	Animal inoculation
Ky. ....	35	—	X	X	X	X	X	—	X	—
Miss. ....	*	X	—	X	X	X	X	—	—	—
Tenn. ....	1,152	X	X	X	X	X	X	—	X	Toxin Studies
<b>West South Central</b> .....	<b>2,202</b>									
Ark. ....	218	X	X	X	X	X	X	—	X	—
La. ....	1,115	X	—	X	X	X	X	—	—	—
Okla. ....	99	X	X	X	X	X	X	X	X	—
Tex. ....	770	X	X	X	X	X	X	X	X	—
<b>Mountain</b> .....	<b>941</b>									
Ariz. ....	518	X	X	X	X	X	X	X	X	—
Colo. ....	96	X	—	X	X	X	X	—	—	—
Ida. ....	79	X	X	X	X	X	X	—	X	—
Mont. ....	150	—	—	—	—	—	—	—	—	—
Nev. ....	25	X	—	X	X	X	X	—	—	—
N.M. ....	52	X	X	X	X	X	—	—	X	—
Utah ....	21	X	—	X	—	X	—	—	—	Identification of referred cultures
Wyo. ....	—	—	—	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>605</b>									
Alaska ....	—	—	—	—	—	—	—	—	—	—
Cal. ....	109	X	X	X	X	X	X	X	X	—
Hawaii ....	216	—	—	—	—	—	—	—	—	—
Ore. ....	59	X	X	X	X	X	X	X	X	—
Wash. ....	221	X	X	X	X	X	X	—	X	Antibiograms, mouse toxicity testing
<b>Territories</b> .....	<b>208</b>									
Guam ....	3	X	—	X	X	X	X	—	—	—
P.R. ....	83	X	—	X	X	X	X	—	—	—
V.I. ....	122	X	—	X	X	X	X	—	X	—

\*Included in other bacteriology specimens, Table 4-10

**Table 4-10**  
**I. DIAGNOSTIC BACTERIOLOGY**  
**F. Other Bacteriology Specimens**

Lab	Number Of Specimens	Disease — Procedures Used
<b>Total</b> .....	<b>166,312</b>	
<b>Average</b> .....	<b>3,423</b>	
Ala. ....	3,396	Pathogenic E. coli — FA; Staphylococcus, reference bacteriology, Brucella — culture
Ark. ....	434	Blood culture, Spinal fluids, Staphylococcus, Legionnaires' Disease
Ariz. ....	505	Miscellaneous bacteria — culture, Isolation, biopsy, identification
Cal. ....	7,514	Plague — culture, animal inoculation, bacteriophage, FA; relapsing fever — stained smears, animal inoculation Reference cultures for identification — Mycobacteriology, including drug susceptibility tests; Mycology; enteric bacteriology, including drug susceptibility tests; aerobic bacteriology
Colo. ....	435	Miscellaneous reference specimens, e.g., Pasteurella sp., N. meningitis, Listeria, Haemophilus, Campylobacter — Gram Stain, plating, subcultures, biochemical, Serogrouping.
Conn. ....	7,295	Phage — Staph phage typing; Trichomonas/Candida-Smear, Giemsa; Clinical specimens (misc.) — Culture, Biochemicals; Referred Cultures — Culture, Biochemicals, Serology
Del. ....	1,020	Urine cultures, reference cultures for identification.
D.C. ....	6,338	Urinary tract infections — Culture ("Testuris"), miscellaneous exudates, skin lesions, vaginals (non-GC), etc.
Fla. ....	9,223	Miscellaneous Infections
Ga. ....	3,530	Miscellaneous clinical specimens, Referred cultures for identification — Gram stain, plating, subculture, biochemical, GLC.
Guam .....		Urine — general bacterial culture; vaginal, cervical, urethral — general bacterial culture; miscellaneous (wounds, etc.) general bacterial culture; cervical — T and M
Hawaii .....	5,728	Staph phage; antibiotic sensitivity — Kirby Bauer; non-human enterics — culture, identification; leptospirosis — culture, identification; reference specimens — sub-culture, appropriate identification procedures
Ida. ....	410	Most communicable diseases — most cultural and serological techniques
Ill. ....	2,468	Miscellaneous Infections — Smear, biochemicals; Staphylococcus infections — phage typing
Ind. ....	825	Nosocomial Staphylococcal infections — phage typing, aerobic bacterial infections — culture identification
Ia. ....	5,534	Miscellaneous wounds, infections-microscopy; body fluids, urine — serotyping; toxin studies, gas chromatography; Salmonella, Flagellar strains — Kirby Bauer
Kans. ....	2,304	Staphylococcal infections — culture, coagulase, biochemicals, phage typing; Vincent's Angina — smear; bacterial meningitis and pneumonias, septicemia and other miscellaneous infections — smear, culture, biochemicals, serogrouping, serotyping, and when requested antibiotic sensitivities; Legionnaires' Disease — smear, culture, direct FA, biochemicals
Ky. ....	633	Staph bacteriophage — Smear, Coagulase, phage typing miscellaneous cultures — smear, biochemicals, coagulase, serogrouping
La. ....	1,665	Cultures for identification — biochemical, serotyping
Md. ....	604	Referred cultures for identification.
Mass. ....	2,337	Miscellaneous Infections and reference cultures — microscopic, culture, biochemicals, serogrouping, serotyping, FA, special stains; Legionnaires' disease — culture, FA.
Mich. ....	12,351	Transudates/exudates — isolation; saliva cultures — Lactobacilli; urine cultures — culture; staphylococci — phage typing; aerobic referred cultures — identification; miscellaneous — culture
Minn. ....	403	Leptospirosis — microscopic; botulism — culture; Vincent's angina — serology; Blood, spinal fluid, tissues, etc., food poisoning (bacterial) — animal patho/toxins

**Table 4-10**  
**I. DIAGNOSTIC BACTERIOLOGY**  
**F. Other Bacteriology Specimens – Continued**

Lab	Number Of Specimens	Disease – Procedures Used
Miss. ....	3,119	Salmonella (waters) — primary plating, enrichment plating, biochemicals, serogrouping, serotyping, subculture. Miscellaneous cultures — plating, selective subculture, biochemicals Blood cultures — culture, plating, biochemicals Urine cultures — plating, subculture, biochemicals, bacterial sensitivity testing Spinal fluid — plating, biochemicals, Gram stain, agglutination
Mo. ....	983	Reference cultures — Gram stain, plating, subculture, biochemicals, FH when applicable, enrichment plating, serogrouping, serotyping
Mont. ....	513	Special determinative bacteriology
Nev. ....	873	Urine infection; eye, ear, etc. infection; vaginitis — culture
N.H. ....	2,526	Miscellaneous cultures for various bacteria — variable, but use CDC procedures.
N.J. ....	859	NFB predominantly — all organisms not GC, TB, enteric, or mycology — oxidative or fermentative biochemicals; Hemophilus infections — modified Kirby Bauer.
N.M. ....	4,214	Pertussis — direct FA; plaque — direct FA; Staphylococcal infections — cultures, with phage typing if indicated; nosocomial infections (monitoring — preventive) — sterility spore test.
N.C. ....	1,759	Reference specimens (all types) — smear culture, biochemicals, serotyping; clinical specimens (all types) other than fecal and throat swab for strep. — smear culture, biochemicals, serotyping.
N.D. ....	20,552	Blood and urine, susceptibility tests, miscellaneous, reference
Okla. ....	1,470	Urinary tract infections — culture Bacteremia — culture and serology Meningitis — culture and serology Wounds — culture and serology Legionnaires' Disease — direct FA Hemophilus infections — culture and serology Tularemia — culture and direct FA Leptospirosis — culture and darkfield exam
Ohio ....	4,313	Mycoplasma inf. — culture; urea plasma inf. — culture; Legionnaires' disease — culture, FA; Leptospirosis — culture, referred cultures — culture, biochemical; aerobic — serological
Ore. ....	430	Miscellaneous specimens for identification
Pa. ....	881	Bacterial infections other than mycobacteria — standard bacteriologic techniques; Food poisoning — Bacterial analytical manual (BAM); Botulism — Mouse neutralization.
R.I. ....	285	Miscellaneous reference cultures — culture, biochemical
S.C. ....	6,350	Diseases caused by miscellaneous Gram positive and Gram negative organisms — FA, biochemicals, serological tests, special stains, antibiograms
S.D. ....	585	—
Tenn. ....	1,995	Aerobic identification — primary plating, enrichment plating, biochemical differentiation, serotyping, serogrouping, toxin studies, Gram stain
Tex. ....	31,490	Reference cultures — aerobic; urine cultures — aerobic; miscellaneous wounds and lesions — aerobic
Utah ....	250	Meningitis — culture, typing (agglutination); Legionnaires' disease — direct FA; infant botulism — culture, mouse inoculation, toxin neutralization; referred cultures for identification.
Va. ....	2,380	Dental caries, wounds, lesions, body fluid, sputum, urine, autopsy, misc. (blood), animal inoculation, H. ducreyII (smears), environmental, food
V.I. ....	3,121	Wound fluid exudates — aerobic and anaerobic primary plates, subculture, biochemicals; urine — primary plates, biochemicals; Sensitivity — aerobic and anaerobic biochemicals



**Table 4-10**  
**I. DIAGNOSTIC BACTERIOLOGY**  
**F. Other Bacteriology Specimens – Continued**

Lab	Number Of Specimens	Disease – Procedures Used
Wash. ....	1,677	Legionnaires' disease — stains, plating, embryonated eggs, Guinea pigs; meningitis — Gram stain, plating, serogrouping, subculture; paralytic shellfish poison — mouse inoculation
W. Va. ....	515	Urinary tract infection, Legionnaires' Disease, Leptospirosis, miscellaneous —culture
Wisc. ....	954	Legionnaires' disease — IFA, DFA, Culture, foodborne disease — smear, culture, toxin testing.

Table 4-11  
II. MYCOLOGY

Lab & Region	Number of Specimens	Procedures Used						
		Micro. Wet Mounts	Micro. Stains	Culture	FA	Bio-chemicals	Animal Inoculation	Other
<b>Total</b> .....	<b>59,566</b>							
Average .....	1,267							
<b>New England</b> .....	<b>2,904</b>							
Conn. ....	1,532	X	X	X	—	X	X	Differential Media
Mass. ....	671	X	X	X	—	X	—	—
Me. ....	271	X	X	X	—	X	—	—
N.H. ....	85	X	X	X	—	X	—	—
R.I. ....	88	X	X	X	—	X	—	—
Vt. ....	257	X	X	X	—	X	—	Slide culture
<b>Middle Atlantic</b> .....	<b>1,506</b>							
N.J. ....	1,238	X	X	X	—	X	—	—
N.Y. ....	—	—	—	—	—	—	—	—
Pa. ....	268	—	—	—	—	—	—	—
<b>East North Central</b> .....	<b>7,391</b>							
Ill. ....	1,210	X	X	X	—	X	X	—
Ind. ....	730	X	X	X	—	X	—	—
Mich. ....	1,915	X	X	X	—	X	X	—
Ohio ....	764	X	X	X	—	X	X	—
Wisc. ....	3,772	X	X	X	X	X	X	Susceptibility testing, drug bioassays
<b>West North Central</b> .....	<b>7,006</b>							
Ia. ....	1,120	X	X	X	X	X	X	—
Kans. ....	764	X	X	X	—	X	X	—
Minn. ....	3,923	X	X	X	—	X	X	Assimilation tests
Mo. ....	466	X	X	X	—	X	X	—
Nebr. ....	55	—	—	—	—	—	—	—
N.D. ....	523	—	—	—	—	—	—	—
S.D. ....	155	X	X	X	—	—	—	—
<b>South Atlantic</b> .....	<b>10,903</b>							
Del. ....	—	—	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—	—	—
Fla. ....	2,292	X	X	X	—	X	—	—
Ga. ....	807	X	X	X	—	X	X	—
Md. ....	2,343	X	X	X	—	X	—	—
N.C. ....	1,697	X	X	X	—	X	—	—
S.C. ....	1,683	X	X	X	X	X	X	Sensitivities (MIC), exoantigen (extract prep.), lysozyme test
Va. ....	1,632	X	X	X	—	X	X	X
W. Va. ....	449	X	X	X	—	X	X	—
<b>East South Central</b> .....	<b>8,660</b>							
Ala. ....	3,873	X	X	X	—	X	X	—
Ky. ....	276	X	X	X	—	X	X	—
Miss. ....	2,196	X	X	X	—	X	—	Hair culture
Tenn. ....	2,315	X	X	X	—	X	X	—
<b>West South Central</b> .....	<b>13,378</b>							
Ark. ....	1,836	X	X	X	—	X	—	—
La. ....	2,698	X	X	X	—	X	—	—
Okla. ....	3,925	X	X	X	—	X	X	—
Tex. ....	4,919	X	X	X	X	X	X	Micro. concentration, gel diffusion
<b>Mountain</b> .....	<b>5,155</b>							
Ariz. ....	1,502	X	X	X	—	X	X	In-vitro conversion
Colo. ....	262	X	X	X	—	—	—	—
Ida. ....	1,917	X	X	X	—	X	—	—
Mont. ....	344	X	X	X	—	X	—	—
Nev. ....	81	X	X	X	—	X	—	—
N.M. ....	751	X	X	X	—	X	X	—
Utah ....	298	X	X	X	—	X	X	—
Wyo. ....	—	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>1,335</b>							
Alaska ....	—	—	—	—	—	—	—	—
Cal. ....	55	X	X	X	X	X	X	—
Hawaii ....	776	X	X	X	—	X	—	—
Ore. ....	266	X	X	X	—	X	X	—
Wash. ....	238	—	X	X	—	X	X	Tease mounts
<b>Territories</b> .....	<b>1,328</b>							
Guam ....	—	—	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—	—	—
V.I. ....	1,328	X	X	X	—	X	—	—

Table 4-12  
**III. PARASITOLOGY**  
**SUMMARY OF SPECIMENS BY CATEGORY AND SUB-CATEGORY**

Lab & Region	Total Parasitology Specimens	A		B	
		Intestinal Specimens		Other Specimens	
<b>Total</b> .....	<b>297,285</b>	<b>282,230</b>		<b>13,919</b>	
Average .....	5,717	5,428		324	
<b>New England</b> .....	<b>17,011</b>	<b>15,811</b>		<b>55</b>	
Conn. ....	10,751	10,720		31	
Mass. ....	33	21		12	
Me. ....	183	183		—	
N.H. ....	1,145	1,142		3	
R.I. ....	2,307	2,305		2	
Vt. ....	1,447	1,440		7	
<b>Middle Atlantic</b> .....	<b>3,314</b>	<b>3,163</b>		<b>160</b>	
N.J. ....	2,893	2,858		44	
N.Y. ....	—	—		—	
Pa. ....	421	305		116	
<b>East North Central</b> .....	<b>13,306</b>	<b>13,211</b>		<b>95</b>	
Ill. ....	1,139	1,121		18	
Ind. ....	2,323	2,310		13	
Mich. ....	3,712	3,708		4	
Ohio ....	1,494	1,481		13	
Wisc. ....	4,638	4,591		47	
<b>West North Central</b> .....	<b>21,411</b>	<b>21,128</b>		<b>283</b>	
Ia. ....	2,033	2,012		21	
Kans. ....	5,230	5,214		16	
Minn. ....	10,798	10,567		231	
Mo. ....	1,362	1,351		11	
Nebr. ....	399	397		2	
N.D. ....	1,177	1,175		2	
S.D. ....	412	412		—	
<b>South Atlantic</b> .....	<b>125,259</b>	<b>122,485</b>		<b>2,774</b>	
Del. ....	210	204		6	
D.C. ....	294	293		1	
Fla. ....	59,700	59,677		23	
Ga. ....	22,749	20,126		2,623	
Md. ....	8,140	8,083		57	
N.C. ....	5,863	5,821		42	
S.C. ....	13,489	13,488		1	
Va. ....	12,186	12,184		2	
W. Va. ....	2,628	2,609		19	
<b>East South Central</b> .....	<b>45,682</b>	<b>45,383</b>		<b>299</b>	
Ala. ....	28,377	28,098		279	
Ky. ....	688	683		5	
Miss. ....	10,206	10,200		6	
Tenn. ....	6,411	6,402		9	
<b>West South Central</b> .....	<b>36,355</b>	<b>26,269</b>		<b>10,086</b>	
Ark. ....	1,387	1,382		5	
La. ....	18,767	18,763		4	
Okla. ....	5,616	2,832		2,784	
Tex. ....	10,585	3,292		7,293	
<b>Mountain</b> .....	<b>8,092</b>	<b>8,064</b>		<b>28</b>	
Ariz. ....	249	231		18	
Colo. ....	1,350	1,344		6	
Ida. ....	1,163	1,162		1	
Mont. ....	997	997		—	
Nev. ....	145	145		—	
N.M. ....	467	467		—	
Utah ....	3,648	3,645		3	
Wyo. ....	73	73		—	
<b>Pacific</b> .....	<b>12,466</b>	<b>12,328</b>		<b>138</b>	
Alaska ....	—	—		—	
Cal. ....	942	825		117	
Hawaii ....	5,901	5,889		12	
Ore. ....	974	974		11	
Wash. ....	4,649	4,640		9	
<b>Territories</b> .....	<b>14,389</b>	<b>11,865</b>		<b>1</b>	
Guam ....	985	985		—	
P.R. ....	2,523	2,523		—	
V.I. ....	10,881	10,880		1	

Table 4-13  
 III. PARASITOLOGY  
 A. Intestinal Specimens

Lab & Region	Number of Specimens	Procedures Used				
		Gross	Direct (Incl. Pinworms)	Concentrate Smear	Stained Smear	Other
<b>Total</b> .....	<b>282,230</b>					
Average .....	5,428					
<b>New England</b> .....	<b>15,811</b>					
Conn. ....	10,720	X	X	X	X	—
Mass. ....	21	X	X	X	X	Schistosome egg hatching—2
Me. ....	183	X	X	X	X	—
N.H. ....	1,142	X	X	X	X	—
R.I. ....	2,305	X	X	X	—	—
Vt. ....	1,440	X	X	X	X	—
<b>Middle Atlantic</b> .....	<b>3,163</b>					
N.J. ....	2,858	X	X	X	X	—
N.Y. ....	—	—	—	—	—	—
Pa. ....	305	X	X	X	X	Clearing adult helminths; egg counting of Schistosomes
<b>East North Central</b> .....	<b>13,211</b>					
Ill. ....	1,121	X	X	X	X	—
Ind. ....	2,310	X	X	X	X	—
Mlch. ....	3,708	X	X	X	X	—
Ohio ....	1,481	X	X	X	—	Worm for identification
Wisc. ....	4,591	X	X	X	X	—
<b>West North Central</b> .....	<b>21,128</b>					
Ia. ....	2,012	X	X	X	X	—
Kans. ....	5,214	X	X	X	X	—
Minn. ....	10,567	X	X	X	—	—
Mo. ....	1,351	X	X	X	X	—
Nebr. ....	397	X	X	X	X	—
N.D. ....	1,175	X	X	X	X	—
S.D. ....	412	X	X	X	X	—
<b>South Atlantic</b> .....	<b>122,485</b>					
Del. ....	204	X	X	X	X	—
D.C. ....	293	X	X	X	X	—
Fla. ....	59,677	X	X	X	X	—
Ga. ....	20,126	X	X	X	X	—
Md. ....	8,083	X	X	X	X	—
N.C. ....	5,821	X	X	X	X	—
S.C. ....	13,488	X	X	X	X	Trichrome stain
Va. ....	12,814	X	X	—	—	—
W. Va. ....	2,609	X	X	X	X	—
<b>East South Central</b> .....	<b>45,383</b>					
Ala. ....	28,098	X	X	X	X	—
Ky. ....	683	X	X	X	X	—
Miss. ....	10,200	—	X	X	X	—
Tenn. ....	6,402	X	X	X	X	—
<b>West South Central</b> .....	<b>26,269</b>					
Ark. ....	1,382	X	X	X	X	—
La. ....	18,763	X	X	X	—	—
Okla. ....	2,832	X	X	X	X	—
Tex. ....	3,292	X	X	X	X	—
<b>Mountain</b> .....	<b>8,064</b>					
Ariz. ....	231	—	X	X	X	—
Colo. ....	1,344	—	X	X	X	PVA
Ida. ....	1,162	X	X	X	X	—
Mont. ....	997	X	X	X	X	—
Nev. ....	145	X	X	X	X	—
N.M. ....	467	X	X	X	X	—
Utah ....	3,645	X	X	X	X	—
Wyo. ....	73	X	X	X	—	—
<b>Pacific</b> .....	<b>12,328</b>					
Alaska ....	—	—	—	—	—	—
Cal. ....	825	X	X	X	X	—
Hawaii ....	5,889	X	X	X	X	—
Ore. ....	974	X	X	X	X	—
Wash. ....	4,640	X	X	X	X	—
<b>Territories</b> .....	<b>11,865</b>					
Guam ....	985	—	X	—	—	—
P.R. ....	2,523	X	X	X	X	—
V.I. ....	10,880	—	X	X	—	—

Table 4-14  
 III. PARASITOLOGY  
 B. Other Parasitology Specimens

Lab & Region	Number of Specimens	Types of Specimens			
		Malaria	Trichinosis	Toxoplasmosis	Other (Disease Entity-Procedures Used)
<b>Total</b> .....	<b>13,919</b>				
Average .....	324				
<b>New England</b> .....	<b>55</b>				
Conn. ....	31	X	X	—	Materials mistaken for parasites
Mass. ....	12	X	—	—	Amebiasis — Smear
Me. ....	—	—	—	—	—
N.H. ....	3	X	X	—	—
R.I. ....	2	—	X	—	—
Vt. ....	7	X	X	—	—
<b>Middle Atlantic</b> .....	<b>160</b>				
N.J. ....	44	X	X	—	Identifications and examinations of water for Giardia
N.Y. ....	—	—	—	—	—
Pa. ....	116	X	X	—	Arthropod identification
<b>East North Central</b> .....	<b>95</b>				
Ill. ....	18	X	—	—	—
Ind. ....	13	X	—	—	Arthropods
Mich. ....	4	X	—	—	—
Ohio ....	13	X	X	—	Occult blood
Wisc. ....	47	X	—	—	Insect identification
<b>West North Central</b> .....	<b>283</b>				
Ia. ....	21	X	—	—	—
Kans. ....	16	X	—	—	Arthropods
Minn. ....	231	X	—	—	Pinworm slide, tape worm and insect identification
Mo. ....	11	X	—	—	Miscellaneous invert
Nebr. ....	2	X	—	—	—
N.D. ....	2	—	X	—	—
S.D. ....	—	—	—	—	—
<b>South Atlantic</b> .....	<b>2,774</b>				
Del. ....	6	—	—	—	Vincent's angina
D.C. ....	1	X	—	—	—
Fla. ....	23	X	—	—	—
Ga. ....	2,623	X	—	X	—
Md. ....	57	X	—	—	—
N.C. ....	42	X	—	—	Insect identification, water
S.C. ....	1	X	—	—	—
Va. ....	2	X	—	—	Parasites for identification
W. Va. ....	19	—	—	—	Insect identification
<b>East South Central</b> .....	<b>299</b>				
Ala. ....	279	X	—	—	Insects, mosquito larvae, spiders
KY. ....	5	X	—	—	—
Miss. ....	6	X	—	—	—
Tenn. ....	9	X	—	—	—
<b>West South Central</b> .....	<b>10,086</b>				
Ark. ....	5	X	—	—	—
La. ....	4	—	X	—	—
Okla. ....	2,784	X	—	—	Arthropod identification, vaginal wet preps
Tex. ....	7,293	—	—	—	Mosquito and tick identification, Trichomonas exam
<b>Mountain</b> .....	<b>28</b>				
Ariz. ....	18	X	—	—	—
Colo. ....	6	X	—	—	—
Ida. ....	1	X	—	—	—
Mont. ....	—	—	—	—	—
Nev. ....	—	—	—	—	Toxoplasma serologies referred to CDC
N.M. ....	—	—	—	—	—
Utah ....	3	X	—	—	—
Wyo. ....	—	—	—	—	—
<b>Pacific</b> .....	<b>138</b>				
Alaska ....	—	—	—	—	—
Cal. ....	117	X	X	X	Tissue parasites
Hawaii ....	12	X	—	X	Insect identification
Ore. ....	—	X	X	X	—
Wash. ....	9	X	—	—	Microfilariae
<b>Territories</b> .....	<b>1</b>				
Guam ....	—	—	—	—	—
P.R. ....	—	—	—	—	—
V.I. ....	1	X	—	—	—

Table 4-15  
IV. VIROLOGY  
SUMMARY OF SPECIMENS BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Virology Specimens	A	B	C	D
		Rabies Specimens	Viral Isolations	Rickettsial Ident. Isolations	Other
<b>Total</b> .....	<b>186,170</b>	<b>66,737</b>	<b>86,504</b>	<b>9,206</b>	<b>23,993</b>
Average .....	3,723	1,420	2,218	767	2,666
<b>New England</b> .....	<b>15,750</b>	<b>1,907</b>	<b>14,383</b>	—	—
Conn. ....	9,178	584	9,134	—	—
Mass. ....	5,284	576	4,708	—	—
Me. ....	858	349	509	—	—
N.H. ....	188	188	—	—	—
R.I. ....	72	72	—	—	—
Vt. ....	170	138	32	—	—
<b>Middle Atlantic</b> .....	<b>10,555</b>	<b>2,343</b>	<b>8,095</b>	<b>35</b>	<b>82</b>
N.J. ....	9,056	2,031	6,938	5	82
N.Y. ....	—	—	—	—	—
Pa. ....	1,499	312	1,157	30	—
<b>East North Central</b> .....	<b>49,733</b>	<b>10,539</b>	<b>20,702</b>	<b>2,103</b>	<b>16,389</b>
Ill. ....	11,548	2,436	9,112	—	—
Ind. ....	3,324	2,720	604	—	—
Mich. ....	4,386	1,154	3,063	—	169
Ohio ....	23,708	2,591	2,794	2,103	16,220
Wisc. ....	6,767	1,638	5,129	—	—
<b>West North Central</b> .....	<b>13,796</b>	<b>5,883</b>	<b>7,628</b>	<b>10</b>	<b>5</b>
Ia. ....	2,857	636	1,946	—	5
Kans. ....	597	—	597	—	—
Minn. ....	5,335	1,197	4,138	—	—
Mo. ....	3,686	2,865	821	—	—
Nebr. ....	600	600	—	—	—
N.D. ....	452	442	—	10	—
S.D. ....	269	143	126	—	—
<b>South Atlantic</b> .....	<b>37,364</b>	<b>12,596</b>	<b>10,434</b>	<b>6,905</b>	<b>7,429</b>
Del. ....	1,192	229	963	—	—
D.C. ....	63	63	—	—	—
Fla. ....	5,511	3,472	2,039	—	—
Ga. ....	11,523	2,509	1,591	—	7,423
Md. ....	4,597	2,130	2,457	9	1
N.C. ....	3,112	1,396	1,716	—	—
S.C. ....	8,631	1,639	906	6,086	—
Va. ....	1,971	602	559	810	—
W. Va. ....	764	556	203	—	5
<b>East South Central</b> .....	<b>9,193</b>	<b>7,235</b>	<b>1,909</b>	<b>1</b>	<b>48</b>
Ala. ....	4,073	3,052	972	1	48
Ky. ....	1,977	1,642	335	—	—
Miss. ....	702	702	—	—	—
Tenn. ....	2,441	1,839	602	—	—
<b>West South Central</b> .....	<b>32,159</b>	<b>21,029</b>	<b>11,109</b>	<b>21</b>	—
Ark. ....	2,282	2,282	—	—	—
La. ....	2,262	2,230	32	—	—
Okla. ....	4,786	3,201	1,585	—	—
Tex. ....	22,829	13,316	9,492	21	—
<b>Mountain</b> .....	<b>8,123</b>	<b>3,668</b>	<b>4,448</b>	<b>7</b>	—
Ariz. ....	3,440	1,506	1,934	—	—
Colo. ....	626	626	—	—	—
Ida. ....	247	120	127	—	—
Mont. ....	380	10	363	7	—
Nev. ....	—	—	—	—	—
N.M. ....	1,174	722	452	—	—
Utah ....	1,816	244	1,572	—	—
Wyo. ....	440	440	—	—	—
<b>Pacific</b> .....	<b>9,241</b>	<b>1,281</b>	<b>7,796</b>	<b>124</b>	<b>40</b>
Alaska ....	—	—	—	—	—
Cal. ....	4,144	663	3,329	112	40
Hawaii ....	1,741	7	1,734	—	—
Ore. ....	2,413	218	2,195	—	—
Wash. ....	943	393	538	12	—
<b>Territories</b> .....	<b>256</b>	<b>256</b>	—	—	—
Guam ....	8	8	—	—	—
P.R. ....	248	248	X	—	—
V.I. ....	—	—	—	—	—

Table 4-16  
IV. VIROLOGY  
A. Rabies Specimens

Lab & Region	Number of Specimens	Procedures Used			
		Stained Smear	FRA	Animal Inoculation	Other
<b>Total</b> .....	<b>66,737</b>				
Average .....	1,420				
<b>New England</b> .....	<b>1,907</b>				
Conn. ....	584	X	X	X	—
Mass. ....	576	—	—	—	—
Me. ....	349	—	X	X	—
N.H. ....	188	X	X	X	—
R.I. ....	72	—	X	X	—
Vt. ....	138	—	X	X	—
<b>Middle Atlantic</b> .....	<b>2,343</b>				
N.J. ....	2,031	—	X	X	—
N.Y. ....	—	—	—	—	—
Pa. ....	312	—	X	X	—
<b>East North Central</b> .....	<b>10,539</b>				
Ill. ....	2,436	—	X	—	—
Ind. ....	2,720	X	X	—	—
Mich. ....	1,154	—	X	X	—
Ohio ....	2,591	X	X	X	—
Wisc. ....	1,638	—	X	X	—
<b>West North Central</b> .....	<b>5,883</b>				
Ia. ....	636	—	X	X	—
Kans. ....	—	—	—	—	—
Minn. ....	1,197	—	X	X	—
Mo. ....	2,865	X	X	X	—
Nebr. ....	600	—	X	—	—
N.D. ....	442	X	X	—	—
S.D. ....	143	—	X	X	—
<b>South Atlantic</b> .....	<b>12,596</b>				
Del. ....	229	X	X	—	—
D.C. ....	63	—	X	—	—
Fla. ....	3,472	X	X	—	—
Ga. ....	2,509	—	X	X	—
Md. ....	2,130	X	X	X	—
N.C. ....	1,396	X	X	—	—
S.C. ....	1,639	X	X	X	—
Va. ....	602	X	X	X	—
W. Va. ....	556	—	X	X	—
<b>East South Central</b> .....	<b>7,235</b>				
Ala. ....	3,052	X	X	X	—
Ky. ....	1,642	X	X	X	—
Miss. ....	702	X	X	—	—
Tenn. ....	1,839	X	X	X	—
<b>West South Central</b> .....	<b>21,029</b>				
Ark. ....	2,282	X	X	—	—
La. ....	2,230	—	X	X	—
Okla. ....	3,201	—	X	X	—
Tex. ....	13,316	—	X	X	—
<b>Mountain</b> .....	<b>3,668</b>				
Ariz. ....	1,506	—	X	—	—
Colo. ....	626	—	X	X	—
Ida. ....	120	—	X	—	—
Mont. ....	10	—	—	—	—
Nev. ....	—	—	—	—	—
N.M. ....	722	—	X	X	—
Utah ....	244	X	X	X	—
Wyo. ....	440	—	X	—	—
<b>Pacific</b> .....	<b>1,281</b>				
Alaska ....	—	—	—	—	—
Cal. ....	663	—	X	X	—
Hawaii ....	7	X	X	—	—
Ore. ....	218	X	X	X	—
Wash. ....	393	—	X	X	—
<b>Territories</b> .....	<b>258</b>				
Guam ....	8	—	X	—	—
P.R. ....	248	—	X	—	—
V.I. ....	—	—	—	—	—

Mouse neutralization test for antibody

Check specimens, FA

Sellers Stain

Table 4-17  
IV. VIROLOGY  
B. Viral Isolation Specimens

Lab	Number of Specimens	Types of Specimens						Procedures Used									
		Enteric	Arbovirus Human Origin	Arbovirus Non-Human Orig.	Respiratory	Exanthem	Other	Tissue Culture Hosts	Eggs	Animal Hosts	HI/HA	CF	Neutralization Tests	FA-Orig. Spec.	FA-Other	HA/IFA/HA	Other
Total	86,504																
Average	2,218																
Ala.	972	X	-	-	X	-	Body tissues	X	X	X	X	-	X	-	-	X	
Ariz.	1,934	X	X	-	X	X	Misc., e.g., CNS	X	X	-	-	-	X	-	-	-	
Cal.	3,329	X	X	X	X	X	isolates for identification, urine, autopsy tissues, birds, mosquitoes, animal tissues (other than rabies specimens).	X	X	X	X	X	X	X	X	X	Electron microscopy
Conn.	8,134	X	X	-	X	X	Cytomegalovirus	X	X	X	X	X	X	-	X	X	
Del.	963	X	X	-	X	X	-	X	X	X	X	X	X	X	X	X	
Fla.	2,039	X	X	X	X	X	CNS	X	X	X	X	X	X	X	X	X	
Ga.	1,591	X	X	X	X	X	CMV, Chlamydia	X	X	X	X	X	X	X	X	X	
Hawaii	1,734	X	-	-	X	X	Skin lesions, tissue fluids	X	X	-	X	X	X	X	X	X	
Ida.	127	-	-	-	X	X	-	X	X	X	X	X	-	X	X	X	
Ill.	9,112	X	X	X	X	X	-	X	X	X	X	X	X	-	-	X	
Ind.	604	X	-	-	X	X	-	X	-	-	X	X	X	-	-	-	
Ia.	1,946	X	X	X	X	X	Blood, SF, tissue	X	X	X	X	-	X	-	-	-	
Kans.	597	X	X	X	X	X	Cytomegalovirus	X	X	X	X	X	X	-	-	X	
Ky.	335	X	X	-	X	X	Autopsy Material	X	X	-	X	X	X	-	-	X	
La.	32	-	X	X	X	-	-	-	X	X	X	X	-	-	-	-	
Me.	509	X	-	-	X	X	Vesicles	X	X	-	X	-	-	-	X	-	
Md.	2,457	X	X	X	X	X	Veneral-genital, ocular, urinary tract	X	X	X	X	X	X	X	X	X	ELISA, electron microscopy
Mass.	4,708	X	X	X	X	X	CNS	X	X	-	X	-	X	-	-	X	Interference, plaque formation
Mich.	3,063	X	-	-	X	X	CNS, autopsy/biopsy, blood	X	X	X	X	X	X	X	X	X	
Minn.	4,138	X	-	-	X	X	Urine, CSF	X	X	X	X	X	X	X	X	X	
Mo.	821	X	X	X	X	X	Mycoplasma	X	X	X	X	X	X	-	X	X	
Mont.	363	X	-	-	X	X	CNS, glu, etc.	X	-	-	X	X	X	-	-	X	
N.J.	6,938	X	X	X	X	X	CNS Specimens (non-arbovirus) mosquito pools	X	X	X	X	-	X	X	X	X	Interference/interference inhibition
N.M.	452	X	-	-	X	X	-	X	X	X	X	X	X	-	X	-	
N.C.	1,716	X	X	X	X	X	-	X	X	X	X	X	X	-	X	X	
Okla.	1,586	X	-	-	X	X	Lesion, urine, tissue, CSF	X	X	X	X	-	X	-	-	X	
Ohio	2,794	X	X	-	X	X	Tissues	X	X	X	X	X	X	X	X	X	
Ore.	2,185	X	-	-	X	X	Biopsy/autopsy tissues	X	X	-	X	X	X	-	-	X	
Pa.	1,157	X	X	-	X	X	-	X	X	X	X	X	X	-	-	X	
S.C.	906	X	-	-	X	X	Urine, tissue, vaginal swabs, body fluids	X	X	X	X	X	X	X	X	X	Mycoplasma (biphasic media) Chlamydia (Iodine stain of TC)
S.D.	126	X	X	-	X	X	-	X	X	X	X	X	X	-	-	X	
Tenn.	602	X	-	-	X	X	-	X	X	X	X	-	X	-	-	X	
Tex.	9,492	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Utah	1,572	X	X	X	X	X	CMV-urine, Herpes-lesion, Psittacosis - birds	X	X	X	X	X	X	X	-	X	
Vt.	559	X	-	-	X	X	Tissue, isolates	X	X	X	-	X	X	-	-	-	
Vt.	32	-	-	-	X	-	-	-	X	-	X	-	-	-	-	-	
Wash.	538	X	-	X	X	X	Chlamydia-Psittacosis in birds	X	X	X	X	-	X	-	-	X	Machievello Stain
Wisc.	5,129	X	X	X	X	X	Biopsy, autopsy	X	X	X	X	X	X	X	X	X	RFFIT
W. Va.	203	X	-	-	X	X	CNS - other than arbovirus	X	X	X	X	-	X	X	X	X	



Table 4-18  
IV. VIROLOGY  
C. Rickettsial Identification Specimens

Lab & Region	Number of Specimens	Type of Specimens		Procedures Used		
		Tick	Other	Hemolymph	FA	Other
<b>Total</b> .....	<b>9,206</b>					
Average .....	767					
<b>New England</b>						
Conn. ....	—	—	—	—	—	—
Mass. ....	—	—	—	—	X	X
Me. ....	—	—	—	—	—	—
N.H. ....	—	—	—	—	—	—
R.I. ....	—	—	—	—	—	—
Vt. ....	—	—	—	—	—	—
<b>Middle Atlantic</b>						
N.J. ....	5	X	X	X	X	Gimenez stain, egg inoculation (yolk sac), Guinea pig inoculation
N.Y. ....	—	—	—	—	—	—
Pa. ....	30	X	—	X	—	—
<b>East North Central</b>						
Ill. ....	—	—	—	—	—	—
Ind. ....	—	—	—	—	—	—
Mich. ....	—	—	—	—	—	—
Ohio ....	2,103	X	—	X	X	—
Wisc. ....	—	—	—	—	—	—
<b>West North Central</b>						
Ia. ....	—	—	—	—	—	—
Kans. ....	—	—	—	—	—	—
Minn. ....	—	—	—	—	—	—
Mo. ....	—	—	—	—	—	—
Nebr. ....	—	—	—	—	—	—
N.D. ....	10	X	—	—	X	—
S.D. ....	—	—	—	—	—	—
<b>South Atlantic</b>						
Del. ....	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—
Fla. ....	—	—	—	—	—	—
Ga. ....	—	—	—	—	—	—
Md. ....	9	X	X	X	X	ELISA
N.C. ....	—	—	—	—	—	—
S.C. ....	6,086	X	—	X	X	—
Va. ....	810	—	X	—	—	—
W. Va. ....	—	—	—	—	—	—
<b>East South Central</b>						
Ala. ....	1	X	—	—	—	—
Ky. ....	—	—	—	—	—	—
Miss. ....	—	—	—	—	—	—
Tenn. ....	—	—	—	—	—	—
<b>West South Central</b>						
Ark. ....	—	X	—	X	—	—
La. ....	—	—	—	—	—	—
Okla. ....	—	—	—	—	—	—
Tex. ....	21	X	X	X	X	Microtus inoculations
<b>Mountain</b>						
Ariz. ....	—	—	—	—	—	—
Colo. ....	—	—	—	—	—	—
Ida. ....	—	—	—	—	—	—
Mont. ....	7	X	—	X	—	—
Nev. ....	—	—	—	—	—	—
N.M. ....	—	—	—	—	—	—
Utah ....	—	—	—	—	—	—
Wyo. ....	—	—	—	—	—	—
<b>Pacific</b>						
Alaska ....	—	—	—	—	—	—
Cal. ....	112	X	X	X	X	Animal inoculation
Hawaii ....	—	—	—	—	—	—
Ore. ....	—	X	—	—	—	—
Wash. ....	12	X	—	—	—	—
<b>Territories</b>						
Guam ....	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—
V.I. ....	—	—	—	—	—	—

**Table 4-19**  
**V. VIROLOGY**  
**D. Other Virology Specimens**

Lab	Number of Specimens	Disease Entity — Procedures Used
<b>Total</b> .....	<b>22,993</b>	
<b>Average</b> .....	<b>2,666</b>	
Ala. ....	48	SLE — HA/AI, Herpes serology — NI
Cal. ....	40	Water waste effluent — large volume virus concentrations, virus isolations in cell cultures
Ga. ....	7,423	Rubella — PHA
Ia. ....	5	Influenza — Kirby Bauer
Md. ....	1	Environmental sample — tissue culture
Mich. ....	169	Referred viruses — identification
N.J. ....	82	Legionnaires' Disease — FA; Psittacosis — Gimenez; Hepatitis — ELISA; Smallpox — Vaccinia HAI test; EB virus — Slide/FA.
Ohio ....	16,220	Arbovirus mosquito pools — Cell culture, mouse inoculation; bird blood — HI.
Tex. ....	—	Mycoplasma, psittacosis, arbovirus (bird blood)
W. Va. ....	5	Mycoplasma pneumoniae — FA, isolation on solid media

Table 4-20  
V. IMMUNOLOGY  
SUMMARY OF SPECIMENS BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Immunology Specimens	A	B	C	D	E	F
		Syphilis Serology	Bacterial Serology	Fungal Serology	Parasitological Serology	Viral and Rickettsial Serology	Other
<b>Total</b> .....	<b>8,514,630</b>	<b>6,727,757</b>	<b>56,195</b>	<b>120,269</b>	<b>171,560</b>	<b>1,295,052</b>	<b>88,801</b>
Average .....	163,743	129,380	1,196	3,645	4,766	26,430	6,831
<b>New England</b> .....	<b>580,148</b>	<b>411,849</b>	<b>12,720</b>	<b>706</b>	<b>8,176</b>	<b>88,714</b>	<b>2,987</b>
Conn. ....	168,572	81,272	634	—	2,971	26,276	2,423
Mass. ....	202,356	191,168	265	279	2,275	8,369	—
Me. ....	28,237	10,376	296	322	2,882	14,361	—
N.H. ....	40,383	40,383	—	—	—	—	—
R.I. ....	94,320	57,613	10,034	—	40	26,633	—
Vt. ....	46,280	31,037	1,491	105	8	13,075	564
<b>Middle Atlantic</b> .....	<b>259,993</b>	<b>202,360</b>	<b>613</b>	<b>488</b>	<b>2,014</b>	<b>51,417</b>	<b>3,101</b>
N.J. ....	249,370	201,648	512	—	1,626	44,137	1,447
N.Y. ....	—	—	—	—	—	—	—
Pa. ....	10,623	712	101	488	388	7,280	1,654
<b>East North Central</b> .....	<b>751,188</b>	<b>583,148</b>	<b>7,164</b>	<b>18,535</b>	<b>20,449</b>	<b>115,964</b>	<b>5,928</b>
Ill. ....	121,870	105,804	417	5,722	1,465	8,462	—
Ind. ....	64,762	58,601	664	3,432	814	1,251	—
Mich. ....	328,596	244,914	3,355	4,343	3,395	72,589	—
Ohio ....	104,651	84,796	287	2,546	3,137	12,404	1,481
Wisc. ....	131,309	89,033	2,441	2,492	11,638	21,258	4,447
<b>West North Central</b> .....	<b>847,090</b>	<b>600,575</b>	<b>11,556</b>	<b>11,221</b>	<b>7,921</b>	<b>214,941</b>	<b>876</b>
Ia. ....	240,879	150,115	6,394	1,885	4,481	77,194	810
Kans. ....	102,622	75,530	175	1,350	—	25,567	—
Minn. ....	207,197	148,759	1,328	3,732	2,014	51,364	—
Mo. ....	144,986	103,598	291	4,236	1,282	35,579	—
Nebr. ....	66,473	54,355	1,383	—	—	10,669	66
N.D. ....	47,553	44,896	1,153	—	144	1,360	—
S.D. ....	37,380	23,322	832	18	—	13,208	—
<b>South Atlantic</b> .....	<b>2,333,300</b>	<b>1,954,142</b>	<b>10,159</b>	<b>11,433</b>	<b>20,524</b>	<b>333,231</b>	<b>3,811</b>
Del. ....	39,569	34,525	—	—	—	5,044	—
D.C. ....	118,611	115,251	10	—	12	442	2,896
Fla. ....	664,342	566,953	1,576	—	1,293	74,520	—
Ga. ....	461,293	447,309	664	3,287	2,610	7,423	—
Md. ....	372,100	232,642	2,256	3,276	11,597	121,563	766
N.C. ....	236,038	181,590	358	1,925	2,402	49,763	—
S.C. ....	238,579	189,533	852	1,417	1,010	45,618	149
Va. ....	168,870	139,210	4,433	1,289	1,242	22,696	—
W. Va. ....	53,898	47,129	10	239	358	6,162	—
<b>East South Central</b> .....	<b>1,189,246</b>	<b>1,031,057</b>	<b>3,191</b>	<b>16,157</b>	<b>3,794</b>	<b>135,047</b>	<b>—</b>
Ala. ....	471,417	441,453	84	2,817	2,158	25,205	—
Ky. ....	142,167	116,968	87	3,453	1,636	20,023	—
Miss. ....	271,188	265,775	895	2,333	—	2,185	—
Tenn. ....	304,174	206,861	2,125	7,554	—	87,634	—
<b>West South Central</b> .....	<b>1,490,861</b>	<b>1,240,561</b>	<b>3,905</b>	<b>23,483</b>	<b>6,930</b>	<b>144,484</b>	<b>71,498</b>
Ark. ....	123,901	110,529	497	2,960	623	9,292	—
La. ....	284,721	144,776	369	1,720	1,536	64,822	71,498
Okla. ....	133,211	127,106	772	1,631	—	3,702	—
Tex. ....	949,028	858,150	2,267	17,172	4,771	66,668	—
<b>Mountain</b> .....	<b>557,970</b>	<b>399,277</b>	<b>2,879</b>	<b>25,310</b>	<b>5,016</b>	<b>124,888</b>	<b>600</b>
Ariz. ....	69,298	39,340	42	24,844	1,379	3,693	—
Colo. ....	208,058	147,600	110	—	—	60,348	—
Ida. ....	19,967	10,916	63	199	2,875	5,642	272
Mont. ....	56,041	29,168	393	267	242	25,971	—
Nev. ....	24,065	23,671	51	—	—	15	328
N.M. ....	90,174	76,249	—	—	—	13,925	—
Utah ....	69,503	61,006	2,123	—	520	5,854	—
Wyo. ....	20,864	11,327	97	—	—	9,440	—
<b>Pacific</b> .....	<b>358,975</b>	<b>164,335</b>	<b>3,466</b>	<b>12,936</b>	<b>96,736</b>	<b>81,502</b>	<b>—</b>
Alaska .....	—	—	—	—	—	—	—
Cal. ....	47,584	21,301	1,971	12,188	2,603	9,521	—
Hawaii .....	48,783	32,253	397	—	—	16,133	—
Ore. ....	228,369	78,112	827	748	94,133	54,549	—
Wash. ....	34,239	32,669	271	—	—	1,299	—
<b>Territories</b> .....	<b>145,859</b>	<b>140,453</b>	<b>542</b>	<b>—</b>	<b>—</b>	<b>4,864</b>	<b>—</b>
Guam .....	1,579	1,579	—	—	—	—	—
P.R. ....	133,060	127,654	542	—	—	4,864	—
V.I. ....	11,220	11,220	—	—	—	—	—

Table 4-21  
V. IMMUNOLOGY  
A. Syphilis Serology Specimens

Lab & Region	Number of Specimens	Procedures Used											
		VDRL	RPR	ART	USR	RST	FTA-ABS	APTA-ABS	FTA-ABS (IgM)	DEATP	MHA-TP	Dark-field	Other
<b>Total</b> .....	<b>6,727,757</b>												
Average .....	129,380												
<b>New England</b> .....	<b>411,849</b>												
Conn. ....	81,272	X	X	-	-	-	-	-	-	-	-	-	-
Mass. ....	191,168	X	X	-	-	-	-	X	-	-	-	-	-
Me. ....	10,376	X	X	-	-	-	-	-	-	-	-	-	-
N.H. ....	40,383	X	X	-	-	-	X	-	-	-	-	-	-
R.I. ....	57,613	X	-	-	-	-	-	X	-	-	-	-	-
Vt. ....	31,037	-	-	X	-	-	X	-	-	-	-	X	FA darkfield
<b>Middle Atlantic</b> .....	<b>202,360</b>												
N.J. ....	201,648	X	X	-	-	-	X	-	-	-	-	-	-
N.Y. ....	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa. ....	712	X	X	-	-	-	X	-	-	-	-	-	-
<b>East North Central</b> .....	<b>583,148</b>												
Ill. ....	105,804	X	X	-	-	-	X	-	-	X	X	-	-
Ind. ....	58,601	X	X	X	-	-	X	-	-	-	-	-	-
Mich. ....	244,914	X	-	-	-	-	X	-	-	X	X	-	-
Ohio ....	84,796	X	-	-	-	-	X	-	-	-	-	-	-
Wisc. ....	89,033	X	-	-	-	-	X	-	X	-	X	-	-
<b>West North Central</b> .....	<b>600,575</b>												
Ia. ....	150,115	X	-	-	-	-	X	X	X	-	-	X	Spinal fluid, Kirby Bauer
Kans. ....	75,530	X	-	-	-	-	X	-	-	-	-	-	-
Minn. ....	148,759	X	-	-	-	-	X	-	-	-	-	X	-
Mo. ....	103,598	X	X	-	-	-	X	-	-	-	-	X	-
Nebr. ....	54,355	X	-	-	X	-	X	-	-	-	-	X	-
N.D. ....	44,896	-	X	-	-	-	X	-	-	-	-	X	-
S.D. ....	23,322	X	X	-	-	-	X	-	-	-	X	-	-
<b>South Atlantic</b> .....	<b>1,954,142</b>												
Del. ....	34,525	-	X	-	-	-	X	-	-	-	X	-	-
D.C. ....	116,251	X	-	-	X	-	X	-	-	X	-	-	-
Fla. ....	566,953	X	-	-	-	-	X	-	X	-	-	-	FTA - CSF (experimental for other neurologists)
Ga. ....	447,309	X	X	-	-	-	X	-	-	-	-	-	-
Md. ....	232,642	X	X	-	-	-	X	-	X	-	-	X	-
N.C. ....	181,590	X	-	-	-	-	X	-	-	X	-	-	-
S.C. ....	189,533	X	X	-	-	-	X	-	-	-	-	-	Direct FA
Va. ....	139,210	X	-	-	-	-	X	-	-	-	-	-	-
W. Va. ....	47,129	X	X	-	-	-	X	-	-	-	-	-	-
<b>East South Central</b> .....	<b>1,031,057</b>												
Ala. ....	441,453	X	-	-	-	-	X	-	-	-	-	-	-
Ky. ....	116,968	X	X	-	-	-	X	-	-	-	-	X	-
Miss. ....	265,775	X	X	-	-	-	X	-	-	-	-	-	-
Tenn. ....	206,861	X	X	-	-	-	X	-	-	X	-	-	-
<b>West South Central</b> .....	<b>1,240,561</b>												
Ark. ....	110,529	X	-	-	-	-	X	-	-	-	X	-	-
La. ....	144,776	X	-	-	-	-	X	-	-	-	-	-	-
Okla. ....	127,106	X	X	-	-	-	X	-	-	-	X	-	-
Tex. ....	858,150	X	X	-	-	-	X	-	-	-	X	X	-
<b>Mountain</b> .....	<b>399,277</b>												
Ariz. ....	39,340	X	X	-	-	-	X	-	-	-	-	-	-
Colo. ....	147,600	X	-	-	-	-	X	-	-	-	-	-	-
Ida. ....	10,916	-	X	-	-	-	X	-	-	-	-	X	-
Mont. ....	29,168	X	-	-	-	-	X	-	-	-	-	-	Direct FA
Nev. ....	23,671	X	X	-	-	-	X	-	-	-	-	X	-
N.M. ....	76,249	X	X	-	-	-	X	-	-	-	-	-	-
Utah ....	61,006	X	X	-	-	-	X	-	-	-	-	X	-
Wyo. ....	11,327	X	-	-	-	-	X	-	-	-	-	-	-
<b>Pacific</b> .....	<b>164,335</b>												
Alaska ....	-	-	-	-	-	-	-	-	-	-	-	-	-
Cal. ....	21,301	X	-	-	-	-	X	-	-	X	X	-	-
Hawaii ....	32,253	X	X	-	-	-	X	-	-	-	X	-	-
Ore. ....	78,112	X	-	X	-	-	X	-	X	-	-	X	-
Wash. ....	32,669	X	X	-	-	-	X	-	-	-	-	-	-
<b>Territories</b> .....	<b>140,453</b>												
Guam ....	1,579	X	-	-	-	-	X	-	-	-	X	-	CRP, ASO, RA
P.R. ....	127,654	X	-	-	-	-	X	-	-	-	-	-	-
V.I. ....	11,220	X	-	X	-	-	X	-	-	-	X	-	-

Table 4-22  
V. IMMUNOLOGY  
B. Bacterial Serology Specimens

Lab & Region	Number of Specimens	Types of Specimens					
		Brucellosis	Tularemia	Strept. Antibodies	Leptospirosis	Salmonella	Other
<b>Total</b> .....	<b>56,195</b>						
Average .....	1,196						
<b>New England</b> .....	<b>12,720</b>						
Conn. ....	634	X	X	X	-	X	-
Mass. ....	266	X	X	-	-	X	Seroconversion Band-pertussis
Me. ....	296	X	-	X	-	X	Shigella, Hemophilus, N. meningitidis
N.H. ....	-	-	-	-	-	-	-
R.I. ....	10,034	X	X	-	-	X	Legionnaires' Disease
Vt. ....	1,491	X	X	-	-	X	Legionnaires' Disease
<b>Middle Atlantic</b> .....	<b>613</b>						
N.J. ....	512	X	X	-	X	-	-
N.Y. ....	-	-	-	-	-	-	-
Pa. ....	101	X	X	-	X	-	Tetanus, Diphtheria
<b>East North Central</b> ....	<b>7,164</b>						
Ill. ....	417	X	X	-	-	X	Weil-Felix
Ind. ....	664	X	X	-	X	X	-
Mich. ....	3,355	X	X	-	X	-	Legionellosis, Pertussis
Ohio ....	287	X	X	-	X	-	-
Wisc. ....	2,441	X	X	X	-	X	-
<b>West North Central</b> ....	<b>11,558</b>						
Ia. ....	6,394	X	X	X	X	-	-
Kans. ....	175	X	X	-	X	-	-
Minn. ....	1,328	X	X	X	-	X	-
Mo. ....	291	X	X	X	-	-	-
Nebr. ....	1,383	X	X	-	X	-	-
N.D. ....	1,153	X	X	X	-	X	-
S.D. ....	832	X	X	X	-	X	-
<b>South Atlantic</b> .....	<b>10,159</b>						
Del. ....	-	-	-	-	-	-	-
D.C. ....	10	X	X	-	-	-	-
Fla. ....	1,576	X	-	-	X	-	Typhoid
Ga. ....	664	X	X	-	X	X	OX-19
Md. ....	2,256	X	X	X	X	X	Pasteurella multocida, tetanus antitoxin, diphtheria antitoxin, pertussis
N.C. ....	358	X	X	X	-	-	Legionellosis
S.C. ....	852	X	X	X	-	X	Legionnaires' Disease; Proteus OX19, OXK, OX2
Va. ....	4,433	X	X	X	X	X	Weil-Felix, Typhoid O, Paratyphi B
W. Va. ....	10	-	-	X	-	-	-
<b>East South Central</b> ....	<b>3,191</b>						
Ala. ....	84	X	X	-	-	-	-
Ky. ....	87	X	X	-	-	X	Typhoid O, H, Vi
Miss. ....	895	X	X	X	-	-	-
Tenn. ....	2,126	X	X	-	-	-	Legionella pneumophila
<b>West South Central</b> ....	<b>3,905</b>						
Ark. ....	497	X	X	-	X	X	-
La. ....	369	X	X	-	X	-	-
Okla. ....	772	X	X	-	X	-	-
Tex. ....	2,267	X	X	-	X	X	Legionnaires' Disease IFA
<b>Mountain</b> .....	<b>2,879</b>						
Ariz. ....	42	X	X	-	-	-	-
Colo. ....	110	X	X	-	-	-	-
Ida. ....	63	X	X	-	-	-	-
Mont. ....	393	X	X	-	X	-	-
Nev. ....	51	X	X	-	-	X	-
N.M. ....	-	-	-	-	-	-	-
Utah ....	2,123	X	X	-	-	-	Cold agglutination, Weil-Felix
Wyo. ....	97	X	X	-	-	-	-
<b>Pacific</b> .....	<b>3,466</b>						
Alaska ....	-	-	-	-	-	-	-
Cal. ....	1,971	X	X	-	X	X	Yersinia enterocolitica, Yersinia pseudotuberculosis, Legionnaires' Disease.
Hawaii ....	397	X	X	X	X	X	-
Ore. ....	827	X	X	-	X	-	-
Wash. ....	271	X	X	-	X	-	Proteus OX2, OX11, OX19
<b>Territories</b> .....	<b>542</b>						
Guam ....	-	-	-	-	-	-	-
P.R. ....	542	X	-	X	-	X	-
V.I. ....	-	X	-	X	-	X	-

Table 4-23  
V. IMMUNOLOGY  
C. Fungal Serology Specimens

Lab & Region	Number of Specimens	Types of Specimens						Other
		Blastomycosis	Coccidioidomycosis	Histoplasmosis	Cryptococcus	Aspergillus	Candidiasis	
<b>Total</b> .....	<b>120,269</b>							
Average .....	3,645							
<b>New England</b> .....	<b>706</b>							
Conn. ....	—	—	—	—	—	—	—	—
Mass. ....	279	—	—	—	X	—	—	—
Me. ....	322	X	X	—	X	X	—	—
N.H. ....	—	—	—	—	—	—	—	—
R.I. ....	—	—	—	—	—	—	—	—
Vt. ....	105	X	X	X	—	—	—	—
<b>Middle Atlantic</b> .....	<b>488</b>							
N.J. ....	—	—	—	—	—	—	—	—
N.Y. ....	—	—	—	—	—	—	—	—
Pa. ....	488	X	X	X	—	X	X	—
<b>East North Central</b> .....	<b>18,535</b>							
Ill. ....	5,722	X	X	X	—	—	—	—
Ind. ....	3,432	X	X	X	X	—	—	—
Mich. ....	4,343	X	X	X	—	—	—	—
Ohio ....	2,546	X	X	X	X	X	—	—
Wisc. ....	2,492	X	X	X	X	—	—	—
<b>West North Central</b> .....	<b>11,221</b>							
Ia. ....	1,885	X	X	X	X	—	—	—
Kans. ....	1,350	X	X	X	—	—	—	—
Minn. ....	3,732	X	X	X	X	—	—	—
Mo. ....	4,236	X	X	X	—	—	—	—
Nebr. ....	—	—	—	—	—	—	—	—
N.D. ....	—	—	—	—	—	—	—	—
S.D. ....	18	X	X	X	—	—	—	—
<b>South Atlantic</b> .....	<b>11,433</b>							
Del. ....	—	—	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—	—	—
Fla. ....	—	—	—	—	—	—	—	—
Ga. ....	3,287	X	X	X	X	X	X	Sporotrichosis, Actinomycosis
Md. ....	3,276	X	X	X	X	X	X	—
N.C. ....	1,925	X	X	X	—	—	—	—
S.C. ....	1,417	X	X	X	X	X	X	Sporotrichosis
Va. ....	1,289	X	X	X	—	—	—	—
W. Va. ....	239	X	X	X	—	—	—	—
<b>East South Central</b> .....	<b>16,157</b>							
Ala. ....	2,817	X	X	X	—	X	—	—
Ky. ....	3,453	X	X	X	—	—	—	—
Miss. ....	2,333	X	X	X	—	—	—	—
Tenn. ....	7,554	X	—	X	—	—	—	—
<b>West South Central</b> .....	<b>23,483</b>							
Ark. ....	2,960	X	X	X	X	X	—	—
La. ....	1,720	X	X	X	X	—	—	—
Okla. ....	1,631	X	X	X	X	X	—	—
Tex. ....	17,172	X	X	X	X	—	—	—
<b>Mountain</b> .....	<b>25,310</b>							
Ariz. ....	24,844	X	X	X	—	—	—	—
Colo. ....	—	—	—	—	—	—	—	—
Ida. ....	199	X	X	X	—	—	—	—
Mont. ....	267	—	—	—	—	—	—	—
Nev. ....	—	—	—	—	—	—	—	—
N.M. ....	—	—	—	—	—	—	—	—
Utah ....	—	—	—	—	—	—	—	—
Wyo. ....	—	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>12,936</b>							
Alaska ....	—	—	—	—	—	—	—	—
Cal. ....	12,188	X	X	X	X	—	—	—
Hawaii ....	—	—	—	—	—	—	—	—
Ore. ....	748	X	X	X	—	—	—	—
Wash. ....	—	—	—	—	—	—	—	—
<b>Territories</b> .....	<b>—</b>							
Guam ....	—	—	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—	—	—
V.I. ....	—	—	—	—	—	—	—	—

Table 4-24  
V. IMMUNOLOGY  
D. Parasitological Serology Specimens

Lab & Region	Number of Specimens	Types of Specimens					
		Trichinosis	Toxoplasmosis	Amebiasis	Echinococcosis	Trypanosomiasis	Other
<b>Total</b> .....	<b>171,560</b>						
Average .....	4,766						
<b>New England</b> .....	<b>8,176</b>						
Conn. ....	2,971	X	X	—	—	—	—
Mass. ....	2,275	X	X	X	—	—	—
Me. ....	2,882	—	X	—	—	—	—
N.H. ....	—	—	—	—	—	—	—
R.I. ....	40	—	X	—	—	—	—
Vt. ....	8	X	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>2,014</b>						
N.J. ....	1,626	X	X	—	—	—	—
N.Y. ....	—	—	—	—	—	—	—
Pa. ....	388	X	X	X	X	X	Filariasis, Giardiasis, Malaria, Strongyloides, Schistosomiasis, Pneumocystosis, Paragoniniasis
<b>East North Central</b> .....	<b>20,449</b>						
Ill. ....	1,465	—	X	—	—	—	—
Ind. ....	814	X	X	—	—	—	—
Mich. ....	3,395	—	X	—	—	—	—
Ohio ....	3,137	—	X	X	—	—	—
Wisc. ....	11,638	—	X	—	—	—	—
<b>West North Central</b> .....	<b>7,921</b>						
Ia. ....	4,481	X	X	—	—	—	—
Kans. ....	—	—	—	—	—	—	—
Minn. ....	2,014	—	X	—	—	—	—
Mo. ....	1,282	X	X	—	—	—	—
Nebr. ....	—	—	—	—	—	—	—
N.D. ....	144	—	X	—	—	—	—
S.D. ....	—	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>20,524</b>						
Del. ....	—	—	—	—	—	—	—
D.C. ....	12	—	X	—	—	—	—
Fla. ....	1,293	—	X	—	—	—	—
Ga. ....	2,610	—	X	—	—	—	—
Md. ....	11,597	X	X	X	X	—	—
N.C. ....	2,402	—	X	—	—	—	—
S.C. ....	1,010	—	X	X	—	—	—
Va. ....	1,242	X	X	—	—	—	—
W. Va. ....	358	—	X	—	—	—	—
<b>East South Central</b> .....	<b>3,784</b>						
Ala. ....	2,158	—	X	X	—	—	—
Ky. ....	1,636	—	X	—	—	—	—
Miss. ....	—	—	—	—	—	—	—
Tenn. ....	—	—	—	—	—	—	—
<b>West South Central</b> .....	<b>6,930</b>						
Ark. ....	623	X	X	X	—	—	—
La. ....	1,536	—	X	—	—	—	—
Okla. ....	—	—	—	—	—	—	—
Tex. ....	4,771	—	X	X	—	—	—
<b>Mountain</b> .....	<b>5,016</b>						
Ariz. ....	1,379	—	X	—	—	—	—
Colo. ....	—	—	—	—	—	—	—
Ida. ....	2,875	—	X	—	—	—	—
Mont. ....	242	—	—	—	—	—	—
Nev. ....	—	—	—	—	—	—	—
N.M. ....	—	—	—	—	—	—	—
Utah ....	520	—	X	—	—	—	—
Wyo. ....	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>96,736</b>						
Alaska ....	—	—	—	—	—	—	—
Cal. ....	2,603	X	X	—	—	—	—
Hawaii ....	—	—	—	—	—	—	—
Ore. ....	94,133	—	X	—	—	—	—
Wash. ....	—	—	—	—	—	—	—
<b>Territories</b> .....	<b>—</b>						
Guam ....	—	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—	—
V.I. ....	—	—	—	—	—	—	—

Table 4-25  
V. IMMUNOLOGY  
E. Viral and Rickettsial Serology Specimens

Lab & Region	Number of Specimens	Procedures Used												Other	
		CF	HI	HAdI	Immunodiffusion (Agar Gel)	Neut. (Tissue Cul.)	Neut. Rabies	FA	Radioimmunoassay	Passive Hemagglutination	Reverse Passive Hemagglutination	O-X-Cell Hemolysis	Slide Agglutination		Heterophile Tests
<b>Total</b> .....	<b>1,295,052</b>														
Average .....	26,430														
<b>New England</b> .....	<b>88,714</b>														
Conn. ....	26,276	X	X	X	-	X	-	X	X	X	X	X	-	-	-
Mass. ....	8,369	X	X	-	-	X	-	X	X	-	-	X	-	-	-
Me. ....	14,361	X	X	X	-	-	-	X	-	X	X	X	-	-	-
N.H. ....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R.I. ....	26,633	-	X	X	-	-	-	-	-	-	-	X	X	X	-
Vt. ....	13,075	X	X	-	-	-	-	-	-	-	-	X	-	-	-
<b>Middle Atlantic</b> .....	<b>51,417</b>														
N.J. ....	44,137	X	X	-	-	X	-	X	-	X	-	X	X	X	-
N.Y. ....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa. ....	7,280	X	X	X	-	X	-	X	-	-	-	-	-	-	-
<b>East North Central</b> .....	<b>115,964</b>														
Ill. ....	8,462	X	X	X	-	X	-	X	-	X	X	-	-	X	-
Ind. ....	1,251	X	X	-	-	X	-	-	-	-	-	X	-	X	-
Mich. ....	72,589	X	X	-	-	X	-	-	X	-	-	-	-	-	-
Ohio ....	12,404	X	X	X	X	-	-	-	-	X	-	X	X	-	-
Wisc. ....	21,258	X	-	-	-	-	-	X	X	X	-	X	-	-	-
<b>West North Central</b> .....	<b>214,941</b>														
Ia. ....	77,194	X	X	-	-	X	-	-	X	-	-	-	-	X	-
Kans. ....	25,567	X	X	-	-	-	-	-	X	X	-	-	-	-	-
Minn. ....	51,364	X	X	X	-	X	-	X	X	-	-	X	-	-	-
Mo. ....	35,579	X	X	X	-	-	-	X	X	X	-	X	X	X	-
Nebr. ....	10,669	-	-	-	-	-	-	-	-	X	-	X	X	X	-
N.D. ....	1,360	X	-	-	-	-	-	X	-	-	-	X	-	X	-
S.D. ....	13,208	X	X	-	-	-	-	-	-	-	-	X	X	X	-
<b>South Atlantic</b> .....	<b>333,231</b>														
Del. ....	5,044	X	X	X	-	X	-	X	-	-	-	-	-	-	-
D.C. ....	442	X	X	-	-	-	-	-	-	-	-	-	-	X	-
Fla. ....	74,520	X	X	X	-	X	-	X	X	-	X	-	X	X	-
Ga. ....	7,423	X	X	-	-	X	-	-	-	X	-	-	-	-	-
Md. ....	121,563	X	X	X	X	X	X	X	X	X	-	X	X	X	-
N.C. ....	49,763	X	X	-	-	X	-	-	X	-	X	X	X	X	-
S.C. ....	45,618	X	X	-	-	-	-	-	-	X	X	X	X	X	-
Va. ....	22,696	X	X	X	-	X	-	X	-	X	-	X	X	X	-
W. Va. ....	6,162	X	X	-	-	-	-	-	-	-	-	-	-	X	-
<b>East South Central</b> .....	<b>135,047</b>														
Ala. ....	25,205	X	X	-	-	X	-	-	-	-	-	-	-	-	-
Ky. ....	20,023	X	X	-	-	-	-	-	-	-	-	-	-	X	-
Miss. ....	2,185	-	X	-	-	-	-	-	-	-	-	-	-	-	-
Tenn. ....	87,634	X	X	-	-	X	-	X	-	-	-	-	-	-	-
<b>West South Central</b> .....	<b>144,484</b>														
Ark. ....	9,292	X	X	-	X	-	-	-	X	X	-	-	X	X	-
La. ....	64,822	X	X	-	-	-	-	-	-	X	-	-	-	-	-
Okla. ....	3,702	X	X	-	X	-	-	-	-	X	-	-	X	X	-
Tex. ....	66,668	X	X	-	-	X	-	-	-	-	X	-	-	-	-
<b>Mountain</b> .....	<b>124,888</b>														
Ariz. ....	3,693	X	X	-	-	-	-	-	-	-	-	-	-	-	-
Colo. ....	60,348	X	X	-	-	-	-	-	-	-	-	X	-	X	-
Ida. ....	5,642	X	X	X	-	-	-	X	-	-	-	-	-	-	-
Mont. ....	25,971	X	X	X	-	X	-	-	-	-	-	-	-	-	-
Nev. ....	15	-	-	-	-	-	-	-	-	-	-	-	-	X	-
N.M. ....	13,925	X	X	-	-	X	-	X	-	X	X	-	X	-	-
Utah ....	5,854	X	X	-	-	X	-	-	-	-	-	-	-	X	-
Wyo. ....	9,440	-	X	-	-	-	-	-	-	-	-	X	-	-	-
<b>Pacific</b> .....	<b>81,502</b>														
Alaska .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cal. ....	9,521	X	X	X	-	X	X	X	X	X	-	-	-	-	-
Hawaii .....	16,133	X	X	X	-	X	X	X	X	X	-	-	X	X	-
Ore. ....	54,549	X	X	X	-	X	X	-	-	-	-	-	-	X	-
Wash. ....	1,299	X	X	-	-	-	-	-	-	-	-	-	-	-	-
<b>Territories</b> .....	<b>4,864</b>														
Guam .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.R. ....	4,864	-	X	-	-	-	-	-	-	-	-	-	-	-	-
V.I. ....	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-



Table 4-26  
**V. IMMUNOLOGY**  
**F. Other Serology Specimens**

Lab	Number Of Specimens	Disease Entity – Procedures Used
<b>Total</b> .....	<b>88,801</b>	
Average .....	6,831	
Conn. ....	2,423	Legionnaires' – IFA; Bipertussis – Agglutination
D.C. ....	2,896	Rubella – HAI
Ida. ....	272	Hepatitis – Elisa
Ia. ....	810	RA – latex agglutination, nonspecific – CKP
La. ....	71,498	PKU – Guthrie Screen
Md. ....	766	Gammopathies, Complement –
Nebr. ....	66	Legionnaires' Disease – IFA
Nev. ....	328	Rubella – HAI
N.J. ....	1,447	Legionnaires' Disease – IFA
Ohio ....	1,481	Legionnaires' Disease – IFA
Pa. ....	1,654	Legionnaires' Disease – IFA
S.C. ....	149	Systemic fungal disease – exoantigen (immunodiffusion)
Vt. ....	564	Legionnaires' Disease – IFA
Wisc. ....	4,447	Rheumatoid arthritis – latex agglutination, antinuclear antibody – FA, thyroid antibody – PHA

Table 4-27  
VI. HEMATOLOGY  
SUMMARY OF SPECIMENS BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Hematology Specimens	A	B	C
		Hematology Specimens	Immunohematology Specimens	Hemoglobinopathy Specimens
<b>Total</b> .....	<b>1,453,047</b>	<b>690,882</b>	<b>238,372</b>	<b>523,793</b>
Average .....	41,516	32,899	9,168	19,400
<b>New England</b> .....	<b>16,949</b>	<b>7,270</b>	<b>600</b>	<b>9,079</b>
Conn. ....	15,524	6,929	15	8,580
Mass. ....	—	—	—	—
Me. ....	—	—	—	—
N.H. ....	—	—	—	—
R.I. ....	1,425	341	585	499
Vt. ....	—	—	—	—
<b>Middle Atlantic</b> .....	<b>430</b>	<b>352</b>	<b>44</b>	<b>34</b>
N.J. ....	—	—	—	—
N.Y. ....	—	—	—	—
Pa. ....	430	352	44	34
<b>East North Central</b> .....	<b>48,559</b>	<b>12,411</b>	<b>30,945</b>	<b>5,203</b>
Ill. ....	—	—	—	—
Ind. ....	—	—	—	—
Mich. ....	11,902	11,902	—	—
Ohio ....	4,798	—	—	4,798
Wisc. ....	31,859	509	30,945	405
<b>West North Central</b> .....	<b>25,549</b>	<b>—</b>	<b>17,992</b>	<b>7,557</b>
Ia. ....	—	—	—	—
Kans. ....	—	—	—	—
Minn. ....	—	—	—	—
Mo. ....	14,154	—	6,597	7,557
Nebr. ....	—	—	—	—
N.D. ....	11,395	—	11,395	—
S.D. ....	—	—	—	—
<b>South Atlantic</b> .....	<b>517,480</b>	<b>215,106</b>	<b>79,241</b>	<b>223,133</b>
Del. ....	1,972	—	—	1,972
D.C. ....	53,304	40,559	1,960	10,785
Fla. ....	150,298	71,192	20,299	58,807
Ga. ....	49,507	—	12,170	37,337
Md. ....	94,076	53,591	17,312	23,173
N.C. ....	53,951	2,789	2,299	48,863
S.C. ....	70,556	46,235	7,913	16,408
Va. ....	42,557	—	17,288	25,269
W. Va. ....	1,259	740	—	519
<b>East South Central</b> .....	<b>265,732</b>	<b>116,627</b>	<b>33,219</b>	<b>115,886</b>
Ala. ....	77,251	—	10,174	67,077
Ky. ....	19,376	4,148	6,938	8,290
Miss. ....	167,979	112,479	14,981	40,519
Tenn. ....	1,126	—	1,126	—
<b>West South Central</b> .....	<b>468,722</b>	<b>277,268</b>	<b>48,938</b>	<b>142,516</b>
Ark. ....	44,980	22,300	5,650	17,030
La. ....	—	—	—	—
Okla. ....	9,321	1,899	3,867	3,555
Tex. ....	414,421	253,069	39,421	121,931
<b>Mountain</b> .....	<b>40,291</b>	<b>5,676</b>	<b>18,514</b>	<b>16,101</b>
Ariz. ....	2,886	—	—	2,886
Colo. ....	29,100	—	16,600	12,500
Ida. ....	5,139	5,139	—	—
Mont. ....	—	—	—	—
Nev. ....	1,166	537	629	—
N.M. ....	2,000	—	1,285	715
Utah ....	—	—	—	—
Wyo. ....	—	—	—	—
<b>Pacific</b> .....	<b>3,101</b>	<b>43</b>	<b>175</b>	<b>2,883</b>
Alaska ....	—	—	—	—
Cal. ....	43	43	—	—
Hawaii ....	175	—	175	—
Ore. ....	—	—	—	—
Wash. ....	2,883	—	—	2,883
<b>Territories</b> .....	<b>66,234</b>	<b>56,129</b>	<b>8,704</b>	<b>1,401</b>
Guam ....	4,333	3,923	410	—
P.R. ....	60,735	52,206	8,294	235
V.I. ....	1,166	—	—	1,166

Table 4-28  
VI. HEMATOLOGY  
A. Hematology Specimens

Lab & Region	Number of Specimens	Hematocrit	Hemoglobin	Cell Count	Sed. Rate	Reticulo-cyte Count	Differ-ential	Prothrombin Time	Platelet Count	Other
<b>Total</b> .....	<b>690,882</b>									
Average .....	32,899									
<b>New England</b> .....	<b>7,270</b>									
Conn. ....	6,929	X	X	X	X	X	X	X	-	Coulter CBC (7 Parameter)
Mass. ....	-	-	-	-	-	-	-	-	-	-
Me. ....	-	-	-	-	-	-	-	-	-	-
N.H. ....	-	-	-	-	-	-	-	-	-	-
R.I. ....	341	X	X	X	-	X	X	-	-	-
Vt. ....	-	-	-	-	-	-	-	-	-	-
<b>Middle Atlantic</b> .....	<b>352</b>									
N.J. ....	-	-	-	-	-	-	-	-	-	-
N.Y. ....	-	-	-	-	-	-	-	-	-	-
Pa. ....	352	X	X	X	X	-	X	X	-	MCV, MCH, MCHC, Photomicrographs
<b>East North Central</b> .....	<b>12,411</b>									
Ill. ....	-	-	-	-	-	-	-	-	-	-
Ind. ....	-	-	-	-	-	-	-	-	-	-
Mich. ....	11,902	X	X	X	X	X	X	X	X	-
Ohio ....	-	-	-	-	-	-	-	-	-	-
Wisc. ....	509	X	X	X	X	X	X	-	X	LE preps
<b>West North Central</b> .....										
Ia. ....	-	-	-	-	-	-	-	-	-	-
Kans. ....	-	-	-	-	-	-	-	-	-	-
Minn. ....	-	-	-	-	-	-	-	-	-	-
Mo. ....	-	-	-	-	-	-	-	-	-	-
Nebr. ....	-	-	-	-	-	-	-	-	-	-
N.D. ....	-	-	-	-	-	-	-	-	-	-
S.D. ....	-	-	-	-	-	-	-	-	-	-
<b>South Atlantic</b> .....	<b>215,106</b>									
Del. ....	-	-	-	-	-	-	-	-	-	-
D.C. ....	40,659	X	X	X	X	-	X	-	X	-
Fla. ....	71,192	X	X	-	-	-	-	-	-	-
Ga. ....	-	-	-	-	-	-	-	-	-	-
Md. ....	53,591	X	X	X	X	X	X	X	X	LE Prep
N.C. ....	2,789	X	X	X	-	-	X	-	-	-
S.C. ....	46,235	X	X	X	X	X	X	X	X	Bleeding time
Va. ....	-	-	-	-	-	-	-	-	-	-
W. Va. ....	740	X	X	X	X	-	X	-	-	-
<b>East South Central</b> .....	<b>116,627</b>									
Ala. ....	-	-	-	-	-	-	-	-	-	-
Ky. ....	4,148	X	X	X	-	-	X	-	-	-
Miss. ....	112,479	X	X	X	-	-	-	-	-	MCV, MCH, MCHC
Tenn. ....	-	-	-	-	-	-	-	-	-	-
<b>West South Central</b> .....	<b>277,268</b>									
Ark. ....	22,300	X	X	X	-	-	X	-	-	-
La. ....	-	-	-	-	-	-	-	-	-	-
Okla. ....	1,899	X	X	X	-	-	X	-	-	-
Tex. ....	253,069	X	X	X	X	-	X	-	-	-
<b>Mountain</b> .....	<b>5,676</b>									
Ariz. ....	-	-	-	-	-	-	-	-	-	-
Colo. ....	-	-	-	-	-	-	-	-	-	-
Ida. ....	5,139	X	-	-	X	-	-	-	-	-
Mont. ....	-	-	-	-	-	-	-	-	-	-
Nev. ....	537	X	X	X	-	-	X	-	-	-
N.M. ....	-	-	-	-	-	-	-	-	-	-
Utah ....	-	-	-	-	-	-	-	-	-	-
Wyo. ....	-	-	-	-	-	-	-	-	-	-
<b>Pacific</b> .....	<b>43</b>									
Alaska ....	-	-	-	-	-	-	-	-	-	-
Cal. ....	43	X	X	X	-	-	X	-	-	-
Hawaii ....	-	-	-	-	-	-	-	-	-	-
Ore. ....	-	-	-	-	-	-	-	-	-	-
Wash. ....	-	-	-	-	-	-	-	-	-	-
<b>Territories</b> .....	<b>56,129</b>									
Guam ....	3,923	X	X	X	X	X	X	-	X	RBC, Sperm count
P.R. ....	52,206	X	X	X	X	X	X	X	X	-
V.I. ....	-	-	-	-	-	-	-	-	-	-

Table 4-29  
VI. HEMATOLOGY  
B. Immunohematology Specimens

Lab & Region	Number of Specimens	Blood Grouping	Blood Typing	Other Test
<b>Total</b> .....	<b>238,372</b>			
Average .....	9,168			
<b>New England</b> .....	<b>600</b>			
Conn. ....	15	X	X	—
Mass. ....	—	—	—	—
Me. ....	—	—	—	—
N.H. ....	—	—	—	—
R.I. ....	585	—	X	X
Vt. ....	—	—	—	—
<b>Middle Atlantic</b> .....	<b>44</b>			
N.J. ....	—	—	—	—
N.Y. ....	—	—	—	—
Pa. ....	44	X	X	—
<b>East North Central</b> .....	<b>30,945</b>			
Ill. ....	—	—	—	—
Ind. ....	—	—	—	—
Mich. ....	—	—	—	—
Ohio ....	—	—	—	—
Wisc. ....	30,945	X	X	Atypical Blood Factor Antibody (antibody screening)
<b>West North Central</b> .....	<b>17,992</b>			
Ia. ....	—	—	—	—
Kans. ....	—	—	—	—
Minn. ....	—	—	—	—
Mo. ....	6,597	—	—	X
Nebr. ....	—	—	—	—
N.D. ....	11,395	X	X	—
S.D. ....	—	—	—	—
<b>South Atlantic</b> .....	<b>79,241</b>			
Del. ....	—	—	—	—
D.C. ....	1,960	X	X	X
Fla. ....	20,299	—	X	—
Ga. ....	12,170	—	—	Rh determination, irregular antibody screen
Md. ....	17,312	X	X	X
N.C. ....	2,299	X	X	X
S.C. ....	7,913	X	X	—
Va. ....	17,288	X	X	Du antigen, atypical antibody screens
W. Va. ....	—	—	—	—
<b>East South Central</b> .....	<b>33,219</b>			
Ala. ....	10,174	—	X	X
Ky. ....	6,938	X	X	Antibody Identification
Miss. ....	14,981	X	X	Indirect Coombs (identification titration)
Tenn. ....	1,126	X	X	X
<b>West South Central</b> .....	<b>48,938</b>			
Ark. ....	5,650	X	X	X
La. ....	—	—	—	—
Okla. ....	3,867	X	X	—
Tex. ....	39,421	X	X	X
<b>Mountain</b> .....	<b>18,514</b>			
Ariz. ....	—	—	—	—
Colo. ....	16,600	—	—	X
Ida. ....	—	—	—	—
Mont. ....	—	—	—	—
Nev. ....	629	X	X	—
N.M. ....	1,285	X	X	X
Utah ....	—	—	—	—
Wyo. ....	—	—	—	—
<b>Pacific</b> .....	<b>175</b>			
Alaska ....	—	—	—	—
Cal. ....	—	—	—	—
Hawaii ....	175	X	—	—
Ore. ....	—	—	—	—
Wash. ....	—	—	—	—
<b>Territories</b> .....	<b>8,704</b>			
Guam ....	410	X	X	—
P.R. ....	8,294	X	X	Coombs
V.I. ....	—	—	—	—

Table 4-30  
VI. HEMATOLOGY  
C. Hemoglobinopathy Specimens

Lab & Region	Number of Specimens	Procedures Used						Other
		Hemoglobin Cellulose Acetate Electro.	Citrate Agar Electrophoresis	Solubility Testing	Fetal Hemoglobin Assay	Hemoglobin A <sub>2</sub> Quantitation	Densitometry	
<b>Total</b> .....	<b>523,793</b>							
Average .....	19,400							
<b>New England</b> .....	<b>9,079</b>							
Conn. ....	8,580	X	X	X	X	X		
Mass. ....	—							
Me. ....	—							
N.H. ....	—							
R.I. ....	499	X		X	X	X	X	
Vt. ....	—							
<b>Middle Atlantic</b> .....	<b>34</b>							
N.J. ....	—							
N.Y. ....	—							
Pa. ....	34	X	X	X			X	
<b>East North Central</b> .....	<b>5,203</b>							
Ill. ....	—							
Ind. ....	—							
Mich. ....	—							
Ohio ....	4,798	X	X	X				
Wisc. ....	405	X		X				
<b>West North Central</b> .....	<b>7,557</b>							
Ia. ....	—							
Kans. ....	—							
Minn. ....	—							
Mo. ....	7,557		X	X				
Nebr. ....	—							
N.D. ....	—							
S.D. ....	—							
<b>South Atlantic</b> .....	<b>223,133</b>							
Del. ....	1,972	X						
D.C. ....	10,785	X		X				
Fla. ....	58,807	X	X	X	X	X		
Ga. ....	37,337	X		X				
Md. ....	23,173	X	X	X	X	X	X	
N.C. ....	48,863	X	X	X	X	X	X	
S.C. ....	16,408	X	X	X				
Va. ....	25,269	X		X				
W. Va. ....	519	X	X	X				
<b>East South Central</b> .....	<b>115,886</b>							
Ala. ....	67,077	X	X					Globin chain electrophoresis
Ky. ....	8,290	X	X	X	X	X	X	
Miss. ....	40,519	X						
Tenn. ....	—							
<b>West South Central</b> .....	<b>142,516</b>							
Ark. ....	17,030	X		X				
La. ....	—							
Okla. ....	3,555	X	X	X				
Tex. ....	121,931	X	X	X	X		X	
<b>Mountain</b> .....	<b>16,101</b>							
Ariz. ....	2,886	X	X				X	
Colo. ....	12,500	X	X					
Ida. ....	—							
Mont. ....	—							
Nev. ....	—							
N.M. ....	715	X		X				
Utah ....	—							
Wyo. ....	—							
<b>Pacific</b> .....	<b>2,883</b>							
Alaska ....	—							
Cal. ....	—							
Hawaii ....	—							
Ore. ....	—							
Wash. ....	2,883	X	X	X				
<b>Territories</b> .....	<b>1,401</b>							
Guam ....	—							
P.R. ....	235	X		X				
V.I. ....	1,166	X						

Table 4-31  
**VII. CLINICAL CHEMISTRY**  
**SUMMARY OF SPECIMENS BY CATEGORY AND SUB-CATEGORY**

Lab & Region	Total Clinical Chemistry Specimens	A	B	C	D	E
		Clinical Chemistry Specimens	Urinalysis Specimens	Inborn Errors of Metabolism	Multiphasic Screening	Other Clinical Chemistry
<b>Total</b> .....	<b>4,068,096</b>	<b>481,756</b>	<b>170,621</b>	<b>3,047,686</b>	<b>224,390</b>	<b>144,010</b>
Average .....	88,437	19,270	8,125	74,334	28,049	36,003
<b>New England</b> .....	<b>388,202</b>	<b>18,176</b>	<b>2,359</b>	<b>241,498</b>	<b>1,115</b>	<b>125,411</b>
Conn. ....	116,324	7,196	2,348	106,022	1,115	—
Mass. ....	195,952	—	—	70,541	—	125,411
Me. ....	17,363	—	—	17,363	—	—
N.H. ....	21,310	—	—	21,310	—	—
R.I. ....	37,253	10,980	11	26,262	—	—
Vt. ....	—	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>262,004</b>	<b>961</b>	<b>44</b>	<b>261,009</b>	—	—
N.J. ....	97,063	—	—	97,063	—	—
N.Y. ....	—	—	—	—	—	—
Pa. ....	164,941	961	44	163,946	—	—
<b>East North Central</b> .....	<b>619,304</b>	<b>46,022</b>	<b>8,908</b>	<b>555,003</b>	<b>9,319</b>	<b>52</b>
Ill. ....	12,311	—	—	12,311	—	—
Ind. ....	—	—	—	—	—	—
Mich. ....	225,743	16,588	8,908	200,247	—	—
Ohio ....	282,585	4,123	—	271,319	7,143	—
Wisc. ....	98,665	25,311	—	71,126	2,176	52
<b>West North Central</b> .....	<b>222,931</b>	<b>2,232</b>	—	<b>220,699</b>	—	—
Ia. ....	2,985	—	—	2,985	—	—
Kans. ....	50,584	—	—	50,584	—	—
Minn. ....	68,565	—	—	68,565	—	—
Mo. ....	58,811	2,232	—	56,579	—	—
Nebr. ....	2,772	—	—	2,772	—	—
N.D. ....	39,214	—	—	39,214	—	—
S.D. ....	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>1,198,327</b>	<b>192,891</b>	<b>102,411</b>	<b>684,380</b>	<b>207,027</b>	<b>11,618</b>
Del. ....	8,602	—	421	8,181	—	—
D.C. ....	41,629	—	30,011	—	—	11,618
Fla. ....	308,112	69,194	458	87,283	151,177	—
Ga. ....	112,479	10,438	—	102,041	—	—
Md. ....	201,565	62,788	28,936	109,841	—	—
N.C. ....	151,318	20,955	52	90,108	40,203	—
S.C. ....	155,276	3,439	41,976	100,552	9,309	—
Va. ....	150,471	17,409	—	133,062	—	—
W. Va. ....	68,875	8,668	557	53,312	6,338	—
<b>East South Central</b> .....	<b>361,407</b>	<b>85,403</b>	<b>1,277</b>	<b>260,869</b>	<b>6,929</b>	<b>6,929</b>
Ala. ....	151,933	5,516	—	146,417	—	—
Ky. ....	54,161	7,371	1,277	45,513	—	—
Miss. ....	86,374	72,516	—	—	6,929	6,929
Tenn. ....	68,939	—	—	68,939	—	—
<b>West South Central</b> .....	<b>620,291</b>	<b>108,575</b>	<b>36,046</b>	<b>475,670</b>	—	—
Ark. ....	71,641	5,047	53	66,541	—	—
La. ....	54,732	—	—	54,732	—	—
Okla. ....	50,139	1,503	1,970	46,666	—	—
Tex. ....	443,779	102,025	34,023	307,731	—	—
<b>Mountain</b> .....	<b>83,969</b>	<b>44</b>	<b>5,721</b>	<b>78,204</b>	—	—
Ariz. ....	—	—	—	—	—	—
Colo. ....	29,600	—	—	29,600	—	—
Ida. ....	4,579	—	4,455	124	—	—
Mont. ....	—	—	—	—	—	—
Nev. ....	8,925	—	1,266	7,659	—	—
N.M. ....	21,686	44	—	21,642	—	—
Utah ....	19,179	—	—	19,179	—	—
Wyo. ....	—	—	—	—	—	—
<b>Pacific</b> .....	<b>278,486</b>	<b>466</b>	<b>7,926</b>	<b>270,094</b>	—	—
Alaska ....	—	—	—	—	—	—
Cal. ....	510	466	12	32	—	—
Hawaii ....	7,914	—	7,914	—	—	—
Ore. ....	180,807	—	—	180,807	—	—
Wash. ....	89,255	—	—	89,255	—	—
<b>Territories</b> .....	<b>33,175</b>	<b>26,986</b>	<b>5,929</b>	<b>260</b>	—	—
Guam ....	3,640	638	3,002	—	—	—
P.R. ....	28,653	25,726	2,927	—	—	—
V.I. ....	882	622	—	260	—	—

Table 4-32  
 VII. CLINICAL CHEMISTRY  
 A. Clinical Chemistry Specimens

Lab	Number of Specimens	Types of Tests																Other						
		Glucose	Cholesterol	BUN	Uric Acid	Transaminases	Alkaline Phos.	Total Proteins	Serum Iron	Iron Binding Capacity	Triglycerides	Lactic Acid	Bilirubin	T <sub>4</sub> , T <sub>3</sub> , T <sub>3</sub> Uptake	Sodium	Potassium	Phosphorous		Calcium	Creatinine	Acid Phosphatase	Albumin	Chloride	LDH
<b>Total</b> .....	<b>481,756</b>																							
Average .....	19,270																							
Ala. ....	5,516	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ark. ....	5,047	X	X	X	X	X	X	X	-	X	-	-	X	-	X	-	X	-	X	-	X	X	-	-
Cal. ....	466	X	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
Conn. ....	7,196	X	X	X	X	X	X	X	X	X	-	X	-	X	X	X	X	X	X	-	X	X	X	Amylase, HDL, SGT
Fla. ....	69,194	X	X	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	Cholinesterase
Ga. ....	10,438	X	X	-	X	-	-	-	-	-	X	-	-	X	X	-	-	-	X	-	-	-	-	-
Guam. ....	638	X	X	X	X	-	-	X	-	-	-	X	-	-	-	X	-	X	-	X	-	X	-	-
Ky. ....	7,371	X	X	X	X	X	X	X	-	-	X	-	X	X	X	X	X	X	X	-	X	-	X	SGOT, HBDH, lithium, SGPT, GGTP, amyl, CPK
Md. ....	62,788	X	X	X	X	X	X	X	X	X	-	X	-	X	X	X	X	X	X	-	X	X	X	A/G ratio
Mich. ....	16,588	X	X	X	X	X	-	X	-	-	-	-	X	-	X	X	-	-	X	-	-	X	-	-
Miss. ....	72,516	X	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mo. ....	2,232	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.M. ....	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cholinesterase
N.C. ....	20,955	X	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio ....	4,123	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okla. ....	1,503	X	-	X	-	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa. ....	961	X	X	X	X	X	X	X	-	-	X	-	X	X	X	X	X	X	X	-	X	X	X	Lithium, amylase, CPK isoenzymes, magnesium, glycohemoglobins.
P.R. ....	25,726	X	X	X	X	X	X	X	-	-	X	-	X	X	X	X	X	X	X	X	X	X	X	Cholinesterase, amylase, thymol, 17-Ketosteroids, lithium level
R.I. ....	10,980	X	X	X	-	X	-	-	-	-	-	X	X	-	X	X	-	-	X	-	-	X	-	Magnesium
S.C. ....	3,439	X	X	X	X	X	X	X	-	-	-	X	-	X	X	X	X	X	X	-	X	X	-	CO <sub>2</sub>
Tex. ....	102,025	X	X	X	X	X	-	-	-	X	-	X	-	X	X	-	X	X	X	-	-	-	-	-
Va. ....	17,409	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V.I. ....	622	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
W. Va. ....	8,668	X	-	-	-	-	-	-	-	X	-	-	-	X	X	-	-	X	-	-	-	-	-	-
Wisc. ....	25,311	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-	X	X	X	Electrophoresis—protein and lipoprotein, digoxin, RSH, lithium, magnesium, urinary steroids, VMA, 5-HIAA

Table 4-33  
VII. CLINICAL CHEMISTRY  
B. Urinalysis Specimens

Lab & Region	Number of Specimens	Procedures Used			
		Routine	Microscopic	Pregnancy Test	Other
<b>Total</b> .....	<b>170,621</b>				
Average .....	8,125				
<b>New England</b> .....	<b>2,359</b>				
Conn. ....	2,348	X	X	—	—
Mass. ....	—	—	—	—	—
Me. ....	—	—	—	—	—
N.H. ....	—	—	—	—	—
R.I. ....	11	X	X	—	—
Vt. ....	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>44</b>				
N.J. ....	—	—	—	—	—
N.Y. ....	—	—	—	—	—
Pa. ....	44	X	X	X	—
<b>East North Central</b> .....	<b>8,908</b>				
Ill. ....	—	—	—	—	—
Ind. ....	—	—	—	—	—
Mich. ....	8,908	X	X	—	—
Ohio ....	—	—	—	—	—
Wisc. ....	—	—	—	—	—
<b>West North Central</b> .....	<b>—</b>				
Ia. ....	—	—	—	—	—
Kans. ....	—	—	—	—	—
Minn. ....	—	—	—	—	—
Mo. ....	—	—	—	—	—
Nebr. ....	—	—	—	—	—
N.D. ....	—	—	—	—	—
S.D. ....	—	—	—	—	—
<b>South Atlantic</b> .....	<b>102,411</b>				
Del. ....	421	X	X	—	—
D.C. ....	30,011	X	X	X	—
Fla. ....	458	X	—	X	—
Ga. ....	—	—	—	—	—
Md. ....	28,936	X	X	X	—
N.C. ....	52	X	X	—	—
S.C. ....	41,976	X	X	X	—
Va. ....	—	—	—	—	—
W. Va. ....	557	X	X	—	—
<b>East South Central</b> .....	<b>1,277</b>				
Ala. ....	—	—	—	—	—
Ky. ....	1,277	X	X	X	—
Miss. ....	—	—	—	—	—
Tenn. ....	—	—	—	—	—
<b>West South Central</b> .....	<b>36,046</b>				
Ark. ....	53	X	X	—	—
La. ....	—	—	—	—	—
Okla. ....	1,970	X	X	X	—
Tex. ....	34,023	X	X	X	—
<b>Mountain</b> .....	<b>5,721</b>				
Ariz. ....	—	—	—	—	—
Colo. ....	—	—	—	—	—
Ida. ....	4,455	X	—	X	X
Mont. ....	—	—	—	—	—
Nev. ....	1,266	X	X	—	—
N.M. ....	—	—	—	—	—
Utah ....	—	—	—	—	—
Wyo. ....	—	—	—	—	—
<b>Pacific</b> .....	<b>7,926</b>				
Alaska ....	—	—	—	—	—
Cal. ....	12	X	—	X	—
Hawaii ....	7,914	—	—	—	INH
Ore. ....	—	—	—	—	—
Wash. ....	—	—	—	—	—
<b>Territories</b> .....	<b>5,929</b>				
Guam ....	3,002	X	X	X	—
P.R. ....	2,927	X	X	—	—
V.I. ....	—	—	—	—	—



Table 4-34  
 VII. CLINICAL CHEMISTRY  
 C. Inborn Errors of Metabolism Specimens

Lab & Region	Number of Specimens	Inborn Error Assays								
		PKU	Tyrosinemia	Galactosemia	MSUD	Hyperthyroidism	Amino Acid Chromatography	Homocystinuria	Maternal PKU	Other
<b>Total</b> .....	<b>3,047,686</b>									
Average .....	74,334									
<b>New England</b> .....	<b>241,498</b>									
Conn. ....	106,022	X	—	X	—	X	X	—	—	Tay Sachs (serum and leucocytes)
Mass. ....	70,541	X	—	X	X	—	—	X	—	—
Me. ....	17,363	X	X	X	X	X	—	X	X	—
N.H. ....	21,310	X	—	—	—	—	—	—	—	—
R.I. ....	26,262	X	X	X	—	—	X	X	—	—
Vt. ....	—	—	—	—	—	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>261,009</b>									
N.J. ....	97,063	X	—	—	—	X	—	—	—	—
N.Y. ....	—	—	—	—	—	—	—	—	—	—
Pa. ....	163,946	X	X	—	—	X	—	—	X	—
<b>East North Central</b> .....	<b>555,003</b>									
Ill. ....	12,311	X	—	—	—	X	—	—	—	—
Ind. ....	—	—	—	—	—	—	—	—	—	—
Mich. ....	200,247	X	—	—	—	X	—	—	—	—
Ohio ....	271,319	X	—	X	—	X	—	X	X	—
Wisc. ....	71,126	X	—	X	X	X	—	—	—	—
<b>West North Central</b> .....	<b>220,899</b>									
Ia. ....	2,985	X	—	—	—	—	—	—	—	—
Kans. ....	50,584	X	—	—	—	X	—	—	—	—
Minn. ....	68,565	X	—	X	—	X	—	—	—	—
Mo. ....	56,579	X	—	—	—	X	—	—	—	—
Nebr. ....	2,772	X	—	—	—	X	—	—	—	—
N.D. ....	39,214	X	—	—	—	X	—	—	—	—
S.D. ....	—	—	—	—	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>684,380</b>									
Del. ....	8,181	X	—	—	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—	—	—	—	—
Fla. ....	87,283	X	—	—	—	—	—	—	—	—
Ga. ....	102,041	X	X	X	X	X	—	X	—	—
Md. ....	109,841	X	X	X	X	X	—	X	X	—
N.C. ....	90,108	X	X	—	—	X	—	—	—	—
S.C. ....	100,552	X	—	—	—	X	—	—	—	—
Va. ....	133,062	X	X	—	—	X	—	—	X	—
W. Va. ....	53,312	X	—	—	—	X	X	—	—	—
<b>East South Central</b> .....	<b>260,869</b>									
Ala. ....	146,417	X	—	—	—	X	X	—	X	—
Ky. ....	45,513	X	—	X	—	—	—	—	—	—
Miss. ....	—	—	—	—	—	—	—	—	—	—
Tenn. ....	68,939	X	—	—	—	—	—	—	—	—
<b>West South Central</b> .....	<b>475,670</b>									
Ark. ....	66,541	X	—	—	—	X	—	—	X	—
La. ....	54,732	X	—	—	—	—	—	—	—	Hemoglobin electrophoresis (Sickle cell)
Okla. ....	46,666	X	X	—	—	X	—	—	—	—
Tex. ....	307,731	X	X	X	—	—	—	—	—	—
<b>Mountain</b> .....	<b>78,204</b>									
Ariz. ....	—	—	—	—	—	—	—	—	—	—
Colo. ....	29,600	X	—	X	X	X	—	X	—	—
Ida. ....	124*	X	—	—	—	—	—	—	—	—
Mont. ....	—*	—	—	—	—	—	—	—	—	—
Nev. ....	7,659	X	—	—	—	—	—	—	—	—
N.M. ....	21,642	X	—	—	—	—	—	—	—	—
Utah ....	19,179	X	—	X	—	X	—	—	—	—
Wyo. ....	—	—	—	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>270,094</b>									
Alaska ....	—*	—	—	—	—	—	—	—	—	—
Cal. ....	32	X	—	—	—	—	—	—	—	—
Hawaii ....	—	—	—	—	—	—	—	—	—	—
Ore. ....	180,807*	X	X	X	X	X	X	X	X	—
Wash. ....	89,255	X	—	—	—	X	—	—	—	—
<b>Territories</b> .....	<b>260</b>									
Guam ....	—	—	—	—	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—	—	—	—	—
V.I. ....	260	X	—	—	—	—	—	—	—	—

\*Oregon State Laboratory serves as regional metabolic testing center for the states of Alaska, Idaho, and Montana.

Table 4-35  
**VII. CLINICAL CHEMISTRY**  
**D. Multiphasic Screening Specimens**

Lab & Region	Number of Specimens	Procedures Used				
		Single or Discrete Analyzer	2 Channel Anal.	3-6 Channel Anal.	7-12 Channel Anal.	Other Multichannel Analyzers
<b>Total</b> .....	<b>224,390</b>					
Average .....	28,049					
<b>New England</b> .....	<b>1,115</b>					
Conn. ....	1,115	X	X	X	-	-
Mass. ....	-	-	-	-	-	-
Me. ....	-	-	-	-	-	-
N.H. ....	-	-	-	-	-	-
R.I. ....	-	-	-	-	-	-
Vt. ....	-	-	-	-	-	-
<b>Middle Atlantic</b> .....	<b>-</b>					
N.J. ....	-	-	-	-	-	-
N.Y. ....	-	-	-	-	-	-
Pa. ....	-	-	-	-	-	-
<b>East North Central</b> ....	<b>9,319</b>					
Ill. ....	-	-	-	-	-	-
Ind. ....	-	-	-	-	-	-
Mich. ....	-	-	-	-	-	-
Ohio ....	7,143	-	-	-	X	-
Wisc. ....	2,176	X	-	-	-	-
<b>West North Central</b> ...	<b>-</b>					
Ia. ....	-	-	-	-	-	-
Kans. ....	-	-	-	-	-	-
Minn. ....	-	-	-	-	-	-
Mo. ....	-	-	-	-	-	-
Nebr. ....	-	-	-	-	-	-
N.D. ....	-	-	-	-	-	-
S.D. ....	-	-	-	-	-	-
<b>South Atlantic</b> .....	<b>207,027</b>					
Del. ....	-	-	-	-	-	-
D.C. ....	-	-	-	-	-	-
Fla. ....	151,177	-	X	-	-	-
Ga. ....	-	-	-	-	-	-
Md. ....	-	-	-	-	-	-
N.C. ....	40,203	-	-	X	X	-
S.C. ....	9,309	X	-	-	-	-
Va. ....	-	-	-	-	-	-
W. Va. ....	6,338	-	-	-	X	-
<b>East South Central</b> ....	<b>6,929</b>					
Ala. ....	-	-	-	-	-	-
Ky. ....	-	-	-	-	-	-
Miss. ....	6,929	-	-	X	-	-
Tenn. ....	-	-	-	-	-	-
<b>West South Central</b> ...	<b>-</b>					
Ark. ....	-	-	-	-	-	-
La. ....	-	-	-	-	-	-
Okla. ....	-	-	-	-	-	-
Tex. ....	-	-	-	-	-	-
<b>Mountain</b> .....	<b>-</b>					
Ariz. ....	-	-	-	-	-	-
Colo. ....	-	-	-	-	-	-
Ida. ....	-	-	-	-	-	-
Mont. ....	-	-	-	-	-	-
Nev. ....	-	-	-	-	-	-
N.M. ....	-	-	-	-	-	-
Utah ....	-	-	-	-	-	-
Wyo. ....	-	-	-	-	-	-
<b>Pacific</b> .....	<b>-</b>					
Alaska ....	-	-	-	-	-	-
Cal. ....	-	-	-	-	-	-
Hawaii ....	-	-	-	-	-	-
Ore. ....	-	-	-	-	-	-
Wash. ....	-	-	-	-	-	-
<b>Territories</b> .....	<b>-</b>					
Guam ....	-	-	-	-	-	-
P.R. ....	-	-	-	-	-	-
V.I. ....	-	-	-	-	-	-

Table 4-36  
 VII. CLINICAL CHEMISTRY  
 E. Other Specimens

Lab	Number of Specimens	Type — Procedures Used
<b>Total</b> .....	<b>144,010</b>	
<b>Average</b> .....	<b>36,003</b>	
D.C. ....	11,618	Sickle cell anemia — electrophoresis, solubility test
Mass. ....	125,411	Umbilical cord blood (filter paper) — Phenylalanine (Guthrie) for maternal PKU, Histidine (Guthrie) for maternal histidinemia; Urine (filter paper) — AA chromatography (for methylmalonic aciduria)
Miss. ....	6,929	Electrolytes — flame photometer, chloride meter
Wisc. ....	52	Renal calculi (Stones) — qualitative analysis

Table 4-37  
VIII. PATHOLOGY

Lab & Region	Total Pathology Specimens	Exfoliative Cytology Specimens	Cytogenetic Specimens	Other Pathology Specimens	
				Number of Specimens	Types
<b>Total</b> .....	<b>512,730</b>	<b>495,931</b>	<b>2,093</b>	<b>14,706</b>	
Average .....	39,441				
<b>New England</b> .....	<b>3,082</b>	<b>3,082</b>	—	—	—
Conn. ....	3,082	3,082	—	—	—
Mass. ....	—	—	—	—	—
Me. ....	—	—	—	—	—
N.H. ....	—	—	—	—	—
R.I. ....	—	—	—	—	—
Vt. ....	—	—	—	—	—
<b>Middle Atlantic</b> .....	—	—	—	—	—
N.J. ....	—	—	—	—	—
N.Y. ....	—	—	—	—	—
Pa. ....	—	—	—	—	—
<b>East North Central</b> .....	<b>100,134</b>	<b>86,879</b>	<b>1,598</b>	<b>11,657</b>	—
Ill. ....	—	—	—	—	—
Ind. ....	—	—	—	—	—
Mich. ....	—	—	—	—	—
Ohio ....	—	—	—	—	—
Wisc. ....	100,134	86,879	1,598	11,657	Surgical pathology
<b>West North Central</b> .....	<b>204</b>	—	<b>204</b>	—	—
Ia. ....	—	—	—	—	—
Kans. ....	—	—	—	—	—
Minn. ....	204	—	204	—	—
Mo. ....	—	—	—	—	—
Nebr. ....	—	—	—	—	—
N.D. ....	—	—	—	—	—
S.D. ....	—	—	—	—	—
<b>South Atlantic</b> .....	<b>388,123</b>	<b>385,940</b>	—	<b>2,183</b>	—
Del. ....	47,441	45,313	—	2,128	Hemocult (occult blood)
D.C. ....	16,976	16,976	—	—	—
Fla. ....	—	—	—	—	—
Ga. ....	—	—	—	—	—
Md. ....	73,766	73,766	—	—	—
N.C. ....	204,633	204,633	—	—	—
S.C. ....	—	—	—	—	—
Va. ....	—	—	—	—	—
W. Va. ....	45,307	45,252	—	55	Breast, sputum, rectal, perineal, urine, penis
<b>East South Central</b> .....	<b>15,547</b>	<b>14,700</b>	—	<b>847</b>	—
Ala. ....	14,700	14,700	—	—	—
Ky. ....	847	—	—	847	Investigations of coroner's cases for cause of death
Miss. ....	—	—	—	—	—
Tenn. ....	—	—	—	—	—
<b>West South Central</b> .....	—	—	—	—	—
Ark. ....	—	—	—	—	—
La. ....	—	—	—	—	—
Okla. ....	—	—	—	—	—
Tex. ....	—	—	—	—	—
<b>Mountain</b> .....	<b>4,547</b>	<b>4,237</b>	<b>291</b>	<b>19</b>	—
Ariz. ....	—	—	—	—	—
Colo. ....	—	—	—	—	—
Ida. ....	1,480	1,170	291	19	Buccal Smears
Mont. ....	—	—	—	—	—
Nev. ....	—	—	—	—	—
N.M. ....	3,067	3,067	—	—	—
Utah ....	—	—	—	—	—
Wyo. ....	—	—	—	—	—
<b>Pacific</b> .....	—	—	—	—	—
Alaska ....	—	—	—	—	—
Cal. ....	—	—	—	—	—
Hawaii ....	—	—	—	—	—
Ore. ....	—	—	—	—	—
Wash. ....	—	—	—	—	—
<b>Territories</b> .....	<b>1,093</b>	<b>1,093</b>	—	—	—
Guam ....	1,093	1,093	—	—	—
P.R. ....	—	—	—	—	—
V.I. ....	—	—	—	—	—

Table 4-38  
IX. ENVIRONMENTAL MICROBIOLOGY  
SUMMARY OF SAMPLES BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Environmental Microbiology	A	B	C	D
		Water Samples	Dairy Product Samples	Food and Beverage Samples	Other Micro. Samples
<b>Total</b> .....	<b>2,629,005</b>	<b>2,117,215</b>	<b>378,229</b>	<b>49,782</b>	<b>8,850</b>
Average .....	53,653	47,049	10,506	1,106	590
<b>New England</b> .....	<b>178,864</b>	<b>74,929</b>	<b>22,147</b>	<b>6,212</b>	<b>647</b>
Conn. ....	23,467	11,918	10,842	691	16
Mass. ....	38	—	—	38	—
Me. ....	19,685	19,519	—	—	166
N.H. ....	—	—	—	—	—
R.I. ....	29,810	12,844	11,305	5,196	465
Vt. ....	30,935	30,648	—	287	—
<b>Middle Atlantic</b> .....	<b>18,906</b>	<b>12,696</b>	<b>3,245</b>	<b>959</b>	<b>6</b>
N.J. ....	16,906	12,696	3,245	959	6
N.y. ....	—	—	—	—	—
Pa. ....	—	—	—	—	—
<b>East North Central</b> .....	<b>360,266</b>	<b>330,687</b>	<b>25,267</b>	<b>3,862</b>	<b>450</b>
Ill. ....	57,620	42,534	13,584	1,232	—
Ind. ....	58,767	50,280	6,003	2,034	450
Mich. ....	101,848	96,155	5,362	331	—
Ohio ....	75,361	74,778	318	265	—
Wisc. ....	66,940	66,940	—	—	—
<b>West North Central</b> .....	<b>277,278</b>	<b>260,710</b>	<b>9,749</b>	<b>4,048</b>	<b>2,771</b>
Ia. ....	45,736	44,863	856	17	—
Kans. ....	51,274	51,063	—	211	—
Minn. ....	—	—	—	—	—
Mo. ....	125,059	119,051	2,186	3,755	67
Nebr. ....	23,896	23,896	—	—	—
N.D. ....	10,480	1,059	6,707	10	2,704
S.D. ....	20,833	20,778	—	55	—
<b>South Atlantic</b> .....	<b>528,236</b>	<b>471,622</b>	<b>45,444</b>	<b>10,356</b>	<b>814</b>
Del. ....	11,800	10,437	1,057	306	—
D.C. ....	1,191	78	386	727	—
Fla. ....	256,551	226,564	7,384	2,603	—
Ga. ....	163	—	—	163	—
Md. ....	103,569	86,972	15,150	1,447	—
N.C. ....	75,621	75,274	—	347	—
S.C. ....	15,160	—	11,348	3,812	—
Va. ....	53,586	46,831	5,115	826	814
W. Va. ....	30,595	25,466	5,004	125	—
<b>East South Central</b> .....	<b>318,632</b>	<b>224,010</b>	<b>92,718</b>	<b>1,778</b>	<b>26</b>
Ala. ....	125,284	86,811	37,475	998	—
Ky. ....	45,604	36,069	9,367	168	—
Miss. ....	77,157	56,183	20,472	502	—
Tenn. ....	70,487	44,947	25,404	110	26
<b>West South Central</b> .....	<b>653,116</b>	<b>507,377</b>	<b>134,520</b>	<b>8,470</b>	<b>2,749</b>
Ark. ....	61,972	53,538	7,592	842	—
La. ....	119,391	77,950	37,712	980	2,749
Okla. ....	67,211	57,118	9,649	444	—
Tex. ....	404,542	318,771	79,567	6,204	—
<b>Mountain</b> .....	<b>208,435</b>	<b>170,916</b>	<b>32,691</b>	<b>4,787</b>	<b>41</b>
Ariz. ....	24,890	18,136	6,235	519	—
Colo. ....	36,110	31,712	4,104	294	—
Ida. ....	41,039	23,230	15,859	1,909	41
Mont. ....	10,807	10,609	—	207	—
Nev. ....	22,259	19,127	2,810	322	—
N.M. ....	27,175	23,285	3,254	636	—
Utah ....	36,705	35,376	429	900	—
Wyo. ....	9,441	9,441	—	—	—
<b>Pacific</b> .....	<b>59,140</b>	<b>51,321</b>	<b>3,949</b>	<b>2,580</b>	<b>1,290</b>
Alaska ....	—	—	—	—	—
Cal. ....	14,629	13,416	360	282	571
Hawaii ....	11,447	6,612	3,589	544	702
Ore. ....	26,480	26,419	—	44	17
Wash. ....	6,584	4,874	—	1,710	—
<b>Territories</b> .....	<b>28,232</b>	<b>12,947</b>	<b>8,499</b>	<b>6,730</b>	<b>56</b>
Guam ....	302	—	80	222	—
P.R. ....	19,352	7,584	5,460	6,252	56
V.I. ....	8,578	5,363	2,959	256	—

Table 4-39  
IX. ENVIRONMENTAL MICROBIOLOGY  
A. Water Samples

Lab & Region	Number of Samples	Type & Procedure											
		Potable			Non-Potable			Swimming Pools			Sewage & Waste		
		Membrane Filter	Multiple Tube	Other	Membrane Filter	Multiple Tube	Other	Membrane Filter	Multiple Tube	Other	Membrane Filter	Multiple Tube	Other
<b>Total</b> .....	<b>2,117,215</b>												
Average .....	47,049												
<b>New England</b> .....	<b>74,929</b>												
Conn. ....	11,918	X	X	X	X	X	X	X	X	X	X	X	X
Mass. ....	—	—	—	—	—	—	—	—	—	—	—	—	—
Me. ....	19,519	X	X	—	X	X	—	X	X	—	X	X	—
N.H. ....	—	—	—	—	—	—	—	—	—	—	—	—	—
R.I. ....	12,844	—	X	—	—	X	—	—	X	—	—	X	—
Vt. ....	30,648	X	—	—	—	—	—	—	X	—	—	—	—
<b>Middle Atlantic</b> .....	<b>12,696</b>												
N.J. ....	12,696	X	—	—	—	X	—	—	—	—	—	—	—
N.Y. ....	—	—	—	—	—	—	—	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>East North Central</b> .....	<b>330,687</b>												
Ill. ....	42,534	X	X	—	X	X	—	X	X	—	X	X	—
Ind. ....	50,280	X	X	—	X	X	—	—	X	—	X	X	—
Mich. ....	96,155	X	—	—	X	—	—	X	X	—	X	—	—
Ohio ....	74,778	X	X	—	X	X	—	X	X	—	X	X	—
Wisc. ....	66,940	X	X	—	X	X	—	X	X	—	X	X	—
<b>West North Central</b> .....	<b>260,710</b>												
Ia. ....	44,863	—	X	—	X	—	—	—	X	—	—	—	—
Kans. ....	51,063	X	—	—	X	—	—	X	—	—	—	—	—
Minn. ....	—	—	—	—	—	—	—	—	—	—	—	—	—
Mo. ....	119,051	X	—	—	X	X	X	—	—	X	—	—	—
Nebr. ....	23,896	X	X	—	—	—	—	—	—	—	—	—	—
N.D. ....	1,059	X	X	—	—	—	—	X	—	—	—	X	—
S.D. ....	20,778	X	X	—	X	X	—	X	X	—	X	X	—
<b>South Atlantic</b> .....	<b>471,622</b>												
Del. ....	10,437	X	X	—	—	X	—	X	—	—	—	—	—
D.C. ....	78	X	—	—	—	X	—	X	—	—	—	X	—
Fla. ....	226,564	X	X	—	—	—	—	X	—	—	—	X	—
Ga. ....	—	—	—	—	—	—	—	—	—	—	—	—	—
Md. ....	86,972	X	—	—	—	X	—	—	X	—	—	X	—
N.C. ....	75,274	X	X	—	X	X	—	X	X	—	—	X	—
S.C. ....	—	—	—	—	—	—	—	—	—	—	—	—	—
Va. ....	46,831	X	X	—	X	X	—	X	X	—	X	X	—
W. Va. ....	25,466	X	X	—	X	X	—	—	X	—	—	X	—
<b>East South Central</b> .....	<b>224,010</b>												
Ala. ....	86,811	X	X	—	X	X	—	X	—	—	—	X	—
Ky. ....	36,069	X	X	X	—	X	X	—	X	—	—	—	—
Miss. ....	56,183	X	X	—	—	X	—	—	—	—	—	—	—
Tenn. ....	44,947	X	—	—	X	—	—	X	—	—	—	—	—
<b>West South Central</b> .....	<b>507,377</b>												
Ark. ....	53,538	X	—	—	X	—	—	X	—	—	—	—	—
La. ....	77,950	X	X	—	—	X	—	—	—	—	—	X	—
Okla. ....	57,118	X	X	—	X	X	—	X	—	—	X	X	—
Tex. ....	318,771	X	X	—	X	X	—	—	—	—	—	—	—
<b>Mountain</b> .....	<b>170,916</b>												
Ariz. ....	18,136	X	X	X	X	X	X	—	X	X	X	X	X
Colo. ....	31,712	X	—	—	X	X	—	—	X	—	X	X	—
Ida. ....	23,230	X	—	—	X	X	—	—	—	X	X	X	—
Mont. ....	10,609	—	—	—	X	X	—	—	X	—	X	X	—
Nev. ....	19,127	X	X	—	X	X	—	—	X	—	X	X	—
N.M. ....	23,285	X	—	—	X	X	—	—	X	—	—	X	—
Utah ....	35,376	X	X	—	X	X	—	—	X	—	—	X	—
Wyo. ....	9,441	—	X	—	—	—	—	—	X	—	—	—	—
<b>Pacific</b> .....	<b>51,321</b>												
Alaska ....	—	—	—	—	—	—	—	—	—	—	—	—	—
Cal. ....	13,416	X	X	X	—	X	X	—	X	X	—	X	X
Hawaii ....	6,612	X	X	X	X	X	X	—	—	—	X	X	X
Ore. ....	26,419	—	—	—	—	—	—	—	—	—	—	—	—
Wash. ....	4,874	—	—	—	—	—	—	—	—	—	—	—	—
<b>Territories</b> .....	<b>12,947</b>												
Guam ....	—	—	—	—	—	—	—	—	—	—	—	—	—
P.R. ....	7,584	X	X	X	—	X	—	—	—	—	X	—	—
V.I. ....	5,363	X	—	—	X	—	—	X	—	—	—	—	—

378229  
8499  
369730

Table 4-40  
IX. ENVIRONMENTAL MICROBIOLOGY  
B. Dairy Product Samples

Lab & Region	Number of Samples	Types of Samples					Other
		Milk & Cream	Ice Cream	Cheese	Other Dairy Products	Frozen Desserts	
<b>Total</b> .....	<b>378,229</b>						
Average .....	10,506						
<b>New England</b> .....	<b>22,147</b>						
Conn. ....	10,842	X	X	X	X	X	Yogurt, empty containers
Mass. ....	—	—	—	—	—	—	—
Me. ....	—	—	—	—	—	—	—
N.H. ....	—	—	—	—	—	—	—
R.I. ....	11,305	X	X	X	X	X	X
Vt. ....	—	—	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>3,245</b>						
N.J. ....	3,245	X	X	X	X	X	Non-dairy creamers, reconstituted powdered dairy products
N.Y. ....	—	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—	—
<b>East North Central</b> .....	<b>25,267</b>						
Ill. ....	13,584	X	X	X	X	X	—
Ind. ....	6,003	X	X	X	X	X	—
Mlch. ....	5,362	X	X	X	X	—	—
Ohio ....	318	X	X	X	X	—	—
Wisc. ....	—	—	—	—	—	—	—
<b>West North Central</b> .....	<b>9,749</b>						
Ia. ....	856	X	—	—	X	—	—
Kans. ....	—	—	—	—	—	—	—
Minn. ....	—	—	—	—	—	—	—
Mo. ....	2,186	X	X	X	X	X	—
Nebr. ....	—	—	—	—	—	—	—
N.D. ....	6,707	X	X	X	X	X	—
S.D. ....	—	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>45,444</b>						
Del. ....	1,057	X	—	—	—	—	—
D.C. ....	386	X	X	—	—	X	—
Fla. ....	7,384	X	X	X	X	X	—
Ga. ....	—	—	—	—	—	—	—
Md. ....	15,150	X	X	X	X	X	—
N.C. ....	—	—	—	—	—	—	—
S.C. ....	11,348	X	X	—	X	X	—
Va. ....	5,115	X	X	—	X	—	Cultured products, milk shakes, counter freezes, milk cartons
W. Va. ....	5,004	X	—	—	X	—	—
<b>East South Central</b> .....	<b>92,718</b>						
Ala. ....	37,475	X	X	X	X	X	Empty cartons, sandwich spreads, yogurt, check specimens
Ky. ....	9,367	X	X	X	X	X	—
Miss. ....	20,472	X	—	—	X	—	—
Tenn. ....	25,404	X	X	—	X	X	—
<b>West South Central</b> .....	<b>134,520</b>						
Ark. ....	7,592	X	X	X	X	X	—
La. ....	37,712	X	X	X	X	X	Plastic milk containers
Okla. ....	9,649	X	—	—	—	—	—
Tex. ....	79,567	X	X	—	—	X	—
<b>Mountain</b> .....	<b>32,691</b>						
Ariz. ....	6,235	X	X	—	X	X	—
Colo. ....	4,104	X	X	X	X	—	—
Ida. ....	15,859	X	—	—	—	—	—
Mont. ....	—	—	—	—	—	—	—
Nev. ....	2,810	X	X	—	X	X	—
N.M. ....	3,254	X	X	X	X	X	—
Utah ....	429	X	X	—	—	X	—
Wyo. ....	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>3,949</b>						
Alaska ....	—	—	—	—	—	—	—
Cal. ....	360	X	—	—	—	—	—
Hawaii ....	3,589	X	X	—	X	X	—
Ore. ....	—	—	—	—	—	—	—
Wash. ....	—	—	—	—	—	—	—
<b>Territories</b> .....	<b>8,499</b>						
Guam ....	80	—	—	—	—	—	Raw milk
P.R. ....	5,460	X	X	—	X	X	—
V.I. ....	2,959	X	X	—	—	—	—

43,052

Table 4-41  
IX. ENVIRONMENTAL MICROBIOLOGY

Lab & Region	C. Food and Beverage Samples					D. Other Samples	
	Number of Samples	Types				Number of Samples	Other
		Food Quality	Food-Associated Disease Outbreaks	Seafood	Environmental		
<b>Total</b> .....	<b>49,782</b>					<b>8,850</b>	
Average .....	1,106					590	
<b>New England</b> .....	<b>6,212</b>					<b>647</b>	
Conn. ....	691	X	X	X	X	16	Shellfish
Mass. ....	38	—	X	—	—	—	—
Me. ....	—	—	—	—	—	166	Toys-analysis of stuffing for sanitary quality
N.H. ....	—	—	—	—	—	—	—
R.I. ....	5,196	—	—	—	—	465	P.S.P. (Red Tide)
Vt. ....	287	—	X	—	X	—	—
<b>Middle Atlantic</b> .....	<b>959</b>					<b>6</b>	
N.J. ....	959	X	X	—	X	6	Milk for penicillin residue
N.Y. ....	—	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—	—
<b>East North Central</b> ....	<b>3,882</b>					<b>450</b>	
Ill. ....	1,232	X	X	X	X	—	—
Ind. ....	2,034	X	X	X	X	450	Meat products
Mich. ....	331	—	X	—	—	—	—
Ohio ....	265	X	X	X	X	—	—
Wisc. ....	—	—	—	—	—	—	—
<b>West North Central</b> ...	<b>4,048</b>					<b>2,771</b>	
Ia. ....	17	—	X	—	—	—	—
Kans. ....	211	X	X	—	—	—	—
Minn. ....	—	—	—	—	—	—	—
Mo. ....	3,755	X	X	—	X	67	Miscellaneous
Nebr. ....	—	—	—	—	—	—	—
N.D. ....	10	—	X	—	X	2,704	RODAC, sterility controls from hospitals
S.D. ....	55	—	X	—	—	—	—
<b>South Atlantic</b> .....	<b>10,356</b>					<b>814</b>	
Del. ....	306	X	X	X	X	—	—
D.C. ....	727	X	X	—	X	—	—
Fla. ....	2,603	X	X	X	X	—	—
Ga. ....	163	—	X	X	X	—	—
Md. ....	1,447	—	X	X	X	—	—
N.C. ....	347	—	X	X	X	—	—
S.C. ....	3,812	X	X	X	X	—	—
Va. ....	826	X	X	—	—	814	Medicated feeds, animal remedies, bioassay
W. Va. ....	125	X	X	—	—	—	—
<b>East South Central</b> ....	<b>1,778</b>					<b>26</b>	
Ala. ....	998	X	X	X	X	—	—
Ky. ....	168	X	X	—	X	—	—
Miss. ....	502	—	X	X	X	—	—
Tenn. ....	110	—	X	—	X	26	Water analysis for enteric pathogens
<b>West South Central</b> ...	<b>8,470</b>					<b>2,749</b>	
Ark. ....	842	X	X	—	X	—	—
La. ....	980	X	—	X	X	2,749	Cholerae (environmental), nuisance organisms
Okla. ....	444	X	X	—	X	—	—
Tex. ....	6,204	—	—	—	—	—	—
<b>Mountain</b> .....	<b>4,787</b>					<b>41</b>	
Ariz. ....	519	X	X	—	—	—	—
Colo. ....	294	—	X	—	X	—	—
Ida. ....	1,909	—	X	—	X	41	Miscellaneous sanitation
Mont. ....	207	X	X	—	—	—	—
Nev. ....	322	—	X	—	—	—	—
N.M. ....	636	X	X	—	X	—	—
Utah ....	900	X	X	—	X	—	—
Wyo. ....	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>2,580</b>					<b>1,290</b>	
Alaska ....	—	—	—	—	—	—	—
Cal. ....	282	X	X	X	X	571	Drug surveillance, HACCP Project, Shellfish for PSP
Hawaii ....	544	X	X	X	X	702	Hog viscera Salmonella survey
Ore. ....	44	—	X	X	—	17	Shellfish toxicity
Wash. ....	1,710	—	—	—	—	—	—
<b>Territories</b> .....	<b>6,730</b>					<b>56</b>	
Guam ....	222	X	—	—	—	—	—
P.R. ....	6,252	X	X	X	X	56	Stools, vomits, containers
V.I. ....	256	—	X	—	X	—	—

49782  
6730  
43052



Table 4-42  
**X. ENVIRONMENTAL CHEMISTRY**  
**SAMPLES BY CATEGORY AND SUB-CATEGORY**

Lab & Region	Total Envir. Chem. Samples	A	B	C	D	E	F
		Water Samples	Dairy Prod. and Food Samples	Pesticide Samples	Air Pollution Samples	Radiological Samples	Other Samples
<b>Total</b> .....	<b>881,069</b>	<b>443,865</b>	<b>134,274</b>	<b>31,668</b>	<b>232,069</b>	<b>33,280</b>	<b>5,813</b>
Average .....	21,489	11,999	4,796	1,056	10,549	1,664	727
<b>New England</b> .....	<b>110,226</b>	<b>35,439</b>	<b>8,150</b>	<b>1,293</b>	<b>62,982</b>	<b>2,358</b>	<b>4</b>
Conn. ....	28,800	13,576	5,283	135	9,193	613	—
Mass. ....	—	—	—	—	—	—	—
Me. ....	12,384	10,659	—	639	—	1,082	4
N.H. ....	—	—	—	—	—	—	—
R.I. ....	65,872	8,051	2,867	502	53,789	663	—
Vt. ....	3,170	3,153	—	17	—	—	—
<b>Middle Atlantic</b> .....	<b>13,655</b>	<b>9,917</b>	<b>2,478</b>	<b>1,260</b>	—	—	—
N.J. ....	13,655	9,917	2,478	1,260	—	—	—
N.Y. ....	—	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—	—
<b>East North Central</b> .....	<b>132,791</b>	<b>90,638</b>	<b>14,880</b>	<b>5,027</b>	<b>18,263</b>	<b>3,465</b>	<b>518</b>
Ill. ....	24,515	16,199	6,215	708	—	1,393	—
Ind. ....	24,365	12,824	8,665	2,876	—	—	—
Mich. ....	28,392	28,392	—	—	—	—	—
Ohio ....	24,077	13,198	—	886	7,403	2,072	518
Wisc. ....	31,442	20,025	—	557	10,860	—	—
<b>West North Central</b> .....	<b>137,627</b>	<b>62,831</b>	<b>5,460</b>	<b>2,911</b>	<b>62,656</b>	<b>3,769</b>	—
Ia. ....	91,071	31,247	911	557	57,391	965	—
Kans. ....	16,529	8,920	—	741	4,544	2,324	—
Minn. ....	—	—	—	—	—	—	—
Mo. ....	11,311	5,529	4,549	753	—	480	—
Nebr. ....	8,653	7,793	—	860	—	—	—
N.D. ....	—	—	—	—	—	—	—
S.D. ....	10,063	9,342	—	—	721	—	—
<b>South Atlantic</b> .....	<b>133,655</b>	<b>71,475</b>	<b>29,935</b>	<b>6,223</b>	<b>16,373</b>	<b>8,156</b>	<b>1,493</b>
Del. ....	4,923	3,975	—	—	—	948	—
D.C. ....	1,673	—	450	—	25	—	1,198
Fla. ....	5,179	4,484	52	274	365	—	4
Ga. ....	—	—	—	—	—	—	—
Md. ....	48,930	21,310	13,487	1,494	9,269	3,079	291
N.C. ....	19,883	17,794	—	792	—	1,297	—
S.C. ....	12,773	—	11,393	1,380	—	—	—
Va. ....	40,294	23,912	4,553	2,283	6,714	2,832	—
W. Va. ....	—	—	—	—	—	—	—
<b>East South Central</b> .....	<b>61,852</b>	<b>48,480</b>	<b>12,155</b>	<b>1,217</b>	—	—	—
Ala. ....	51,387	39,768	11,619	—	—	—	—
Ky. ....	7,380	5,627	536	1,217	—	—	—
Miss. ....	3,085	3,085	—	—	—	—	—
Tenn. ....	—	—	—	—	—	—	—
<b>West South Central</b> .....	<b>72,321</b>	<b>24,591</b>	<b>24,926</b>	<b>6,564</b>	<b>8,271</b>	<b>7,969</b>	—
Ark. ....	6,247	—	6,247	—	—	—	—
La. ....	16,495	5,176	9,096	408	2	1,813	—
Okla. ....	4,848	—	4,848	—	—	—	—
Tex. ....	44,731	19,415	4,735	6,156	8,269	6,156	—
<b>Mountain</b> .....	<b>151,286</b>	<b>84,781</b>	<b>23,017</b>	<b>2,873</b>	<b>32,473</b>	<b>4,538</b>	<b>3,604</b>
Ariz. ....	6,136	673	2,282	1,274	1,907	—	—
Colo. ....	16,920	3,593	2,570	744	6,088	3,925	—
Ida. ....	84,521	57,527	15,839	618	9,039	—	1,498
Mont. ....	8,418	3,219	352	44	4,789	14	—
Nev. ....	8,997	4,322	1,954	60	2,661	—	—
N.M. ....	18,514	8,061	—	133	7,663	551	2,106
Utah ....	7,780	7,386	20	—	326	48	—
Wyo. ....	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>57,763</b>	<b>11,152</b>	<b>8,041</b>	<b>4,300</b>	<b>31,051</b>	<b>3,025</b>	<b>194</b>
Alaska ....	—	—	—	—	—	—	—
Cal. ....	22,830	7,759	4,808	1,928	5,572	2,569	194
Hawaii ....	30,566	1,692	3,231	164	25,479	—	—
Ore. ....	—	—	—	—	—	—	—
Wash. ....	4,367	1,701	2	2,208	—	456	—
<b>Territories</b> .....	<b>9,893</b>	<b>4,661</b>	<b>5,232</b>	—	—	—	—
Guam ....	—	—	—	—	—	—	—
P.R. ....	8,143	2,911	5,232	—	—	—	—
V.I. ....	1,750	1,750	—	—	—	—	—

Table 4-43  
X. ENVIRONMENTAL CHEMISTRY

Lab & Region	Number of Samples	A. Water Samples				B. Dairy Products and Food Samples		
		Types				Number of Samples	Types	
		Potable	Non-Potable	Swimming Pools	Sewage & Waste		Milk & Cream	Foods
<b>Total</b> .....	<b>443,965</b>					<b>134,274</b>		
Average .....	11,999					4,796		
<b>New England</b> .....	<b>35,439</b>					<b>8,150</b>		
Conn. ....	13,576	X	X	X	X	5,263	X	X
Mass. ....	—	—	—	—	—	—	—	—
Me. ....	10,659	X	X	X	X	—	—	—
N.H. ....	—	—	—	—	—	—	—	—
R.I. ....	8,051	X	X	X	X	2,867	X	X
Vt. ....	3,153	X	—	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>9,917</b>					<b>2,478</b>		
N.J. ....	9,917	X	X	—	X	2,478	X	X
N.Y. ....	—	—	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—	—	—
<b>East North Central</b> ....	<b>90,638</b>					<b>14,860</b>		
Ill. ....	16,199	X	X	X	X	6,215	X	X
Ind. ....	12,824	X	X	—	X	8,665	X	X
Mich. ....	28,392	X	X	—	X	—	—	—
Ohio ....	13,198	X	X	—	X	—	—	—
Wisc. ....	20,025	X	X	X	X	—	—	—
<b>West North Central</b> ...	<b>62,831</b>					<b>5,460</b>		
Ia. ....	31,247	X	X	X	X	911	X	X
Kans. ....	8,920	X	X	—	X	—	—	—
Minn. ....	—	—	—	—	—	—	—	—
Mo. ....	5,529	X	X	—	—	4,549	X	X
Nebr. ....	7,793	X	—	—	—	—	—	—
N.D. ....	—	—	—	—	—	—	—	—
S.D. ....	9,342	X	X	X	X	—	—	—
<b>South Atlantic</b> .....	<b>71,475</b>					<b>29,935</b>		
Del. ....	3,975	X	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	450	X	X
Fla. ....	4,484	X	X	—	—	52	—	—
Ga. ....	—	—	—	—	—	—	—	—
Md. ....	21,310	X	X	X	X	13,487	X	X
N.C. ....	17,794	X	X	X	X	—	—	—
S.C. ....	—	—	—	—	—	11,393	X	X
Va. ....	23,912	X	X	—	X	4,553	X	X
W. Va. ....	—	—	—	—	—	—	—	—
<b>East South Central</b> ....	<b>48,480</b>					<b>12,155</b>		
Ala. ....	39,768	X	X	—	—	11,619	X	X
Ky. ....	5,627	X	X	X	—	536	X	X
Miss. ....	3,085	X	X	—	—	—	—	—
Tenn. ....	—	—	—	—	—	—	—	—
<b>West South Central</b> ...	<b>24,591</b>					<b>24,926</b>		
Ark. ....	—	—	—	—	—	6,247	X	—
La. ....	5,176	X	X	—	X	9,096	X	X
Okla. ....	—	—	—	—	—	4,848	X	X
Tex. ....	19,415	X	X	—	X	4,735	—	X
<b>Mountain</b> .....	<b>84,781</b>					<b>23,017</b>		
Ariz. ....	673	X	X	X	X	2,282	X	X
Colo. ....	3,593	X	X	—	X	2,570	—	X
Ida. ....	57,527	X	X	X	X	15,839	X	X
Mont. ....	3,219	X	X	—	X	352	—	X
Nev. ....	4,322	X	X	X	X	1,954	X	X
N.M. ....	8,061	X	X	X	X	—	—	—
Utah ....	7,386	X	X	X	X	20	—	—
Wyo. ....	—	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>11,152</b>					<b>8,041</b>		
Alaska ....	—	—	—	—	—	—	—	—
Cal. ....	7,759	X	X	X	X	4,808	—	X
Hawaii ....	1,692	X	X	—	X	3,231	X	X
Ore. ....	—	—	—	—	—	—	—	—
Wash. ....	1,701	X	X	—	—	2	—	X
<b>Territories</b> .....	<b>4,661</b>					<b>5,232</b>		
Guam ....	—	—	—	—	—	—	—	—
P.R. ....	2,911	X	—	—	—	5,232	X	X
V.I. ....	1,750	X	X	—	—	—	—	—

Table 4-44  
**X. ENVIRONMENTAL CHEMISTRY**  
**C. Pesticide Samples**

Lab & Region	Number of Samples	Types				Other
		Human Source	Water	Milk	Foods	
<b>Total</b> .....	<b>31,668</b>					
Average .....	1,056					
<b>New England</b> .....	<b>1,293</b>					
Conn. ....	135	—	X	—	X	Oils, fish, sediments — muds, sewage, industrial waste
Mass. ....	—	—	—	—	—	—
Me. ....	639	X	X	—	X	Miscellaneous
N.H. ....	—	—	—	—	—	—
R.I. ....	502	X	X	X	X	—
Vt. ....	17	—	X	—	—	—
<b>Middle Atlantic</b> .....	<b>1,260</b>					
N.J. ....	1,260	X	X	X	X	Marijuana (paraquat), air and soil, Misc.
N.Y. ....	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—
<b>East North Central</b> .....	<b>5,027</b>					
Ill. ....	708	—	X	X	X	Soil, vegetation, fish
Ind. ....	2,876	—	—	X	X	—
Mich. ....	—	—	—	—	—	—
Ohio ....	886	—	X	X	X	—
Wisc. ....	557	—	X	—	X	Soils, Industrial
<b>West North Central</b> .....	<b>2,911</b>					
Ia. ....	557	X	X	—	X	air, silt
Kans. ....	741	—	X	—	—	—
Minn. ....	—	—	—	—	—	—
Mo. ....	753	X	X	X	X	—
Nebr. ....	860	—	X	—	—	—
N.D. ....	—	—	—	—	—	—
S.D. ....	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>6,223</b>					
Del. ....	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—
Fla. ....	274	—	X	—	X	—
Ga. ....	—	—	—	—	—	—
Md. ....	1,494	—	X	X	X	Seafood
N.C. ....	792	—	X	—	—	—
S.C. ....	1,380	X	X	X	X	Cigars, transformer oil, vegetation
Va. ....	2,283	—	X	—	X	Miscellaneous environmental samples
W. Va. ....	—	—	—	—	—	—
<b>East South Central</b> .....	<b>1,217</b>					
Ala. ....	—	—	—	—	—	—
Ky. ....	1,217	X	X	X	X	—
Miss. ....	—	—	—	—	—	—
Tenn. ....	—	—	—	—	—	—
<b>West South Central</b> .....	<b>6,564</b>					
Ark. ....	—	—	—	—	—	—
La. ....	408	—	X	X	X	Soil, Mud, air filter, transformer oil
Okla. ....	—	—	—	—	—	—
Tex. ....	6,156	—	X	—	—	—
<b>Mountain</b> .....	<b>2,873</b>					
Ariz. ....	1,274	—	X	X	X	Fish
Colo. ....	744	—	X	X	X	—
Ida. ....	618	X	X	X	—	Soil
Mont. ....	44	—	X	—	—	Air, formulations, soil
Nev. ....	60	—	X	X	—	—
N.M. ....	133	—	X	X	—	Soils
Utah ....	—	—	—	—	—	—
Wyo. ....	—	—	—	—	—	—
<b>Pacific</b> .....	<b>4,300</b>					
Alaska ....	—	—	—	—	—	—
Cal. ....	1,928	—	X	—	X	Soil/sediment, wastes
Hawaii ....	164	—	X	X	X	Sediment
Ore. ....	—	—	—	—	—	—
Wash. ....	2,208	X	X	X	X	Soil, air, plants
<b>Territories</b> .....	<b>—</b>					
Guam ....	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—
V.I. ....	—	—	—	—	—	—

Table 4-45  
X. ENVIRONMENTAL CHEMISTRY  
D. Air Pollution Samples

Lab & Region	Number of Samples	Types of Activity							Number of Continuous Samp. Stations	
		Discrete Sampling Stations						Gaseous		Other
		Number of Stations	Particulate				Other			
			Solids	Metals	Organics	Other				
<b>Total</b> .....	<b>232,069</b>									
Average .....	10,549									
<b>New England</b> .....	<b>62,982</b>									
Conn. ....	9,193	80	X	X	X		X		46	
Mass. ....	—	—	—	—	—	—	—	—	—	
Me. ....	—	—	—	—	—	—	—	—	—	
N.H. ....	—	—	—	—	—	—	—	—	—	
R.I. ....	53,789	12	X	X	—	—	—	—	4	
Vt. ....	—	—	—	—	—	—	—	—	—	
<b>Middle Atlantic</b> .....	<b>—</b>									
N.J. ....	—	—	—	—	—	—	—	—	—	
N.Y. ....	—	—	—	—	—	—	—	—	—	
Pa. ....	—	—	—	—	—	—	—	—	—	
<b>East North Central</b> .....	<b>18,263</b>									
Ill. ....	—	—	—	—	—	—	—	—	—	
Ind. ....	—	—	—	—	—	—	—	—	—	
Mich. ....	—	—	—	—	—	—	—	—	—	
Ohio ....	7,403	80	X	X	—	X	X	—	—	
Wisc. ....	10,860	90	X	—	—	—	X	—	20	
<b>West North Central</b> .....	<b>62,656</b>									
Ia. ....	57,391	1	X	X	—	—	X	—	9	
Kans. ....	4,544	34	—	X	—	X	X	—	4	
Minn. ....	—	—	—	—	—	—	—	—	—	
Mo. ....	—	—	—	—	—	—	—	—	—	
Nebr. ....	—	—	—	—	—	—	—	—	—	
N.D. ....	—	—	—	—	—	—	—	—	—	
S.D. ....	721	—	X	—	X	—	—	—	—	
<b>South Atlantic</b> .....	<b>16,373</b>									
Del. ....	—	—	—	—	—	—	—	—	—	
D.C. ....	25	25	—	X	—	—	—	—	—	
Fla. ....	365	1	X	—	—	—	—	—	—	
Ga. ....	—	—	—	—	—	—	—	—	—	
Md. ....	9,269	137	X	X	X	X	X	X	16	
N.C. ....	—	—	—	—	—	—	—	—	—	
S.C. ....	—	—	—	—	—	—	—	—	—	
Va. ....	6,714	90	X	X	—	—	—	—	—	
W. Va. ....	—	—	—	—	—	—	—	—	—	
<b>East South Central</b> .....	<b>—</b>									
Ala. ....	—	—	—	—	—	—	—	—	—	
Ky. ....	—	—	—	—	—	—	—	—	—	
Miss. ....	—	—	—	—	—	—	—	—	—	
Tenn. ....	—	—	—	—	—	—	—	—	—	
<b>West South Central</b> .....	<b>8,271</b>									
Ark. ....	—	—	—	—	—	—	—	—	—	
La. ....	2	—	X	—	—	—	—	—	—	
Okla. ....	—	—	—	—	—	—	—	—	—	
Tex. ....	8,269	—	—	X	—	—	X	—	—	
<b>Mountain</b> .....	<b>32,473</b>									
Ariz. ....	1,907	40	X	X	X	X	X	X	19	
Colo. ....	6,088	74	X	X	X	—	—	—	4	
Ida. ....	9,039	34	X	X	—	—	—	—	6	
Mont. ....	4,789	50	X	X	—	X	X	X	—	
Nev. ....	2,661	16	X	X	X	—	—	—	3	
N.M. ....	7,663	66	X	X	—	X	X	—	—	
Utah ....	326	3	—	X	—	—	—	—	—	
Wyo. ....	—	—	—	—	—	—	—	—	—	
<b>Pacific</b> .....	<b>31,051</b>									
Alaska ....	—	—	—	—	—	—	—	—	—	
Cal. ....	5,572	60	X	X	X	—	X	X	10	
Hawaii ....	25,479	12	X	—	—	—	X	X	8	
Ore. ....	—	—	—	—	—	—	—	—	—	
Wash. ....	—	—	—	—	—	—	—	—	—	
<b>Territories</b> .....	<b>—</b>									
Guam ....	—	—	—	—	—	—	—	—	—	
P.R. ....	—	—	—	—	—	—	—	—	—	
V.I. ....	—	—	—	—	—	—	—	—	—	

Table 4-46  
**X. ENVIRONMENTAL CHEMISTRY**  
**E. Radiological Analysis**

Lab & Region	Number of Samples	Types							
		Air	Water	Milk	Food	Sift	Soil	Wipes	Other
<b>Total</b> .....	<b>33,280</b>								
Average .....	1,664								
<b>New England</b> .....	<b>2,358</b>								
Conn. ....	613	X	X	X	X	X	X	X	Shellfish, fish, feed, Industrial waste
Mass. ....	—	—	—	—	—	—	—	—	—
Me. ....	1,082	X	X	X	X	X	X	X	Seaweed
N.H. ....	—	—	—	—	—	—	—	—	—
R.I. ....	663	X	X	—	—	—	—	X	—
Vt. ....	—	—	—	—	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>—</b>								
N.J. ....	—	—	—	—	—	—	—	—	—
N.Y. ....	—	—	—	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—	—	—	—
<b>East North Central</b> .....	<b>3,465</b>								
Ill. ....	1,393	X	X	X	X	—	—	X	—
Ind. ....	—	—	—	—	—	—	—	—	—
Mich. ....	—	—	—	—	—	—	—	—	—
Ohio ....	2,072	—	X	X	—	X	—	X	—
Wisc. ....	—	—	—	—	—	—	—	—	—
<b>West North Central</b> .....	<b>3,769</b>								
Ia. ....	965	X	X	X	—	—	—	—	—
Kans. ....	2,324	X	X	X	—	—	X	X	—
Minn. ....	—	—	—	—	—	—	—	—	—
Mo. ....	480	X	X	—	—	—	—	—	—
Nebr. ....	—	—	—	—	—	—	—	—	—
N.D. ....	—	—	—	—	—	—	—	—	—
S.D. ....	—	—	—	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>8,156</b>								
Del. ....	948	—	X	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—	—	—	—
Fla. ....	—	—	—	—	—	—	—	—	—
Ga. ....	—	—	—	—	—	—	—	—	—
Md. ....	3,079	X	X	X	X	X	X	X	—
N.C. ....	1,297	X	X	X	X	X	X	X	—
S.C. ....	—	—	—	—	—	—	—	—	—
Va. ....	2,832	X	X	X	—	—	X	X	—
W. Va. ....	—	—	—	—	—	—	—	—	—
<b>East South Central</b> .....	<b>—</b>								
Ala. ....	—	—	—	—	—	—	—	—	—
Ky. ....	—	—	—	—	—	—	—	—	—
Miss. ....	—	—	—	—	—	—	—	—	—
Tenn. ....	—	—	—	—	—	—	—	—	—
<b>West South Central</b> .....	<b>7,969</b>								
Ark. ....	—	—	—	—	—	—	—	—	—
La. ....	1,813	—	X	—	—	—	—	—	—
Okla. ....	—	—	—	—	—	—	—	—	—
Tex. ....	6,156	—	X	X	—	—	X	X	—
<b>Mountain</b> .....	<b>4,538</b>								
Ariz. ....	—	—	—	—	—	—	—	—	—
Colo. ....	3,925	X	X	X	X	X	X	—	—
Ida. ....	—	—	X	—	—	—	—	—	—
Mont. ....	14	—	X	—	—	—	—	—	Rock/slag
Nev. ....	—	—	—	—	—	—	—	—	—
N.M. ....	551	—	X	—	—	—	—	—	—
Utah ....	48	X	X	X	—	—	X	X	Luminescent dials
Wyo. ....	—	—	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>3,025</b>								
Alaska ....	—	—	—	—	—	—	—	—	—
Cal. ....	2,569	X	X	X	X	X	X	X	Vegetation
Hawaii ....	—	—	—	—	—	—	—	—	—
Ore. ....	—	—	—	—	—	—	—	—	—
Wash. ....	456	X	X	X	X	X	X	X	Wipes and liquids from disposal sites
<b>Territories</b> .....	<b>—</b>								
Guam ....	—	—	—	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—	—	—	—
V.I. ....	—	—	—	—	—	—	—	—	—

\* Included in water samples, Table 4-43

**Table 4-47**  
**ENVIRONMENTAL CHEMISTRY**  
**F. Other Samples**

Lab	Number of Samples	Types
<b>Total</b> .....	<b>5,813</b>	
<b>Average</b> .....	<b>727</b>	
Cal. ....	194	Air monitoring instrument calibration
D.C. ....	1,198	Soil (metals), vegetables (metals)
Fla. ....	4	Bedding
Ida. ....	1,498	Utensil counts, miscellaneous
Me. ....	4	—
Md. ....	291	Bedding and upholstery
N.M. ....	2,106	Heavy metals in/on soils; muds; water
Ohio .....	518	All matrices — organics, all matrices — inorganics

Table 4-48  
 XI. OCCUPATIONAL HEALTH AND SAFETY

Lab & Region	Total Occup. Health & Safety Samples	Number of Environmental Samples	Number of Biological Samples
<b>Total</b> .....	<b>60,187</b>	<b>58,956</b>	<b>2,903</b>
Average .....	3,168	3,103	363
<b>New England</b> .....	<b>3,824</b>	<b>1,958</b>	<b>1,866</b>
Conn. ....	2,672	806	1,866
Mass. ....	—	—	—
Me. ....	45	45	—
N.H. ....	—	—	—
R.I. ....	1,107	1,107	—
Vt. ....	—	—	—
<b>Middle Atlantic</b> .....	<b>—</b>	<b>—</b>	<b>—</b>
N.J. ....	—	—	—
N.Y. ....	—	—	—
Pa. ....	—	—	—
<b>East North Central</b> .....	<b>16,950</b>	<b>16,802</b>	<b>148</b>
Ill. ....	—	—	—
Ind. ....	—	—	—
Mich. ....	—	—	—
Ohio ....	6,506	6,502	4
Wisc. ....	10,444	10,300	144
<b>West North Central</b> .....	<b>4,210</b>	<b>4,145</b>	<b>65</b>
Ia. ....	3,285	3,220	65
Kans. ....	925	925	—
Minn. ....	—	—	—
Mo. ....	—	—	—
Nebr. ....	—	—	—
N.D. ....	—	—	—
S.D. ....	—	—	—
<b>South Atlantic</b> .....	<b>16,925</b>	<b>16,848</b>	<b>77</b>
Del. ....	—	—	—
D.C. ....	—	—	—
Fla. ....	1,231	1,231	—
Ga. ....	97	97	—
Md. ....	9,264	9,264	—
N.C. ....	4,956	4,956	—
S.C. ....	—	—	—
Va. ....	1,377	1,300	77
W. Va. ....	—	—	—
<b>East South Central</b> .....	<b>2,656</b>	<b>2,656</b>	<b>—</b>
Ala. ....	—	—	—
Ky. ....	2,656	2,656	—
Miss. ....	—	—	—
Tenn. ....	—	—	—
<b>West South Central</b> .....	<b>—</b>	<b>—</b>	<b>—</b>
Ark. ....	—	—	—
La. ....	—	—	—
Okla. ....	—	—	—
Tex. ....	—	—	—
<b>Mountain</b> .....	<b>3,899</b>	<b>3,182</b>	<b>717</b>
Ariz. ....	842	842	—
Colo. ....	473	473	—
Ida. ....	—	—	—
Mont. ....	178	117	61
Nev. ....	—	—	—
N.M. ....	208	208	—
Utah ....	2,198	1,542	656
Wyo. ....	—	—	—
<b>Pacific</b> .....	<b>11,723</b>	<b>11,693</b>	<b>30</b>
Alaska ....	—	—	—
Cal. ....	11,723	11,693	30
Hawaii ....	—	—	—
Ore. ....	—	—	—
Wash. ....	—	—	—
<b>Territories</b> .....	<b>—</b>	<b>—</b>	<b>—</b>
Guam ....	—	—	—
P.R. ....	—	—	—
V.I. ....	—	—	—

Table 4-49  
XII. TOXICOLOGY  
SAMPLES BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Toxicology Samples	A	B
		Physical Samples	Biological Samples
<b>Total</b> .....	<b>544,730</b>	<b>78,523</b>	<b>466,207</b>
Average .....	11,590	3,020	14,127
<b>New England</b> .....	<b>216,506</b>	<b>46,824</b>	<b>169,682</b>
Conn. ....	72,684	42,455	30,229
Mass. ....	113,386	250	113,136
Me. ....	7,715	802	6,913
N.H. ....	35	—	35
R.I. ....	18,525	3,098	15,427
Vt. ....	4,161	219	3,942
<b>Middle Atlantic</b> .....	<b>1,008</b>	<b>8</b>	<b>1,000</b>
N.J. ....	—	—	—
N.Y. ....	—	—	—
Pa. ....	1,008	8	1,000
<b>East North Central</b> .....	<b>34,955</b>	<b>662</b>	<b>34,293</b>
Ill. ....	12,535	399	12,136
Ind. ....	39	39	—
Mich. ....	—	—	—
Ohio ....	14,455	144	14,311
Wisc. ....	7,926	80	7,846
<b>West North Central</b> .....	<b>17,224</b>	<b>5,110</b>	<b>12,114</b>
Ia. ....	7,426	740	6,686
Kans. ....	3,136	107	3,029
Minn. ....	—	—	—
Mo. ....	861	332	529
Nebr. ....	5,801	3,931	1,870
N.D. ....	—	—	—
S.D. ....	—	—	—
<b>South Atlantic</b> .....	<b>156,019</b>	<b>1,562</b>	<b>154,457</b>
Del. ....	2,502	—	2,502
D.C. ....	18,815	—	18,815
Fla. ....	18,272	60	18,212
Ga. ....	39,112	—	39,112
Md. ....	37,053	622	36,431
N.C. ....	5,218	—	5,218
S.C. ....	12,355	188	12,167
Va. ....	22,692	692	22,000
W. Va. ....	—	—	—
<b>East South Central</b> .....	<b>8,330</b>	<b>571</b>	<b>7,759</b>
Ala. ....	5,026	—	5,026
KY. ....	3,304	571	2,733
Miss. ....	—	—	—
Tenn. ....	—	—	—
<b>West South Central</b> .....	<b>39,998</b>	<b>—</b>	<b>39,998</b>
Ark. ....	—	—	—
La. ....	—	—	—
Okla. ....	—	—	—
Tex. ....	39,998	—	39,998
<b>Mountain</b> .....	<b>61,127</b>	<b>21,533</b>	<b>39,594</b>
Ariz. ....	—	—	—
Colo. ....	15,397	—	15,397
Ida. ....	30,590	20,594	9,996
Mont. ....	2	2	—
Nev. ....	—	—	—
N.M. ....	7,728	—	7,728
Utah ....	5,626	937	4,689
Wyo. ....	1,784	—	1,784
<b>Pacific</b> .....	<b>8,615</b>	<b>1,951</b>	<b>6,664</b>
Alaska ....	—	—	—
Cal. ....	6,551	1,523	5,028
Hawaii ....	33	33	—
Ore. ....	—	—	—
Wash. ....	2,031	395	1,636
<b>Territories</b> .....	<b>948</b>	<b>302</b>	<b>646</b>
Guam ....	—	—	—
P.R. ....	646	—	646
V.I. ....	302	302	—



Table 4-50  
 XII. TOXICOLOGY  
 A. Physical Samples (F-Forensic, O-Other)

Lab	Number of Samples	Types										Other
		Liquids for Alcohol	Pesticides	PCB's	Plant and Plant Material	Drugs and Narcotics	Articles for Blood Stains	Paint-Comparison	Paint-Lead	Fibers and Hairs	Gunpowder Residues	
Total .....	78,523											
Average .....	3,020											
Cal. ....	1,523	O	-	-	-	O	-	-	O	-	-	Mutagenic screening
Conn. ....	42,455	F	-	-	F	F	F	F	O	F/O	F	F/Clay, sand, concrete, fire accelerants, clothing for seminal stains
Fla. ....	60	O	O	-	-	O	-	-	O	-	-	-
Hawaii .....	33	-	-	-	O	O	-	-	-	-	-	-
Ida. ....	20,594	F	-	-	F	F	F	F	-	F	F	Arson and glass samples
Ill. ....	399	F/O	-	-	F/O	F/O	-	-	-	-	-	F/O foodstuffs
Ind. ....	39	-	-	-	O	O	-	-	X	-	-	-
Ia. ....	740	-	O	O	-	-	-	-	O	-	-	-
Kans. ....	107	F	-	-	-	F/O	-	-	O	-	-	F - foodstuffs
Ky. ....	571	F/O	F/O	F/O	F	F	-	-	O	-	-	-
Me. ....	802	F	O	O	F	F	-	-	F	-	-	-
Md. ....	622	O	-	-	F	F/O	-	-	-	-	-	-
Mass. ....	250	-	-	-	-	-	-	-	O	-	-	-
Mo. ....	332	-	O	-	O	-	-	-	O	O	-	-
Mont. ....	2	-	-	-	-	-	-	-	O	-	-	O/Pottery - leachable lead
Nebr. ....	3,931	O	-	-	F	F	-	-	-	-	-	-
Ohio ....	144	F/O	O	O	F/O	F/O	-	-	O	-	-	-
Pa. ....	8	O	-	-	-	O	-	-	-	-	-	-
R.I. ....	3,098	F	-	-	F	F	-	-	-	-	-	tear gas, liquids and materials containing dangerous substances, glues for volatiles
S.C. ....	188	-	O	-	-	O	-	-	O	-	-	O/Food and drink for lead, heavy metals, hydrocarbons, and ammonia; utensils, toys, etc. for lead and other heavy metals
Utah ....	937	F	-	-	F	F	-	-	-	-	-	-
Va. ....	692	-	-	-	-	-	-	-	O	-	-	Soils for lead
V.I. ....	302	-	-	-	-	X	-	-	-	-	-	-
Vt. ....	219	-	-	-	-	F	-	-	O	-	-	Pottery
Wash. ....	395	-	O	O	-	-	-	-	-	-	-	-
Wisc. ....	80	-	-	-	O	O	-	-	O	-	-	-

Table 4-51  
 XII. TOXICOLOGY  
 B. Biological Samples (F-Forensic, O-Other)

Lab & Region	Number of Samples	1. Blood							
		Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other
<b>Total</b> .....	<b>468,207</b>								
Average .....	14,127								
<b>New England</b> .....	<b>169,682</b>								
Conn. ....	30,229	F	F	F	O	O	—	—	F/Carboxyhemoglobin, halides
Mass. ....	113,136	—	—	—	O	O	—	—	O/Erythrocyte protoporphyrin
Me. ....	6,913	F	F	F	O	F	F	O	—
N.H. ....	35	—	—	—	—	—	—	—	—
R.I. ....	15,427	F	F	F	O	F	F	—	—
Vt. ....	3,942	F	F	—	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>1,000</b>								
N.J. ....	—	—	—	—	—	—	—	—	—
N.Y. ....	—	—	—	—	—	—	—	—	—
Pa. ....	1,000	F	O	O	O	—	—	—	—
<b>East North Central</b> .....	<b>34,293</b>								
Ill. ....	12,136	F/O	F/O	F/O	F/O	F/O	F/O	F/O	F/O Erythrocyte protoporphyrin
Ind. ....	—	—	—	—	—	—	—	—	—
Mich. ....	—	—	—	—	—	—	—	—	—
Ohio ....	14,311	F/O	F/O	F/O	O	O	—	O	F/O paraquat
Wisc. ....	7,846	F/O	O	O	O	O	O	—	CO <sub>2</sub> , Cholinesterase, erythrocyte protoporphyrin
<b>West North Central</b> .....	<b>12,114</b>								
Ia. ....	6,686	—	—	—	O	—	—	O	O/pesticides
Kans. ....	3,029	F	F	F/O	O	F/O	—	—	—
Minn. ....	—	—	—	—	—	—	—	—	—
Mo. ....	529	O	—	O	O	—	—	—	—
Nebr. ....	1,870	F/O	F	F	O	—	—	—	—
N.D. ....	—	—	—	—	—	—	—	—	—
S.D. ....	—	—	—	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>154,457</b>								
Del. ....	2,502	—	—	—	O	—	—	—	—
D.C. ....	18,815	—	—	—	O	—	—	—	O/Erythrocyte protoporphyrin
Fla. ....	18,212	F	O	O	O	O	O	O	—
Ga. ....	39,112	—	—	—	O	—	—	—	—
Md. ....	36,431	—	—	O	O	—	—	—	—
N.C. ....	5,218	—	—	—	O	—	—	—	—
S.C. ....	12,167	O	—	O	O	O	—	O	Erythrocyte protoporphyrin lead screen
Va. ....	22,000	—	—	—	O	—	—	—	—
W. Va. ....	—	—	—	—	—	—	—	—	—
<b>East South Central</b> .....	<b>7,759</b>								
Ala. ....	5,026	—	—	—	O	—	—	—	—
Ky. ....	2,733	F	F	F	F	F	F	—	—
Miss. ....	—	—	—	—	—	—	—	—	—
Tenn. ....	—	—	—	—	—	—	—	—	—
<b>West South Central</b> .....	<b>39,998</b>								
Ark. ....	—	—	—	—	—	—	—	—	—
La. ....	—	—	—	—	—	—	—	—	—
Okla. ....	—	—	—	—	—	—	—	—	—
Tex. ....	39,998	—	—	O	O	—	—	—	—
<b>Mountain</b> .....	<b>39,594</b>								
Ariz. ....	—	—	—	—	—	—	—	—	—
Colo. ....	15,397	F	—	F	—	—	—	—	—
Ida. ....	9,996	F	O	F	—	F	—	—	Serology
Mont. ....	—	—	—	—	—	—	—	—	—
Nev. ....	—	—	—	—	—	—	—	—	—
N.M. ....	7,728	F	—	O	O	O	—	—	—
Utah ....	4,689	F	F	F	—	—	—	—	—
Wyo. ....	1,784	F/O	F/O	F/O	O	O	—	—	—
<b>Pacific</b> .....	<b>6,664</b>								
Alaska ....	—	—	—	—	—	—	—	—	—
Cal. ....	5,028	O	—	—	O	—	—	—	FEP
Hawaii ....	—	—	—	—	—	—	—	—	—
Ore. ....	—	—	—	—	—	—	—	—	—
Wash. ....	1,636	—	—	—	O	—	—	—	O—Pesticides
<b>Territories</b> .....	<b>646</b>								
Guam ....	—	—	—	—	—	—	—	—	—
P.R. ....	646	—	—	—	—	—	—	—	—
V.I. ....	—	—	—	—	—	—	—	—	—

Table 4-52  
 XII. TOXICOLOGY  
 B. Biological Samples (F-Forensic, O-Other)

Lab & Region	2. Urine								3. Body Tissues							
	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other
<b>New England</b>																
Conn.	F	F	F	O	F/O	O	-	-	F	F	F	-	-	-	-	O/Arsenic, hair, and nails
Mass.	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-
N.H.	F	F	F	O	F	F	O	-	F	F	F	O	F	F	O	-
R.I.	F	-	F	O	-	-	-	-	F	F	F	-	F	F	-	-
Vt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Middle Atlantic</b>																
N.J.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>East North Central</b>																
Ill.	F/O	F/O	F/O	-	F/O	F/O	F/O	-	F	F	F	-	F	F	F	-
Ind.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mich.	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	F/O	F/O	F/O	O	O	-	-	F/O	F/O	F/O	F/O	-	-	-	-	F/O paraquat
Wisc.	F/O	O	F/O	F/O	F/O	F/O	-	-	-	-	-	-	-	-	-	-
<b>West North Central</b>																
Ia.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	F	-	F/O	O	O	F/O	-	-	F	F	F	-	O	-	-	-
Minn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mo.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nebr.	F/O	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>South Atlantic</b>																
Del.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D.C.	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fla.	O	-	O	O	O	-	-	-	O	O	O	O	O	O	O	-
Ga.	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	-	-	-	O	-	-	-	O/Lithium	-	-	-	-	-	-	-	-
N.C.	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-
S.C.	O	-	O	O	O	-	-	-	-	-	-	-	O	-	-	-
Va.	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>East South Central</b>																
Ala.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ky.	F	F	F	F	F	F	-	-	F	F	F	F	F	F	-	-
Miss.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>West South Central</b>																
Ark.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okla.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Mountain</b>																
Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colo.	F	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-
Ida.	F	O	F	-	X	X	X	-	F	-	F/O	-	-	-	-	-
Mont.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nev.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.M.	-	-	F	-	-	-	-	-	-	-	-	-	X	-	X	-
Utah	F	F	F	-	-	-	-	-	F	F	F	-	-	-	-	-
Wyo.	F/O	-	F/O	-	-	-	-	-	-	-	F/O	-	-	-	-	-
<b>Pacific</b>																
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cal.	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wash.	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	O
<b>Territories</b>																
Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 4-53  
 XII. TOXICOLOGY  
 B. Biological Samples (F-Forensic, O-Other)

Lab & Region	4. Body Fluids								5. Breath		6. Other
	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other	Volatiles	Other	
<b>New England</b> .....											
Conn. ....	F	F	F	O	F/O	-	-	-	F	-	-
Mass. ....	-	-	-	F	-	-	-	-	-	-	-
Me. ....	F	F	F	O	F	F/O	O	-	F	-	-
N.H. ....	-	-	-	-	-	-	-	-	-	-	O Red Tide (Shellfish)
R.I. ....	F	-	F	-	F	-	-	F	-	-	-
Vt. ....	-	-	-	-	-	-	-	-	-	Breath alcohol	-
<b>Middle Atlantic</b> .....											
N.J. ....	-	-	-	-	-	-	-	-	-	-	-
N.Y. ....	-	-	-	-	-	-	-	-	-	-	-
Pa. ....	-	-	-	-	-	-	-	-	-	-	-
<b>East North Central</b> ....											
Ill. ....	F/O	F/O	F/O	F/O	F/O	F/O	F/O	-	-	-	-
Ind. ....	-	-	-	-	-	-	-	-	-	-	-
Mich. ....	-	-	-	-	-	-	-	-	-	-	-
Ohio ....	F/O	F/O	F/O	-	-	-	-	F/O	F/O	-	F/O-beverages, pills, capsules
Wisc. ....	O	O	O	-	-	-	-	-	-	-	-
<b>West North Central</b> ....											
Ia. ....	-	-	-	-	-	-	-	-	-	-	-
Kans. ....	F/O	F/O	F/O	-	O	-	-	-	-	-	O-hair and nails for arsenic
Minn. ....	-	-	-	-	-	-	-	-	-	-	-
Mo. ....	-	-	-	-	-	-	-	-	X	-	-
Nebr. ....	-	-	-	-	-	-	-	-	-	-	-
N.D. ....	-	-	-	-	-	-	-	-	-	-	-
S.D. ....	-	-	-	-	-	-	-	-	-	-	-
<b>South Atlantic</b> .....											
Del. ....	-	-	-	-	-	-	-	-	-	-	-
D.C. ....	-	-	-	-	-	-	-	-	-	-	-
Fla. ....	O	O	O	O	O	O	O	-	-	-	-
Ga. ....	-	-	-	-	-	-	-	-	-	-	-
Md. ....	-	-	-	-	-	-	-	-	-	-	-
N.C. ....	-	-	-	-	-	-	-	-	-	-	-
S.C. ....	-	-	O	-	-	-	-	-	-	-	-
Va. ....	-	-	-	-	-	-	-	-	-	-	-
W. Va. ....	-	-	-	-	-	-	-	-	-	-	-
<b>East South Central</b> ....											
Ala. ....	-	-	-	-	-	-	-	-	-	-	-
Ky. ....	F	F	F	F	F	F	-	-	-	-	-
Miss. ....	-	-	-	-	-	-	-	-	-	-	-
Tenn. ....	-	-	-	-	-	-	-	-	-	-	-
<b>West South Central</b> ....											
Ark. ....	-	-	-	-	-	-	-	-	-	-	-
La. ....	-	-	-	-	-	-	-	-	-	-	-
Okla. ....	-	-	-	-	-	-	-	-	-	-	-
Tex. ....	-	-	-	-	-	-	-	-	-	-	-
<b>Mountain</b> .....											
Ariz. ....	-	-	-	-	-	-	-	-	-	-	-
Colo. ....	-	-	-	-	-	-	-	-	-	-	-
Ida. ....	-	-	F/O	-	-	-	-	-	F	-	-
Mont. ....	-	-	-	-	-	-	-	-	-	-	-
Nev. ....	-	-	-	-	-	-	-	-	-	-	-
N.M. ....	-	-	-	-	-	-	-	-	-	Ethyl alcohol	-
Utah ....	-	-	F	-	-	-	-	-	-	-	-
Wyo. ....	F/O	F/O	F/O	-	-	-	-	-	F	-	-
<b>Pacific</b> .....											
Alaska ....	-	-	-	-	-	-	-	-	-	-	-
Cal. ....	-	-	-	-	-	-	-	-	O	-	-
Hawaii ....	-	-	-	-	-	-	-	-	-	-	-
Ore. ....	-	-	-	-	-	-	-	-	-	-	-
Wash. ....	-	-	-	-	-	-	-	O	-	-	-
<b>Territories</b> .....											
Guam ....	-	-	-	-	-	-	-	-	-	-	-
P.R. ....	-	-	-	-	-	-	-	-	-	-	-
V.I. ....	-	-	-	-	-	-	-	-	-	-	-

Table 4-54  
XIII. LABORATORY IMPROVEMENT PROGRAM  
SUMMARY BY LABORATORY CATEGORY

Lab & Region	Number of Professional & Technical Positions In LIP	A	B	C	D	E
		Clinical	Public Health	Dairy & Food	Water	Other
<b>Total</b> .....	<b>290.4</b>	<b>16,736</b>	<b>406</b>	<b>377</b>	<b>2,565</b>	<b>-</b>
Average .....	7.3	429	8.8	17.1	73.3	-
<b>New England</b> .....	<b>15</b>	<b>249</b>	<b>118</b>	<b>33</b>	<b>120</b>	<b>-</b>
Conn. ....	11.0	156	113	28	72	X
Mass. ....	-	-	-	-	-	-
Me. ....	-	57	2	3	35	X
N.H. ....	1.0	36	1	-	-	-
R.I. ....	3.0	-	1	2	13	-
Vt. ....	-	-	1	-	-	-
<b>Middle Atlantic</b> .....	<b>44.5</b>	<b>2,464</b>	<b>11</b>	<b>-</b>	<b>410</b>	<b>-</b>
N.J. ....	23.0	464	8	-	133	-
N.Y. ....	-	-	-	-	-	-
Pa. ....	21.5	2,000	3	-	277	X
<b>East North Central</b> .....	<b>32.1</b>	<b>3,197</b>	<b>55</b>	<b>154</b>	<b>450</b>	<b>-</b>
Ill. ....	8.0	1,800	13	-	-	-
Ind. ....	2.1	-	6	-	57	-
Mich. ....	12.0	-	18	-	-	-
Ohio ....	10.0	397	10	-	350	-
Wisc. ....	-	1,000	8	154	43	-
<b>West North Central</b> .....	<b>33.5</b>	<b>1,540</b>	<b>26</b>	<b>48</b>	<b>200</b>	<b>-</b>
Ia. ....	7.0	366	-	31	30	-
Kans. ....	5.0	212	3	13	100	X
Minn. ....	10.3	695	5	-	-	-
Mo. ....	6.0	-	8	-	39	-
Nebr. ....	2.2	137	3	-	17	-
N.D. ....	1.0	63	4	4	14	-
S.D. ....	2.0	67	3	-	-	-
<b>South Atlantic</b> .....	<b>59.1</b>	<b>1,438</b>	<b>39</b>	<b>58</b>	<b>305</b>	<b>-</b>
Del. ....	0.3	25	1	1	8	-
D.C. ....	2.0	65	1	1	3	-
Fla. ....	28.0	850	9	-	179	X
Ga. ....	-	-	-	-	-	-
Md. ....	6.0	173	9	20	39	-
N.C. ....	10.0	-	-	-	-	-
S.C. ....	5.5	93	8	17	-	-
Va. ....	3.3	-	10	19	76	-
W. Va. ....	4.0	232	1	-	-	-
<b>East South Central</b> .....	<b>9.0</b>	<b>1,547</b>	<b>27</b>	<b>55</b>	<b>133</b>	<b>-</b>
Ala. ....	-	-	9	9	20	-
Ky. ....	3.0	1,117	8	-	-	-
Miss. ....	-	200	5	6	13	-
Tenn. ....	6.0	230	5	40	100	-
<b>West South Central</b> .....	<b>5.5</b>	<b>484</b>	<b>15</b>	<b>-</b>	<b>40</b>	<b>-</b>
Ark. ....	3.0	160	2	-	40	-
La. ....	-	-	7	-	-	-
Okla. ....	2.5	324	6	-	-	-
Tex. ....	-	-	-	-	-	-
<b>Mountain</b> .....	<b>32.7</b>	<b>1,116</b>	<b>43</b>	<b>20</b>	<b>206</b>	<b>-</b>
Ariz. ....	8.0	171	10	-	31	-
Colo. ....	3.0	185	10	7	30	-
Ida. ....	7.5	212	7	7	35	X
Mont. ....	2.7	126	2	-	26	-
Nev. ....	5.2	160	4	2	24	-
N.M. ....	2.3	95	4	4	30	X
Utah ....	4.0	115	6	-	23	X
Wyo. ....	-	52	-	-	7	-
<b>Pacific</b> .....	<b>51.0</b>	<b>4,274</b>	<b>65</b>	<b>4</b>	<b>690</b>	<b>-</b>
Alaska ....	-	-	-	-	-	-
Cal. ....	40.0	4,000	39	-	643	-
Hawaii ....	1.0	74	4	4	8	-
Ore. ....	4.0	200	3	-	39	-
Wash. ....	6.0	-	19	-	-	-
<b>Territories</b> .....	<b>8.0</b>	<b>427</b>	<b>7</b>	<b>5</b>	<b>11</b>	<b>-</b>
Guam ....	-	7	2	2	3	-
P.R. ....	8.0	419	4	3	8	-
V.I. ....	-	1	1	-	-	-

Table 4-55  
**XIII. LABORATORY IMPROVEMENT PROGRAM**  
**A. Clinical Laboratories**

Lab & Region	1. No. Labs in State	2. No. Labs Lic./Reg./App./ Cert. by State	3. No. by LIP			4. Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
			Lic./App.	Reg.	Cert.	
<b>Total</b> .....	<b>16,736</b>	<b>11,446</b>	<b>8,674</b>	<b>746</b>	<b>2,715</b>	
Average .....	429	260	234	93	118	
<b>New England</b> .....	<b>249</b>	<b>543</b>	<b>518</b>	<b>32</b>	<b>121</b>	
Conn. ....	156	182	182	—	81	—
Mass. ....	—	254	254	—	—	Laboratory Regulation Program of the Division of Health Facility Regulation
Me. ....	57	2	2	—	2	Hospital Services Division approves hospital laboratories for Medicare-Medicaid reimbursement
N.H. ....	36	6	—	—	6	—
R.I. ....	—	67	67	—	32	—
Vt. ....	—	32	13	32	—	—
<b>Middle Atlantic</b> .....	<b>2,464</b>	<b>981</b>	<b>981</b>	—	<b>97</b>	
N.J. ....	464	464	464	—	97	—
N.Y. ....	—	—	—	—	—	—
Pa. ....	2,000	517	517	—	—	—
<b>East North Central</b> ....	<b>3,197</b>	<b>1,389</b>	<b>1,505</b>	<b>55</b>	<b>687</b>	
Ill. ....	1,800	287	567	—	—	—
Ind. ....	—	156	153	—	3	Division of Medical Care Administration—Medicare/Medicaid
Mich. ....	—	533	478	55	150	—
Ohio ....	397	—	307	—	121	—
Wisc. ....	1,000	413	—	—	413	—
<b>West North Central</b> ....	<b>1,540</b>	<b>692</b>	<b>586</b>	<b>24</b>	<b>315</b>	
Ia. ....	366	99	99	—	—	—
Kans. ....	212	212	198	12	107	—
Minn. ....	695	—	—	—	—	Division of Health Systems (Medicare and CLIA-67 only)
Mo. ....	—	271	220	—	160	—
Nebr. ....	137	62	62	—	—	—
N.D. ....	63	—	—	—	—	Division of Health Facilities for Medicare
S.D. ....	67	48	7	12	48	—
<b>South Atlantic</b> .....	<b>1,438</b>	<b>1,297</b>	<b>767</b>	—	<b>352</b>	
Del. ....	25	16	16	—	—	—
D.C. ....	65	65	38	—	39	—
Fla. ....	850	770	409	—	212	—
Ga. ....	—	—	—	—	—	—
Md. ....	173	173	173	—	—	—
N.C. ....	—	14	—	—	14	Division of Facility Service (Medicare, Medicaid, Syphilis Serology)
S.C. ....	93	93	—	—	—	Bureau of Health Licensing and Certification (Certifies for Medicare)
Va. ....	—	—	—	—	—	Dept. of Health, except water, milk, blood banks, Syphilis Serology
W. Va. ....	232	166	131	—	87	—
<b>East South Central</b> ....	<b>1,547</b>	<b>559</b>	<b>559</b>	—	<b>33</b>	
Ala. ....	—	—	—	—	—	Bureau of Licensure and Certification
Ky. ....	1,117	203	203	—	—	Division for Licensure and Regulation certifies labs

Table 4-55  
 XIII. LABORATORY IMPROVEMENT PROGRAM — Continued  
 A. Clinical Laboratories

Lab & Region	1. No. Labs in State	2. No. Labs Lic./Reg./App./ Cert. by State	3. No. by LIP			4. Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
			Lic./App.	Reg.	Cert.	
Miss. ....	200	126	126	—	—	—
Tenn. ....	230	230	230	—	33	—
<b>West South Central ...</b>	<b>484</b>	<b>1,945</b>	<b>425</b>	—	<b>14</b>	—
Ark. ....	160	120	120	—	—	—
La. ....	—	—	—	—	—	Office of Licensing Certification is responsible for certification of clinical labs
Okla. ....	324	185	185	—	9	—
Tex. ....	—	1,640	120	—	5	Medicare—Licensing and Certification Bureau of the Texas Department of Health
<b>Mountain .....</b>	<b>1,116</b>	<b>1,011</b>	<b>714</b>	<b>279</b>	<b>55</b>	—
Ariz. ....	171	171	123	48	—	—
Colo. ....	185	134	116	—	—	—
Ida. ....	212	212	212	—	55	—
Mont. ....	126	126	—	126	—	—
Nev. ....	160	160	55	105	—	—
N.M. ....	95	95	95	—	—	—
Utah ....	115	61	61	—	—	—
Wyo. ....	52	52	52	—	—	—
<b>Pacific .....</b>	<b>4,274</b>	<b>2,009</b>	<b>2,200</b>	<b>356</b>	<b>1,041</b>	—
Alaska ....	—	—	—	—	—	—
Cal. ....	4,000	2,000	2,000	—	850	—
Hawaii ....	74	53	—	—	53	—
Ore. ....	200	200	200	—	—	—
Wash. ....	—	356	—	356	138	—
<b>Territories .....</b>	<b>427</b>	<b>420</b>	<b>419</b>	—	—	—
Guam ....	7	—	—	—	—	—
P.R. ....	419	419	419	—	—	—
V.I. ....	1	1	—	—	—	—

Table 4-55  
**XIII. LABORATORY IMPROVEMENT PROGRAM**  
**A. Clinical Laboratories – Continued**

		Activity of Laboratory Improvement Program Staff																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Lab & Region		5. Proficiency Testing											6. Field Visits					7. Trng	8. Consult																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		Diag. Bact.	Mycology	Parasitology	Virology	Immunology		Hematology	Clin. Chemistry	Pathology	Env. Microbiology	Env. Chemistry	Dairy/Food	Other	LIP Programs					Other Programs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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<b>New England</b>																							Conn.	X	X	X	X	X	X	X	X	X	-	-	-	Blood banks, blood collection	X	X	X	X	X	-	X	X		Mass.	X	-	-	-	X	X	-	-	-	-	-	Immunohematology	X	-	-	-	-	-	X	X		Me.	X	X	-	-	X	X	-	-	-	X	X	-	-	X	-	-	-	-	-	X	X		N.H.	-	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		R.I.	X	X	X	-	X	X	X	X	X	X	-	X	-	X	-	-	-	-	X	X	X		Vt.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		<b>Middle Atlantic</b>																							N.J.	X	X	X	-	X	X	X	X	-	X	X	-	-	-	X	X	-	-	X	X		N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		Pa.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	X	X	X	-	X	X		<b>East North Central</b>																							Ill.	-	-	-	-	X	-	-	-	-	-	-	-	Blood lead, PKU	X	-	-	X	-	-	X	X	Ind.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	X	X	Mich.	X	X	X	-	X	X	X	X	-	-	-	-	PKU	X	X	-	X	X	-	-	X		Ohio	X	X	X	-	X	X	X	X	-	-	-	-	Alcohol tests	X	X	-	X	X	-	X	X		Wis.	X	X	X	-	X	X	X	X	-	-	X	Alcohol testing, immunohematology, urinalysis, hepatitis associated antigen, PKU	X	X	-	X	X	-	X	X		<b>West North Central</b>																							Ia.	X	X	X	-	X	X	X	X	-	-	-	-	-	X	-	-	X	-	-	X	X	Kans.	-	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	X	-	-	X	X	Minn.	X	X	X	-	X	X	X	X	-	-	-	Blood banking, urinalysis	-	-	-	-	-	-	-	X	X	Mo.	-	-	-	-	X	-	-	-	-	-	X	PKU	X	-	-	-	-	-	-	X	X	Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S.D.	-	-	-	-	X	-	X	X	-	-	-	Immunology	-	-	-	X	X	-	-	X	X	<b>South Atlantic</b>																							Del.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		D.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Fla.	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Md.	X	X	X	X	X	X	X	X	X	-	-	-	-	X	X	-	X	X	-	X	X	N.C.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		S.C.	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Va.	-	-	-	-	X	-	-	-	-	-	-	-	Blood banks	-	-	-	-	-	X	X	W. Va.	X	-	X	-	X	-	X	X	-	-	-	-	-	X	X	-	-	-	X	X		<b>East South Central</b>																							Ala.	-	-	-	-	X	-	-	-	-	-	-	-	Pre-marital	X	-	-	X	-	-	X	X	Ky.	X	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	Miss.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tenn.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	<b>West South Central</b>																							Ark.	X	X	X	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X		La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Okla.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X		Tex.	X	X	X	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		<b>Mountain</b>																							Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	Monitoring	X	X	-	X	X	-	X	X	Colo.	X	X	X	-	X	X	X	X	-	-	-	Blood alcohol labs	X	X	-	-	X	-	X	X		Ida.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		Mont.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Nev.	X	X	-	-	X	-	-	X	-	-	-	-	-	X	-	-	-	-	X	X		N.M.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	-	-	X	X		Utah	X	X	X	-	X	X	X	X	X	X	X	-	-	X	X	X	X	-	X	X		Wyo.	X	-	X	-	X	X	X	X	-	-	-	-	-	-	X	-	X	-	X	X		<b>Pacific</b>																							Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cal.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	-	X	X	-	X	X		Hawaii	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	X	X		Ore.	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X		Wash.	-	-	-	-	X	-	-	-	-	X	-	-	-	X	X	-	X	-	X	X		<b>Territories</b>																							Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P.R.	X	X	X	-	X	X	X	X	-	-	-	Blood banks	X	-	-	-	-	-	X	X		V.I.	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	X	-	X	X	
Conn.	X	X	X	X	X	X	X	X	X	-	-	-	Blood banks, blood collection	X	X	X	X	X	-	X	X		Mass.	X	-	-	-	X	X	-	-	-	-	-	Immunohematology	X	-	-	-	-	-	X	X		Me.	X	X	-	-	X	X	-	-	-	X	X	-	-	X	-	-	-	-	-	X	X		N.H.	-	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		R.I.	X	X	X	-	X	X	X	X	X	X	-	X	-	X	-	-	-	-	X	X	X		Vt.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		<b>Middle Atlantic</b>																							N.J.	X	X	X	-	X	X	X	X	-	X	X	-	-	-	X	X	-	-	X	X		N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		Pa.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	X	X	X	-	X	X		<b>East North Central</b>																							Ill.	-	-	-	-	X	-	-	-	-	-	-	-	Blood lead, PKU	X	-	-	X	-	-	X	X	Ind.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	X	X	Mich.	X	X	X	-	X	X	X	X	-	-	-	-	PKU	X	X	-	X	X	-	-	X		Ohio	X	X	X	-	X	X	X	X	-	-	-	-	Alcohol tests	X	X	-	X	X	-	X	X		Wis.	X	X	X	-	X	X	X	X	-	-	X	Alcohol testing, immunohematology, urinalysis, hepatitis associated antigen, PKU	X	X	-	X	X	-	X	X		<b>West North Central</b>																							Ia.	X	X	X	-	X	X	X	X	-	-	-	-	-	X	-	-	X	-	-	X	X	Kans.	-	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	X	-	-	X	X	Minn.	X	X	X	-	X	X	X	X	-	-	-	Blood banking, urinalysis	-	-	-	-	-	-	-	X	X	Mo.	-	-	-	-	X	-	-	-	-	-	X	PKU	X	-	-	-	-	-	-	X	X	Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S.D.	-	-	-	-	X	-	X	X	-	-	-	Immunology	-	-	-	X	X	-	-	X	X	<b>South Atlantic</b>																							Del.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		D.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Fla.	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Md.	X	X	X	X	X	X	X	X	X	-	-	-	-	X	X	-	X	X	-	X	X	N.C.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		S.C.	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Va.	-	-	-	-	X	-	-	-	-	-	-	-	Blood banks	-	-	-	-	-	X	X	W. Va.	X	-	X	-	X	-	X	X	-	-	-	-	-	X	X	-	-	-	X	X		<b>East South Central</b>																							Ala.	-	-	-	-	X	-	-	-	-	-	-	-	Pre-marital	X	-	-	X	-	-	X	X	Ky.	X	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	Miss.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tenn.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	<b>West South Central</b>																							Ark.	X	X	X	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X		La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Okla.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X		Tex.	X	X	X	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		<b>Mountain</b>																							Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	Monitoring	X	X	-	X	X	-	X	X	Colo.	X	X	X	-	X	X	X	X	-	-	-	Blood alcohol labs	X	X	-	-	X	-	X	X		Ida.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		Mont.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Nev.	X	X	-	-	X	-	-	X	-	-	-	-	-	X	-	-	-	-	X	X		N.M.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	-	-	X	X		Utah	X	X	X	-	X	X	X	X	X	X	X	-	-	X	X	X	X	-	X	X		Wyo.	X	-	X	-	X	X	X	X	-	-	-	-	-	-	X	-	X	-	X	X		<b>Pacific</b>																							Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cal.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	-	X	X	-	X	X		Hawaii	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	X	X		Ore.	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X		Wash.	-	-	-	-	X	-	-	-	-	X	-	-	-	X	X	-	X	-	X	X		<b>Territories</b>																							Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P.R.	X	X	X	-	X	X	X	X	-	-	-	Blood banks	X	-	-	-	-	-	X	X		V.I.	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	X	-	X	X																								
Mass.	X	-	-	-	X	X	-	-	-	-	-	Immunohematology	X	-	-	-	-	-	X	X		Me.	X	X	-	-	X	X	-	-	-	X	X	-	-	X	-	-	-	-	-	X	X		N.H.	-	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		R.I.	X	X	X	-	X	X	X	X	X	X	-	X	-	X	-	-	-	-	X	X	X		Vt.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		<b>Middle Atlantic</b>																							N.J.	X	X	X	-	X	X	X	X	-	X	X	-	-	-	X	X	-	-	X	X		N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		Pa.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	X	X	X	-	X	X		<b>East North Central</b>																							Ill.	-	-	-	-	X	-	-	-	-	-	-	-	Blood lead, PKU	X	-	-	X	-	-	X	X	Ind.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	X	X	Mich.	X	X	X	-	X	X	X	X	-	-	-	-	PKU	X	X	-	X	X	-	-	X		Ohio	X	X	X	-	X	X	X	X	-	-	-	-	Alcohol tests	X	X	-	X	X	-	X	X		Wis.	X	X	X	-	X	X	X	X	-	-	X	Alcohol testing, immunohematology, urinalysis, hepatitis associated antigen, PKU	X	X	-	X	X	-	X	X		<b>West North Central</b>																							Ia.	X	X	X	-	X	X	X	X	-	-	-	-	-	X	-	-	X	-	-	X	X	Kans.	-	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	X	-	-	X	X	Minn.	X	X	X	-	X	X	X	X	-	-	-	Blood banking, urinalysis	-	-	-	-	-	-	-	X	X	Mo.	-	-	-	-	X	-	-	-	-	-	X	PKU	X	-	-	-	-	-	-	X	X	Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S.D.	-	-	-	-	X	-	X	X	-	-	-	Immunology	-	-	-	X	X	-	-	X	X	<b>South Atlantic</b>																							Del.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		D.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Fla.	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Md.	X	X	X	X	X	X	X	X	X	-	-	-	-	X	X	-	X	X	-	X	X	N.C.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		S.C.	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Va.	-	-	-	-	X	-	-	-	-	-	-	-	Blood banks	-	-	-	-	-	X	X	W. Va.	X	-	X	-	X	-	X	X	-	-	-	-	-	X	X	-	-	-	X	X		<b>East South Central</b>																							Ala.	-	-	-	-	X	-	-	-	-	-	-	-	Pre-marital	X	-	-	X	-	-	X	X	Ky.	X	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	Miss.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tenn.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	<b>West South Central</b>																							Ark.	X	X	X	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X		La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Okla.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X		Tex.	X	X	X	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		<b>Mountain</b>																							Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	Monitoring	X	X	-	X	X	-	X	X	Colo.	X	X	X	-	X	X	X	X	-	-	-	Blood alcohol labs	X	X	-	-	X	-	X	X		Ida.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		Mont.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Nev.	X	X	-	-	X	-	-	X	-	-	-	-	-	X	-	-	-	-	X	X		N.M.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	-	-	X	X		Utah	X	X	X	-	X	X	X	X	X	X	X	-	-	X	X	X	X	-	X	X		Wyo.	X	-	X	-	X	X	X	X	-	-	-	-	-	-	X	-	X	-	X	X		<b>Pacific</b>																							Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cal.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	-	X	X	-	X	X		Hawaii	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	X	X		Ore.	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X		Wash.	-	-	-	-	X	-	-	-	-	X	-	-	-	X	X	-	X	-	X	X		<b>Territories</b>																							Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P.R.	X	X	X	-	X	X	X	X	-	-	-	Blood banks	X	-	-	-	-	-	X	X		V.I.	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	X	-	X	X																																															
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Vt.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		<b>Middle Atlantic</b>																							N.J.	X	X	X	-	X	X	X	X	-	X	X	-	-	-	X	X	-	-	X	X		N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		Pa.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	X	X	X	-	X	X		<b>East North Central</b>																							Ill.	-	-	-	-	X	-	-	-	-	-	-	-	Blood lead, PKU	X	-	-	X	-	-	X	X	Ind.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	X	X	Mich.	X	X	X	-	X	X	X	X	-	-	-	-	PKU	X	X	-	X	X	-	-	X		Ohio	X	X	X	-	X	X	X	X	-	-	-	-	Alcohol tests	X	X	-	X	X	-	X	X		Wis.	X	X	X	-	X	X	X	X	-	-	X	Alcohol testing, immunohematology, urinalysis, hepatitis associated antigen, PKU	X	X	-	X	X	-	X	X		<b>West North Central</b>																							Ia.	X	X	X	-	X	X	X	X	-	-	-	-	-	X	-	-	X	-	-	X	X	Kans.	-	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	X	-	-	X	X	Minn.	X	X	X	-	X	X	X	X	-	-	-	Blood banking, urinalysis	-	-	-	-	-	-	-	X	X	Mo.	-	-	-	-	X	-	-	-	-	-	X	PKU	X	-	-	-	-	-	-	X	X	Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S.D.	-	-	-	-	X	-	X	X	-	-	-	Immunology	-	-	-	X	X	-	-	X	X	<b>South Atlantic</b>																							Del.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		D.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Fla.	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Md.	X	X	X	X	X	X	X	X	X	-	-	-	-	X	X	-	X	X	-	X	X	N.C.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		S.C.	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Va.	-	-	-	-	X	-	-	-	-	-	-	-	Blood banks	-	-	-	-	-	X	X	W. Va.	X	-	X	-	X	-	X	X	-	-	-	-	-	X	X	-	-	-	X	X		<b>East South Central</b>																							Ala.	-	-	-	-	X	-	-	-	-	-	-	-	Pre-marital	X	-	-	X	-	-	X	X	Ky.	X	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	Miss.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tenn.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	<b>West South Central</b>																							Ark.	X	X	X	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X		La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Okla.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X		Tex.	X	X	X	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		<b>Mountain</b>																							Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	Monitoring	X	X	-	X	X	-	X	X	Colo.	X	X	X	-	X	X	X	X	-	-	-	Blood alcohol labs	X	X	-	-	X	-	X	X		Ida.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		Mont.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Nev.	X	X	-	-	X	-	-	X	-	-	-	-	-	X	-	-	-	-	X	X		N.M.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	-	-	X	X		Utah	X	X	X	-	X	X	X	X	X	X	X	-	-	X	X	X	X	-	X	X		Wyo.	X	-	X	-	X	X	X	X	-	-	-	-	-	-	X	-	X	-	X	X		<b>Pacific</b>																							Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cal.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	-	X	X	-	X	X		Hawaii	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	X	X		Ore.	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X		Wash.	-	-	-	-	X	-	-	-	-	X	-	-	-	X	X	-	X	-	X	X		<b>Territories</b>																							Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P.R.	X	X	X	-	X	X	X	X	-	-	-	Blood banks	X	-	-	-	-	-	X	X		V.I.	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	X	-	X	X																																																																																																																																										
<b>Middle Atlantic</b>																							N.J.	X	X	X	-	X	X	X	X	-	X	X	-	-	-	X	X	-	-	X	X		N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		Pa.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	X	X	X	-	X	X		<b>East North Central</b>																							Ill.	-	-	-	-	X	-	-	-	-	-	-	-	Blood lead, PKU	X	-	-	X	-	-	X	X	Ind.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	X	X	Mich.	X	X	X	-	X	X	X	X	-	-	-	-	PKU	X	X	-	X	X	-	-	X		Ohio	X	X	X	-	X	X	X	X	-	-	-	-	Alcohol tests	X	X	-	X	X	-	X	X		Wis.	X	X	X	-	X	X	X	X	-	-	X	Alcohol testing, immunohematology, urinalysis, hepatitis associated antigen, PKU	X	X	-	X	X	-	X	X		<b>West North Central</b>																							Ia.	X	X	X	-	X	X	X	X	-	-	-	-	-	X	-	-	X	-	-	X	X	Kans.	-	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	X	-	-	X	X	Minn.	X	X	X	-	X	X	X	X	-	-	-	Blood banking, urinalysis	-	-	-	-	-	-	-	X	X	Mo.	-	-	-	-	X	-	-	-	-	-	X	PKU	X	-	-	-	-	-	-	X	X	Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S.D.	-	-	-	-	X	-	X	X	-	-	-	Immunology	-	-	-	X	X	-	-	X	X	<b>South Atlantic</b>																							Del.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		D.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Fla.	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Md.	X	X	X	X	X	X	X	X	X	-	-	-	-	X	X	-	X	X	-	X	X	N.C.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		S.C.	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Va.	-	-	-	-	X	-	-	-	-	-	-	-	Blood banks	-	-	-	-	-	X	X	W. Va.	X	-	X	-	X	-	X	X	-	-	-	-	-	X	X	-	-	-	X	X		<b>East South Central</b>																							Ala.	-	-	-	-	X	-	-	-	-	-	-	-	Pre-marital	X	-	-	X	-	-	X	X	Ky.	X	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	Miss.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tenn.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	<b>West South Central</b>																							Ark.	X	X	X	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X		La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Okla.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X		Tex.	X	X	X	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		<b>Mountain</b>																							Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	Monitoring	X	X	-	X	X	-	X	X	Colo.	X	X	X	-	X	X	X	X	-	-	-	Blood alcohol labs	X	X	-	-	X	-	X	X		Ida.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		Mont.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Nev.	X	X	-	-	X	-	-	X	-	-	-	-	-	X	-	-	-	-	X	X		N.M.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	-	-	X	X		Utah	X	X	X	-	X	X	X	X	X	X	X	-	-	X	X	X	X	-	X	X		Wyo.	X	-	X	-	X	X	X	X	-	-	-	-	-	-	X	-	X	-	X	X		<b>Pacific</b>																							Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cal.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	-	X	X	-	X	X		Hawaii	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	X	X		Ore.	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X		Wash.	-	-	-	-	X	-	-	-	-	X	-	-	-	X	X	-	X	-	X	X		<b>Territories</b>																							Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P.R.	X	X	X	-	X	X	X	X	-	-	-	Blood banks	X	-	-	-	-	-	X	X		V.I.	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	X	-	X	X																																																																																																																																																																	
N.J.	X	X	X	-	X	X	X	X	-	X	X	-	-	-	X	X	-	-	X	X		N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		Pa.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	X	X	X	-	X	X		<b>East North Central</b>																							Ill.	-	-	-	-	X	-	-	-	-	-	-	-	Blood lead, PKU	X	-	-	X	-	-	X	X	Ind.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	X	X	Mich.	X	X	X	-	X	X	X	X	-	-	-	-	PKU	X	X	-	X	X	-	-	X		Ohio	X	X	X	-	X	X	X	X	-	-	-	-	Alcohol tests	X	X	-	X	X	-	X	X		Wis.	X	X	X	-	X	X	X	X	-	-	X	Alcohol testing, immunohematology, urinalysis, hepatitis associated antigen, PKU	X	X	-	X	X	-	X	X		<b>West North Central</b>																							Ia.	X	X	X	-	X	X	X	X	-	-	-	-	-	X	-	-	X	-	-	X	X	Kans.	-	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	X	-	-	X	X	Minn.	X	X	X	-	X	X	X	X	-	-	-	Blood banking, urinalysis	-	-	-	-	-	-	-	X	X	Mo.	-	-	-	-	X	-	-	-	-	-	X	PKU	X	-	-	-	-	-	-	X	X	Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S.D.	-	-	-	-	X	-	X	X	-	-	-	Immunology	-	-	-	X	X	-	-	X	X	<b>South Atlantic</b>																							Del.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		D.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Fla.	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Md.	X	X	X	X	X	X	X	X	X	-	-	-	-	X	X	-	X	X	-	X	X	N.C.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		S.C.	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Va.	-	-	-	-	X	-	-	-	-	-	-	-	Blood banks	-	-	-	-	-	X	X	W. Va.	X	-	X	-	X	-	X	X	-	-	-	-	-	X	X	-	-	-	X	X		<b>East South Central</b>																							Ala.	-	-	-	-	X	-	-	-	-	-	-	-	Pre-marital	X	-	-	X	-	-	X	X	Ky.	X	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	Miss.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tenn.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	<b>West South Central</b>																							Ark.	X	X	X	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X		La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Okla.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X		Tex.	X	X	X	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		<b>Mountain</b>																							Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	Monitoring	X	X	-	X	X	-	X	X	Colo.	X	X	X	-	X	X	X	X	-	-	-	Blood alcohol labs	X	X	-	-	X	-	X	X		Ida.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		Mont.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Nev.	X	X	-	-	X	-	-	X	-	-	-	-	-	X	-	-	-	-	X	X		N.M.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	-	-	X	X		Utah	X	X	X	-	X	X	X	X	X	X	X	-	-	X	X	X	X	-	X	X		Wyo.	X	-	X	-	X	X	X	X	-	-	-	-	-	-	X	-	X	-	X	X		<b>Pacific</b>																							Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cal.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	-	X	X	-	X	X		Hawaii	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	X	X		Ore.	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X		Wash.	-	-	-	-	X	-	-	-	-	X	-	-	-	X	X	-	X	-	X	X		<b>Territories</b>																							Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P.R.	X	X	X	-	X	X	X	X	-	-	-	Blood banks	X	-	-	-	-	-	X	X		V.I.	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	X	-	X	X																																																																																																																																																																																								
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Wis.	X	X	X	-	X	X	X	X	-	-	X	Alcohol testing, immunohematology, urinalysis, hepatitis associated antigen, PKU	X	X	-	X	X	-	X	X		<b>West North Central</b>																							Ia.	X	X	X	-	X	X	X	X	-	-	-	-	-	X	-	-	X	-	-	X	X	Kans.	-	-	-	-	X	-	X	-	-	-	X	-	-	X	-	-	X	-	-	X	X	Minn.	X	X	X	-	X	X	X	X	-	-	-	Blood banking, urinalysis	-	-	-	-	-	-	-	X	X	Mo.	-	-	-	-	X	-	-	-	-	-	X	PKU	X	-	-	-	-	-	-	X	X	Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S.D.	-	-	-	-	X	-	X	X	-	-	-	Immunology	-	-	-	X	X	-	-	X	X	<b>South Atlantic</b>																							Del.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		D.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Fla.	-	-	-	X	X	-	-	-	-	-	-	-	-	X	-	X	X	-	X	X		Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Md.	X	X	X	X	X	X	X	X	X	-	-	-	-	X	X	-	X	X	-	X	X	N.C.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		S.C.	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Va.	-	-	-	-	X	-	-	-	-	-	-	-	Blood banks	-	-	-	-	-	X	X	W. Va.	X	-	X	-	X	-	X	X	-	-	-	-	-	X	X	-	-	-	X	X		<b>East South Central</b>																							Ala.	-	-	-	-	X	-	-	-	-	-	-	-	Pre-marital	X	-	-	X	-	-	X	X	Ky.	X	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	Miss.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tenn.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	<b>West South Central</b>																							Ark.	X	X	X	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X		La.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Okla.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X		Tex.	X	X	X	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X		<b>Mountain</b>																							Ariz.	-	-	-	-	-	-	-	-	-	-	-	-	Monitoring	X	X	-	X	X	-	X	X	Colo.	X	X	X	-	X	X	X	X	-	-	-	Blood alcohol labs	X	X	-	-	X	-	X	X		Ida.	X	X	X	-	X	X	X	X	-	-	X	-	-	X	-	-	-	-	X	X		Mont.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X		Nev.	X	X	-	-	X	-	-	X	-	-	-	-	-	X	-	-	-	-	X	X		N.M.	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	-	-	X	X		Utah	X	X	X	-	X	X	X	X	X	X	X	-	-	X	X	X	X	-	X	X		Wyo.	X	-	X	-	X	X	X	X	-	-	-	-	-	-	X	-	X	-	X	X		<b>Pacific</b>																							Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cal.	X	X	X	X	X	X	X	X	-	-	-	-	-	X	-	X	X	-	X	X		Hawaii	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	X	X		Ore.	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	X	X		Wash.	-	-	-	-	X	-	-	-	-	X	-	-	-	X	X	-	X	-	X	X		<b>Territories</b>																							Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P.R.	X	X	X	-	X	X	X	X	-	-	-	Blood banks	X	-	-	-	-	-	X	X		V.I.	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	X	-	X	X																																																																																																																																																																																																																																																																																																																																																																												
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Table 4-56  
XIII. LABORATORY IMPROVEMENT PROGRAM  
B. Public Health Laboratories

Lab & Region	1. No. Labs in State	2. No. Labs Lic./Reg./App. Cert. By State	3. No. by LIP			4. Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
			Lic./App.	Reg.	Cert.	
<b>Total</b> .....	<b>406</b>	<b>433</b>	<b>262</b>	<b>28</b>	<b>150</b>	
Average .....	6.6	12.4	11.9	7	18.8	
<b>New England</b> .....	<b>118</b>	<b>114</b>	<b>114</b>	<b>1</b>	<b>—</b>	
Conn. ....	113	113	113	—	—	—
Mass. ....	—	—	—	—	—	—
Me. ....	2	—	—	—	—	—
N.H. ....	1	—	—	—	—	—
R.I. ....	1	—	—	—	—	—
Vt. ....	1	1	1	1	—	—
<b>Middle Atlantic</b> .....	<b>11</b>	<b>10</b>	<b>10</b>	<b>—</b>	<b>—</b>	
N.J. ....	8	8	8	—	—	—
N.Y. ....	—	—	—	—	—	—
Pa. ....	3	2	2	—	—	—
<b>East North Central</b> .....	<b>55</b>	<b>105</b>	<b>38</b>	<b>6</b>	<b>77</b>	
Ill. ....	13	10	8	—	—	—
Ind. ....	69	69	—	—	69	—
Mich. ....	18	18	24	6	—	—
Ohio ....	10	—	6	—	—	—
Wisc. ....	8	8	—	—	8	—
<b>West North Central</b> .....	<b>26</b>	<b>14</b>	<b>5</b>	<b>—</b>	<b>—</b>	
Ia. ....	—	—	—	—	—	—
Kans. ....	3	2	2	—	—	—
Minn. ....	5	—	—	—	—	Division of Health Systems (Medicare and CLIA-67 only)
Mo. ....	8	5	—	—	—	—
Nebr. ....	3	3	3	—	—	—
N.D. ....	4	4	—	—	—	Division of Health Facilities (Medicare only)
S.D. ....	3	—	—	—	—	—
<b>South Atlantic</b> .....	<b>39</b>	<b>35</b>	<b>9</b>	<b>—</b>	<b>25</b>	
Del. ....	1	—	—	—	—	—
D.C. ....	1	—	—	—	—	P.H. Lab performs the inspections and cooperates with the State agency
Fla. ....	9	9	9	—	—	—
Ga. ....	—	—	—	—	—	—
Md. ....	9	—	—	—	—	—
N.C. ....	—	25	—	—	25	Div. of Facility Services (Medicare, Medicaid, Syphilis Serology)
S.C. ....	8	1	—	—	—	Bureau of Health Licensing and Certification (certifies for Medicare)
Va. ....	10	—	—	—	—	Dept. of Health, except water, milk, blood banks, Syphilis Serology
W. Va. ....	1	—	—	—	—	—
<b>East South Central</b> .....	<b>27</b>	<b>12</b>	<b>12</b>	<b>—</b>	<b>—</b>	
Ala. ....	9	—	—	—	—	Bureau of Licensure and Certification
Ky. ....	8	3	3	—	—	Division for Licensure and Regulation (except premarital tests for syphilis)
Miss. ....	5	4	4	—	—	—
Tenn. ....	5	5	5	—	—	—
<b>West South Central</b> .....	<b>15</b>	<b>36</b>	<b>7</b>	<b>—</b>	<b>12</b>	
Ark. ....	2	1	1	—	—	—
La. ....	7	6	—	—	6	—
Okla. ....	6	6	6	—	6	—
Tex. ....	—	23	—	—	—	Licensing and Certification Bureau (Medicare)
<b>Mountain</b> .....	<b>43</b>	<b>37</b>	<b>21</b>	<b>2</b>	<b>17</b>	
Ariz. ....	10	10	10	—	—	—
Colo. ....	10	10	—	—	10	—
Ida. ....	7	7	7	—	7	—
Mont. ....	2	2	—	2	—	—
Nev. ....	4	4	—	—	—	—
N.M. ....	1	*3	3	—	—	—
Utah ....	6	1	1	—	—	—
Wyo. ....	—	—	—	—	—	—
<b>Pacific</b> .....	<b>65</b>	<b>65</b>	<b>42</b>	<b>19</b>	<b>19</b>	
Alaska ....	—	—	—	—	—	—
Cal. ....	39	39	39	—	—	—
Hawaii ....	4	4	—	—	X	—
Ore. ....	3	3	3	—	—	—
Wash. ....	—	19	—	19	19	—
<b>Territories</b> .....	<b>7</b>	<b>5</b>	<b>4</b>	<b>—</b>	<b>—</b>	
Guam ....	2	—	—	—	—	—
P.R. ....	4	4	4	—	—	—
V.I. ....	1	1	—	—	—	—

\*Branch Laboratories

Table 4-56  
 XIII. LABORATORY IMPROVEMENT PROGRAM  
 B. Public Health Laboratories – Continued

Lab & Region	Activity of Laboratory Improvement Program Staff															7. Trng	8. Consult			
	5. Proficiency Testing											6. Field Visits								
	Diag. Bact.	Mycology	Parasitology	Virology	Immunology		Hematology	Clin. Chemistry	Pathology	Env. Microbiology	Env. Chemistry	Dairy/Food	Other	LIP Programs				Other Programs		
					Syphilis Serology	Non-Syphilis Serology								Lic./App.	Cert.				Other	Lic./App.
<b>New England</b>																				
Conn.	X	X	X	-	X	X	X	-	X	X	-	Dog laboratories	X	-	X	-	-	-	X	X
Mess.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Me.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.H.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R.I.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vt.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Middle Atlantic</b>																				
N.J.	X	X	X	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	X	X
N.Y.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pa.	X	X	X	X	X	X	X	-	-	-	-	-	X	-	-	-	X	-	X	X
<b>East North Central</b>																				
Ill.	-	-	-	-	X	-	-	-	-	-	-	-	X	-	-	X	-	-	X	X
Ind.	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-	-	X	X
Mich.	X	X	X	-	X	-	X	X	-	-	-	PKU	X	X	-	X	-	-	X	X
Ohio	X	X	X	-	X	X	X	X	-	-	X	Alcohol tests	X	X	-	-	-	-	X	X
Wisc.	X	X	X	-	X	X	X	X	-	-	X	PKU	X	X	-	-	-	-	X	X
<b>West North Central</b>																				
Ia.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kans.	-	-	-	-	X	-	X	X	-	-	X	-	X	-	-	X	X	-	X	X
Minn.	X	X	X	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-	X	X
Mo.	-	-	-	-	X	-	-	-	-	-	X	PKU	X	-	-	X	-	-	X	X
Nebr.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.D.	-	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S.D.	-	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	X	X
<b>South Atlantic</b>																				
Del.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D.C.	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	X	-	X	X
Fla.	-	-	-	X	X	-	-	-	-	-	-	-	X	-	-	X	X	-	X	X
Ga.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Md.	-	-	-	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-
N.C.	X	X	X	-	X	X	-	-	-	-	X	-	-	X	-	-	-	-	X	X
S.C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X
Va.	-	-	-	-	X	-	-	-	X	-	X	Agriculture labs	-	-	-	-	-	-	X	X
W. Va.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-
<b>East South Central</b>																				
Ala.	X	-	X	-	X	-	-	-	X	-	X	-	-	X	-	-	-	-	X	X
Ky.	X	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-
Miss.	-	-	-	-	-	-	-	-	X	-	-	-	-	X	-	X	X	-	-	-
Tenn.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>West South Central</b>																				
Ark.	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
La.	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-	-	-	-
Okla.	-	-	-	-	X	-	-	-	-	-	X	-	X	X	-	-	-	-	X	X
Tex.	X	X	X	-	X	-	-	-	-	-	X	-	X	X	X	-	X	-	X	X
<b>Mountain</b>																				
Ariz.	-	-	-	-	-	-	-	-	-	-	-	Monitoring	X	-	-	-	-	-	X	X
Colo.	X	X	X	-	X	X	-	-	X	X	-	-	-	X	-	-	-	-	X	X
Ida.	X	X	X	-	X	X	-	-	-	X	-	Forensic Chemistry, Pesticide Analysis	-	-	-	-	X	-	X	X
Mont.	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nev.	X	X	-	-	X	-	X	-	-	-	X	-	X	-	-	-	-	-	X	X
N.M.	-	-	-	-	X	-	-	-	-	X	X	-	X	X	-	-	-	-	X	X
Utah	-	-	-	-	-	-	X	-	X	X	-	-	X	X	-	-	-	-	X	X
Wyo.	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
<b>Pacific</b>																				
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cal.	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	X	X	-	X	X
Hawaii	-	-	-	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X
Ore.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	-	-	X	X
Wash.	-	-	-	-	X	-	-	-	X	-	-	-	X	X	-	-	X	-	X	X
<b>Territories</b>																				
Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.R.	X	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
V.I.	X	X	X	-	X	X	-	-	X	X	X	-	-	-	-	X	X	-	X	-

Table 4-57  
**XIII. LABORATORY IMPROVEMENT PROGRAM**  
**C. Dairy and Food Laboratories**

Lab & Region	1. No. Labs in State	2. No. Labs Lic./Reg./App. Cert. By State	3. No. by LIP			4. Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
			Lic./App.	Reg.	Cert.	
<b>Total</b> .....	<b>377</b>	<b>530</b>	<b>107</b>	<b>7</b>	<b>369</b>	
Average .....	17.1	18.9	11.9	7	19.4	
<b>New England</b> .....	<b>33</b>	<b>73</b>	<b>30</b>	<b>—</b>	<b>2</b>	
Conn. ....	28	28	28	—	—	—
Mass. ....	—	43	—	—	—	Division of Food and Drugs, Mass. Dept. of Public Health Department of Agriculture
Me. ....	3	—	—	—	—	—
N.H. ....	—	—	—	—	—	—
R.I. ....	2	2	2	—	2	—
Vt. ....	—	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>—</b>	<b>12</b>	<b>12</b>	<b>—</b>	<b>—</b>	
N.J. ....	—	12	12	—	—	—
N.Y. ....	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—
<b>East North Central</b> ....	<b>154</b>	<b>224</b>	<b>36</b>	<b>—</b>	<b>188</b>	
Ill. ....	—	36	36	—	—	—
Ind. ....	—	15	—	—	15	—
Mich. ....	—	—	—	—	—	Michigan Department of Agriculture
Ohio ....	—	19	—	—	19	—
Wis. ....	154	154	—	—	154	—
<b>West North Central</b> ...	<b>48</b>	<b>61</b>	<b>15</b>	<b>—</b>	<b>26</b>	
Ia. ....	31	31	—	—	—	Iowa Department of Agriculture
Kans. ....	13	12	12	—	12	—
Minn. ....	—	—	—	—	—	—
Mo. ....	—	14	—	—	14	—
Nebr. ....	—	—	—	—	—	—
N.D. ....	4	4	3	—	—	—
S.D. ....	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>58</b>	<b>47</b>	<b>—</b>	<b>—</b>	<b>86</b>	
Del. ....	1	—	—	—	—	—
D.C. ....	1	—	—	—	—	—
Fla. ....	—	—	—	—	—	State Department of Agriculture and Consumer Services
Ga. ....	—	—	—	—	—	—
Md. ....	20	15	—	—	15	—
N.C. ....	—	—	—	—	39	—
S.C. ....	17	9	—	—	9	—
Va. ....	19	17	—	—	17	—
W. Va. ....	—	6	—	—	6	—
<b>East South Central</b> ....	<b>55</b>	<b>62</b>	<b>6</b>	<b>—</b>	<b>54</b>	
Ala. ....	9	9	—	—	9	—
Ky. ....	—	30	—	—	30	—
Miss. ....	6	6	6	—	—	—
Tenn. ....	40	17	—	—	15	Joint responsibility of Departments of Agriculture and Public Health
<b>West South Central</b> ...	<b>—</b>	<b>32</b>	<b>6</b>	<b>—</b>	<b>3</b>	
Ark. ....	—	2	—	—	2	—
La. ....	—	7	6	—	—	—
Okla. ....	—	—	—	—	—	—
Tex. ....	—	23	—	—	1	—
<b>Mountain</b> .....	<b>20</b>	<b>17</b>	<b>2</b>	<b>7</b>	<b>8</b>	
Ariz. ....	—	—	—	—	—	—
Colo. ....	7	7	—	7	—	—
Ida. ....	7	7	—	—	7	—
Mont. ....	—	—	—	—	—	Department of Livestock
Nev. ....	2	2	2	—	—	—
N.M. ....	4	1	—	—	1	3 public health labs certified by FDA
Utah ....	—	—	—	—	—	—
Wyo. ....	—	—	—	—	—	—
<b>Pacific</b> .....	<b>4</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	
Alaska ....	—	—	—	—	—	—
Cal. ....	—	—	—	—	—	—
Hawaii ....	4	—	—	—	—	—
Ore. ....	—	—	—	—	—	Department of Agriculture
Wash. ....	—	—	—	—	—	Department of Agriculture
<b>Territories</b> .....	<b>5</b>	<b>2</b>	<b>—</b>	<b>—</b>	<b>2</b>	
Guam ....	2	—	—	—	—	—
P.R. ....	3	2	—	—	2	—
V.I. ....	—	—	—	—	—	—

Table 4-57  
**XIII. LABORATORY IMPROVEMENT PROGRAM**  
**C. Dairy and Food Laboratories – Continued**

Lab & Region	Activity of Laboratory Improvement Staff								
	5. Proficiency Testing	6. Field Visits						7. Training	8. Consult.
		LIP Program			Other Program				
		Lic./App.	Cert.	Other	Lic./App.	Cert.	Other		
<b>New England</b>									
Conn.	X	X	—	—	—	—	—	X	
Mass.	—	—	—	—	—	—	—	—	
Me.	—	X	—	—	—	—	—	X	
N.H.	—	—	—	—	—	—	—	—	
R.I.	X	X	X	—	—	—	—	X	
Vt.	—	—	—	—	—	—	—	—	
<b>Middle Atlantic</b>									
N.J.	X	X	X	X	—	—	—	X	
N.Y.	—	—	—	—	—	—	—	—	
Pa.	—	—	—	—	—	—	—	—	
<b>East North Central</b>									
Ill.	X	X	—	—	—	—	—	X	
Ind.	X	—	X	—	—	—	—	X	
Mich.	X	—	—	—	—	—	—	—	
Ohio	X	—	X	—	—	—	—	X	
Wisc.	—	X	X	—	X	X	—	X	
<b>West North Central</b>									
Ia.	—	—	—	—	—	—	—	—	
Kans.	X	X	X	—	—	X	—	—	
Minn.	—	—	—	—	—	—	—	X	
Mo.	X	—	—	—	—	X	—	X	
Nebr.	—	—	—	—	—	—	—	—	
N.D.	X	—	—	—	—	—	—	—	
S.D.	—	—	—	—	—	—	—	—	
<b>South Atlantic</b>									
Del.	—	—	—	—	—	—	—	X	
D.C.	—	—	—	—	—	—	—	—	
Fla.	X	X	—	—	—	—	—	X	
Ga.	—	—	—	—	—	—	—	—	
Md.	X	—	X	—	—	X	—	—	
N.C.	X	—	X	—	—	—	—	X	
S.C.	X	—	X	—	—	—	—	X	
Va.	X	—	X	—	—	—	—	X	
W. Va.	X	—	X	—	—	—	—	X	
<b>East South Central</b>									
Ala.	X	—	X	—	—	—	—	X	
Ky.	X	—	X	—	—	—	—	X	
Miss.	—	X	—	—	—	—	—	—	
Tenn.	X	—	X	—	—	X	—	X	
<b>West South Central</b>									
Ark.	—	—	X	—	—	—	—	—	
La.	X	—	X	—	—	—	—	X	
Okla.	—	—	—	—	—	—	—	X	
Tex.	X	X	—	—	—	—	—	X	
<b>Mountain</b>									
Ariz.	—	—	—	—	—	—	—	—	
Colo.	—	—	X	—	—	—	—	X	
Ida.	X	—	—	X	—	—	—	X	
Mont.	—	—	—	—	—	—	—	X	
Nev.	X	X	—	—	—	—	—	—	
N.M.	X	—	X	—	—	X	—	X	
Utah	—	—	—	—	—	—	—	—	
Wyo.	—	—	—	—	—	—	—	—	
<b>Pacific</b>									
Alaska	—	—	—	—	—	—	—	—	
Cal.	—	—	—	—	—	—	—	—	
Hawaii	—	—	—	—	—	—	—	—	
Ore.	—	—	—	—	—	—	—	—	
Wash.	X	X	X	—	—	X	—	X	
<b>Territories</b>									
Guam	—	—	—	—	—	—	—	—	
P.R.	—	—	—	X	—	—	—	X	
V.I.	—	—	—	—	—	—	—	—	

Table 4-58  
XIII. LABORATORY IMPROVEMENT PROGRAM  
D. Water Laboratories

Lab & Region	1. No. Labs in State	2. No. Water Labs in State			3. Other Agency or Department Responsible for Licensing Registering, Approving, Certifying Laboratories
		Lic./App.	Reg.	Cert.	
<b>Total</b> .....	<b>2,585</b>	<b>1,506</b>	<b>—</b>	<b>1,462</b>	
Average .....	73.3	71.7	—	56.2	
<b>New England</b> .....	<b>120</b>	<b>241</b>	<b>—</b>	<b>93</b>	
Conn. ....	72	72	—	72	
Mass. ....	—	135	—	—	Dept. of Environmental and Quality Engineering
Me. ....	35	21	—	21	
N.H. ....	—	—	—	—	
R.I. ....	13	13	—	—	
Vt. ....	—	—	—	—	
<b>Middle Atlantic</b> .....	<b>410</b>	<b>—</b>	<b>—</b>	<b>410</b>	
N.J. ....	133	—	—	133	
N.Y. ....	—	—	—	—	
Pa. ....	277	—	—	277	
<b>East North Central</b> .....	<b>450</b>	<b>75</b>	<b>—</b>	<b>517</b>	
Ill. ....	—	75	—	—	
Ind. ....	57	—	—	57	
Mich. ....	—	—	—	—	
Ohio ....	350	—	—	417	Certificates are granted by Ohio EPA. ODH conducts surveys and recommends to Ohio EPA
Wisc. ....	43	—	—	43	
<b>West North Central</b> .....	<b>200</b>	<b>144</b>	<b>—</b>	<b>56</b>	
Ia. ....	30	30	—	—	
Kans. ....	100	100	—	—	
Minn. ....	—	—	—	—	
Mo. ....	39	—	—	39	
Nebr. ....	17	—	—	17	
N.D. ....	14	14	—	—	
S.D. ....	—	—	—	—	
<b>South Atlantic</b> .....	<b>305</b>	<b>202</b>	<b>—</b>	<b>117</b>	
Del. ....	8	7	—	—	
D.C. ....	3	—	—	—	
Fla. ....	179	179	—	—	
Ga. ....	—	—	—	—	
Md. ....	39	—	—	17	
N.C. ....	—	—	—	17	Environmental Sciences Branch
S.C. ....	—	—	—	—	
Va. ....	76	—	—	76	
W. Va. ....	—	16	—	7	
<b>East South Central</b> .....	<b>133</b>	<b>13</b>	<b>—</b>	<b>90</b>	
Ala. ....	20	—	—	20	
Ky. ....	—	—	—	28	
Miss. ....	13	13	—	—	
Tenn. ....	100	—	—	42	The Divisions of Water Control and Radiological Health
<b>West South Central</b> .....	<b>40</b>	<b>32</b>	<b>—</b>	<b>37</b>	
Ark. ....	40	—	—	16	
La. ....	—	—	—	13	
Okla. ....	—	—	—	8	
Tex. ....	—	32	—	—	
<b>Mountain</b> .....	<b>206</b>	<b>110</b>	<b>—</b>	<b>101</b>	
Ariz. ....	31	29	—	29	
Colo. ....	30	30	—	—	
Ida. ....	35	—	—	23	
Mont. ....	26	—	—	18	
Nev. ....	24	14	—	10	
N.M. ....	30	30	—	—	
Utah ....	23	—	—	21	
Wyo. ....	7	7	—	—	
<b>Pacific</b> .....	<b>690</b>	<b>689</b>	<b>—</b>	<b>40</b>	
Alaska ....	—	—	—	—	
Cal. ....	643	643	—	—	
Hawaii ....	8	7	—	—	
Ore. ....	39	39	—	—	
Wash. ....	—	—	—	40	Non-potable water — Department of Ecology
<b>Territories</b> .....	<b>11</b>	<b>—</b>	<b>—</b>	<b>1</b>	
Guam ....	3	—	—	—	Guam EPA — Public Utility Agency of Guam Laboratory
P.R. ....	8	—	—	1	
V.I. ....	—	—	—	—	

Table 4-58  
 XIII. LABORATORY IMPROVEMENT PROGRAM  
 D. Water Laboratories — Continued

Lab & Region	4. No. Water Testing Laboratories in Laboratory Improvement Program											
	Licensed/Approved				Registered				Certified			
	Microbiology	Chemistry	Microbiology & Chemistry	Total	Microbiology	Chemistry	Microbiology & Chemistry	Total	Microbiology	Chemistry	Microbiology & Chemistry	Total
<b>Total</b> .....	<b>399</b>	<b>381</b>	<b>509</b>	<b>1,289</b>	—	—	—	—	<b>940</b>	<b>281</b>	<b>237</b>	<b>1,458</b>
Average .....	28.5	63.5	39.2	80.6	—	—	—	—	37.6	23.4	18.2	58.3
<b>New England</b> .....	<b>32</b>	<b>9</b>	<b>65</b>	<b>106</b>	—	—	—	—	<b>24</b>	<b>9</b>	<b>60</b>	<b>93</b>
Conn. ....	11	9	52	72	—	—	—	—	11	9	52	72
Mass. ....	—	—	—	—	—	—	—	—	—	—	—	—
Me. ....	11	—	10	21	—	—	—	—	13	—	8	21
N.H. ....	—	—	—	—	—	—	—	—	—	—	—	—
R.I. ....	10	—	3	13	—	—	—	—	—	—	—	—
Vt. ....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Middle Atlantic</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	—	—	—	—	<b>311</b>	<b>6</b>	<b>93</b>	<b>410</b>
N.J. ....	—	—	—	—	—	—	—	—	34	6	93	133
N.Y. ....	—	—	—	—	—	—	—	—	—	—	—	—
Pa. ....	—	—	—	—	—	—	—	—	277	—	—	277
<b>East North Central</b> .....	<b>75</b>	<b>—</b>	<b>—</b>	<b>75</b>	—	—	—	—	<b>292</b>	<b>225</b>	<b>—</b>	<b>517</b>
Ill. ....	75	—	—	75	—	—	—	—	—	—	—	—
Ind. ....	—	—	—	—	—	—	—	—	57	—	—	57
Mich. ....	—	—	—	—	—	—	—	—	—	—	—	—
Ohio ....	—	—	—	—	—	—	—	—	192	225	—	417
Wisc. ....	—	—	—	—	—	—	—	—	43	—	—	43
<b>West North Central</b> .....	<b>30</b>	<b>93</b>	<b>21</b>	<b>144</b>	—	—	—	—	<b>44</b>	<b>4</b>	<b>8</b>	<b>56</b>
Ia. ....	20	—	10	30	—	—	—	—	—	—	—	—
Kans. ....	—	91	9	100	—	—	—	—	—	—	—	—
Minn. ....	—	—	—	—	—	—	—	—	—	—	—	—
Mo. ....	—	—	—	—	—	—	—	—	39	—	—	39
Nebr. ....	—	—	—	—	—	—	—	—	5	4	8	17
N.D. ....	10	2	2	14	—	—	—	—	—	—	—	—
S.D. ....	—	—	—	—	—	—	—	—	—	—	—	—
<b>South Atlantic</b> .....	<b>99</b>	<b>6</b>	<b>81</b>	<b>186</b>	—	—	—	—	<b>98</b>	<b>—</b>	<b>19</b>	<b>117</b>
Del. ....	1	1	5	7	—	—	—	—	—	—	—	—
D.C. ....	—	—	—	—	—	—	—	—	—	—	—	—
Fla. ....	98	5	76	179	—	—	—	—	—	—	—	—
Ga. ....	—	—	—	—	—	—	—	—	—	—	—	—
Md. ....	—	—	—	—	—	—	—	—	17	—	—	17
N.C. ....	—	—	—	—	—	—	—	—	17	—	—	17
S.C. ....	—	—	—	—	—	—	—	—	—	—	—	—
Va. ....	—	—	—	—	—	—	—	—	57	—	19	76
W. Va. ....	—	—	—	—	—	—	—	—	7	—	—	7
<b>East South Central</b> .....	<b>12</b>	<b>—</b>	<b>1</b>	<b>13</b>	—	—	—	—	<b>59</b>	<b>4</b>	<b>—</b>	<b>63</b>
Ala. ....	—	—	—	—	—	—	—	—	20	—	—	20
Ky. ....	—	—	—	—	—	—	—	—	24	4	—	28
Miss. ....	12	—	1	13	—	—	—	—	—	—	—	—
Tenn. ....	—	—	—	—	—	—	—	—	15	—	—	15
<b>West South Central</b> .....	<b>31</b>	<b>—</b>	<b>1</b>	<b>32</b>	—	—	—	—	<b>24</b>	<b>—</b>	<b>—</b>	<b>24</b>
Ark. ....	—	—	—	—	—	—	—	—	16	—	—	16
La. ....	—	—	—	—	—	—	—	—	—	—	—	—
Okla. ....	—	—	—	—	—	—	—	—	8	—	—	8
Tex. ....	31	—	1	32	—	—	—	—	—	—	—	—
<b>Mountain</b> .....	<b>26</b>	<b>—</b>	<b>25</b>	<b>51</b>	—	—	—	—	<b>61</b>	<b>21</b>	<b>49</b>	<b>131</b>
Ariz. ....	—	—	—	—	—	—	—	—	17	2	10	29
Colo. ....	—	—	—	—	—	—	—	—	20	6	4	30
Ida. ....	—	—	—	—	—	—	—	—	12	3	8	23
Mont. ....	—	—	—	—	—	—	—	—	9	5	4	18
Nev. ....	—	—	14	14	—	—	—	—	—	—	10	10
N.M. ....	19	—	11	30	—	—	—	—	—	—	—	—
Utah ....	—	—	—	—	—	—	—	—	3	5	13	21
Wyo. ....	7	—	—	7	—	—	—	—	—	—	—	—
<b>Pacific</b> .....	<b>94</b>	<b>273</b>	<b>315</b>	<b>682</b>	—	—	—	—	<b>27</b>	<b>12</b>	<b>8</b>	<b>47</b>
Alaska ....	—	—	—	—	—	—	—	—	—	—	—	—
Cal. ....	55	273	315	643	—	—	—	—	—	—	—	—
Hawaii ....	—	—	—	—	—	—	—	—	4	1	2	7
Ore. ....	39	—	—	39	—	—	—	—	—	—	—	—
Wash. ....	—	—	—	—	—	—	—	—	23	11	6	40
<b>Territories</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	—	—	—	—	—	—	—	—
Guam ....	—	—	—	—	—	—	—	—	—	—	—	—
P.R. ....	—	—	—	—	—	—	—	—	—	—	—	—
V.I. ....	—	—	—	—	—	—	—	—	—	—	—	—

Table 4-58  
 XIII. LABORATORY IMPROVEMENT PROGRAM  
 D. Water Laboratories – Continued

Lab & Region	Activity of Laboratory Improvement Staff									
	5. Proficiency Testing		6. Field Visits						7. Trng	8. Consult
			LIP Program			Other Program				
	Water Microbiology	Water Chemistry	Lic./App.	Cert.	Other	Lic./App.	Cert.	Other		
<b>New England</b> .....										
Conn. ....	X	X	X	-	-	-	-	-	X	
Mass. ....	-	-	-	-	-	-	-	-	-	
Me. ....	X	X	X	X	-	-	-	-	X	
N.H. ....	-	-	-	-	-	-	-	-	-	
R.I. ....	-	-	X	-	-	-	-	-	X	
Vt. ....	-	-	-	-	-	-	-	-	-	
<b>Middle Atlantic</b> .....										
N.J. ....	X	X	-	X	-	-	-	-	X	
N.Y. ....	-	-	-	-	-	-	-	-	-	
Pa. ....	-	-	-	-	-	-	-	-	-	
<b>East North Central</b> .....										
Ill. ....	-	-	X	-	-	-	-	-	X	
Ind. ....	-	-	-	X	-	-	-	-	X	
Mich. ....	-	-	-	-	-	-	-	-	-	
Ohio ....	-	X	-	X	-	-	-	-	X	
Wisc. ....	X	-	-	X	-	X	X	-	X	
<b>West North Central</b> .....										
Ia. ....	-	-	X	-	-	-	-	-	-	
Kans. ....	-	X	X	-	-	-	-	-	-	
Minn. ....	-	-	-	-	-	-	-	-	-	
Mo. ....	-	-	-	-	-	-	X	-	X	
Nebr. ....	-	X	-	-	-	-	X	-	-	
N.D. ....	-	-	X	-	-	-	-	-	X	
S.D. ....	-	-	-	-	-	-	-	-	-	
<b>South Atlantic</b> .....										
Del. ....	-	-	X	-	-	-	-	-	-	
D.C. ....	-	-	-	-	-	-	-	-	-	
Fla. ....	-	X	X	-	-	-	-	-	X	
Ga. ....	-	-	-	-	-	-	-	-	-	
Md. ....	X	X	-	X	-	-	X	-	X	
N.C. ....	-	-	-	X	-	-	-	-	X	
S.C. ....	-	-	-	-	-	-	-	-	-	
Va. ....	-	-	-	X	-	-	-	-	X	
W. Va. ....	-	-	-	X	X	-	-	-	X	
<b>East South Central</b> .....										
Ala. ....	-	-	-	X	-	-	-	-	X	
Ky. ....	-	-	X	-	-	-	-	-	-	
Miss. ....	-	-	X	-	-	-	-	-	-	
Tenn. ....	-	-	-	X	-	-	X	-	X	
<b>West South Central</b> .....										
Ark. ....	-	-	-	X	-	-	-	-	-	
La. ....	X	-	-	X	-	-	-	-	X	
Okla. ....	-	-	-	X	-	-	-	-	X	
Tex. ....	-	-	X	-	-	-	-	-	X	
<b>Mountain</b> .....										
Ariz. ....	-	X	-	X	-	-	X	-	X	
Colo. ....	-	-	-	X	-	-	-	-	X	
Ida. ....	-	X	-	X	-	X	-	-	X	
Mont. ....	-	X	-	X	-	-	-	-	X	
Nev. ....	-	X	-	X	-	-	-	-	X	
N.M. ....	-	-	X	-	-	-	-	-	X	
Utah ....	X	X	X	-	-	X	-	X	X	
Wyo. ....	-	-	-	-	-	X	-	-	X	
<b>Pacific</b> .....										
Alaska ....	-	-	-	-	-	-	-	-	-	
Cal. ....	X	X	-	-	X	-	-	-	-	
Hawaii ....	X	-	-	X	-	-	X	-	X	
Ore. ....	X	-	X	-	-	-	-	-	X	
Wash. ....	-	X	-	X	-	-	-	-	X	
<b>Territories</b> .....										
Guam ....	-	-	-	-	-	-	-	-	-	
P.R. ....	-	-	-	-	-	-	-	-	X	
V.I. ....	-	-	-	-	-	-	-	-	-	

**Table 4-59**  
**XIII. LABORATORY IMPROVEMENT PROGRAM**  
**E. Other Laboratories**

Lab	Program Activity
Conn. ....	Recombinant DNA registration and inspection; physicians' offices proficiency testing; preparation and administration of examinations to approve laboratory directors for dairy, food, and water; NPDES approval, inspection, and proficiency testing; air registration.
Fla. ....	Implied Consent — permits issued to 3,535 alcohol breath test (law enforcement) technicians and 62 chemists and technologists for blood alcohol analysis; inspection and certification of 741 breath testing machines in 333 law enforcement agencies.
Ida. ....	Rubella proficiency testing — 30 laboratories approved, forensic alcohol testing — 10 laboratories approved
Kans. ....	Breath Alcohol Program for law enforcement agencies — approval, proficiency testing, field visits, training, and consultation.
Me. ....	Implied consent; breath and blood alcohol testing; certification of chemists, laboratories, and phlebotomists.
Pa. ....	Methods Investigations and development, evaluation of selected methods.
Utah ....	Technical consultation and training contracts from CDC; include on-site visits and workshop preparation and presentation.



**Table 4-60**  
**XIV. BIOLOGICS, REAGENTS, AND MEDIA PRODUCED FOR DISTRIBUTION**

Lab	Number FTE's	Biologics		Reagents	Media	Materials Produced for Distribution
		Human	Lab			
Ala. ....	<0.1	—	—	—	X	Rodac plates
Arlz. ....	5	—	—	—	X	McConkeys agar, TSB broth, Hanks solution, charcoal agar slants
Ark. ....	3.0	—	—	X	X	Martin-Lewis Agar, Polyvinyl Alcohol for intestinal parasites
Cal. ....	3.5	—	X	X	—	Reagents Febrile, bacterial antigens Salmonella typhi "O", S. typhi "H", S. paratyphi A, S. paratyphi B, Francisella tularensis, Brucella abortus Febrile, immune sera Brucella abortus, S. paratyphi A, S. paratyphi B, S. typhi "H," S. typhi "O", Francisella tularensis, Anti-sheep hemolysin
Colo. ....	3	—	—	—	X	JEMBEC plates
Conn. ....	1	—	—	X	X	Group A Streptococcus FA Conjugate; Group A Streptococcus office culture kits; Syphilis serology control sera; VDRL antigen and buffered saline.
Ga. ....	4	—	—	—	X	Improved Thayer-Martin Medium
Ill. ....	1.5	—	—	X	—	Alcohol standard solution used for calibration of breath testing equipment
Ia. ....	5.5	—	—	X	X	—
La. ....	—	—	—	—	X	Modified Thayer-Martin
Mass. ....	40.0	X	X	X	—	Albumin-human, DTP vaccine, DT vaccine, Immune globulin, RHO immune globulin, cross match reagent for RHO immune globulin, tetanus immune globulin, tetanus toxoid adsorbed, Td toxoids, typhoid vaccine, diphtheria antitoxin, tetanus antitoxin, Schick test outfit, silver nitrate, cytomegalovirus globulin (experimental), varicella zoster immune globulin (experimental)
Mich. ....	—	X	—	—	—	Immune serum globulin; normal serum albumin; anthrax vaccine; diphtheria antitoxin; diphtheria toxoid adsorbed; diphtheria and tetanus toxoids adsorbed; diphtheria and tetanus toxoids and pertussis vaccine combined; adsorbed; tetanus toxoid adsorbed; tetanus and diphtheria toxoids adsorbed (adult); typhoid vaccine, pertussis vaccine adsorbed
Minn. ....	1.0	—	—	—	X	Thayer-Martin plates
Mo. ....	2.0	—	—	—	X	Gonorrhea culture media, total media required in state-wide culture screening program
Mont. ....	3	—	—	X	X	JEMBEC plates with MTM medium, various transport media for all types of specimens, preservatives for water samples (redistilled acids, CuSO <sub>4</sub> ), sampling solutions and media for air monitoring (bubbler solutions, sulfation plates)
Nev. ....	0.6	—	—	—	X	MTM plates

**Table 4-60**  
**XIV. BIOLOGICS, REAGENTS, AND MEDIA PRODUCED FOR DISTRIBUTION – Continued**

Lab	Number FTE.s	Biologics		Reagents	Media	Materials Produced for Distribution
		Human	Lab			
N.H. ....	0.5	—	—	X	X	—
N.C. ....	5	—	—	X	X	—
N.D. ....	0.4	—	—	—	X	JEMBEC and modified Thayer-Martin media, transport media
Ohio ....	6.5	—	—	X	X	Thayer-Martin plates
S.C. ....	0.2	—	—	X	X	47 types of media and 20 separate reagents, stains, and solutions produced for water bacteriology and chemistry laboratories
Tenn. ....	9.5	—	—	X	X	Sterile distilled water, sterile, physiological saline, buffered glycerol saline, modified Thayer-Martin enrichment, VCN-T™ inhibitors, modified Thayer-Martin media, Jones Kindrick charcoal agar, tryptic soy agar slants, pal media for diphtheria.
Tex. ....	—	X	X	X	X	N. gonorrhoeae transport medium, Lowenstein Jensen medium, VDRL antigen and saline, Sheep blood and cells, bacterial agglutination antigens, silver nitrate solution
Wash. ....	3.0	—	X	X	X	Tabco, — G. C. media, Thayer-Martin plates
W. Va. ....	4	—	—	X	X	Improved-modified Transgrow medium (plate), Specimen containers with: buffered glycerol solution for enterics; formalin or PVA for parasites; sodium carbonate for mycobacteriological specimens; sodium thiosulfate for waters; tryptose phosphate with glycerine for viral preservative
Wisc. ....	5.5	—	—	X	X	Buffered glycerol, charcoal transport, chemistry tubes with sodium fluoride and thymol, chlamydia, formaline, PVA, Resazurin agar indicator, transport, transport for PPLO, veal for virus

Table 4-61  
**XV. RESEARCH AND DEVELOPMENT**  
**A. Basic Research**

Lab	Titles of Research Projects	Funding Support				
		Number of Positions	Federal Grant	Contract	State Funds	Other Funds
Cal. ....	Calibration of Mass Monitors	1	X	—	—	—
	Evaluation of Methods for Sulphate	2	X	—	—	—
	Validation of Samplers	1.6	X	—	—	—
	Env. Carcinogens by Cell Trans	1	X	—	—	—
	Studies of Naegleria Infections	1.6	X	—	—	—
	Electron Microscopic Studies	1.0	X	—	—	—
	Viral Diseases Study	9.8	X	—	—	—
	Inactivation of viruses for Vaccination	2.3	X	—	—	—
	Cancer Virus Studies	4.6	—	X	—	—
Marsupial Cytology Studies	0.6	X	—	—	—	
Fla. ....	Mobility and Survival Characteristics of Viruses in Cypress Dome Wetlands	2	X	—	X	X
	Virus Monitoring of Waste water used for Spray Irrigation of Public and Private Lands	5	—	X	X	X
	Determination of Lake Characteristics which do and do not support Pathogenic Naegleria Populations.	4	—	X	X	X
Ill. ....	Marijuana Detection Analyses	0.3	—	—	—	X
Ia. ....	Developing Methods for Separation, Identification, and Quantification of Complex Hydrocarbons Found In Coal Liquefaction and Gasification Plants	1.4	—	X	—	—
Mass. ....	Rapid Diagnosis of Respiratory Viruses by Immunochemical Methods — In collaboration with Harvard School of Public Health	1.6	—	X	—	—
Ore. ....	Toxoplasmosis	4.0	X	—	—	—
Pa. ....	Rapid diagnosis of LD	1	—	—	X	—
	Investigation of glycosylated hemoglobin assays and control materials	1	—	—	X	—
Wisc. ....	Epidemiology and Course of Viral Myopericarditis	4.0	X	—	—	—

Table 4-62  
**XV. RESEARCH AND DEVELOPMENT**  
**B. Applied Research**

Lab	Titles of Research Projects	Funding Support				
		Number of Positions	Federal Grant	Contract	State Funds	Other Funds
Cal. ....	Conf on Methods in Air Pollution Studies	0.5	X	—	—	—
	Viruses in Water and Reclaimed Wastewater	3.0	X	—	—	—
Conn. ....	Identification of L.D. Antigen In Serum	—	—	—	X	—
	Forensic Electrophoretic Serotyping	—	—	—	X	—
	Immunological Detection of Mucoprotein,	—	—	—	X	—
	Pyrolysis Products of Building Materials	—	—	—	X	—
D.C. ....	Microscopic Differentiation of Steriolsomers	—	—	—	X	—
	Enteropathogenic E. coli	—	—	—	X	—
Ga. ....	A Modified Procedure for the Phadebact Gonococcus Test,	.03	—	—	X	—
	Virus Serologic Survey of a Normal Population,	.03	—	—	X	—
	Distribution of Serotypes of the MAIS Complex in Georgia,	.06	—	—	X	—
	A New Method for Performing Acid-Fast Smear Examinations,	.05	—	—	X	—
Ida. ....	Prestudy for Developing "In-house" Procedures for Sputum Digestion Using CPC	.08	—	—	X	—
	Idaho Epidemiologic Studies Project					
Ida. ....	Human Monitoring	2.0	X	X	—	—
	Method Development	2.0	X	X	—	—
	Health Effects	2.0	X	X	—	—
	Incident Investigations	1.0	X	X	—	—
Ia. ....	Legionnaires'	1.0	—	—	—	X
	Arbovirus	0.5	—	—	X	—
	Water Supply Quality	0.5	X	—	—	—
	Insulation Formaldehyde Emission	0.25	—	—	—	X
Kans. ....	Beverage Alcohol Measurements by Headspace Gas Chromatography	—	—	—	X	—
	Detection of Coliform Species in Kansas Drinking Waters	—	—	—	X	—
Mass. ....	Application of SRH to Serodiagnosis of influenza, Measles, Mumps, and N. pneumoniae	—	—	—	—	—
Pa. ....	Evaluation of virus transport systems.	1.0	—	—	X	—
	Drug susceptibility patterns of pigmented and non-pigmented Mycobacterium intracellulare.	1.0	—	—	X	—
	Development of Standards for T <sub>4</sub> and TSH in Hypothyroidism Screening Program.	2.0	—	—	X	—
Wisc. ....	Erythrocyte Protoporphyrin Proficiency Testing	2.0	—	X	—	—
	Drugs in Drivers	2.0	—	X	—	—
	Sepra Streak Plate Evaluation	1.0	—	—	X	—
	Ticarcillin Study	—	—	X	—	—
	Evaluation of Co-agglutination for Strep and GC	0.5	—	X	—	—

Table 4-63  
 XV. RESEARCH AND DEVELOPMENT  
 C. Technical Development

Lab	Titles of Research Projects	Funding Support				
		Number of Positions	Federal Grant	Contract	State Funds	Other Funds
Cal. ....	Water Virology Laboratory	2.0	X	—	—	—
Conn. ....	High Pressure Liquid Chromatography of Drugs of Abuse	—	—	—	X	—
	Radioimmunoassay of Drugs of Abuse	—	—	—	X	—
Ga. ....	Isolation of Chlamydia in Cell Culture,	.05	—	—	X	—
	Identification of HSV Isolates by IF,	.05	—	—	X	—
	Poliovirus Micro Neutralization,	.02	—	—	X	—
	Rickettsial PHA,	.02	—	—	X	—
	Preparation of Chlamydia Antigen	.01	—	—	X	—
Ill. ....	Modified Guthrie Test	0.1	—	—	X	—
Mass. ....	Application of SRH to Rubella and Serodiagnosis of Rubella	0.3	—	—	—	—
Ohio ....	Virus Isolation Methods	0.5	—	—	—	—
Okla. ....	Hypothyroidism methodology	0.1	—	—	X	—
Ore. ....	Metabolic Innovative	2.0	X	—	—	—
	Metabolic MCH	2.5	—	—	—	X
Pa. ....	Direct FA for Viruses	2	—	—	X	—
	Modification of Calcium Method (complexone)	1	—	—	X	—
	Evaluation of proposed selected methods for prothrombin time and Inorganic PO <sub>4</sub>	2	—	—	X	—

**SECTION V**  
**SPECIAL QUESTIONS**

Table 5-1  
I. LABORATORY ORGANIZATIONAL STRUCTURE

Lab	Date of Current Organizational Chart		Did Organizational Structure Change During FY 1979	Description of Organizational Change
	State Health Department	State Laboratory		
Ala. ....	08/01/79	09/01/79	—	—
Alaska .....	—	—	—	—
Arlz. ....	11/01/76	07/20/78	—	—
Ark. ....	02/78	06/30/79	X	Consolidated Sections of the laboratory from 9 to 7. As of December 1, 1979, the Division of Public Health Laboratories was reorganized along with the State Department of Health to include both the former P.H. Labs and the Division of Environmental Laboratories.
Cal. ....	—	—	—	—
Colo. ....	10/76	1968	—	—
Conn. ....	06/01/79	06/30/79	X	The Laboratory Division now reports to the Chief, Bureau of Health Promotion and Disease Prevention rather than the Deputy Commissioner of the Health Department.
Del. ....	—	—	—	—
D.C. ....	—	—	—	—
Fla. ....	07/01/76	01/01/77	—	—
Ga. ....	09/14/77	07/01/78	—	—
Guam .....	—	06/78	—	—
Hawaii .....	07/01/79	07/01/79	—	—
Ida. ....	07/01/79	01/01/78	—	—
Ill. ....	02/01/79	10/01/79	—	—
Ind. ....	01/79	01/79	—	—
Ia. ....	—	12/01/78	X	A separate Laboratory Extension Division was established.
Kans. ....	06/79	07/01/79	—	—
Ky. ....	09/01/78	09/01/78	—	—
La. ....	03/01/79	03/01/79	—	—
Me. ....	07/01/78	07/01/78	—	—
Md. ....	07/02/79	01/12/79	—	—
Mass. ....	1979	03/15/77	—	—
Mich. ....	—	—	—	—
Minn. ....	05/78	—	—	—
Miss. ....	—	10/23/78	—	—
Mo. ....	07/01/78	08/15/79	X	The Bureau of Laboratory Services was changed to the Section of Laboratory Services. The 2 branch laboratories are now under the jurisdiction of the Section of Laboratory Services.
Mont. ....	07/01/79	07/01/79	X	The position of Administrator, Laboratory Division was abolished by legislative action.
Nebr. ....	09/01/76	01/01/78	—	—
Nev. ....	07/01/79	10/01/78	—	—
N.H. ....	06/13/73	06/13/73	—	—
N.J. ....	09/15/78	09/15/78	—	—
N.M. ....	06/30/79	09/30/79	X	The Cytopathology Section and Veterinary Diagnostic Services were established as elements of the Biological Sciences Bureau. A separate Fiscal Office was established 7/1/79.

Table 5-1  
I. LABORATORY ORGANIZATIONAL STRUCTURE -- Continued

Lab	Date of Current Organizational Chart		Did Organizational Structure Change During FY 1979	Description of Organizational Change
	State Health Department	State Laboratory		
N.Y. ....	—	—	—	—
N.C. ....	12/01/77	01/78	—	—
N.D. ....	—	—	—	—
Ohio ....	05/15/78	06/20/78	—	—
Okla. ....	09/78	09/78	—	—
Ore. ....	05/78	05/78	—	—
Pa. ....	—	—	X	Changes pending
P.R. ....	—	—	—	—
R.I. ....	09/01/76	09/25/75	—	—
S.C. ....	06/01/79	06/01/79	X	A new position, Deputy Chief, was created with responsibility for day-to-day administration of the laboratory
S.D. ....	—	—	—	—
Tenn. ....	02/08/79	10/20/78	X	Dr. Michael Kimberly became Director of the Division of Laboratories with Dr. J. Howard Barrick as Associate Director in charge of the branch laboratories and Ms. Mary Jane Sassaman as Assistant Director in charge of the Central laboratory.
Tex. ....	—	—	—	—
Utah ....	08/17/79	08/23/79	—	The Environmental Monitoring Section was established by combining the Environmental Chemistry and Environmental Microbiology Sections.
Vt. ....	—	—	—	—
Va. ....	05/28/78	07/01/78	—	—
V.I. ....	—	—	—	—
Wash. ....	11/79	11/78	X	A Family Planning Section was added to Community Health Services.
W. Va. ....	06/79	11/79	X	The Director, State Hygienic Laboratory now reports to the Director, Community Health Services instead of the State Director of Health.
Wisc. ....	07/01/79	07/01/79	X	The State Laboratory of Hygiene Board reorganized to show voting membership.
Wyo. ....	1970	1970	—	—



Table 5-2

PREMARITAL EXAMINATION LAWS

NOTE: Brief answers are given in the body of the chart. Longer explanations and exceptions or qualifications, while they exist, are given under indicated footnote headings.

STATES AND TERRITORIES	Effective Year of Latest Revision	Minimum Age Legal		Minimum Age With Consent		Certificate Required May Be From (b)	Valid Period in Days	Waiting Period Exceptions (c)	Conditions of Waiver (d)	Physical Exam. Required—Qualifications (e)	Kind of Serology Required—Qualifications (f)	Test for Other Disease (g)	Serology Accepted From Other Than State Approved Labs (h)	Provision for Free Test—Qualifications (i)	Provision for Free Physical Exam	Premarital Forms of Other States Accepted—Qualifications (j)	Test Results Filed With State Health Department—Qualifications (k)	STATES AND TERRITORIES
		M	F	M	F (a)													
Alabama	1975	21	18	17	14	(1)	30	None	(1-3)	Yes	(1)	(1,4)	(1-5)	Yes	Yes	Yes	(1)	Alabama
Alaska	1953	18	18(1)	16	16	(1-3)	30	3 days	(2,5)	Yes	(1)	(4)	(1,4,5a)	Yes	No	Yes(1)	Yes	Alaska
Arizona	1972	18	18	18	16	(1-2)	30	None	(6)	Yes	(1)	No	(1-5)	No	No	Yes(1)	Yes	Arizona
Arkansas	1953	18	18	18	16	(1-3)	30	3 days	(1,3)	Yes	(1)	No	(1-5)	No	No	Yes	Yes	Arkansas
California	1973	18	18		(11)	(1-3)	30	None	(2,5)	Yes	(1)	No	(1,5a,8-10)	No	No	Yes	No	California
Colorado	1979	18	18	16	16	(1)	No Limit	None	(2,6)	Yes(3)	(1,4-5)	(4,7)	(1-5)	Yes	No	Yes	No	Colorado
Connecticut	1980	18	18	16	16	(1-3,5)	35	4 Days	(6)	Yes(1-2)	(1)	(8)	(1,2a,3,4,5a)	Yes	No	Yes(1,3)	Yes(1)	Connecticut
Delaware	1947	18	18	18	16	(1-3)	30	1 day(2)	(2)	Yes	(1)	No	(1,3,6)	Yes	Yes	Yes(1)	Yes	Delaware
Dist. of Columbia	1966	21	18	18	16	(1-3,5)	30	5 days	(1-3,6)	Yes(1)	(1)	No	(1,2a,6,8)	Yes	Yes	Yes(1)	Yes(1)	Dist. of Columbia
Florida	1978	18	18	18	16	(1)	60	3 days	(1)	No	(1)	No	(1-5)	Yes	No	No	No	Florida
Georgia	1978	18	18	18	16	(1)	30	None(5)	(1)	No(2)	(1)	(9,10)	(1-5,13)	Yes	Yes	Yes(1)	No	Georgia
Guam	No Law	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Guam
Hawaii	1979	20	20	18	16	(1-3)	30	3 days	(2,6,10)	Yes	(1-2)	No	(1,4,5a)	No	No	Yes(1)	Yes	Hawaii
Idaho	1979	18	18	16	16	(1-3)	—	None(1)	(6)	Yes	None	(11)	(1-4)	Yes	No	Yes	Yes(2)	Idaho
Illinois	1949	18	18(10)	16	16	(1)	15	3 days	(1,7-8)	Yes	(1)	No	(1,3,4,6,9-10,12)	No	No	No	Yes(1)	Illinois
Indiana	1976	18	18	17	17(3)	(4)	30	3 days	(1,6)	No	(2)	(12)	(1,3,4)	No	No	No	Yes	Indiana
Iowa	1975	18	18	16	16	(1-3)	20	(2,4)	(1-2,6)	No	(1)	No	(1,3,4)	Yes	No	Yes(1)	Yes(1)	Iowa
Kansas	1947	18	18(4)	17	17(5)	(1-3,5)	30	(2,4)	None	Yes	(1)	(4)	(1-5)	Yes	Yes	Yes(1)	Yes	Kansas
Kentucky	1940	16	16	16	16	(2-4)	30	3 days	(1)	Yes	(1)	No	(1-5)	Yes	No	No	(1)	Kentucky
Louisiana	1975	18	18	17	16(6)	(4)	30	3 days	(6)	Yes	(3)	(4)	(7)	Yes	Yes	No	No	Louisiana
Maine	No Law	18	18	18	18	None	30	None	None	No	None	No	(1-4,6)	Yes	No	No	N/A	Maine
Maryland	No Law	21	18	18	16	—	—	2 days	—	—	—	—	—	—	—	—	—	Maryland
Massachusetts	1974	18	18		(11)	(1-3)	30	3 days	(1,3,8)	Yes	(1)	(7)	(1-4,6)	Yes	No	Yes(1)	No	Massachusetts
Michigan	1978	18	18	18	16	(1-3,5)	30	3 days	(6)	Yes	(1)	(3)	(1,3,4,6,8-10)	Yes	No	No	No	Michigan
Minnesota	No Law	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Minnesota
Mississippi	1957	21	21	17	15	(1-4)	30	3 days	(2,6)	Yes(1)	(1)	No	(1-5)	Yes	Yes	Yes(1)	Yes	Mississippi
Missouri	1955	18	18	15	15	(4)	15	3 days(4)	(1,3,7)	Yes(1)	(1)	No	(1-5)	Yes	No	Yes	Yes	Missouri
Montana	1973*	18	16	18	16	(1-3)	20	None	None	Yes	(1)	No	(1-5)	Yes	No	Yes(1)	Yes	Montana
Nebraska	1978	19	19	17	17	(1)	30	2 days	(1,3,7)	Yes	(1)	(8)	(1,3-5)	Yes	No	Yes(1,3)	Yes	Nebraska
Nevada	No Law	18	18	16	16	—	—	—	—	—	—	—	—	—	—	—	—	Nevada
New Hampshire	1979	18	18	14	13	(1)	30	5 days	(2)	Yes(1)	(1)	No	(1-4,5b,6,9-11)	Yes	No	Yes(1)	Yes	New Hampshire
New Jersey	1953	18	18	16	16(9)	(1-3,5)	30	3 days	(1,3)	No	(1)	No	(1-6)	Yes	No	Yes(4)	No	New Jersey
New Mexico	1979	21	18	18	16	(1-3,5)	30	None	(6)	Yes	(1)	(4)	(1-5)	Yes	No	Yes	Yes(1)	New Mexico
New York	1938	21	18	16	14	(1-3)	30	3 days	(6)	Yes	(1)	No	(1-5)	No	No	Yes(1)	Yes	New York
North Carolina	1979	18	18	16	16(7)	(1)	30	None	(1,4)	Yes	(1)	(4-6)	(3-5)	Yes	Yes	Yes(6)	Yes(1)	North Carolina
North Dakota	1971	18	18	16	16	(1)	30	None	(6)	Yes	(1)	(4)	(1-4)	No	No	No	No	North Dakota
Ohio	1972	18	18	18	16	(1)	30	5 days	(1)	No	(1)	No	(1-5,8)	Yes(1)	No	Yes(1)	Yes(1)	Ohio
Oklahoma	No Law	—	—	—	—	(4)	—	None	(2)	No	(1)	No	(1,2b,3-4)	Yes	No	No	Yes	Oklahoma
Oregon	1979	18	18	17	17	(1-3)	30	7 days	(7-8)	Yes	(3)	(4)	(1,2a,3-5)	Yes	Yes	Yes	Yes	Oregon
Pennsylvania	1975	18	18	16	16	(1-3,5)	30	3 days(4)	(5)	Yes	(1)	No	(1-6)	Yes	No	Yes(1)	Yes(3)	Pennsylvania
Puerto Rico		21	21**	18	16	(1-3)	10	None	(3)	Yes	(3)	(4)	(7)	Yes	Yes	No	No	Puerto Rico
Rhode Island	1975	18	18	18	16	(1-3,5)	40	None	None	Yes	(1)	(1,8)	(1,3,5)	Yes	Yes	Yes(6)	Yes	Rhode Island
South Carolina	No Law	—	—	—	—	—	—	1 day	—	—	—	—	—	—	—	—	—	South Carolina
South Dakota	1977	18	18	16	16	(1-3)	20	None	(1,5)	Yes(1)	(1)	No	(1,2a,5)	Yes	No	Yes	No	South Dakota
Tennessee	1950	18	18	16	14	(1)	30	None(1)	(1)	Yes	(1)	(1)	(1,3,4)	Yes	Yes	Yes(1)	Yes	Tennessee
Texas	1949	18	18	14	14	(1)	21	None	(2)	Yes	(1)	No	(1-5)	Yes	No	Yes(5)	Yes	Texas
Utah	1951	18	18	14	14	(1-3,5)	30	None	(2)	Yes	(1)	(1-2,4)	(1-5)	Yes	No	Yes(1)	Yes	Utah
Vermont	1951	21	18	18	16	(1-3,6)	30	5 days	(1,3)	No	(1)	No	(1-6)	Yes	No	Yes	Yes	Vermont
Virginia	1979	18	18	16	16	(1-3)	60	None	(9)	Yes(1)	(1)	No	(1-5)	No	No	No	Yes	Virginia
Virgin Islands	No Law	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Virgin Islands
Washington	No Law	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Washington
West Virginia	1939	18	18	18	16(8)	(4)	30	3 days	(2)	Yes	(1)	No	(1-4,8)	Yes	No	No	Yes(1)	West Virginia
Wisconsin	1960	18	18	16	16	(1-3,5)	20	5 days	(5-6)	Yes	(1)	(4)	(5-6)	Yes	No	Yes(2)	No(4)	Wisconsin
Wyoming	1947	19	19	16	16	(1-3)	30	None	(1,3)	Yes	(1)	(3)	(1-5)	Yes	No	No	Yes	Wyoming

\*Includes unlicensed marriages \*\*Special provisions for minors

(a) MINIMUM AGE:  
 (1) Legal hearing before judge in (14-16) & (14-15)  
 (2) With Consent—(under 16 with court order)  
 (3) With Consent—(15 for pregnant female or mother with court order)  
 (4) Legal—Under 17 requires consent of both parents for hours counseling, consent of probate judge  
 (5) With Consent—(Consent of 1 parent)  
 (6) With Consent—(Consent of parents & district court judge)  
 (7) With Consent—(female more than 12 years of age who is pregnant or has given birth)  
 (8) With Consent—(Must be waived by judge if girl is pregnant)  
 (9) With Consent—Under 18 parental consent Under 16 parental consent and judicial approval of that consent  
 (10) In Cook County  
 (11) With Consent—Subject to judicial review if under 18

(b) CERTIFICATES REQUIRED FROM:  
 (1) Any licensed physician  
 (2) Medical officers of the Armed Forces  
 (3) Medical officers of the Public Health Service  
 (4) State licensed physician only  
 (5) Any licensed physician  
 (6) State licensed physician  
 (7) Makes no certificate required, females over age 45, no certificate required, and females under age 45, no certificate required if incapable of bearing children because of previous surgery or other physical conditions, but must have signed statement from physician stating the condition.

(c) EXCEPTIONS:  
 (1) If not of age 3 days  
 (2) Non residents—4 days  
 (3) If under 21, 3 days  
 (4) Unusual condition as to make marriage advisable  
 (5) None of both are 18 or over 3 days if female 16 or 17

(d) CONDITIONS OF WAIVER:  
 (1) Pregnancy or to legitimize a child  
 (2) Emergency declared by State Board of Health or a judge  
 (3) Impending death  
 (4) Licensed refused despite communicability with signed approval to take or continue treatment  
 (5) Religious objections  
 (6) Court case as defined by a judge  
 (7) No danger to either party  
 (8) Infected applicants must take treatment  
 (9) Only in pregnancy of minor  
 (10) Rubella section—(1) physician documents the criteria for the waiver

(e) QUALIFICATIONS:  
 (1) If serology is positive or doubtful  
 (2) Physician must sign statement that he has counseled female regarding her immunity against Rubella  
 (3) Makes—No physical examination required, females over age 45, no physical examination required and no physical examination required for females under age 45, incapable of bearing children because of prior surgery or other physical conditions, but must have a signed statement by physician stating the condition.

(f) KIND OF SEROLOGY REQUIRED:  
 (1) Serological test for syphilis listed in PHS Publication #11 (1969) or later version may be used  
 (2) Serological test for syphilis listed in PHS Publication #11 (1969) or later version may be used, also test for immaturity against rubella  
 (3) Physical test—Must certify applicant free of VD  
 (4) Makes—No blood test required, females over age 45, no blood test required and females under age 45, incapable of bearing children because of prior surgery or other physical conditions, no blood test required, but must have signed statement from physician stating the condition  
 (5) Under age 45 capable of child bearing. A physician licensed to practice medicine shall obtain blood samples from the female applicant and cause serological tests to be made for rubella immunity and Rh type by serological methods specified by the Department of Health and he shall provide the blood his certificate stating that such tests have been made and inform her of the results of such tests and their medical significance.

(g) TESTS FOR OTHER DISEASE:  
 (1) Physical inspection for gonorrhea  
 (2) Microscopic test for gonorrhea  
 (3) Must be certified free from pneumonia and chancroid also  
 (4) Must be certified free from all venereal diseases  
 (5) Tuberculosis  
 (6) Mental competence  
 (7) Rubella titer and blood group in females under 55  
 (8) Tests for Rubella in females under age 50 and capable of bearing children  
 (9) Seric cell test must be offered and counseling provided to all applicants  
 (10) Rubella test on all females capable of pregnancy  
 (11) Rubella test for female applicants  
 (12) VDRL, RPR, or ART, syphilis cell test if physician deems it necessary

(h) SEROLOGY ACCEPTED FROM OTHER THAN STATE APPROVED LABORATORIES:  
 (1) Department of Health Laboratories of other States  
 (2) Branch laboratories of other State Health Departments  
 (3) If State has comparable premarital blood test law  
 a. City of Kansas, Missouri, Arkansas, Texas  
 (4) Laboratories of the Armed Forces  
 (5) Public Health Service Laboratories  
 (6) Laboratories approved by other State Health Departments  
 a. If State has comparable premarital blood test law  
 b. Provided respective State Department of Health, or Bureau of Laboratories (Division) certifies that such laboratory is currently an official approved lab  
 (7) New York City and District of Columbia  
 (8) Serology is not State required  
 (9) District of Columbia  
 (10) Laboratories of U.S. Territorial Health Departments  
 (11) Laboratories of Official Provincial Health Departments of Canada  
 (12) Laboratories of U.S. Veterans Administration Medical Center  
 (13) Baltimore, Maryland Health Department  
 (14) Provided documentation forwarded that syphilis cell test and rubella test requirements met

(i) QUALIFICATIONS:  
 (1) Yes, for Armed Forces and gets temporary non-residents only

(j) QUALIFICATIONS:  
 (1) If other State has comparable premarital law  
 (2) If working in nearby Wisconsin certificate  
 (3) Premarital reports of other states will be accepted only if the other state has a comparable premarital law on test for rubella  
 (4) If laboratory is State approved and if form is signed by physician and applicant  
 (5) If form is from other State laboratories or other State approved laboratories (not physician laboratories form)  
 (6) If positive test performed by State laboratory  
 (7) If positive must have State Board of Health disapproval

(k) QUALIFICATIONS:  
 (1) If positive  
 (2) If laboratory is not operated by State Board of Health

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