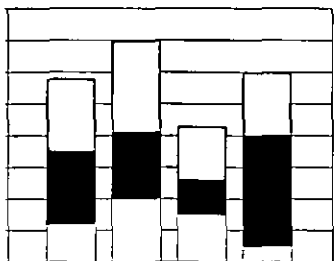
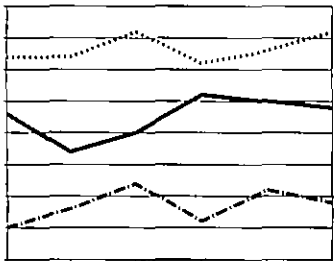
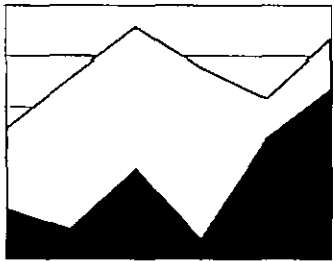
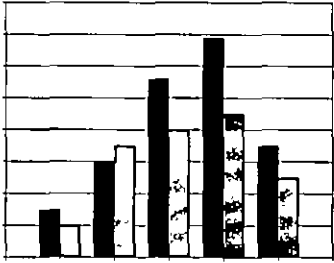
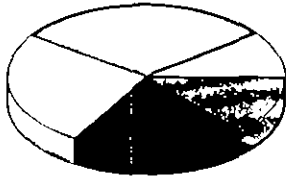


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CONSOLIDATED ANNUAL REPORT

on State
and Territorial
Public Health Laboratories

Fiscal Year 1991



Association of State and Territorial
Public Health Laboratory Directors

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Fiscal Year 1991

January 1994

**Association of State and Territorial
Public Health Laboratory Directors**



This publication is based on data voluntarily submitted to ASTPHLD by the nation's state and territorial public health laboratories. These data were processed, analyzed, and published by ASTPHLD Cooperative Agreement No. U60/CCU303019 with the Centers for Disease Control and Prevention. The content of this publication does not necessarily reflect the views or policies of the Department of Health and Human Services.

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INTRODUCTION

This, the twenty-seventh edition of the Consolidated Annual Report (CAR), provides quantitative information about laboratory personnel and services identified in 15 workload areas. In addition to tabular displays, this year's CAR also includes graphic displays. The information for the tables was provided by the Association of State and Territorial Public Health Laboratory Directors (ASTPHLD), consisting of the public health laboratories in each of the 50 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 Centers for Disease Control and Prevention, State and Territorial Health Officials and the Public Health Laboratory Directors.

Fifty-one of the 54 member laboratories provided data for this edition. The laboratories in New York, Guam and Puerto Rico did not report to the CAR for fiscal year 1991. National totals found in this edition, therefore, represent only 51 state and territorial public health laboratories.

The CAR deals with the personnel and workload activities of ASTPHLD. It omits those public health laboratory services provided by other state/territorial/local agencies. Therefore, this report understates the additional resources expended on public health laboratory services in nearly every state/territory having local health departments. If some type of activity is not reporting 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 subcategory or a material which is divided into aliquots for testing in multiple categories or subcategories and is counted as one specimen for each category or subcategory in the 15 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.

The questionnaire for the FY 1991 CAR was composed of two sections: personnel and workload reporting. 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 full-time equivalent (FTE) 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.

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SUMMARY

FIGURE 1

Number of State Public Health Laboratory Professional and Technical Personnel, by Category -- 1991

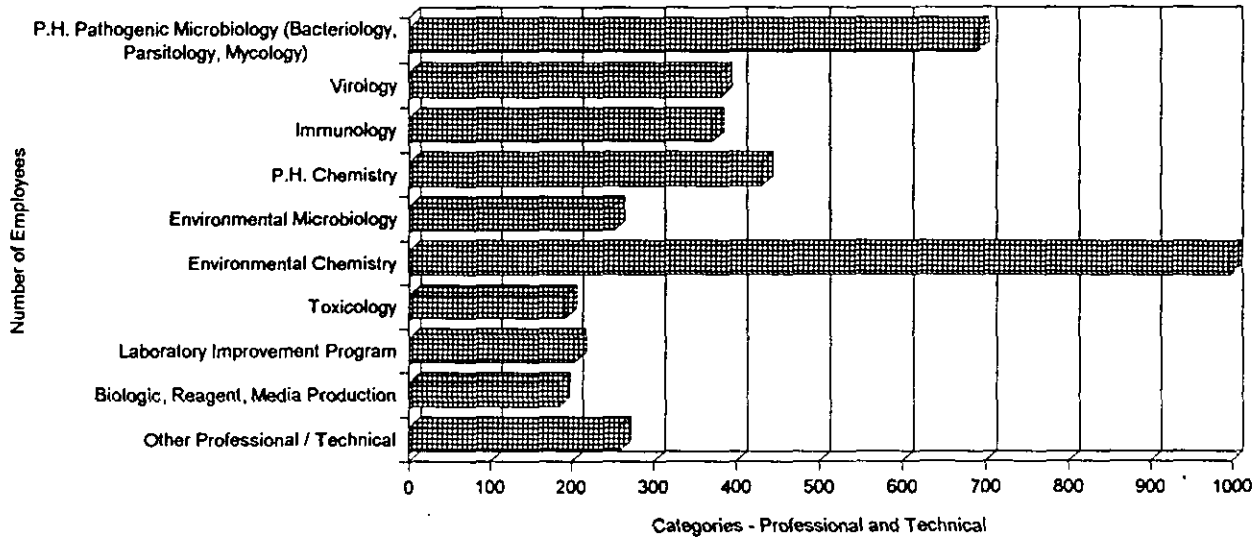


FIGURE 2

% Distribution of State Public Health Laboratory Professional and Technical Personnel, by Category -- 1991

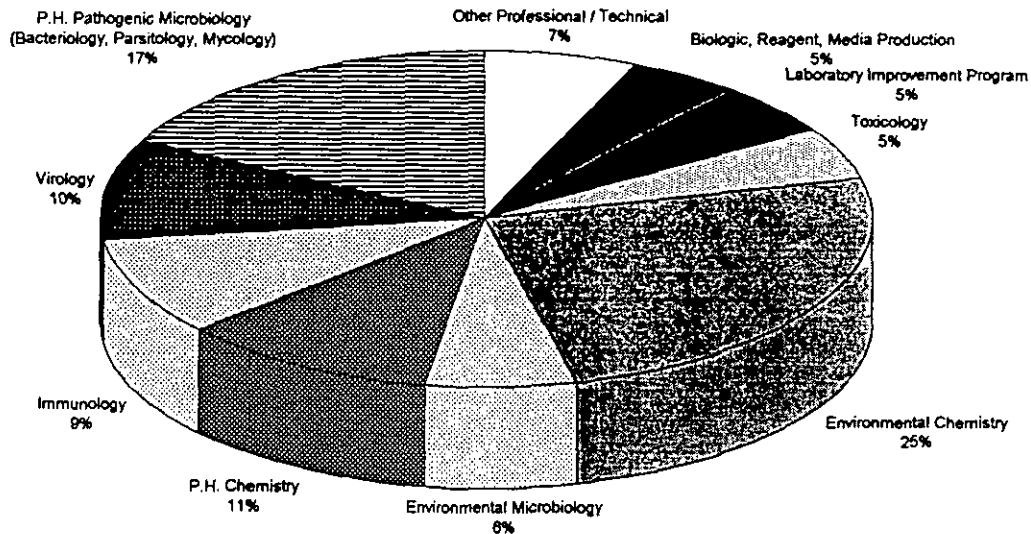


FIGURE 3

Number of State Public Health Laboratory Professional and Technical Personnel, by Category -- 1987 to 1991

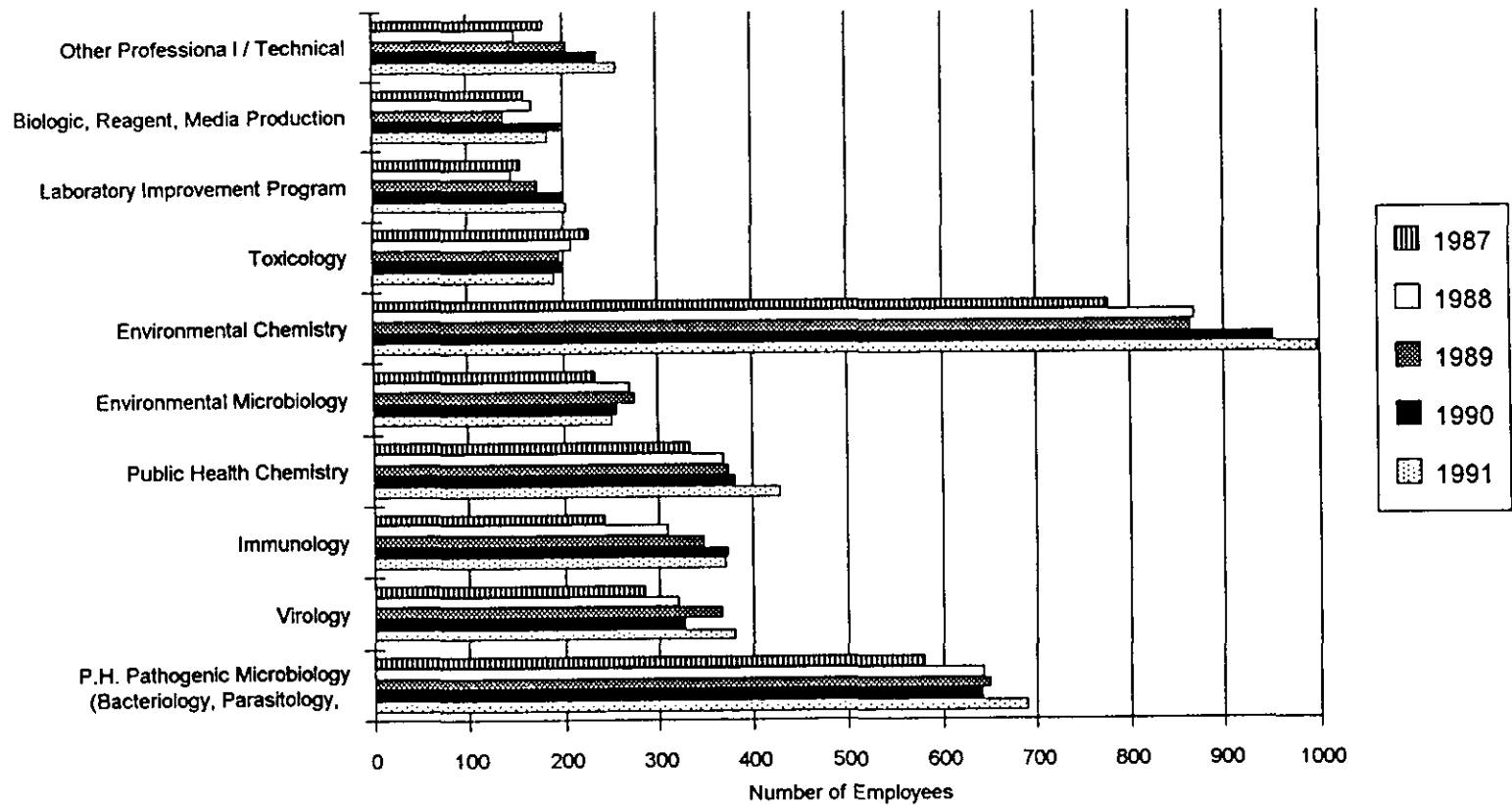


FIGURE 4

Number of Budgeted Positions in State Public Health Laboratories, by Category -- 1987 to 1991

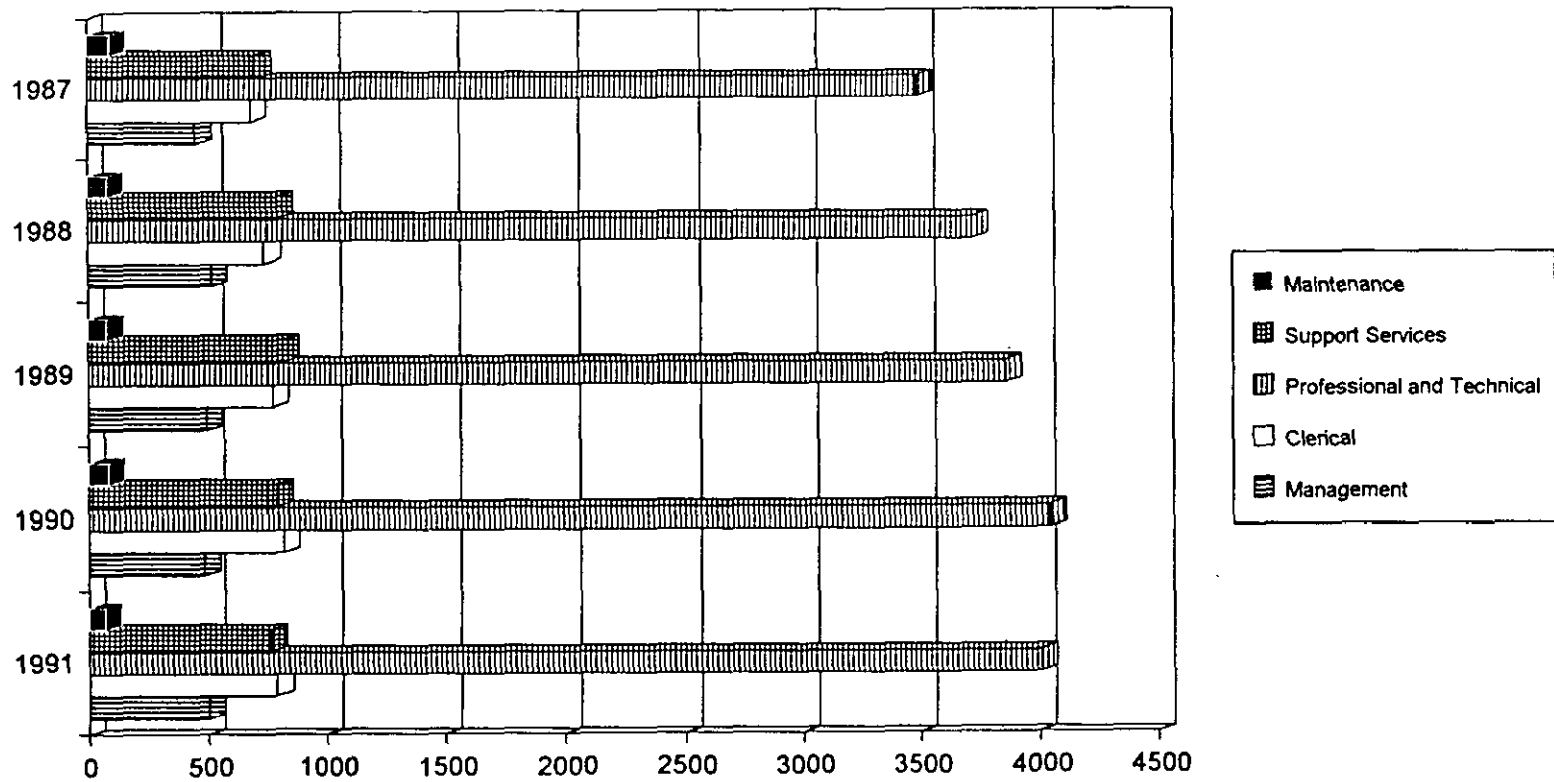


FIGURE 5

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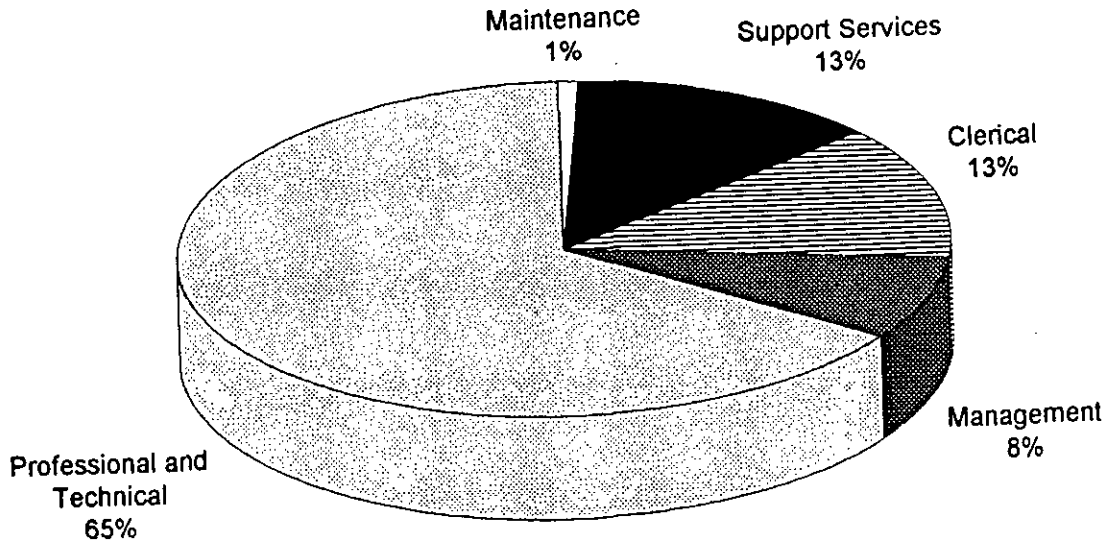


FIGURE 6

Total State Public Health Laboratory Specimens Tested, by Category -- 1991

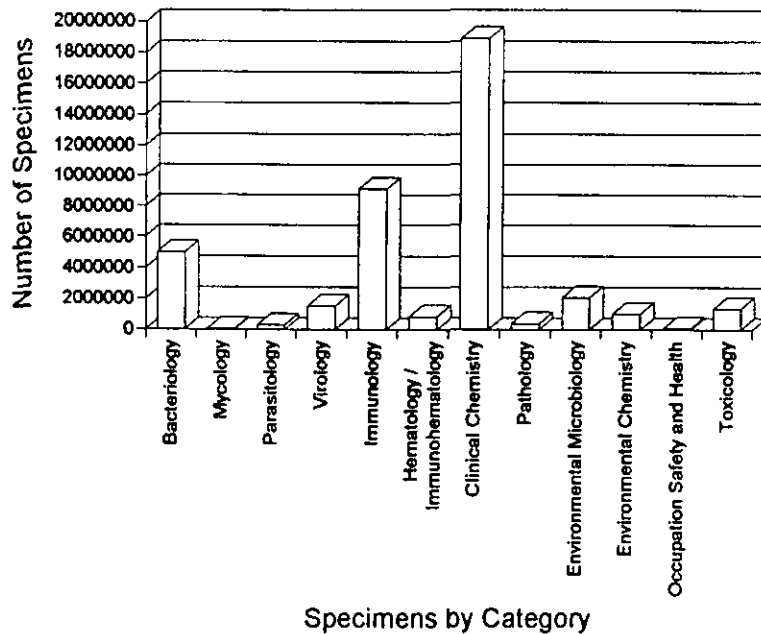


FIGURE 7

State Public Health Laboratory Specimens
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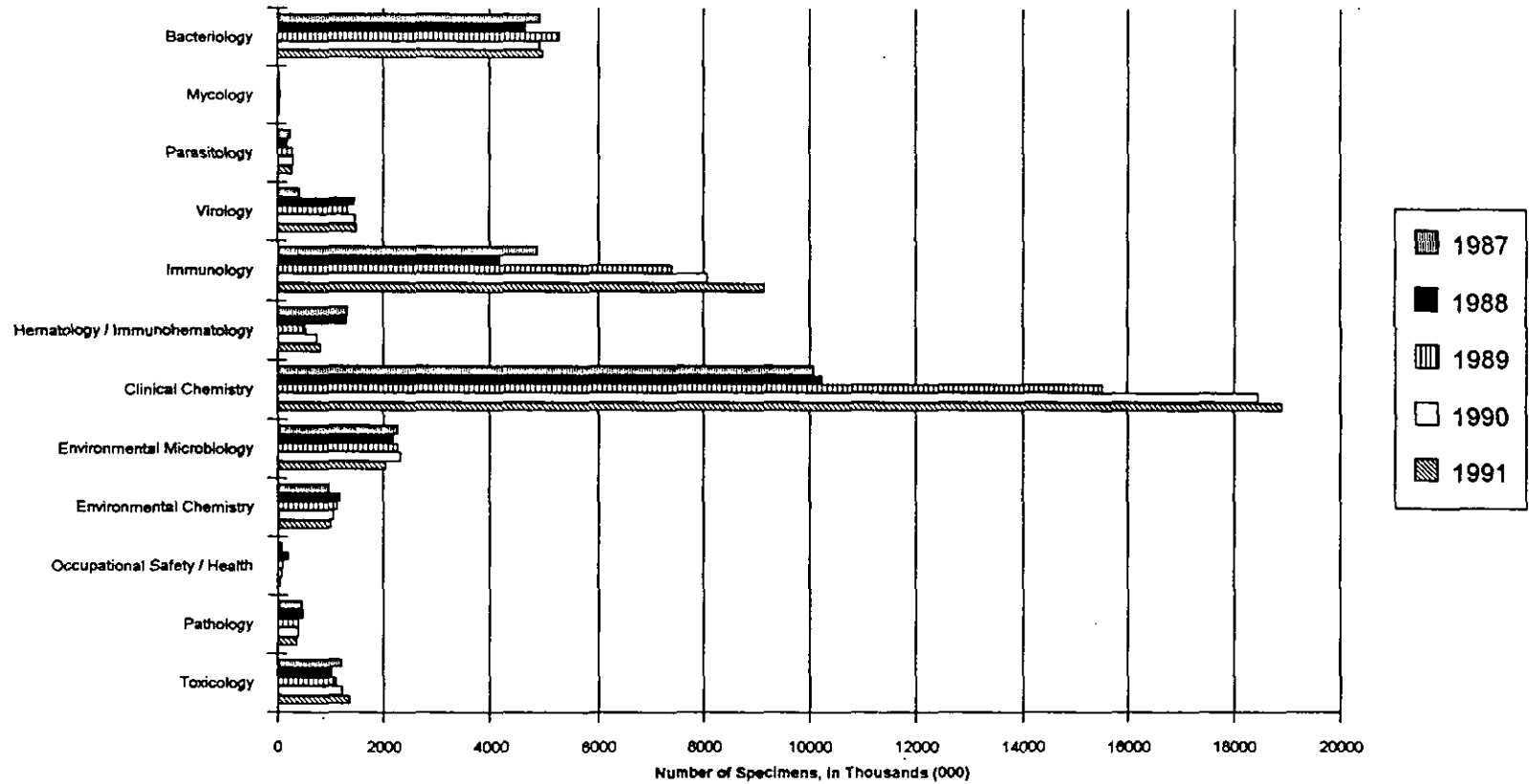


FIGURE 8

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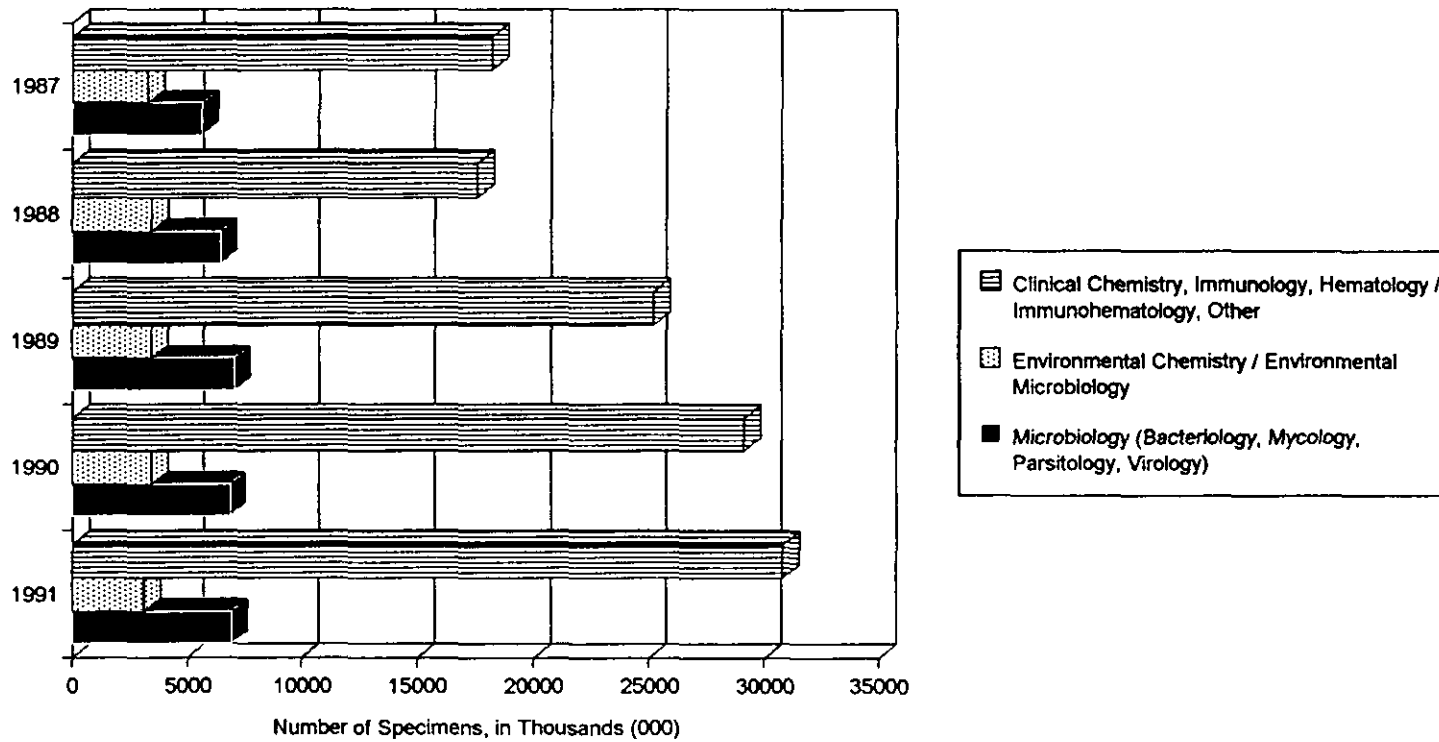


FIGURE 9

Percentage Distribution of State Public Health Laboratory Personnel and Technical Personnel and Specimens / Samples Tested by Selected Category, Fiscal Year 1991

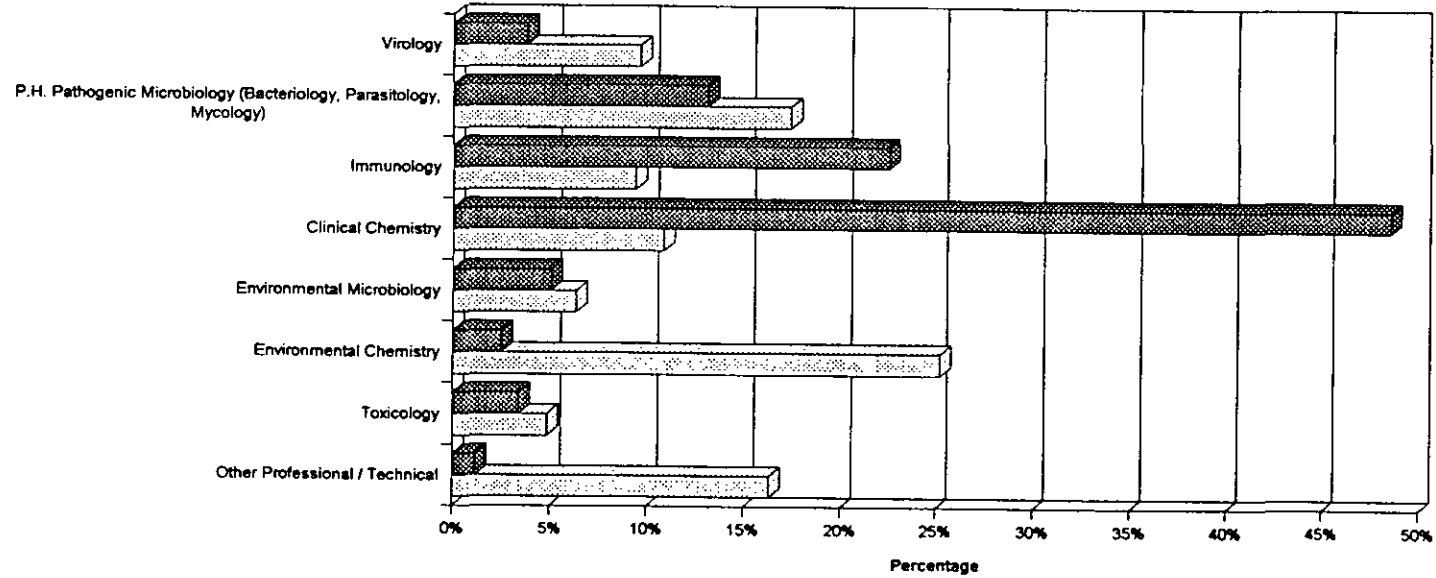


TABLE 1: NUMBER OF SPECIMENS, BY REPORTING CATEGORY

Lab & Region	Total Number of Specimens	Bacteriology		Mycology		Parasitology	
		Number	Percent	Number	Percent	Number	Percent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
No. of States Reporting		47		43		49	
TOTAL	40,781,729	4,989,164	12.00	65,616	0.16	298,157	0.73
AVERAGE	789,642	97,827		1,526		6,065	
NEW ENGLAND	2,291,691	189,609	8.27	4,579	0.20	11,862	0.52
Connecticut	464,402	34,841	7.46	1,713	0.37	1,525	0.33
Massachusetts	1,310,690	63,261	4.83	241	0.02	31	0.00
Maine	115,672	12,026	10.40	1,370	1.18	0	0.00
New Hampshire	51,880	9,021	17.39	573	1.10	41	0.08
Rhode Island	280,258	57,311	20.45	321	0.11	5,978	2.13
Vermont	68,789	13,349	19.41	361	0.52	4,317	6.26
MIDDLE ATLANTIC	1,110,841	162,632	14.64	5	0.00	974	0.09
New Jersey	567,061	152,964	26.97	5	0.00	886	0.16
New York*	NA						
Pennsylvania	543,780	9,668	1.78	0	0.00	88	0.02
EAST NORTH CENTRAL	6,048,981	166,448	2.75	9,473	0.16	19,868	0.33
Illinois	1,624,182	64,676	3.98	803	0.05	2,462	0.15
Indiana	189,513	6,869	4.05	397	0.23	1,912	1.13
Michigan	1,705,095	40,580	2.38	2,116	0.12	8,130	0.48
Ohio	1,223,477	23,570	1.93	705	0.06	688	0.06
Wisconsin	1,326,714	30,753	2.32	5,452	0.41	6,678	0.50
WEST NORTH CENTRAL	2,863,042	298,844	10.43	3,985	0.14	21,260	0.74
Iowa	736,448	85,012	11.54	2,186	0.30	6,357	0.86
Kansas	297,718	35,284	11.85	985	0.33	6,261	2.10
Minnesota	511,735	77,073	15.06	414	0.08	2,642	0.52
Missouri	1,023,345	69,293	6.77	171	0.02	3,814	0.37
Nebraska	90,629	8,818	9.73	0	0.00	37	0.04
North Dakota	94,064	6,394	6.80	182	0.19	671	0.71
South Dakota	109,073	16,770	15.38	47	0.04	1,478	1.36
SOUTH ATLANTIC	10,662,603	1,653,347	15.51	13,033	0.12	105,027	0.99
Delaware	137,576	35,612	25.89	187	0.14	0	0.00
District of Columbia	389,743	48,331	12.40	0	0.00	0	0.00
Florida	2,519,310	599,118	23.78	1,185	0.05	54,887	2.18
Georgia	1,107,914	245,130	22.13	620	0.06	19,268	1.74
Maryland	3,503,039	423,365	12.09	5,155	0.15	17,363	0.50
North Carolina	1,225,943	22,204	1.81	1,360	0.11	3,044	0.25
South Carolina	849,470	74,964	11.55	1,156	0.18	3,306	0.51
Virginia	784,790	144,203	18.37	2,811	0.36	5,674	0.72
West Virginia	344,818	60,390	17.51	559	0.16	1,485	0.43
EAST SOUTH CENTRAL	3,100,122	776,393	25.04	7,849	0.25	16,377	0.53
Alabama	1,080,855	254,376	23.53	4,548	0.42	5,183	0.48
Kentucky	422,357	14,350	3.40	0	0.00	2,369	0.56
Mississippi	860,720	228,907	26.59	1,518	0.18	5,038	0.59
Tennessee	736,190	278,760	37.87	1,783	0.24	3,787	0.51
WEST SOUTH CENTRAL	7,144,274	801,645	11.22	5,424	0.08	10,470	0.15
Arkansas	491,033	94,840	19.31	1,988	0.40	1,121	0.23
Louisiana	954,571	155,785	16.32	0	0.00	5,905	0.62
Oklahoma	388,701	67,425	16.91	1,304	0.33	1,259	0.32
Texas	5,299,989	483,595	9.12	2,132	0.04	2,185	0.04
MOUNTAIN	2,991,814	219,106	7.32	1,664	0.06	10,800	0.36
Arizona	140,847	31,502	22.37	362	0.26	232	0.16
Colorado	1,737,083	14,404	0.83	64	0.00	2,395	0.14
Idaho	123,270	41,600	33.75	302	0.24	1,500	1.22
Montana	182,140	7,772	4.27	257	0.14	1,429	0.78
Nevada	92,965	27,809	29.91	38	0.04	2,032	2.19
New Mexico	289,045	27,780	9.60	450	0.16	2,801	0.97
Utah	313,718	7,549	2.41	120	0.04	322	0.10
Wyoming	112,746	60,710	53.85	71	0.06	89	0.08
PACIFIC	4,150,650	717,474	17.29	19,604	0.47	90,287	2.18
Alaska	123,480	59,460	48.15	217	0.18	3,376	2.73
California	3,001,663	539,063	17.96	19,139	0.64	81,299	2.71
Hawaii	221,705	71,813	32.39	246	0.11	164	0.07
Oregon	424,444	7,435	1.75	0	0.00	2,759	0.65
Washington	379,358	39,683	10.46	0	0.00	2,719	0.72
TERRITORIES	417,711	3,866	0.93	0	0.00	11,202	2.68
Guam *							
Puerto Rico*							
Virgin Islands	417,711	3,866	0.93	0	0.00	11,202	2.68

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 1: NUMBER OF SPECIMENS, BY REPORTING CATEGORY

Lab & Region (1)	Virology		Immunology		Hematology/ Immunohematology		Clinical Chemistry	
	Number (9)	Percent (10)	Number (11)	Percent (12)	Number (13)	Percent (14)	Number (15)	Percent (16)
No. of States Reporting	49		47		23		31	
TOTAL	1,529,491	3.75	9,170,232	22.49	646,998	2.08	18,941,713	46.45
AVERAGE	31,214		187,148		36,826			
NEW ENGLAND	86,046	3.75	320,915	14.00	3,354	0.15	867,539	37.66
Connecticut	8,492	1.83	114,129	24.58	3,354	0.72	150,565	32.42
Massachusetts	47,195	3.60	100,987	7.70	0	0.00	667,931	50.98
Maine	16,306	15.63	21,705	18.76	0	0.00	17,148	14.82
New Hampshire	6,389	12.31	16,186	31.20	0	0.00	0	0.00
Rhode Island	309	0.11	55,237	19.71	0	0.00	31,895	11.38
Vermont	5,355	7.78	12,669	18.42	0	0.00	0	0.00
MIDDLE ATLANTIC	12,304	1.11	321,120	28.91	20	0.00	575,842	51.84
New Jersey	9,515	1.68	238,938	42.14	0	0.00	132,191	23.31
New York*			0					
Pennsylvania	2,789	0.51	82,182	15.11	20	0.00	443,651	61.59
EAST NORTH CENTRAL	168,429	2.78	867,357	14.34	11,485	0.19	4,048,882	66.93
Illinois	12,967	0.80	108,492	6.56	0	0.00	1,350,486	83.15
Indiana	15,595	9.20	30,146	17.78	0	0.00	0	0.00
Michigan	11,276	0.66	330,050	19.36	0	0.00	1,095,623	64.27
Ohio	42,199	3.45	68,162	5.57	0	0.00	1,002,645	61.95
Wisconsin	86,392	6.51	332,507	25.06	11,485	0.87	599,928	45.22
WEST NORTH CENTRAL	167,758	5.86	496,530	17.34	12,615	0.44	1,340,790	46.83
Iowa	36,473	4.95	110,755	15.04	0	0.00	397,301	53.95
Kansas	30,952	10.40	112,048	37.64	0	0.00	52,000	17.47
Minnesota	12,835	2.51	34,413	6.72	0	0.00	271,527	53.08
Missouri	35,073	3.43	201,319	19.67	9,775	0.96	575,240	56.21
Nebraska	13,837	15.27	15,307	18.89	0	0.00	12,025	13.27
North Dakota	15,797	16.79	8,546	9.08	0	0.00	17,879	19.00
South Dakota	22,791	20.90	14,142	12.97	2,840	2.60	14,818	13.59
SOUTH ATLANTIC	400,864	3.76	3,107,351	29.14	339,221	3.18	3,616,042	33.91
Delaware	20,882	15.03	46,976	34.15	3,990	2.90	5,174	3.76
District of Columbia	15,036	3.66	131,107	33.64	52,796	13.55	66,123	18.97
Florida	100,864	4.00	866,775	34.41	54,045	2.15	499,834	19.84
Georgia	5,938	0.54	549,358	49.58	15,475	1.40	272,069	24.56
Maryland	74,296	2.12	591,268	18.88	140,909	4.02	1,777,839	50.75
North Carolina	59,515	4.85	330,570	26.98	23,804	1.94	528,142	43.08
South Carolina	30,324	4.67	228,328	35.16	30,393	4.68	227,506	35.03
Virginia	63,537	11.62	294,587	37.54	17,809	2.27	132,421	16.87
West Virginia	672	0.19	68,382	19.83	0	0.00	106,934	31.01
EAST SOUTH CENTRAL	75,908	2.45	903,513	29.14	82,287	2.65	969,652	32.25
Alabama	31,052	2.87	277,233	25.65	23,455	2.17	409,114	37.85
Kentucky	18,928	4.48	59,672	14.13	8,638	2.05	288,603	68.33
Mississippi	11,318	1.31	347,006	40.32	50,174	5.83	136,811	15.89
Tennessee	14,610	1.98	219,602	29.83	0	0.00	165,124	22.43
WEST SOUTH CENTRAL	69,456	1.25	1,403,113	19.64	90,580	1.27	4,331,842	60.63
Arkansas	1,156	0.24	148,949	30.33	8,722	1.78	139,350	26.38
Louisiana	1,348	0.14	355,804	37.27	11,451	1.20	168,829	17.69
Oklahoma	5,018	1.26	120,119	30.13	6,265	1.57	182,314	45.73
Texas	61,934	1.55	778,241	14.66	64,122	1.21	3,841,349	72.48
MOUNTAIN	125,881	4.21	504,498	16.86	434	0.01	1,642,364	54.90
Arizona	19,391	13.77	79,389	56.37	0	0.00	0	0.00
Colorado	14,439	0.83	189,583	10.91	0	0.00	1,276,131	73.46
Idaho	11,135	9.03	21,438	17.39	0	0.00	224	0.18
Montana	27,858	15.29	37,676	20.69	0	0.00	48,180	26.45
Nevada	18,191	19.57	28,228	28.21	0	0.00	419	0.45
New Mexico	17,558	6.07	68,283	23.62	0	0.00	113,331	39.21
Utah	9,628	3.13	62,121	19.80	0	0.00	204,079	65.05
Wyoming	7,481	6.64	19,782	17.55	434	0.38	0	0.00
PACIFIC	400,817	9.66	1,223,754	29.48	222,040	5.35	1,237,898	29.82
Alaska	7,883	6.38	40,410	32.73	0	0.00	12,000	9.72
California	252,891	6.43	875,874	29.18	222,040	7.40	896,000	29.85
Hawaii	17,875	8.06	37,441	16.89	0	0.00	0	0.00
Oregon	57,373	13.52	157,877	37.20	0	0.00	190,592	44.90
Washington	64,795	17.08	112,152	29.56	0	0.00	139,308	36.72
TERRITORIES	2,028	0.49	22,081	5.29	85,000	20.35	280,862	67.24
Guam*			0					
Puerto Rico*			0					
Virgin Islands	2,028	0.49	22,081	0.00	85,000		280,862	0.00

TABLE 1: NUMBER OF SPECIMENS, BY REPORTING CATEGORY

Lab & Region	Pathology		Environmental Microbiology		Environmental Chemistry	
	Number	Percent	Number	Percent	Number	Percent
(1)	(17)	(18)	(19)	(20)	(21)	(22)
No. of States Reporting	8		47		40	
TOTAL	398,946	0.99	2,086,411	5.07	1,023,574	2.51
AVERAGE	49,868		43,050		24,371	
NEW ENGLAND	0	0.00	80,054	3.49	127,168	5.55
Connecticut	0	0.00	18,472	3.98	32,215	6.94
Massachusetts	0	0.00	10,281	0.78	8	0.00
Maine	0	0.00	15,797	13.66	20,478	17.70
New Hampshire	0	0.00	954	1.84	0	0.00
Rhode Island	0	0.00	12,479	4.45	68,384	24.40
Vermont	0	0.00	22,071	32.09	6,083	8.84
MIDDLE ATLANTIC	0	0.00	6,514	0.59	4,460	0.40
New Jersey	0	0.00	6,286	1.11	4,435	0.78
New York*	0	0.00	0		0	
Pennsylvania	0	0.00	228	0.04	25	0.00
EAST NORTH CENTRAL	94,229	0.23	370,319	6.12	115,118	1.90
Illinois	0	0.00	43,591	2.68	20,050	1.23
Indiana	0	0.00	87,622	51.69	21,426	12.64
Michigan	0	0.00	105,340	6.18	52,071	3.05
Ohio	0	0.00	50,105	4.10	11,385	0.93
Wisconsin	94,229	0.81	83,661	6.31	10,174	0.77
WEST NORTH CENTRAL	0	0.00	352,039	12.30	135,529	4.73
Iowa	0	0.00	35,497	4.82	54,698	
Kansas	0	0.00	44,976	15.11	14,874	5.00
Minnesota	0	0.00	90,925	17.77	21,385	4.18
Missouri	0	0.00	115,100	11.25	13,580	1.33
Nebraska	0	0.00	24,854	27.42	13,714	15.13
North Dakota	0	0.00	21,213	22.54	8,312	8.83
South Dakota	0	0.00	19,474	17.85	8,966	8.24
SOUTH ATLANTIC	286,745	0.71	578,780	5.44	331,148	3.11
Delaware	0	0.00	13,973	10.16	5,047	3.67
District of Columbia	12,519	0.00	69	0.02	304	0.08
Florida	0	0.00	309,101	12.27	32,307	1.28
Georgia	0	0.00	56	0.01	0	0.00
Maryland	54,239	0.13	136,929	3.91	198,502	5.67
North Carolina	149,560	0.37	47,581	3.88	30,142	2.46
South Carolina	8,267	0.00	11,283	1.74	0	0.00
Virginia	0	0.00	17,698	2.28	63,700	8.12
West Virginia	62,160	0.15	43,090	12.50	1,146	0.33
EAST SOUTH CENTRAL	0	0.00	202,851	6.54	23,958	0.77
Alabama	0	0.00	74,613	6.90	1,281	0.12
Kentucky	0	0.00	9,648	2.28	9,145	2.17
Mississippi	0	0.00	73,939	8.59	6,009	0.70
Tennessee	0	0.00	44,651	6.07	7,523	1.02
WEST SOUTH CENTRAL	0	0.00	210,012	2.94	66,818	0.94
Arkansas	0	0.00	79,781	16.25	4,739	0.97
Louisiana	0	0.00	109,522	11.47	27,011	2.83
Oklahoma	0	0.00	3,446	0.86	10,543	2.64
Texas	0	0.00	17,263	0.33	24,525	0.46
MOUNTAIN	17,972	0.04	122,796	4.10	115,474	3.86
Arizona	0	0.00	6,431	4.57	3,489	2.48
Colorado	0	0.00	20,259	1.17	20,878	1.19
Idaho	608	0.00	35,808	29.05	10,655	8.64
Montana	0	0.00	16,478	9.05	42,140	23.14
Nevada	0	0.00	13,630	14.66	4,620	4.97
New Mexico	17,364	0.04	12,934	4.47	16,731	5.79
Utah	0	0.00	6,530	2.08	17,161	5.47
Wyoming	0	0.00	10,726	9.51	0	0.00
PACIFIC	0	0.00	129,374	3.12	103,903	2.50
Alaska	0	0.00	134	0.11	0	0.00
California	0	0.00	89,916	3.00	20,029	0.67
Hawaii	0	0.00	19,338	10.63	74,749	33.72
Oregon	0	0.00	8,408	1.96	0	0.00
Washington	0	0.00	11,578	3.05	9,125	2.41
TERRITORIES	0	0.00	12,672	10.96	0	
Guam *		0.00			0	
Puerto Rico*		0.00			0	
Virgin Islands	0	0.00	12,672	10.96	0	0.00

TABLE 1: NUMBER OF SPECIMENS, BY REPORTING CATEGORY

Lab & Region	Occupational Safety and Health				Toxicology			
	Total	Biological	Environmental	Percent	Total	Biological	Physical	Percent
(1)	(23)			(24)	(25)			(26)
No. of States Reporting	23				33			
TOTAL	74,746	4,527	70,219	0.18	1,376,683	1,280,178	96,505	3.38
AVERAGE	3,250				41,718			
NEW ENGLAND	7,833	3,523	4,310	0.34	592,702	523,832	68,870	25.86
Connecticut	5,138	1546	3,590	1.11	94,160	70,374	23,786	20.28
Massachusetts	540	0	540	0.04	420,215	385,475	34,740	32.06
Maine	77	0	77	0.07	8,765	8,402	363	7.58
New Hampshire	2,080	1977	103	4.01	18,634	18,271	363	32.06
Rhode Island	0	0	0	0.00	48,344	38,797	9,547	17.25
Vermont	0	0	0	0.00	4,584	4,513	71	6.66
MIDDLE ATLANTIC	915	142	773	0.08	26,055	25,944	111	2.35
New Jersey	879	108	773	0.16	20,962	20,856	106	3.70
New York*			0		0	0	0	
Pennsylvania	36	36	0	0.01	5,093	5,088	5	0.94
EAST NORTH CENTRAL	38,174	372	37,802	0.63	139,201	137,284	1,917	2.30
Illinois	1,525	0	1,525	0.09	21,130	20,126	1,004	1.30
Indiana	2,370	0	2,370	1.40	3,176	3,087	89	1.87
Michigan	0	0	0	0.00	59,709	59,242	467	3.50
Ohio	3,259	222	3,037	0.27	20,749	20,645	104	1.70
Wisconsin	31,020	150	30,870	2.34	34,437	34,184	253	2.60
WEST NORTH CENTRAL	9,265	0	9,265	0.32	24,627	15,100	9,527	0.66
Iowa	8,039	0	8,039	1.09	130	69	41	0.02
Kansas	337	0	337	0.11	1	0	1	0.00
Minnesota	521	0	521	0.10	0	0	0	0.00
Missouri	0	0	0	0.00	0	0	0	0.00
Nebraska	368	0	368	0.41	1,669	1,650	19	1.84
North Dakota	0	0	0	0.00	15,100	6,991	8,109	16.05
South Dakota	0	0	0	0.00	7,727	6,370	1,357	7.08
SOUTH ATLANTIC	12,473	100	12,373	0.12	217,572	203,069	14,503	2.04
Delaware	0	0	0	0.00	5,935	5,935	0	4.31
District of Columbia	0	0	0	0.00	63,458	63,185	273	16.28
Florida	1,194	0	1,194	0.05	0	0	0	0.00
Georgia	0	0	0	0.00	0	0	0	0.00
Maryland	7,091	0	7,091	0.20	76,063	64,981	11,102	2.17
North Carolina	192	0	192	0.02	29,829	29,471	358	2.43
South Carolina	2,898	0	2,898	0.45	31,017	29,897	1,120	4.78
Virginia	1,100	100	1,000	0.14	11,250	9,600	1,650	1.43
West Virginia	0	0	0	0.00	0	0	0	0.00
EAST SOUTH CENTRAL	2,064	0	2,064	0.07	9,290	9,186	104	0.30
Alabama	0	0	0	0.00	0	0	0	0.00
Kentucky	1,714	0	1,714	0.41	9,290	9,186	104	2.20
Mississippi	0	0	0	0.00	0	0	0	0.00
Tennessee	350	0	350	0.05	0	0	0	0.00
WEST SOUTH CENTRAL	2,841	0	2,841	0.04	132,093	131,799	294	1.85
Arkansas	1,378	0	1,378	0.28	9,009	8,789	220	1.83
Louisiana	5	0	5	0.00	118,911	118,862	49	12.46
Oklahoma	1,008	0	1,008	0.25	0	0	0	0.00
Texas	450	0	450	0.01	4,173	4,148	25	0.08
MOUNTAIN	1,181	390	791	0.04	229,644	229,434	210	7.68
Arizona	35	0	35	0.02	16	6	10	0.01
Colorado	0	0	0	0.00	199,130	199,035	95	11.46
Idaho	0	0	0	0.00	0	0	0	0.00
Montana	187	140	47	0.10	163	140	23	0.09
Nevada	0	0	0	0.00	0	0	0	0.00
New Mexico	0	0	0	0.00	11,833	11,764	69	4.09
Utah	959	250	709	0.31	5,049	5,036	13	1.61
Wyoming	0	0	0	0.00	13,453	13,453	0	11.93
PACIFIC	0	0	0	0.00	5,499	4,530	969	0.13
Alaska	0	0	0	0.00	0	0	0	0.00
California	0	0	0	0.00	5,422	4,530	892	0.18
Hawaii	0	0	0	0.00	77	0	77	0.03
Oregon	0	0	0	0.00	0	0	0	0.00
Washington	0	0	0	0.00	0	0	0	0.00
TERRITORIES	0	0	0	0.00	0	0	0	0.00
Guam*					0	0	0	
Puerto Rico*					0	0	0	
Virgin Islands	0	0	0	0.00	0	0	0	

LABORATORY DIAGNOSTIC WORKLOAD

TABLE 2: BACTERIOLOGY SPECIMENS

Lab & Region	Total Bacteriology Specimens	Type of Study					
		Nasopharyngeal	Mycobacteria	Enteric	Gonococcus	Anaerobic	Other Bacteriology
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
TOTAL	4,989,164	213,287	485,037	168,417	3,889,567	9,243	223,613
AVERAGE	108,480	4,182	9,701	3,302	78,266	214	4,659
NEW ENGLAND	189,609	13,858	45,072	12,675	112,897	725	4,382
Connecticut	34,841	1,135	4,826	2,342	25,371	557	410
Massachusetts	63,281	1,595	31,803	7,028	20,583	9	2,243
Maine	12,026	771	3,945	546	8,588	39	157
New Hampshire	9,021	377	2,024	231	5,968	10	410
Rhode Island	57,311	9,828	1,996	883	43,888	27	989
Vermont	13,349	152	776	1,645	10,518	83	173
MIDDLE ATLANTIC	162,632	2,381	11,766	8,072	138,853	48	1,512
New Jersey	152,964	2,301	7,458	3,326	138,686	3	1,210
New York*	0						
Pennsylvania	9,668	80	4,308	4,746	187	45	302
EAST NORTH CENTRAL	166,448	5,494	30,552	16,426	93,632	521	19,823
Illinois	64,676	1,327	13,942	6,802	42,223	55	527
Indiana	6,869	1,112	2,964	1,643	101	29	1,020
Michigan	40,580	792	7,966	4,439	17,344	65	9,944
Ohio	23,570	614	725	405	17,652	175	3,999
Wisconsin	30,753	1,649	4,925	3,337	18,312	197	4,333
WEST NORTH CENTRAL	298,644	22,710	18,324	12,236	238,987	265	6,122
Iowa	85,012	18,190	1,868	2,507	69,579	198	2,672
Kansas	35,284	169	3,908	2,071	28,543	43	550
Minnesota	77,073	75	8,105	3,858	64,967	16	52
Missouri	60,293	1,560	2,838	2,838	62,561	0	2,334
Nebraska	8,818	10	362	31	8,024	0	391
North Dakota	6,394	2,278	1,982	256	1,791	9	78
South Dakota	16,770	428	2,099	675	13,522	1	45
SOUTH ATLANTIC	1,653,347	52,363	113,398	55,983	1,351,922	5,263	74,416
Delaware	35,612	3,164	978	374	31,068	0	0
District of Columbia	48,331	5,323	166	1,239	29,229	0	12,374
Florida	599,118	11,637	40,894	28,837	513,585	48	4,139
Georgia	245,130	4,025	14,828	2,658	217,869	87	5,863
Maryland	423,365	22,895	13,023	11,617	327,409	772	47,649
North Carolina	22,204	844	15,278	4,379	344	81	1,278
South Carolina	74,994	127	12,671	328	59,026	0	2,842
Virginia	144,203	3,938	12,322	8,178	117,491	4,274	0
West Virginia	60,390	410	3,440	373	55,891	3	273
EAST SOUTH CENTRAL	776,393	27,576	60,090	6,287	626,181	1,330	52,929
Alabama	254,378	3,177	22,458	2,403	189,871	15	36,652
Kentucky	14,350	546	11,156	1,697	856	0	95
Mississippi	228,907	5,164	15,837	1,868	199,826	0	15,212
Tennessee	278,760	18,689	10,639	2,319	244,828	1,315	970
WEST SOUTH CENTRAL	801,645	1,675	65,845	10,815	694,647	916	7,747
Arkansas	94,840	10	15,767	750	78,106	49	138
Louisiana	155,785	310	5,951	6,776	140,111	124	513
Oklahoma	87,425	701	5,452	1,176	59,464	42	590
Texas	483,595	654	58,655	113	416,966	701	6,506
MOUNTAIN	219,108	70,355	15,437	8,373	120,697	99	4,145
Arizona	31,502	381	3,021	1,416	28,391	6	287
Colorado	14,404	7,496	686	1,732	4,454	9	27
Idaho	41,600	2,894	1,248	622	35,683	18	1,135
Montana	7,772	265	2,069	1,029	3,978	0	431
Nevada	27,809	664	1,883	923	23,672	8	659
New Mexico	27,760	249	5,190	1,548	20,433	42	298
Utah	7,549	32	1,000	1,000	4,347	15	1,155
Wyoming	60,710	58,374	340	103	1,739	1	153
PACIFIC	717,474	18,830	104,553	35,550	507,930	76	52,535
Alaska	56,480	846	7,113	1,328	49,917	23	233
California	539,083	13,489	81,166	29,228	368,024	0	47,196
Hawaii	71,813	470	5,930	1,288	62,320	26	1,799
Oregon	7,435	203	5,065	1,700	306	5	156
Washington	39,683	1,842	5,279	2,026	27,363	22	3,151
TERRITORIES	3,866	45	0	0	3,821	0	0
Guam *							
Puerto Rico *							
Virgin Islands	3,866	45	0	0	3,821	0	0

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 3: BACTERIOLOGY-Nasopharyngeal Specimens

Lab & Region (1)	Total Specimens
TOTAL	213,287
AVERAGE	4182
NEW ENGLAND	13858
Connecticut	1135
Massachusetts	1595
Maine	771
New Hampshire	377
Rhode Island	9828
Vermont	152
MIDDLE ATLANTIC	2381
New Jersey	2301
New York*	0
Pennsylvania	80
EAST NORTH CENTRAL	5494
Illinois	1327
Indiana	1112
Michigan	792
Ohio	614
Wisconsin	1849
WEST NORTH CENTRAL	22710
Iowa	18190
Kansas	169
Minnesota	75
Missouri	1560
Nebraska	10
North Dakota	2278
South Dakota	428
SOUTH ATLANTIC	52363
Delaware	3164
District of Columbia	5323
Florida	11837
Georgia	4025
Maryland	22895
North Carolina	844
South Carolina	127
Virginia	3938
West Virginia	410
EAST SOUTH CENTRAL	27576
Alabama	3177
Kentucky	548
Mississippi	5164
Tennessee	18689
WEST SOUTH CENTRAL	1875
Arkansas	10
Louisiana	310
Oklahoma	701
Texas	654
MOUNTAIN	70355
Arizona	381
Colorado	7496
Idaho	2894
Montana	265
Nevada	664
New Mexico	249
Utah	32
Wyoming	58374
PACIFIC	16830
Alaska	846
California	13469
Hawaii	470
Oregon	203
Washington	1842
TERRITORIES	45
Guam	0
Puerto Rico	0
Virgin Islands	45

New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 3: BACTERIOLOGY - Nasopharyngeal Specimens - Streptococcus Beta Hemolytic, Group A

Lab & Region	Number of Specimens	Type of procedure					
		Culture	FA	Serogrouping	Serotyping	Bacitracin Disc	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
TOTAL	187,781	43	25	31	8	19	
AVERAGE	4,471						
NEW ENGLAND	10,544						
Connecticut	398	X		X			
Massachusetts	271	X	X				
Maine	0	X					
New Hampshire	69	X		X			
Rhode Island	9,808	X		X			
Vermont	0						
MIDDLE ATLANTIC	0						
New Jersey	0						
New York*							
Pennsylvania	0	X		X		X	
EAST NORTH CENTRAL	2,038						
Illinois	8	X		X			
Indiana	0						
Michigan	491	X				X	
Ohio	474			X			
Wisconsin	1,065	X	X			X	PYR
WEST NORTH CENTRAL	22,080						
Iowa	17,974	X	X				
Kansas	95	X		X		X	
Minnesota	0						
Missouri	1,560	X	X	X			
Nebraska	4	X	X				
North Dakota	2,029		X				
South Dakota	418						EIA Rapid screen
SOUTH ATLANTIC	42,829						
Delaware	3,184	X				X	PyR
District of Columbia	5,323	X		X	X	X	
Florida	5,219	X				X	Latex agglutination
Georgia	3,400	X	X	X			
Maryland	21,225	X		X		X	
North Carolina	362	X	X	X			
South Carolina	36	X	X	X			
Virginia	3,812	X	X				
West Virginia	88		X	X			
EAST SOUTH CENTRAL	26,852						
Alabama	2,761	X	X				
Kentucky	525	X	X				
Mississippi	5,164	X	X				
Tennessee	18,402	X	X	X			
WEST SOUTH CENTRAL	715						
Arkansas	0						
Louisiana	73	X		X			
Oklahoma	486	X	X	X			
Texas	156	X	X	X	X	X	
MOUNTAIN	68,799						
Arizona	129	X		X	X	X	
Colorado	7,429	X					
Idaho	2,036	X	X				
Montana	200	X				X	EIA
Nevada	618	X		X		X	
New Mexico	0	X		X			
Utah	90	X		X		X	
Wyoming	58,357	X	X	X			
PACIFIC	14,081						
Alaska	337	X	X	X			
California	13,308	X	X	X	X	X	
Hawaii	320	X	X	X			
Oregon	0						
Washington	98	X	X				
TERRITORIES	45						
Guam	N/A						
Puerto Rico	N/A						
Virgin Islands	45	X		X	X	X	

New York, Guam and Puerto Rico did not report for 1991

TABLE 3: BACTERIOLOGY - Nasopharyngeal Specimens - Diphtheria

Lab & Region	Number of Specimens	Type of procedure				
		Direct Smear	Culture	Confirmatory Sugars	Toxogenicity	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)
TOTAL	5,548	21	39	34	23	
AVERAGE	188					
NEW ENGLAND	29					
Connecticut	0					
Massachusetts	27	X	X	X	X	
Maine	0					
New Hampshire	0		X	X		
Rhode Island	2	X	X	X		
Vermont	0					
MIDDLE ATLANTIC	0					
New Jersey	0					
New York*						
Pennsylvania	0	X	X	X	X	
EAST NORTH CENTRAL	24					
Illinois	0					
Indiana	0					
Michigan	9		X	X	X	
Ohio	0					
Wisconsin	15		X	X	X	
WEST NORTH CENTRAL	62					
Iowa	5	X	X	X	X	
Kansas	0		X	X		
Minnesota	53	X	X		X	
Missouri	0		X	X		
Nebraska	0					
North Dakota	1	X	X	X	X	
South Dakota	3		X			
SOUTH ATLANTIC	5,224					
Delaware	0					
District of Columbia	0					
Florida	5,219		X	X	X	
Georgia	0					
Maryland	0	X	X	X	X	
North Carolina	NA	X	X	X		
South Carolina	5		X	X		
Virginia	0					
West Virginia	0					
EAST SOUTH CENTRAL	13					
Alabama	9	X	X	X	X	
Kentucky	0					
Mississippi	NA		X	X		
Tennessee	4	X	X	X	X	
WEST SOUTH CENTRAL	39					
Arkansas	7	X	X	X		
Louisiana	2		X	X		
Oklahoma	3	X	X	X		
Texas	27	X	X	X	X	
MOUNTAIN	77					
Arizona	16	X	X	X	X	
Colorado	10		X			
Idaho	3	X	X	X	X	
Montana	3		X	X		
Nevada	1	X	X	X		
New Mexico	42		X	X	X	
Utah	1		X	X	X	
Wyoming	1	X	X	X		
PACIFIC	80					
Alaska	9	X	X	X		
California	NA	X	X	X	X	
Hawaii	2		X	X	X	
Oregon	17		X			
Washington	52	X	X	X	X	
TERRITORIES	0					
Guam	N/A					
Puerto Rico	N/A					
Virgin Islands	0					

New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 3: BACTERIOLOGY - Nasopharyngeal Specimens - Pertussis

Lab & Region (1)	Number of Specimens (2)	Type of procedure				
		Culture (3)	FA (4)	Serological (5)	Biochemicals (6)	Other (7)
TOTAL	16,757	42	45	8	27	
AVERAGE	381					
NEW ENGLAND	2,771					
Connecticut	291	X	X			
Massachusetts	1,297	X	X	X	X	
Maine	771		X			
New Hampshire	242	X	X		X	
Rhode Island	18	X	X		X	
Vermont	152	X	X		X	
MIDDLE ATLANTIC	80					
New Jersey	0					
New York*						
Pennsylvania	80	X	X		X	
EAST NORTH CENTRAL	3,434					
Illinois	1,321	X	X		X	
Indiana	1,112	X	X		X	
Michigan	292	X	X		X	
Ohio	140	X	X			
Wisconsin	569	X	X		X	
WEST NORTH CENTRAL	385					
Iowa	211	X	X			
Kansas	74		X			
Minnesota	22	X			X	
Missouri	0	X	X		X	
Nebraska	8		X			
North Dakota	65	X	X		X	
South Dakota	7	X				
SOUTH ATLANTIC	4,501					
Delaware	0					
District of Columbia	0					
Florida	1,199		X		X	
Georgia	616	X	X			
Maryland	1,670	X	X		X	
North Carolina	482	X	X		X	
South Carolina	86	X	X		X	
Virginia	126	X	X			
West Virginia	322		X			
EAST SOUTH CENTRAL	711					
Alabama	407	X	X		X	
Kentucky	21		X			
Mississippi	NA	X				
Tennessee	283	X	X		X	
WEST SOUTH CENTRAL	916					
Arkansas	3	X	X		X	
Louisiana	235	X	X			
Oklahoma	207	X	X	X		
Texas	471	X	X	X	X	
MOUNTAIN	1,436					
Arizona	236	X	X		X	
Colorado	57	X	X			
Idaho	855	X	X			
Montana	62	X	X			
Nevada	2	X	X	X	X	
New Mexico	207	X	X		X	
Utah	1	X	X			Slide agglutination
Wyoming	16	X	X			
PACIFIC	2,523					
Alaska	500	X	X	X		
California	NA	X	X	X	X	
Hawaii	143	X	X		X	
Oregon	186	X	X			
Washington	1,684	X	X			
TERRITORIES	0					
Virgin Islands	0					
Guam	*					
Puerto Rico	*					

New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 3: BACTERIOLOGY -Nasopharyngeal Specimens - Other

Lab & Region (1)	Number of Specimens (2)	Disease/Type of procedure (3)
TOTAL	3,221	
AVERAGE	358	
NEW ENGLAND	514	
Connecticut	448	Legionellosis / FA, Culture
Massachusetts	0	
Maine	0	
New Hampshire	66	Pneumonia / Culture, biochemicals, serogrouping Pharyngitis / " Sinusitis / " Otitis / "
Rhode Island	0	
Vermont	0	
MIDDLE ATLANTIC	2,301	
New Jersey	2,301	Lyme's Disease / IFA, Darkfield, Culture, DFA Legionnaire's Disease / Culture, IFA, DFA
New York*		
Pennsylvania	0	
EAST NORTH CENTRAL	0	
Illinois	0	
Indiana	0	
Michigan	0	
Ohio	0	
Wisconsin	0	
WEST NORTH CENTRAL	183	
Iowa	0	
Kansas	0	
Minnesota	0	
Missouri	0	
Nebraska	0	
North Dakota	183	Legionella / Culture, DFA
South Dakota	0	
SOUTH ATLANTIC	9	
Delaware	0	
District of Columbia	0	
Florida	0	
Georgia	9	Streptococcus pneumoniae / Culture
Maryland	0	
North Carolina	0	
South Carolina	0	
Virginia	0	
West Virginia	0	
EAST SOUTH CENTRAL	0	
Alabama	0	
Kentucky	0	
Mississippi	0	
Tennessee	0	
WEST SOUTH CENTRAL	5	
Arkansas	0	
Louisiana	0	
Oklahoma	5	Staph aureus / Conventional biochems Referred Cult / Conventional biochems
Texas	0	
MOUNTAIN	43	
Arizona	0	
Colorado	0	
Idaho	0	
Montana	0	
Nevada	43	H. influenza / Smear Staphylococcus / Culture, Biochemicals, Sensitivity
New Mexico	0	
Utah	0	
Wyoming	0	
PACIFIC	166	
Alaska	0	
California	161	Adult Botulism Infant Botulism
Hawaii	5	Misc / Culture
Oregon	0	
Washington	0	
TERRITORIES	NA	
Guam*		
Puerto Rico*		
Virgin Islands	0	

*New York, Guam and Puerto did not report for fiscal year 1991

TABLE 4: BACTERIOLOGY - Mycobacteria Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure								
		Direct Smear (3)	Concentrate Smear (4)	Culture (5)	Direct Susceptibility- No. of Drugs (6)	Indirect Susceptibility- No. of Drugs (7)	Number of Bio-chemicals (8)	Species Ident-ification (9)	Genetic Probes (10)	Other (11)
TOTAL	485,037	27	46	49	-	-	-	44	32	
AVERAGE	9,899									
NEW ENGLAND	45,072									
Connecticut	4,826	X	X	X	5	9	17	X	X	Radiometric-Bactec HPLC for identification
Massachusetts	31,803	X	X	X	8	8	14	X	X	
Maine	3,945	X	X	X	6	6	4,5,8	X	X	
New Hampshire	2,024	X	X	X			7	X		
Rhode Island	1,696		X	X		9	12	X	X	
Vermont	778		X	X			12	X		
MIDDLE ATLANTIC	11,766									
New Jersey	7,458	X	X	X		5	13	X	X	Radiometric analysis
New York*										
Pennsylvania	4,308			X	6	6,9	3-13	X	X	
EAST NORTH CENTRAL	30,552									
Illinois	13,942		X	X		4	12+	X	X	Bactec (for drug susceptibilities-4 drugs)
Indiana	2,964	X	X	X		6	10	X	X	GLC analysis
Michigan	7,906	X	X	X		10	15	X		
Ohio	725	X		X	10	10	10	X	X	
Wisconsin	4,925	X	X	X	9	9	12	X	X	
WEST NORTH CENTRAL	18,324									
Iowa	1,868	X	X	X	8	8	13	X		
Kansas	3,908		X	X		10	16			
Minnesota	8,105		X	X		4	12	X		
Missouri	0									
Nebraska	362	X	X	X		5	14	X		
North Dakota	1,982	X	X	X	10	10	15	X	X	
South Dakota	2,099		X	X		4	8	X		
SOUTH ATLANTIC	113,398									
Delaware	976		X	X		4	8	X		
District of Columbia	186	X		X		4	6	X	X	
Florida	40,894		X	X		7	12	X	X	
Georgia	14,828		X	X	9	9	12	X	X	
Maryland	13,023	X	X	X	13	13	15	X	X	Indirect susceptibility for M. Marinum & rapid grower Kirby-Bauer & agar dilution
North Carolina	15,278		X	X	4	4	10	X	X	2nd line drugs - 8 HPLC
South Carolina	12,671	X	X	X	3	7		X		HPLC Bactec
Virginia	12,322	X	X	X				X	X	
West Virginia	3,440		X	X		5	11	X		
EAST SOUTH CENTRAL	60,090									
Alabama	22,458	X	X	X	7	9	17	X	X	HPLC
Kentucky	11,156	X	X	X	8	8	9	X	X	Fluorochrome Smear
Mississippi	15,837		X	X	7	7	6	X	X	Bactec
Tennessee	10,639	X	X	X		5	12	X	X	Fluorochrome Stain
WEST SOUTH CENTRAL	85,845									
Arkansas	15,787		X	X	10	10	23	X		
Louisiana	5,951		X	X	4	4		X	X	
Oklahoma	5,452		X	X		5	8	X		
Texas	58,655	X	X	X	4	6	12	X	X	HPLC
MOUNTAIN	15,437									
Arizona	3,021	X	X	X	4 to 7	7	1 to 6	X		HPLC ID of Nycolic Acids
Colorado	686	X	X	X						
Idaho	1,248	X	X	X	5	5	13		X	Biphasic media
Montana	2,089		X	X	8	8		X	X	
Nevada	1,883	X	X	X	4	7	15	X	X	Bactec
New Mexico	5,190		X	X	4	5	15	X	X	BACTEC Nap test
Utah	1,000		X	X	16	16	13	X	X	
Wyoming	340	X	X	X	10			X		
PACIFIC	104,553									
Alaska	7,113		X	X		3	8		X	
California	81,186	X	X	X	5	5-9	10	X	X	
Hawaii	5,930	X	X	X		7	11	X		
Oregon	5,085		X	X	7	7	9		X	
Washington	5,279		X	X		5	9	X	X	Bactec
TERRITORIES	0									
Guam*										
Puerto Rico*										
Virgin Islands	0									

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 5: BACTERIOLOGY - Enteric Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure							Other (10)
		Primary Plating (3)	Enrichment Plating (4)	Biochemicals (5)	FA (6)	Sero-grouping (7)	Sero-typing (8)	Phage Typing, S. typhi (9)	
TOTAL	168,417	50	50	50	7	48	47	2	
AVERAGE	3,368								
NEW ENGLAND	12,875								
Connecticut	2,342	X	X	X		X	X		
Massachusetts	7,028	X	X	X		X	X		
Maine	546	X	X	X		X	X		
New Hampshire	231	X	X	X		X	X		
Rhode Island	883	X	X	X		X	X		
Vermont	1,645	X	X	X		X	X		
MIDDLE ATLANTIC	8,072								
New Jersey	3,328	X	X	X		X	X		
New York*									
Pennsylvania	4,746	X	X	X		X			
EAST NORTH CENTRAL	16,426								
Illinois	6,802	X	X	X		X	X		
Indiana	1,643	X	X	X	X	X	X		
Michigan	4,438	X	X	X			X		
Ohio	405	X	X	X		X	X		
Wisconsin	3,337	X	X	X	X	X	X		
WEST NORTH CENTRAL	12,236								
Iowa	2,507	X	X	X		X	X		
Kansas	2,071	X	X	X		X	X		
Minnesota	3,858	X	X	X		X	X		
Missouri	2,838	X	X	X			X		
Nebraska	31	X	X	X		X	X		
North Dakota	258	X	X	X		X	X		
South Dakota	675	X	X	X		X	X		
SOUTH ATLANTIC	55,983								
Delaware	374	X	X	X		X	X		
District of Columbia	1,239	X	X	X		X	X		
Florida	26,837	X	X	X		X	X		
Georgia	2,858	X	X	X		X	X		
Maryland	11,617	X	X	X		X	X		Includes salmonella, shigella, E. coli., Vibrio, Yersinia campylobacter & cl. difficile
North Carolina	4,379	X	X	X	X	X	X		Antibiotic susceptibility for Campylobacter ID
South Carolina	328	X	X	X		X	X		
Virginia	8,178	X	X	X		X	X		
West Virginia	373	X	X	X		X	X		
EAST SOUTH CENTRAL	8,287								
Alabama	2,403	X	X	X		X	X		
Kentucky	1,697	X	X	X		X	X		
Mississippi	1,868	X	X	X		X	X		
Tennessee	2,319	X	X	X		X	X		
WEST SOUTH CENTRAL	10,815								
Arkansas	750	X	X	X		X	X		
Louisiana	8,776	X	X	X		X	X		Complete serotyping for Salmonella
Oklahoma	1,176	X	X	X		X	X		API 20 E Strips
Texas	113	X	X	X	X	X	X		
MOUNTAIN	8,373								
Arizona	1,416	X	X	X		X	X		
Colorado	1,732	X	X	X		X	X		
Idaho	622	X	X	X	X	X	X		DLA-campy
Montana	1,029	X	X	X	X	X			
Nevada	923	X	X	X		X			Sensitivities
New Mexico	1,548	X	X	X		X	X		
Utah	1,000	X	X	X		X	X		Verotoxin assays
Wyoming	103	X	X	X		X	X		
PACIFIC	35,550								
Alaska	1,328	X	X	X		X	X		
California	29,228	X	X	X	X	X	X	X	Sensitivity tests
Hawaii	1,288	X	X	X		X	X	X	
Oregon	1,700	X	X	X		X	X		
Washington	2,026	X	X	X		X	X		
TERRITORIES									
Guam*									
Puerto Rico*									
Virgin Islands	0								

* New York, Guam, Puerto Rico did not report for fiscal year 1991

TABLE 6: BACTERIOLOGY - Gonococcus Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure							
		Smear (3)	Culture (4)	Oxidase Reaction (5)	FA (6)	Bio-chemical (7)	Beta-Lactamase (8)	Disc Diffusion Antibiotics (9)	Other (10)
TOTAL	3,889,567	39	48	47	28	44	44		
AVERAGE	76,266								
NEW ENGLAND	112,867								
Connecticut	25,371	X	X	X	X	X			
Massachusetts	20,583	X	X	X	X	X	X	Penicillin, Cefoxitin, Spectinomycin, Cefotaxime	
Maine	6,568	X	X	X	X	X	X	Tetracycline, Ceftriaxone	
New Hampshire	5,989	X	X	X		X	X	Tetracycline, Penicillin, Spectinomycin	Genprobe
Rhode Island	43,888	X	X	X		X	X	Penicillin, Tetracycline, Ceftriaxone	nucleic acid probes for screening and confirmation of culture isolates
Vermont	10,516	X	X	X	X	X	X		Agglutination
MIDDLE ATLANTIC	138,853								
New Jersey	138,666		X	X		X	X	Ceftriaxone, Spectinomycin	Net
New York*									
Pennsylvania	187	X	X	X		X	X	Penicillin, Tetracycline, Erythromycin, Ceftriaxone, Spectinomycin, Ciprofloxacin, Colistin	
EAST NORTH CENTRAL	83,632								
Illinois	42,223	X	X	X		X	X	Penicillin, Ceftriaxone	monoclonal antibody coagglutination
Indiana	101	X	X	X	X	X			
Michigan	17,344								
Ohio	17,652	X	X	X		X	X	Tetracycline, Penicillin	
Wisconsin	16,312	X	X	X	X	X	X		
WEST NORTH CENTRAL	236,967								
Iowa	59,579	X	X	X	X	X	X		
Kansas	28,543		X	X	X	X	X		Genetic probe
Minnesota	64,967	X	X	X	X	X	X	Penicillin, Tetracycline, Spectinomycin	EIA
Missouri	62,561	X	X	X	X	X	X	Penicillin, Tetracycline, Spectinomycin	Gram stain
Nebraska	8,024	X	X	X	X	X	X	Penicillin, Tetracycline, Cephalosporin	
North Dakota	1,791	X	X	X	X	X	X		Abbott EIA (Gonozyme), DNA Probe, Phadebact
South Dakota	13,522		X	X		X	X		
SOUTH ATLANTIC	1,351,922								
Delaware	31,098	X	X	X	X		X		
District of Columbia	29,229	X	X	X		X	X	Penicillin, Tetracycline	
Florida	513,585	X	X	X		X	X	Tetracycline, Penicillin, Spectinomycin, Ceftriaxone	Coagglutination
Georgia	217,869	X	X	X		X	X	Penicillin, Tetracycline, Spectinomycin, Ceftriaxone, Ofloxacin	GenProbe
Maryland	327,409	X	X	X	X	X	X	Penicillin, Tetracycline, Spectinomycin, Ceftriaxone	
North Carolina	344	X	X	X	X	X	X	Penicillin	Genetic probe, monoclonal antibody/EIA
South Carolina	59,026	X	X	X	X	X	X	Penicillin, Tetracycline, Spectinomycin, Ceftriaxone	
Virginia	117,491	X	X	X	X	X	X		
West Virginia	55,891	X	X	X		X	X	Penicillin, Spectinomycin, Ceftriaxone	
EAST SOUTH CENTRAL	626,181								
Alabama	189,671	X	X	X	X	X	X	Penicillin, Tetracycline, Ceftriaxone, Spectinomycin	Phadebact Monoclonal coagglutination
Kentucky	656	X	X	X	X	X	X	Penicillin, Tetracycline	
Mississippi	190,826	X	X	X		X	X	Tetracycline, Penicillin, Ceftriaxone, Spectinomycin	Coagglutination
Tennessee	244,828		X	X	X	X	X	Penicillin, Tetracycline	
WEST SOUTH CENTRAL	604,647								
Arkansas	78,106	X	X	X		X	X	Penicillin	
Louisiana	140,111	X	X	X		X		Penicillin, Tetracycline, Streptomycin, Ceftriaxone	Gene Probe
Oklahoma	59,464							Penicillin, Spectinomycin, Tetracycline, Ceftriaxone	
Texas	416,966	X	X	X	X	X	X	Penicillin, Spectinomycin, Tetracycline	Probe
MOUNTAIN	120,697								
Arizona	28,391	X	X	X	X	X	X		Gonozyme (EIA)
Colorado	4,454							Penicillin, Ceftriaxone, Spectinomycin, Tetracycline	
Idaho	35,683	X	X	X	X	X	X	Penicillin, Tetracycline, Spectinomycin	
Montana	3,978		X	X		X	X	Penicillin, Tetracycline, Ceftriaxone, Spectinomycin	
Nevada	23,672	X	X	X		X	X	Tetracycline, Spectinomycin	Agglutination - Gonogen, Probe-Genprob
New Mexico	20,433		X	X			X	Penicillin, Tetracycline, Spectinomycin, Ceftriaxone	Genprobe Accuprobe
Nevada	4,347		X	X		X	X		DNA probe
Wyoming	1,739		X	X	X	X	X		
PACIFIC	507,630								
Alaska	49,917	X	X	X	X	X	X	Penicillin, Cefotaxime, Tetracycline	DNA probes, Spectinomycin
California	366,024	X	X	X	X	X	X	Penicillin, Spectinomycin, Ceftriaxone	Tetracycline
Hawaii	62,320	X	X	X		X	X	Penicillin, Tetracycline, Ceftriaxone, Spectinomycin	
Oregon	306		X	X	X	X	X		
Washington	27,363	X	X	X	X	X	X	Penicillin, Tetracycline, Spectinomycin	
TERRITORIES	3,821								
Virgin Islands	3,821	X	X						
Samoa*									
Puerto Rico*									

New York, Guam and Puerto did not report for fiscal year 1991

TABLE 7: BACTERIOLOGY - Anaerobic Specimens

Lab & Region	Number of Specimens	Type of Technique		Type of procedure						
		Pre-Reduced Media	Gas Chromatography	Gram Stain	Plating	Sub-Culture	Bio-chemical	FA	GLC	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
TOTAL	9,243	29	20	38	38	40	39	13	23	
AVERAGE	225									
NEW ENGLAND	725									
Connecticut	557	X	X	X	X	X	X	X	X	
Massachusetts	9	X		X	X	X	X		X	Mouse neutralization test
Maine	39	X	X	X	X	X	X	X	X	
New Hampshire	10	X		X	X	X	X			
Rhode Island	27	X		X	X	X	X			
Vermont	83			X	X	X	X			
MIDDLE ATLANTIC	48									
New Jersey	3		X	X	X	X	X		X	Rapid ANAII (IDS)
New York*										
Pennsylvania	45	X		X	X	X	X			
EAST NORTH CENTRAL	521									
Illinois	55	X		X	X	X	X			
Indiana	29	X	X	X	X	X	X	X	X	
Michigan	85									
Ohio	175	X	X	X	X	X	X		X	Botulism culture/neutralization
Wisconsin	197	X	X	X	X	X	X	X	X	
WEST NORTH CENTRAL	285									
Iowa	198	X	X	X	X	X	X		X	
Kansas	43					X				Refer to CDC
Minnesota	16	X		X	X	X	X			
Missouri	0									
Nebraska	0									
North Dakota	9	X		X	X	X	X			
South Dakota	1	X		X	X	X	X			
SOUTH ATLANTIC	5,263									
Delaware	0									
District of Columbia	0									
Florida	48	X		X	X	X	X			
Georgia	87	X	X	X	X	X	X		X	
Maryland	772		X	X	X	X	X	X	X	Mouse inoculation
North Carolina	81	X	X	X	X	X	X	X	X	Drug susceptibility for ID
South Carolina	NA		X	X	X	X	X	X	X	C. difficile toxin, spore stain
Virginia	4,274	X	X	X	X	X	X		X	
West Virginia	3			X	X	X	X			
EAST SOUTH CENTRAL	1,330									
Alabama	15	X		X	X	X	X	X		
Kentucky	0									
Mississippi	NA									Micro scan
Tennessee	1,315	X	X	X	X	X	X		X	
WEST SOUTH CENTRAL	916									
Arkansas	49			X	X	X	X	X	X	
Louisiana	124	X	X	X	X	X	X		X	
Oklahoma	42									
Texas	701	X	X	X	X	X	X	X	X	Botulina/Difficile toxin testing
MOUNTAIN	99									
Arizona	6	X	X	X	X	X	X		X	
Colorado	9									
Idaho	18			X	X	X	X			
Montana	NA			X	X	X	X			
Nevada	8	X		X	X	X	X			
New Mexico	42	X	X	X	X	X	X	X	X	
Utah	15			X	X	X	X			
Wyoming	1	X								
PACIFIC	78									
Alaska	23	X		X	X	X	X			
California	NA	X	X	X	X	X	X	X	X	
Hawaii	26		X	X	X	X	X		X	
Oregon	5				X	X	X		X	
Washington	22	X	X	X	X	X	X	X	X	Mouse toxin studies
TERRITORIES	0									
Guam *										
Puerto Rico *										
Virgin Islands	0									

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 8: BACTERIOLOGY - Other Bacteriology Specimens

Lab & Region (1)	Number of Specimens (2)	Disease/Type of procedure (3)
TOTAL	223,613	
AVERAGE	4,659	
NEW ENGLAND	4,382	
Connecticut	410	
Massachusetts	2,243	Legionnaires'-FA, cult., bioch.; Meningococcal typing, H. influenzae typing, S. pneumoniae typing-Quellung Reaction, biochemical, gram stain
Maine	157	Campylobacter, miscellaneous reference-CDC methodologies
New Hampshire	410	UTI, Sepsis/Meningitis, Cellulitis, Conjunctivitis-culture, biochemicals, gram stain, serogrouping
Rhode Island	989	Septicemia, meningitis, wounds-culture, biochemicals
Vermont	173	Legionellosis-culture, DFA
MIDDLE ATLANTIC	1,512	
New Jersey	1,210	Botulism-mouse toxin, neutralization; Legionella-culture, DFA, identification; Lyme Disease-identification, darkfield, culture
New York*		
Pennsylvania	302	Legionellosis-culture, biochemicals, FA; botulism-mouse inoculation & toxin neutralization; Lyme disease-culture
EAST NORTH CENTRAL	19,823	
Illinois	527	Food Borne-Staph/Salm/Shigella-by culture; Staph aureus-gram stain, selective plating, catalase, coagulase; Legionella-FA; Food Poisoning-Culture & Enterotoxin testing; Staph phage typing
Indiana	1,020	S. Aureus-Plating; Legionella-Plating, GLC, IFA
Michigan	9,944	Food poisoning-gram stain, plating, enrichment, biochemicals; Legionellosis-culture, stains, GLC, biochemicals; Pseudomonas colitis-Neutraliz cytotoxin in tissue culture; Toxic Shock-latex agglutination, plating, biochemicals; Urinary tract inf., Wound cultures-plating, stains, biochemicals
		Susceptibility testing-MIC by microtiter methodology
Ohio	3,969	Ureaplasma-culture; Legionnaire's-culture, FA
Wisconsin	4,333	Referral Culture/Non-enteric-Conventional; Clostridium difficile-Latex, toxin B, culture; Brucella, Francisella-culture, identification
WEST NORTH CENTRAL	8,122	
Iowa	2,672	Legionellosis-DFA & culture; Wounds-culture & biochemicals
Kansas	550	Legionella-culture, FA
Minnesota	52	Legionella-culture, FA; C. botulinum, Tularemia, Hemophilis, Brucella-culture, animal toxigenicity tests
Missouri	2,334	B. pertussis, F. tularensis-culture, biochemical ID, DFA; N. meningitis-culture, serogrouping; H. influenzae-culture, serotyping; Legionnaires-culture, FA; all others-culture
Nebraska	391	Hospital specimens-subculture, identification
North Dakota	78	Miscellaneous-routine culture; MIC's-autoscan IV
South Dakota	45	Staph, UTI, Diarrhea-cultures/biochemicals
SOUTH ATLANTIC	74,418	
Delaware	0	
District of Columbia	12,374	Urine, Wounds-culture, biochemicals, susceptibility
Florida	4,139	Eye/ear/spinal fluid/blood/urine/other exudates & body fluids-smear, culture; Legionellosis-serology, direct FA, culture
Georgia	5,883	Group B Strep.-Culture; Leptospirosis-Culture; Miscellaneous-Culture; Chancroid-Microscopy, Trichomonas-Microscopy, Yeast-Microscopy
Maryland	47,649	Food poisoning-culture, biochemicals, & animal injections; urinary tract infection-culture, counts, sensitivity, misc. body sites-culture, stain, biochemicals, sensitivity
North Carolina	1,278	Legionellosis-culture, FA, serology
South Carolina	2,842	Legionella, Bordetella-plate, FA; Leptospira-darkfield; Urinary tract infections, Drug (antibiotic) susceptibility-plate, stain, Kirby Bauer
Virginia	0	
West Virginia	273	
EAST SOUTH CENTRAL	52,929	
Alabama	36,852	Urine cultures-culture, sensitivity
Kentucky	95	Miscellaneous culture-biochemical, coagulase, smear, serogrouping; Legionnaire's disease-DFA
Mississippi	15,212	Misc. waters-primary & enrichment plating, biochemicals, serotyping, subculture, serogrouping; misc. cultures-plating, selective subculture, biochemicals; urine culture-plating, subculture, biochemicals, bacterial sensitivity testing
Tennessee	970	Legionella-DFA, culture; Francisella-Culture, serology; Food Outbreak (Human Isolates)-Culture, biochemical, serology
WEST SOUTH CENTRAL	7,747	
Arkansas	138	Blood cultures, spinal fluids, Staphylococcus, misc.-gram stain, culture, biochemicals; Legionella-culture, serology
Louisiana	513	Culture for identification-gram Negative, non-fermenters, fermenters and gram positive microorganisms
Oklahoma	560	Leptospira-Culture & microscopic; Vomitus-Plating & Biochems
Texas	6,506	
MOUNTAIN	4,145	
Arizona	287	subnitro isolates from various sites-CDC Biochemical or Benny Biochem ID FA for Legionellas
Colorado	27	Legionella-Culture, Culture Serology
Idaho	1,135	Reference bacterial-CDC (Weaver-King et al.)
Montana	431	
Nevada	859	Various other pathogens-Culture, smear, biochemicals, sensitivities
New Mexico	298	Legionella-DFA, Culture; Plague-DFA, Culture Biochemicals, Phage; Tularemia-DFA, Culture; C. Perfringens-Enterotoxin RPLA
Utah	1,155	Botulism-Culture, Mouse inoculation; Septicemia-Culture, Biochemicals; Meningitis-Culture, Biochemicals
Wyoming	153	Reference ID G+-Biochemical; Reference ID G--Biochemical
PACIFIC	52,535	
Alaska	233	
California	47,198	Plague-Culture, FA, Drug Sus.; Legionnaire's-Animals; Relapsing Fever-FA Darkfields
Hawaii	1,789	Leptospira-culture, darkfield; Streptococcus-culture-CoAgg; Misc-culture
Oregon	156	Botulism-Mouse inoculation; Air Sample-Culture; Reference Cultures-Biochemicals and/or serotyping; Food-Culture/Biochemicals
Washington	3,151	Botulism-Biochemicals, Mouse neutralization, FAME(Fatty Acid Methyl Ester); Tularemia-Biochemicals, FA; Melioidosis-Biochemicals, Brucellosis-Biochemicals; Relapsing Fever-Darkfield, culture; Legionella-Culture; T. Pallidum-DFA; Environmental Legionella-Culture; Lyme Disease-EIA
TERRITORIES	0	
Guam *		
Puerto Rico *		
Virgin Islands	0	

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 8: BACTERIOLOGY - Other Bacteriology Specimens

Lab & Region (1)	Reference culture/Type of procedure (4)
NEW ENGLAND	
Connecticut	All types-biochemicals
Massachusetts	Identification of gram positive/negative bacteria- conventional procedures using CDC protocols (no rapid methods or kits used)
Maine	
New Hampshire	All sites/aerobic & anaerobic-subculture, biochemicals, gram stain, serogrouping
Rhode Island	Miscellaneous hospital reference cultures-biochemicals, Vitek
Vermont	Respiratory, CNS, wound, miscellaneous-standard bacteriology procedures
MIDDLE ATLANTIC	
New Jersey	Staphylococcus, Bacillus-Conventional biochemical
New York*	
Pennsylvania	Miscellaneous bacterial culture-gram stain, biochemicals, serogrouping, serotyping
EAST NORTH CENTRAL	
Illinois	Misc.-culture & serogrouping & correctional ID
Indiana	45 Genera, Other-Plate, Biochem, GLC
Michigan	Disease Outbreak Assist-Plasmid Analysis; Reference Bacteriology-GLC, Plating Stains, Biochemicals; Staph. aureus-Phage Typing
Ohio	Staphylococcus-culture & phage typing; aerobic-culture
Wisconsin	
WEST NORTH CENTRAL	
Iowa	Misc. Sources-culture & biochemicals
Kansas	Staphylococci, Haemophilus, Others-Conventional (culture & biochem)
Minnesota	
Missouri	
Nebraska	
North Dakota	Miscellaneous-Haemophilus/Neisseria, Identification System (Autoscan), Kirby-Bauer, Isolation
South Dakota	Enterics, Gram pos./neg., other-cultures, biochemicals, serology
SOUTH ATLANTIC	
Delaware	
District of Columbia	
Florida	isolates for ID-smear & biochemicals
Georgia	Miscellaneous-Culture, Cell wall fatty acid analysis (GLC)
Maryland	Phage typing-phage plating; Streptococcus group-precipitation test; referred cultures-culture, biochemicals, serology
North Carolina	Streptococcus/Staphylococcus-smear, culture, biochemicals, serology; Campylobacter-smear, culture, biochemicals, drug susceptibility; miscellaneous-smear, culture, biochemicals
South Carolina	Misc.-Virtually any
Virginia	
West Virginia	General Reference-Biochemicals, etc
EAST SOUTH CENTRAL	
Alabama	Aerobes, CO2 dependents & Microaerophils-culture, biochemicals, serotyping
Kentucky	
Mississippi	
Tennessee	Misc. Gram negative/positive rods-smear, culture, biochemicals; Haemophilus-smear, culture, biochemicals, serology; Neisseria-smears, culture, bioc (API Quad Fern), serology
WEST SOUTH CENTRAL	
Arkansas	
Louisiana	Hollis Weaver schema, non-beta hemolytic streptococci-conventional biochemicals
Oklahoma	From numerous sites i.e. blood infections, wounds, etc-Conventional, Biochems
Texas	Enteric-biochemical, serological; miscellaneous-biochemical, serological, GLC
MOUNTAIN	
Arizona	
Colorado	
Idaho	
Montana	Gram positives & gram negatives-Biochemicals, morphological, FA's
Nevada	Various other pathogens- Smear, culture, biochemicals, sensitivities
New Mexico	Gram negative & gram positive Bacilli-biochemical; Gram positive Cocci-biochemical; Haemophilus-biochemical, serology
Utah	Legionella-FA; Salmonella-Serogroup & Serotype; Shigella-Serogroup; Campylobacter-Biochemicals
Wyoming	
PACIFIC	
Alaska	smear, serogrouping; culture, microscopic; oxidase; biochemicals
California	Mycobacteriology & enteric bacteriology-Same as Specimens; Aerobic & anaerobic bacteriology-Species ID
Hawaii	Miscellaneous-culture
Oregon	
Washington	Misc. g neg. rods-Biochemicals, Flagella, FAME; Misc. g + rods-Biochemicals, FAME; Misc. g - rods-Biochemicals, FAME; MISC. g + cocci-Biochemicals, FAME
TERRITORIES	
Virgin Islands	

TABLE 9: MYCOLOGY SPECIMENS

Lab & Region	Number of Specimens	Type of procedure							Other
		Microscopic Wet Mounts	Microscopic Stains	Culture	FA	Biochemicals	Animal Inoculation		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
TOTAL	65,616	37	39	41	4	38	5		
AVERAGE	1,526								
NEW ENGLAND	4,579								
Connecticut	1,713	X	X	X		X		Differentiation media, Identification kit-API	
Massachusetts	241	X	X	X		X		EXO antigen test	
Maine	1,370	X	X	X					
New Hampshire	573	X	X	X		X			
Rhode Island	321	X	X	X		X			
Vermont	361	X	X	X				Hair & Slide Culture	
MIDDLE ATLANTIC	5								
New Jersey	5	X	X	X		X			
New York*									
Pennsylvania	0								
EAST NORTH CENTRAL	9,473								
Illinois	803	X		X		X			
Indiana	367	X	X	X		X		Exoantigen tests	
Michigan	2,116	X	X	X		X			
Ohio	705	X	X	X		X	X		
Wisconsin	5,452	X	X	X	X	X	X	Susceptibility Testing; BIO Assays	
WEST NORTH CENTRAL	3,985								
Iowa	2,186	X	X	X		X			
Kansas	985	X	X	X		X			
Minnesota	414	X	X	X		X			
Missouri	171	X	X	X		X			
Nebraska	0								
North Dakota	182	X	X	X		X		Uri yeast Tek	
South Dakota	47	X	X	X		X		Slide cultures	
SOUTH ATLANTIC	13,033								
Delaware	187		X	X		X			
District of Columbia	0								
Florida	1,185	X	X	X		X			
Georgia	620	X	X	X		X			
Maryland	5,155	X	X	X		X		Hair perforation test, slide culture	
North Carolina	1,360	X	X	X		X			
South Carolina	1,156	X	X	X	X	X			
Virginia	2,811	X	X	X					
West Virginia	559	X	X	X		X			
EAST SOUTH CENTRAL	7,849								
Alabama	4,548	X	X	X		X	X	Exoantigens; DNA Probes	
Kentucky	0								
Mississippi	1,518	X	X	X		X		Hair culture	
Tennessee	1,783		X	X		X			
WEST SOUTH CENTRAL	5,424								
Arkansas	1,988	X	X	X		X			
Louisiana	0								
Oklahoma	1,304							Exoantigen	
Texas	2,132	X	X	X		X			
MOUNTAIN	1,664								
Arizona	362	X	X	X		X		Exoantigen	
Colorado	64								
Idaho	302	X	X	X	X	X			
Montana	257		X	X		X			
Nevada	38	X	X	X		X			
New Mexico	450	X	X	X		X		Exoantigen serology, DNA Probe	
Utah	120	X	X	X		X	X	DNA Probes	
Wyoming	71		X	X		X			
PACIFIC	19,604								
Alaska	217	X	X	X		X			
California	19,139	X	X	X	X	X	X	Mycology cultures for identification	
Hawaii	248	X		X		X		Exoantigen	
Oregon	0								
Washington	0								
TERRITORIES	0								
Guam*	0								
Puerto Rico*	0								
Virgin Islands	0								

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 10: PARASITOLOGY SPECIMENS

Lab & Region	Total Parasitology Specimens	Type of specimen	
		Intestinal	Other
(1)	(2)	(3)	(4)
TOTAL	298,157	287,859	10,498
AVERAGE	6,085	5,753	339
NEW ENGLAND	11,892	11,828	66
Connecticut	1,525	1,482	43
Massachusetts	31	16	15
Maine	0	0	0
New Hampshire	41	38	3
Rhode Island	5,978	5,978	0
Vermont	4,317	4,312	5
MIDDLE ATLANTIC	974	912	62
New Jersey	886	870	16
New York*	0		
Pennsylvania	66	42	46
EAST NORTH CENTRAL	19,868	19,496	370
Illinois	2,462	2,425	37
Indiana	1,912	1,740	172
Michigan	8,130	8,128	2
Ohio	688	688	0
Wisconsin	6,676	6,517	159
WEST NORTH CENTRAL	21,260	20,940	320
Iowa	6,357	6,202	155
Kansas	6,261	6,261	0
Minnesota	2,642	2,482	160
Missouri	3,814	3,814	0
Nebraska	37	37	0
North Dakota	671	666	5
South Dakota	1,478	1,478	0
SOUTH ATLANTIC	105,027	104,758	269
Delaware	0	0	0
District of Columbia	0	0	0
Florida	54,887	54,864	23
Georgia	19,268	19,238	30
Maryland	17,383	17,300	63
North Carolina	3,044	2,892	152
South Carolina	3,306	3,305	1
Virginia	5,674	5,674	0
West Virginia	1,485	1,485	0
EAST SOUTH CENTRAL	16,377	16,339	38
Alabama	5,163	5,174	9
Kentucky	2,369	2,369	0
Mississippi	5,038	5,038	0
Tennessee	3,787	3,758	29
WEST SOUTH CENTRAL	10,470	15,055	5,201
Arkansas	1,121	1,121	0
Louisiana	5,905	5,905	0
Oklahoma	1,259	1,255	4
Texas	2,185	1,552	633
MOUNTAIN	10,800	10,747	53
Arizona	232	226	6
Colorado	2,395	2,395	0
Idaho	1,500	1,488	12
Montana	1,429	1,429	0
Nevada	2,032	2,029	3
New Mexico	2,801	2,771	30
Utah	322	320	2
Wyoming	69	69	0
PACIFIC	90,287	81,604	8,683
Alaska	3,376	3,358	18
California	81,269	72,629	8,640
Hawaii	164	184	0
Oregon	2,759	2,752	7
Washington	2,719	2,701	18
TERRITORIES	11,202	11,202	0
Guam*			
Puerto Rico*			
Virgin Islands	11,202	11,202	

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 11: PARASITOLOGY - Intestinal Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure					Other (7)
		Gross (3)	Direct (includes Pinworms) (4)	Concentrate Smear (5)	Stained Smear (6)		
TOTAL	287,659	30	47	47	45		
AVERAGE	5,993						
NEW ENGLAND	11,826						
Connecticut	1,482	X	X	X	X		
Massachusetts	18	X	X	X	X		
Maine	0	X	X				
New Hampshire	38	X	X	X	X	IFA Cryptosporidium	
Rhode Island	5,978		X	X			
Vermont	4,312	X	X	X	X	Worm identification	
MIDDLE ATLANTIC	912						
New Jersey	870		X	X	X		
New York*							
Pennsylvania	42	X	X	X	X	Formalin ethyl acetate concentration	
EAST NORTH CENTRAL	19,498						
Illinois	2,425	X	X	X	X		
Indiana	1,740	X	X	X	X		
Michigan	8,128	X	X	X	X		
Ohio	688		X	X	X		
Wisconsin	6,517	X	X	X	X	Insect ID, Arthropod ID	
WEST NORTH CENTRAL	20,940						
Iowa	6,202	X	X	X	X		
Kansas	6,261	X	X	X	X		
Minnesota	2,482	X	X	X	X		
Missouri	3,814		X	X	X	FA for cryptosporidium	
Nebraska	37		X	X	X		
North Dakota	666	X	X	X	X	Fluorochrome for cryptosporidium	
South Dakota	1,478		X	X	X		
SOUTH ATLANTIC	104,758						
Delaware	0		X	X	X		
District of Columbia	0						
Florida	54,864		X	X	X		
Georgia	19,238		X	X	X	Worm identification	
Maryland	17,300		X	X	X		
North Carolina	2,892	X	X	X	X	Mounted/stained worm segments, Cryptosporidium species-conc., stain	
South Carolina	3,305	X	X	X	X		
Virginia	5,674	X	X	X	X	FA	
West Virginia	1,485		X	X	X		
EAST SOUTH CENTRAL	16,339						
Alabama	5,174		X	X			
Kentucky	2,369	X	X	X	X		
Mississippi	5,038		X	X	X		
Tennessee	3,758		X	X	X	DFA (Cryptosporidium)	
WEST SOUTH CENTRAL	9,833						
Arkansas	1,121	X	X	X	X	Pinworm, tape	
Louisiana	5,905		X	X	X		
Oklahoma	1,255					Acid fast cryptosporidium stain	
Texas	1,552	X	X	X	X		
MOUNTAIN	10,747						
Arizona	226	X	X	X	X		
Colorado	2,395			X	X		
Idaho	1,488	X	X	X	X		
Montana	1,429		X	X	X	FA-cryptosporidium	
Nevada	2,029	X	X	X	X		
New Mexico	2,771		X	X	X	Acid fast for cryptosporidium	
Utah	320	X	X	X	X		
Wyoming	89	X	X	X	X		
PACIFIC	81,604						
Alaska	3,358	X	X	X	X		
California	72,629	X	X	X	X		
Hawaii	164	X	X	X	X		
Oregon	2,752	X	X	X	X	Cryptosporidium	
Washington	2,701	X	X	X	X		
TERRITORIES	11,202						
Virgin Islands	11,202						
Puerto Rico*							
Guam*							

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 12: PARASITOLOGY - Other Parasitology Specimens

Lab & Region	Number of Specimens	Type of specimen			
		Malaria	Trichinosis	Toxoplasmosis	Other
(1)	(2)	(3)	(4)	(5)	(6)
TOTAL	10,498	33	8	8	
AVERAGE	339				
NEW ENGLAND	66				
Connecticut	43	X			Monoclonal antibody typing
Massachusetts	15	X			Other
Maine	0				
New Hampshire	3	X			P. carinii, Babesiosis, Microfilariae
Rhode Island	0				
Vermont	5	X	X		
MIDDLE ATLANTIC	62				
New Jersey	16	X			
New York*					
Pennsylvania	46	X	X		Arthropods, Babesia
EAST NORTH CENTRAL	370				
Illinois	37	X			
Indiana	172				Pinworm, Arthropods
Michigan	2	X			
Ohio	0				
Wisconsin	159	X		X	Tick ID, Insect ID, Borrelia detection in ticks
WEST NORTH CENTRAL	320				
Iowa	155	X	X		Pneumocystis, Acanthamoeba
Kansas	0				
Minnesota	160	X			
Missouri	0				
Nebraska	0				
North Dakota	5	X			
South Dakota	0				
SOUTH ATLANTIC	269				
Delaware	0				
District of Columbia	0				
Florida	23	X		X	
Georgia	30	X			Ectoparasites
Maryland	63	X	X		Acanthamoebae culture, cryptosporidium species, pneumocystis smear
North Carolina	152	X			Arthropod identification, water (Giardia)
South Carolina	1	X			
Virginia	0				
West Virginia	0				
EAST SOUTH CENTRAL	38				
Alabama	9	X			
Kentucky	0				
Mississippi	0				
Tennessee	29	X		X	Arthropods (6)
WEST SOUTH CENTRAL	637				
Arkansas	0	X			
Louisiana	0				
Oklahoma	4	X			
Texas	633	X			Urine, worm
MOUNTAIN	53				
Arizona	6	X			Larvae
Colorado	0				
Idaho	12	X			
Montana	0				
Nevada	3				Arthropod identification, Giardia Water Filter
New Mexico	30	X			Worm identification, Insect identification
Utah	2	X			
Wyoming	0				
PACIFIC	8,683				
Alaska	18	X			Pneumocystis
California	8,640				Pinworm preparations, proglottids, reference specimens
Hawaii	0				
Oregon	7	X			
Washington	18	X			
TERRITORIES	0				
Guam	0				
Puerto Rico	0				
Virgin Islands	0				

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 13: VIROLOGY SPECIMENS

Lab & Region (1)	Total Virology Specimens (2)	Rabies (3)	Viral Isolation (4)	Rickettsial Identification (5)	HIV Identification (6)	Chlamydia (7)	Herpes Simplex (8)	Other (9)
TOTAL	1,529,491	77,337	159,971	7,405	3,297	1,200,330	60,318	20,833
AVERAGE	30,041							
NEW ENGLAND	86,046	1,720	48,106	0	0	30,711	5,480	29
Connecticut	8,492	907	2,770	0	0	0	4,815	0
Massachusetts	47,195	281	43,581	0	0	3,135	179	19
Maine	18,306	132	1,704	0	0	16,470	NA	0
New Hampshire	6,389	277	14	0	0	5,602	466	10
Rhode Island	309	61	0	0	0	248	0	0
Vermont	5,355	82	37	0	0	5,256	0	0
MIDDLE ATLANTIC	12,304	6,622	2,827	20	0	645	1,216	974
New Jersey	9,515	4,314	2,351	20	0	645	1,211	974
New York*	0							
Pennsylvania	2,789	2,308	476	0	0	0	5	0
EAST NORTH CENTRAL	168,429	10,875	45,966	1,040	1,398	96,585	8,904	3,859
Illinois	12,967	2,158	3,060	0	0	3,901	1,401	2,447
Indiana	15,595	2,230	286	0	0	12,522	557	0
Michigan	11,276	2,098	862	NA	53	6,381	1,814	68
Ohio	42,199	2,299	35,277	1,040	0	0	2,269	1,344
Wisconsin	66,392	1,920	6,483	0	1,345	73,781	2,863	0
WEST NORTH CENTRAL	167,758	6,715	10,856	0	661	135,087	4,376	10,083
Iowa	36,473	709	5,252	0	661	25,287	2,282	2,282
Kansas	30,952	0	2,227	0	0	27,541	1,184	0
Minnesota	12,835	2,315	1,677	0	0	8,426	417	0
Missouri	35,073	2,319	1,302	0	0	23,832	NA	7,620
Nebraska	13,837	798	0	0	0	13,039	0	0
North Dakota	15,797	412	232	0	0	15,077	76	0
South Dakota	22,791	162	166	0	0	21,865	417	181
SOUTH ATLANTIC	400,864	18,043	27,655	127	10	330,573	21,811	2,645
Delaware	20,882	579	1,622	0	0	17,149	1,332	0
District of Columbia	15,036	238	0	0	0	14,798	0	0
Florida	100,864	3,523	2,730	0	0	92,226	1,825	580
Georgia	5,938	1,901	686	0	0	0	3,349	0
Maryland	74,296	5,934	17,139	15	10	46,783	4,261	154
North Carolina	59,515	1,456	4,446	0	0	48,393	5,220	0
South Carolina	30,324	2,018	896	112	0	21,337	4,030	1,931
Virginia	93,537	1,722	134	0	0	89,887	1,784	0
West Virginia	672	672	0	0	0	0	0	0
EAST SOUTH CENTRAL	75,908	6,662	1,964	0	0	68,250	1,032	0
Alabama	31,052	2,562	21	0	0	28,489	0	0
Kentucky	18,928	1,669	430	0	0	16,746	83	0
Mississippi	11,318	584	0	0	0	10,734	0	0
Tennessee	14,610	1,847	1,513	0	0	10,301	949	0
WEST SOUTH CENTRAL	89,456	15,037	2,370	6,218	0	62,628	368	2,835
Arkansas	1,156	1,156	0	0	0	0	0	0
Louisiana	1,348	1,266	62	0	0	0	0	0
Oklahoma	5,018	3,501	1,240	0	0	0	277	0
Texas	81,934	9,094	1,068	6,218	0	62,628	91	2,835
MOUNTAIN	125,881	2,761	7,429	0	0	110,217	5,066	408
Arizona	19,391	1,118	3,528	0	0	12,859	1,888	0
Colorado	14,439	458	0	0	0	13,983	0	0
Idaho	11,135	0	111	0	0	10,283	741	0
Montana	27,858	0	945	0	0	25,762	1,151	0
Nevada	18,191	0	0	0	0	18,191	0	0
New Mexico	17,558	805	1,457	0	0	14,617	519	360
Utah	9,828	582	1,388	0	0	7,041	789	48
Wyoming	7,481	0	0	0	0	7,481	0	0
PACIFIC	400,817	9,102	12,796	0	1,226	365,626	12,065	0
Alaska	7,883	112	3,999	0	0	1,819	1,953	0
California	252,891	8,545	6,082	0	1,226	228,629	8,407	0
Hawaii	17,875	33	423	0	0	16,682	737	0
Oregon	57,373	124	793	0	0	56,456	0	0
Washington	64,795	288	1,499	0	0	62,040	966	0
TERRITORIES	2,028	0	0	0	0	2,028	0	0
Guam*	0							
Puerto Rico								
Virgin Islands	2,028					2,028		

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 14: VIROLOGY - Rabies Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure				
		Stained Smear (3)	FRA (4)	Animal Inoculation (5)	RFFIT (6)	Other (7)
TOTAL	77,337	10	44	22	4	
AVERAGE	1,719					
NEW ENGLAND	1,720					
Connecticut	907		X			Monoclonal antibody typing
Massachusetts	281		X			EXO abngen test
Maine	132		X			
New Hampshire	277	X	X	X		
Rhode Island	81		X			
Vermont	62		X			
MIDDLE ATLANTIC	6,622					
New Jersey	4,314		X	X		
New York*						
Pennsylvania	2,308		X	X		
EAST NORTH CENTRAL	10,675					
Illinois	2,156		X			
Indiana	2,230	X	X			
Michigan	2,068		X	X		
Ohio	2,260		X			
Wisconsin	1,920		X		X	
WEST NORTH CENTRAL	6,715					
Iowa	709		X	X		
Kansas	0					
Minnesota	2,315		X	X		
Missouri	2,319		X			
Nebraska	798		X			
North Dakota	412		X			Mouse neuroblast cell culture
South Dakota	162		X			
SOUTH ATLANTIC	18,043					
Delaware	579	X	X	X		
District of Columbia	238	X	X			
Florida	3,523		X			
Georgia	1,901		X			
Maryland	5,934		X	X	X	
North Carolina	1,456		X	X		
South Carolina	2,018		X			
Virginia	1,722	X		X		
West Virginia	672		X	X		
EAST SOUTH CENTRAL	6,662					
Alabama	2,562	X	X	X		
Kentucky	1,669	X	X	X		
Mississippi	584	X	X			
Tennessee	1,847	X	X	X		
WEST SOUTH CENTRAL	15,037					
Arkansas	1,156		X			
Louisiana	1,286	X	X		X	
Oklahoma	3,501		X			
Texas	9,094		X	X		Monoclonal typing
MOUNTAIN	2,761					
Arizona	1,118		X	X		
Colorado	456		X	X		
Idaho	0					
Montana	0					
Nevada	0					
New Mexico	605		X	X		
Utah	582		X	X		
Wyoming	0					
PACIFIC	9,102					
Alaska	112		X	X		
California	8,545		X	X	X	
Hawaii	33		X			
Oregon	124		X			
Washington	288		X	X		
TERRITORIES	0					
Guam *						
Puerto Rico *						
Virgin Islands	0					

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 15: VIROLOGY - Viral Isolation Specimens

Lab & Region (1)	Number of Specimens (2)	Type of Study						Tissue Culture Hosts (9)	Eggs (10)
		Enteric (3)	Arbovirus (Human Origin) (4)	Arbovirus (Non-human Origin) (5)	Respiratory (6)	Exanthem (7)	Other (8)		
TOTAL	159,971	36	18	17	40	36		39	13
AVERAGE	3,902								
NEW ENGLAND	48,108								
Connecticut	2,770	X			X	X		X	
Massachusetts	43,581	X	X	X	X	X		X	
Maine	1,704	X			X	X		X	
New Hampshire	14				X			X	
Rhode Island	0							X	
Vermont	37				X			X	
MIDDLE ATLANTIC	2,827								
New Jersey	2,351	X	X	X	X	X	CNS, STD	X	X
New York*									
Pennsylvania	476	X			X	X		X	X
EAST NORTH CENTRAL	45,968								
Illinois	3,080	X	X	X	X	X		X	
Indiana	288	X			X	X		X	X
Michigan	882	X			X	X	Genital		
Ohio	35,277	X	X	X	X	X	Urine, CSF	X	
Wisconsin	6,483	X			X	X	Urine, autopsy/biopsy tissue, Ocular swabs	X	X
WEST NORTH CENTRAL	10,858								
Iowa	5,252	X		X	X	X	Genital; Biopsy/Autopsy; Urine	X	X
Kansas	2,227	X	X		X	X		X	X
Minnesota	1,677	X			X	X	Transplant, CNS	X	
Missouri	1,302	X	X	X	X	X	Tissue, urine, CSF, throat, stool	X	
Nebraska	0							X	
North Dakota	232	X		X	X	X		X	
South Dakota	188	X			X	X	CMV	X	
SOUTH ATLANTIC	27,655								
Delaware	1,822	X		X	X	X		X	X
District of Columbia	0							X	X
Florida	2,730	X	X	X	X	X		X	X
Georgia	888	X			X	X	Lesions, ocular, and other tissue	X	X
Maryland	17,139	X	X	X	X	X	Tissues eg Brain animal tissues; CSF & other fluids; Urine, genital	X	X
North Carolina	4,446	X	X	X	X	X	Genital specimens (HSV), body tissues/fluids	X	X
South Carolina	898	X	X	X	X	X	Urine (CMV)	X	X
Virginia	134	X	X	X	X	X		X	
West Virginia	0							X	
EAST SOUTH CENTRAL	1,964								
Alabama	21				X			X	
Kentucky	430	X	X		X	X	Autopsy material	X	
Mississippi	0							X	
Tennessee	1,513	X			X	X		X	
WEST SOUTH CENTRAL	2,370								
Arkansas	0								
Louisiana	82				X				
Oklahoma	1,240	X			X	X	CSF, tissue	X	
Texas	1,068	X	X	X	X	X		X	X
MOUNTAIN	7,429								
Arizona	3,528	X	X	X	X	X		X	
Colorado	0								
Idaho	111							X	
Montana	845	X			X	X	CNS involvement	X	
Nevada	0							X	
New Mexico	1,457	X	X	X	X	X		X	
Utah	1,388	X	X		X	X		X	
Wyoming	0								
PACIFIC	12,798								
Alaska	3,969	X	X		X	X	CNS	X	
California	6,082	X	X	X	X	X		X	
Hawaii	423	X			X	X	Misc (FUO, conjunctivitis, etc)	X	
Oregon	793	X			X	X	Spinal fluid & urine for CMV	X	
Washington	1,489	X			X	X	Cutaneous, Eruptive, CNS, Congenital, GI, Eye Cardiovascular, M	X	X
TERRITORIES	0						Immunodeficient, Hepatitis, Urinary, Reference		
Guam *									
Puerto Rico *									
Virgin Islands	0								

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 15: VIROLOGY - Viral Isolation Specimens

Lab Region (1)	Animal Hosts (11)	Type of procedure						Other (18)
		HA/HI (12)	CF (13)	Neutral-ization Tests (14)	FA-Original Specimens (15)	FA-Other (16)	HAD/HADI (17)	
TOTAL	18	35	16	35	20	33	32	
AVERAGE								
NEW ENGLAND								
Connecticut		X		X		X	X	EIA
Massachusetts		X		X		X	X	
Maine								
New Hampshire		X				X		
Rhode Island								
Vermont								
MIDDLE ATLANTIC								
New Jersey	X	X		X	X	X	X	
New York*								
Pennsylvania		X		X		X	X	
EAST NORTH CENTRAL								
Illinois		X		X	X	X	X	Latex agglutination
Indiana		X	X	X		X	X	
Michigan								EIA
Ohio	X	X		X		X	X	DNA-Probe
Wisconsin	X	X		X	X	X	X	EIA
WEST NORTH CENTRAL								
Iowa	X	X	X	X	X	X	X	Enzyme immunoassay
Kansas	X	X		X		X		
Minnesota		X		X	X	X	X	
Missouri		X		X	X	X	X	EIA, latex agglutination
Nebraska								
North Dakota		X	X	X		X	X	
South Dakota		X	X	X			X	
SOUTH ATLANTIC								
Delaware	X	X	X	X		X	X	
District of Columbia								
Florida	X	X	X	X	X	X	X	
Georgia		X		X	X	X	X	Electron microscopy
Maryland	X	X		X	X	X	X	EIA
North Carolina	X	X	X	X	X	X	X	Antigen detection-Rotavirus
South Carolina	X	X	X	X	X	X	X	
Virginia		X	X	X	X			
West Virginia								
EAST SOUTH CENTRAL								
Alabama		X		X			X	
Kentucky		X	X	X		X		
Mississippi								
Tennessee	X	X		X	X	X	X	
WEST SOUTH CENTRAL								
Arkansas								
Louisiana								
Oklahoma		X		X	X	X	X	
Texas	X	X	X	X	X	X	X	Electron microscopy, Enzyme Immunoassay
MOUNTAIN								
Arizona	X	X	X	X	X	X	X	
Colorado								
Idaho								
Montana		X		X	X	X	X	
Nevada								
New Mexico	X	X		X	X	X	X	
Utah	X	X		X		X	X	
Wyoming								
PACIFIC								
Alaska	X	X	X	X	X	X	X	
California				X		X	X	HI, EIA
Hawaii		X	X	X		X	X	
Oregon		X	X	X		X	X	
Washington	X	X	X	X	X	X	X	
TERRITORIES								
Guam *								
Puerto Rico *								
Virgin Islands	0							

TABLE 16: VIROLOGY - Rickettsial Identification Specimens

Lab & Region (1)	Number of Specimens (2)	Type of specimen		Type of procedure			
		Tick (3)	Other (4)	Tissue Culture (5)	FA (6)	Eggs (7)	Other (8)
TOTAL	7,405	4		3	5	1	
AVERAGE	1,481						
NEW ENGLAND	0						
Connecticut	0						
Massachusetts	0						
Maine	0						
New Hampshire	0						
Rhode Island	0						
Vermont	0						
MIDDLE ATLANTIC	20						
New Jersey	20	X			X		
New York*							
Pennsylvania	0						
EAST NORTH CENTRAL	1,040						
Illinois	0						
Indiana	0						
Michigan	0						
Ohio	1,040	X		X	X		
Wisconsin	0						
WEST NORTH CENTRAL	0						
Iowa	0			X	X	X	
Kansas	0						
Minnesota	0						
Missouri	0						
Nebraska	0						
North Dakota	0						
South Dakota	0						
SOUTH ATLANTIC	127						
Delaware	0						
District of Columbia	0						
Florida	0						
Georgia	0						
Maryland	15		Skin biopsy				
North Carolina	0						
South Carolina	112	X			X		direct stain of hemolymph
Virginia	0						
West Virginia	0						
EAST SOUTH CENTRAL	0						
Alabama	0						
Kentucky	0						
Mississippi	0						
Tennessee	0						
WEST SOUTH CENTRAL	6,218						
Arkansas	0						
Louisiana	0						
Oklahoma	0						
Texas	6,218	X	Flea	X	X		Hemolymph Giemsa stain
MOUNTAIN	0						
Arizona	0						
Colorado	0						
Idaho	0						
Montana	0						
Nevada	0						
New Mexico	0						
Utah	0						
Wyoming	0						
PACIFIC	0						
Alaska	0						
California	0						
Hawaii	0						
Oregon	0						
Washington	0						
TERRITORIES	0						
Guam*							
Puerto Rico*							
Virgin Islands	0						

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 17: VIROLOGY - HIV Identification Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure	
		Culture (3)	Other (4)
TOTAL	3,297	3	
AVERAGE	658		
NEW ENGLAND	0		
Connecticut	0		
Massachusetts	0		
Maine	0		
New Hampshire	0		
Rhode Island	0		
Vermont	0		
MIDDLE ATLANTIC	0		
New Jersey	0		
New York*	0		
Pennsylvania	0		
EAST NORTH CENTRAL	1,396		
Illinois	0		
Indiana	0		
Michigan	53		PCR
Ohio	0		
Wisconsin	1,345		P24 abnngen, EIA
WEST NORTH CENTRAL	661		
Iowa	661	X	P24, EIA
Kansas	0		
Minnesota	0		
Missouri	0		EIA, Western Blot
Nebraska	0		
North Dakota	0		
South Dakota	0		
SOUTH ATLANTIC	10		
Delaware	0		
District of Columbia	0		
Florida	0		
Georgia	0		
Maryland	10	X	Antigen
North Carolina	0		
South Carolina	0		
Virginia	0		
West Virginia	0		
EAST SOUTH CENTRAL	0		
Alabama	0		
Kentucky	0		
Mississippi	0		
Tennessee	0		
WEST SOUTH CENTRAL	0		
Arkansas	0		
Louisiana	0		
Oklahoma	0		
Texas	0		
MOUNTAIN	0		
Arizona	0		
Colorado	0		
Idaho	0		
Montana	0		
Nevada	0		
New Mexico	0		
Utah	0		
Wyoming	0		
PACIFIC	1,228		
Alaska	0		
California	1,228	X	PCR
Hawaii	0		
Oregon	0		
Washington	0		
TERRITORIES	0		
Guam*	0		
Puerto Rico*	0		
Virgin Islands	0		

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 18: VIROLOGY - Chlamydia Specimens

Lab & Region (1)	Number of Specimens (2)	Number of Positive Specimens (3)	Percentage of Positive Specimens (4)	Type of procedure				
				Tissue Culture (5)	Direct Specimen (6)	EIA (7)	IFA (8)	Other (9)
TOTAL	1,200,330	108,669	8.89%	18	14	31	10	
AVERAGE	27,915	2,802	9.32%					
NEW ENGLAND	30,711	2,131	6.94%					
Connecticut	0	0						
Massachusetts	3,135	284	9.06%			X		
Maine	16,470	1,172	7.12%					
New Hampshire	5,602	345	6.16%		X			DNA Probe
Rhode Island	248	30	12.10%			X		
Vermont	5,256	300	5.71%		X	X		
MIDDLE ATLANTIC	645	15	2.33%					
New Jersey	645	15	2.33%	X				
New York*								
Pennsylvania	0	0						
EAST NORTH CENTRAL	98,565	7,261	7.52%					
Illinois	3,901	414	10.61%			X		
Indiana	12,522	1,038	8.29%			X		
Michigan	6,381	454	7.11%	X				
Ohio	0	0						
Wisconsin	73,781	5,355	7.26%	X		X	X	
WEST NORTH CENTRAL	135,067	12,322	9.12%					
Iowa	25,287	2,085	8.17%	X	X	X	X	
Kansas	27,541	2,329	8.46%	X		X		
Minnesota	8,428	756	8.97%			X		
Missouri	23,832	2,896	11.31%			X		
Nebraska	13,039	1,434	11.00%			X		
North Dakota	15,077	1,234	8.18%	X	X		X	DFA syva microTRAK
South Dakota	21,865	1,808	8.27%					DNA probe
SOUTH ATLANTIC	330,573	33,218	10.05%					
Delaware	17,148	1,293	7.54%	X	X	X		
District of Columbia	14,788	0	0.00%			X		
Florida	92,228	10,150	11.01%			X		
Georgia	0	0						
Maryland	46,783	4,015	8.58%	X	X			
North Carolina	48,393	5,244	10.84%	X		X		
South Carolina	21,337	2,712	12.71%	X		X		
Virginia	66,887	9,804	10.91%			X		
West Virginia	0	0						
EAST SOUTH CENTRAL	66,250	8,004	12.08%					
Alabama	28,469	3,857	13.55%			X		
Kentucky	16,746	1,425	8.51%			X		
Mississippi	10,734	1,806	16.83%			X		
Tennessee	10,301	916	8.89%			X		
WEST SOUTH CENTRAL	62,628	6,865	10.96%					
Arkansas	0	0						
Louisiana	0	0						
Oklahoma	0	0						
Texas	62,628	6,865	10.96%	X		X	X	Antigen detection
MOUNTAIN	110,217	7,217	6.55%					
Arizona	12,859	1,020	7.93%	X		X	X	
Colorado	13,983	1,189	8.50%			X		FA
Idaho	10,283	823	8.00%		X	X		
Montana	25,762	1,333	5.17%	X	X		X	
Nevada	18,191	NA					X	Probe-Genprobe
New Mexico	14,817	1,521	10.41%	X	X	X		
Utah	7,041	625	8.88%	X	X			DNA Probe
Wyoming	7,481	706	9.44%			X	X	
PACIFIC	365,626	29,434	8.05%					
Alaska	1,819	136	7.48%	X			X	DNA probe
California	228,629	20,576	9.00%	X	X	X		
Hawaii	16,682	1,111	6.66%		X	X		
Oregon	56,456	3,395	6.01%		X	X	X	
Washington	62,040	4,216	6.80%		X	X		Mouse inoculation
TERRITORIES	2,028	202	9.96%					
Guam*								
Puerto Rico*								
Virgin Islands	2,028	202	9.96%					

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 19: VIROLOGY - Herpes Simplex Specimens

Lab & Region (1)	Number of Specimens (2)	Number of Positive Specimens (3)	Type of procedure	
			Cell Culture (4)	Other (5)
TOTAL	60,318	21,925	36	
AVERAGE	1,723	645		
NEW ENGLAND	5,480	1,707		
Connecticut	4,615	1,400	X	PAP staining
Massachusetts	179	48	X	Direct FA
Maine	NA	NA	X	OFA
New Hampshire	486	169	X	Culture amplified ELISA, FA
Rhode Island	0	0		
Vermont	0	0		
MIDDLE ATLANTIC	1,216	119		
New Jersey	1,211	114	X	Direct FA
New York*				
Pennsylvania	5	5	X	FA
EAST NORTH CENTRAL	8,904	3,255		
Illinois	1,401	450	X	Complement fixation, latex agglutination
Indiana	557	299	X	
Michigan	1,814	624		
Ohio	2,269	655	X	DNA Probe
Wisconsin	2,863	827	X	
WEST NORTH CENTRAL	4,378	2,148		
Iowa	2,282	943	X	
Kansas	1,184	690	X	
Minnesota	417	415	X	
Missouri	NA	NA	X	EIA
Nebraska	0	0		
North Dakota	76	8	X	
South Dakota	417	92	X	
SOUTH ATLANTIC	21,811	6,827		
Delaware	1,332	475	X	FA
District of Columbia	0	0		
Florida	1,825	135	X	DFA, CF, sucking mice
Georgia	3,349	1,674	X	
Maryland	4,261	480	X	FA, EIA
North Carolina	5,220	1,781	X	
South Carolina	4,030	1,500	X	FA direct smears
Virginia	1,794	782	X	
West Virginia	0	0		
EAST SOUTH CENTRAL	1,032	516		
Alabama	0	0		
Kentucky	83	136	X	Direct FA
Mississippi	0	0		
Tennessee	949	380	X	
WEST SOUTH CENTRAL	368	124		
Arkansas	0	0		
Louisiana	0	0		
Oklahoma	277	124	X	
Texas	91	0	X	DFA
MOUNTAIN	5,066	1,771		
Arizona	1,886	737	X	Fecal detection by IFA
Colorado	0	0		
Idaho	741	185	X	
Montana	1,151	340	X	
Nevada	0	0		
New Mexico	519	278	X	FA
Utah	769	231	X	
Wyoming	0	0		
PACIFIC	12,065	5,458		
Alaska	1,953	585	X	
California	8,407	4,204	X	Direct immunofluorescence on original specimen
Hawaii	737	232	X	
Oregon	0	0		
Washington	968	437	X	
TERRITORIES	0	0		
Guam*				
Puerto Rico*				
Virgin Islands	0			

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 20: VIROLOGY SPECIMENS - OTHER

Lab & Region (1)	Number of Specimens (2)	Disease/Type of procedure (3)
TOTAL	20,833	
AVERAGE	1,389	
NEW ENGLAND	29	
Connecticut	0	
Massachusetts	19	Easter (equine) enceph. / Plaque Assay, IFA
Maine	0	
New Hampshire	10	CMV-tissue culture
Rhode Island	0	
Vermont	0	
MIDDLE ATLANTIC	974	
New Jersey	974	HBV / EIA
New York*		
Pennsylvania	0	
EAST NORTH CENTRAL	3,859	
Illinois	2,447	Measles, Mumps, Cytomegalic, Q Fever-IFA; Polio I, II, III & Psittacosis-Complement Fixation; Rubella-EFA/Latex
Indiana	0	
Michigan	68	Rotavirus EIA
Ohio	1,344	Arthropods-EIA, neutralization, cell culture
Wisconsin	0	
WEST NORTH CENTRAL	10,083	
Iowa	2,282	Hepatitis A & B, Rotavirus, Adenovirus-EIA; Others-cell culture
Kansas	0	
Minnesota	0	
Missouri	7,620	Hepatitis-EIA
Nebraska	0	
North Dakota	0	
South Dakota	181	RSV-direct FA
SOUTH ATLANTIC	2,645	
Delaware	0	
District of Columbia	0	
Florida	560	Lymes-EIA & IFA
Georgia	0	
Maryland	154	Psittacosis-isolation in TC
North Carolina	0	
South Carolina	1,931	Parvovirus-EIA-IGG/AGM; Mycoplasma-culture & ID; Special Respiratory Project-culture-EIA
Virginia	0	
West Virginia	0	
EAST SOUTH CENTRAL	0	
Alabama	0	
Kentucky	0	
Mississippi	0	
Tennessee	0	
WEST SOUTH CENTRAL	2,835	
Arkansas	0	
Louisiana	0	
Oklahoma	0	
Texas	2,835	Bird bloods-EIA & HI
MOUNTAIN	408	
Arizona	0	
Colorado	0	
Idaho	0	
Montana	0	
Nevada	0	
New Mexico	390	Rotavirus-EIA; Veterinary diseases: Canine Parvovirus-EFA; Coronavirus, Rotavirus, EVR, IBR, BUD, Canine Distemper-FA
Utah	48	Human Papilloma virus-dot blot
Wyoming	0	
PACIFIC	0	
Alaska	0	
California	0	
Hawaii	0	
Oregon	0	
Washington	0	
TERRITORIES	0	
Guam *		
Puerto Rico *		
Virgin Islands	0	

* New York, Guam and Puerto Rico did not report for fiscal year 1991

FIGURE 10

**State Public Health Laboratory Immunology
Specimens by Category -- 1991**

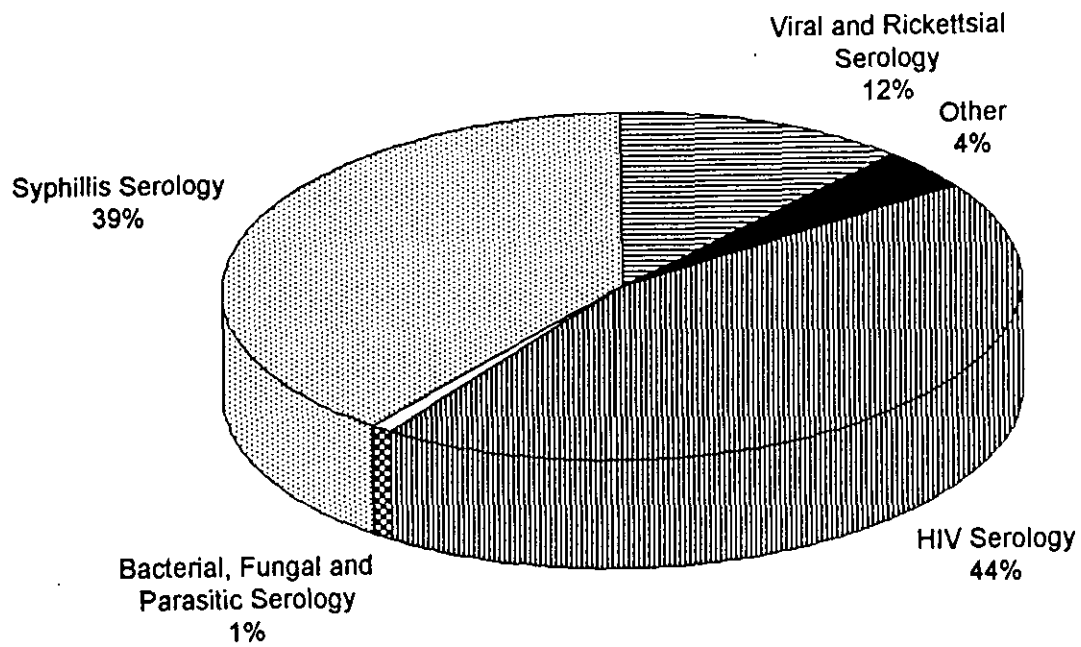


TABLE 21: IMMUNOLOGY SPECIMENS

Lab & Region (1)	Total Immunology Specimens (2)	Syphilis Serology (3)	Bacterial Serology (4)	Fungal Serology (5)	Parasitic Serology (6)	Viral and Rickettsial Serology (7)	HIV Serology (8)	Other (9)
TOTAL	9,170,232	3,568,635	51,242	33,620	29,783	1,080,938	4,080,824	327,180
AVERAGE	187,148	71,333	1,250	1,159	981	22,520	81,616	20,449
NEW ENGLAND	320,915	97,500	11,347	371	3,402	59,843	148,452	0
Connecticut	114,129	21,575	5,170	0	1,794	22,636	62,954	0
Massachusetts	100,987	49,861	1,579	197	434	10,951	37,965	0
Maine	21,705	2,824	182	132	806	7,386	10,375	0
New Hampshire	16,188	2,810	241	11	0	4,480	8,846	0
Rhode Island	55,237	17,673	4,033	0	0	8,948	26,583	0
Vermont	12,669	2,957	142	31	368	7,442	1,729	0
MIDDLE ATLANTIC	321,120	117,055	3,659	1,574	699	13,642	184,521	0
New Jersey	238,938	116,076	1,762	1,574	699	13,305	105,532	0
New York*	0							
Pennsylvania	82,182	979	1,877	0	0	337	78,989	0
EAST NORTH CENTRAL	867,357	234,486	15,628	3,402	3,276	131,319	466,135	13,111
Illinois	106,492	30,219	84	1,717	39	67	65,257	9,109
Indiana	30,146	8,839	241	278	83	2,880	17,825	0
Michigan	330,050	69,346	7,072	1,283	3,059	15,673	233,617	0
Ohio	66,162	10,065	357	124	95	5,781	51,740	0
Wisconsin	332,507	116,017	7,874	0	0	108,918	97,696	4,002
WEST NORTH CENTRAL	496,530	129,588	5,159	4,524	2,651	54,508	294,287	5,613
Iowa	110,755	21,055	5,029	4,289	2,599	24,727	53,056	0
Kansas	112,048	43,216	51	55	0	6,861	58,548	3,319
Minnesota	34,413	31,003	36	174	0	2,046	0	1,154
Missouri	201,319	22,303	0	0	0	8,043	170,973	0
Nebraska	15,307	6,468	0	0	0	3,535	4,458	846
North Dakota	8,546	634	2	4	52	3,446	4,369	39
South Dakota	14,142	4,909	41	2	0	5,850	2,885	455
SOUTH ATLANTIC	3,107,351	1,338,955	9,993	3,053	12,059	271,373	1,266,000	205,918
Delaware	46,976	27,814	0	0	316	5,388	13,458	0
District of Columbia	131,107	80,991	0	0	231	0	39,368	10,517
Florida	866,775	482,173	48	0	803	85,358	298,393	0
Georgia	549,358	284,250	90	0	1,323	26,567	187,969	49,159
Maryland	591,268	126,899	7,780	1,342	6,093	14,443	288,492	146,239
North Carolina	330,570	132,277	1,085	390	2,375	60,310	134,133	0
South Carolina	228,328	70,951	342	1,033	792	35,760	119,447	3
Virginia	294,587	114,285	668	288	126	23,273	155,947	0
West Virginia	68,362	19,315	0	0	0	20,274	28,793	0
EAST SOUTH CENTRAL	903,513	386,383	27	1,674	552	66,155	349,022	99,700
Alabama	277,233	46,948	0	1,337	146	35,505	167,456	25,841
Kentucky	59,672	26,564	25	0	406	22,395	10,282	0
Mississippi	347,006	205,698	2	0	0	0	67,626	73,680
Tennessee	219,602	107,173	0	337	0	8,255	103,858	179
WEST SOUTH CENTRAL	1,403,113	699,763	809	1,840	3,232	270,767	456,702	0
Arkansas	148,949	90,813	34	577	5	292	57,228	0
Louisiana	355,804	80,477	223	100	1,627	141,299	132,078	0
Oklahoma	120,119	45,377	42	0	0	12,915	61,785	0
Texas	778,241	453,096	510	1,163	1,600	116,261	205,611	0
MOUNTAIN	504,498	101,925	1,819	5,176	990	62,090	330,074	2,624
Arizona	79,389	20,438	23	5,032	342	25,603	27,951	0
Colorado	169,583	22,843	100	0	0	2,698	163,942	0
Idaho	21,438	4,284	4	18	68	4,795	12,289	0
Montana	37,676	6,054	575	33	439	13,111	17,464	0
Nevada	29,226	12,538	0	0	0	311	10,753	2,624
New Mexico	69,283	24,543	902	93	141	4,717	37,887	0
Utah	62,121	8,564	15	0	0	3,631	49,911	0
Wyoming	19,782	2,861	0	0	0	7,224	9,897	0
PACIFIC	1,223,754	471,520	3,001	11,996	2,962	151,241	563,020	14
Alaska	40,410	14,394	91	0	103	13,138	12,664	0
California	875,874	395,172	2,287	11,807	2,854	120,035	343,705	14
Hawaii	37,441	8,877	364	0	5	1,624	28,541	0
Oregon	157,877	31,543	108	189	0	15,459	110,578	0
Washington	112,152	21,534	121	0	0	985	89,512	0
TERRITORIES	22,081	19,460	0	10	0	0	2,611	0
Guam*	0							
Puerto Rico*	0							
Virgin Islands	22,081	19,460	0	10	0	0	2,611	0

TABLE 22: IMMUNOLOGY - Syphillis Serology Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure											
		VDRL (3)	RPR (4)	ART (5)	USR (6)	RST (7)	FTA-ABS (8)	AFTA-ABS (9)	FTA-ABS (IgM) (10)	DFATP (11)	MHA-TP (12)	Dark-field (13)	Other (14)
TOTAL	3,566,835	46	39	0	3	2	42	0	4	8	23	4	
AVERAGE	99,934												
NEW ENGLAND	97,500												
Connecticut	21,575	X					X						
Massachusetts	49,861	X	X				X				X		
Maine	2,824	X	X				X						
New Hampshire	2,610	X	X				X			X			
Rhode Island	17,673	X	X				X						
Vermont	2,957	X	X				X			X			
MIDDLE ATLANTIC	117,055												
New Jersey	116,076	X	X				X				X		
New York*													
Pennsylvania	979	X	X				X						
EAST NORTH CENTRAL	234,486												
Illinois	30,219	X	X				X						
Indiana	8,839	X	X				X						
Michigan	69,348				X		X			X	X		VDRL (CSF)
Ohio	10,065	X					X						
Wisconsin	116,017	X					X		X		X	X	
WEST NORTH CENTRAL	129,588												
Iowa	21,055	X					X			X			
Kansas	43,216	X	X			X	X						
Minnesota	31,003	X			X		X			X			
Missouri	22,303	X	X				X				X		
Nebraska	6,468		X								X		
North Dakota	634	X				X	X		X			X	
South Dakota	4,909	X	X								X		
SOUTH ATLANTIC	1,338,955												
Delaware	27,814	X	X								X		
District of Columbia	80,991		X				X						
Florida	482,173	X	X				X		X		X		
Georgia	284,250	X	X										FTA-ABS (DS)
Maryland	126,899	X	X				X		X	X			
North Carolina	132,277	X	X				X			X	X		
South Carolina	70,951	X	X				X				X		
Virginia	114,285	X	X				X				X		
West Virginia	19,315		X								X		
EAST SOUTH CENTRAL	386,383												
Alabama	46,948	X	X								X		
Kentucky	26,564	X	X				X						
Mississippi	205,698	X	X				X						
Tennessee	107,173	X	X				X				X		
WEST SOUTH CENTRAL	699,783												
Arkansas	90,813	X	X				X			X	X	X	
Louisiana	80,477	X					X				X		
Oklahoma	45,377	X	X				X						
Texas	453,096	X	X				X				X		
MOUNTAIN	101,925												
Arizona	20,438	X					X				X		
Colorado	22,843	X	X				X						
Idaho	4,284	X			X		X						
Montana	6,054	X					X						
Nevada	12,538	X	X				X				X		
New Mexico	24,543	X	X				X				X		
Utah	8,564	X	X				X						
Wyoming	2,661	X	X				X						
PACIFIC	471,520												
Alaska	14,394	X	X				X						
California	395,172	X	X				X				X	X	
Hawaii	8,877	X	X				X						
Oregon	31,543	X	X				X						
Washington	21,534	X	X								X		
TERRITORIES	19,480												
Guam*													
Puerto Rico*													
Virgin Islands	19,480												

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 23: IMMUNOLOGY - Bacterial Serology Specimens

Lab & Region (1)	Number of Specimens (2)	Type of Test					
		Brucellosis (3)	Tularemia (4)	Streptococcal Antibodies (5)	Leptospirosis (6)	Salmonellosis (7)	Other (8)
TOTAL	51,242	30	31	28	14	7	
AVERAGE	1,250						
NEW ENGLAND	11,347						
Connecticut	5,170			X			Lyme disease
Massachusetts	1,579	X	X	X	X		Pertussis
Maine	182						Legionella AB, Legionella AG
New Hampshire	241			X			Lyme disease
Rhode Island	4,033	X		X		X	Lyme disease
Vermont	142	X	X	X			
MIDDLE ATLANTIC	3,659						
New Jersey	1,782	X	X	X	X		Lyme disease
New York*							
Pennsylvania	1,877			X			Lyme disease
EAST NORTH CENTRAL	15,628						
Illinois	64	X	X	X			Lyme disease
Indiana	241	X	X	X			
Michigan	7,072		X	X			Pertussis DFA; Pertussis EIA, serum aggl.; Lyme Borreliosis EIA; Lyme borreliosis (Tick); Legionella DFA
Ohio	357			X			Lymes IFA
Wisconsin	7,874	X	X	X		X	Lyme
WEST NORTH CENTRAL	5,159						
Iowa	5,029	X	X	X	X		Lyme disease
Kansas	51	X	X	X			
Minnesota	36	X	X				
Missouri	0						
Nebraska	0						
North Dakota	2	X	X			X	Weil-Felix
South Dakota	41	X	X				
SOUTH ATLANTIC	9,993						
Delaware	0						
District of Columbia	0						
Florida	48			X	X		
Georgia	90			X			
Maryland	7,760	X	X	X	X	X	Diph Pertussis, Lyme, Streptoco enzymes, Proteus reactions
North Carolina	1,085	X	X	X			
South Carolina	342	X	X	X	X		
Virginia	668	X	X	X	X		Streptococcus, Lyme
West Virginia	0						
EAST SOUTH CENTRAL	27						
Alabama	0						
Kentucky	25	X	X	X		X	
Mississippi	2	X	X				
Tennessee	0						
WEST SOUTH CENTRAL	809						
Arkansas	34	X	X				Weil-Felix (OX-2 OX-19 OX-K), Legionella
Louisiana	223	X	X		X		
Oklahoma	42	X	X				
Texas	510	X	X	X	X		
MOUNTAIN	1,819						
Arizona	23						
Colorado	100	X	X	X			
Idaho	4	X	X				
Montana	575	X	X	X	X		Borreliosis
Nevada	0						
New Mexico	902	X	X	X	X		Plague
Utah	15		X				B. Burgdorferi
Wyoming	0						
PACIFIC	3,001						
Alaska	91	X	X			X	
California	2,287	X	X	X	X	X	Lyme disease
Hawaii	394			X	X		
Oregon	108	X	X		X		
Washington	121	X	X	X			
TERRITORIES	0						
Guam*							
Puerto Rico*							
Virgin Islands	0						

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 24: IMMUNOLOGY - Fungal Serology Specimens

Lab & Region (1)	Number of Specimens (2)	Type of Test						
		Blastomycosis (3)	Coccidioidomycosis (4)	Histoplasmosis (5)	Cryptococcosis (6)	Aspergillosis (7)	Candidiasis (8)	Other (9)
TOTAL	33,620	23	26	26	17	19	6	
AVERAGE	1,121							
NEW ENGLAND	371							
Connecticut	0							
Massachusetts	197	X	X	X	X	X	X	
Maine	132				X	X		
New Hampshire	11				X			
Rhode Island	0							
Vermont	31		X	X				
MIDDLE ATLANTIC	1,574							
New Jersey	1,574	X	X	X	X	X	X	
New York*								
Pennsylvania	0							
EAST NORTH CENTRAL	3,402							
Illinois	1,717	X	X	X		X		
Indiana	278	X	X			X		
Michigan	1,283	X	X	X				
Ohio	124	X	X	X	X	X		
Wisconsin	0							
WEST NORTH CENTRAL	4,524							
Iowa	4,289	X	X	X	X			
Kansas	55		X	X				
Minnesota	174	X	X	X	X	X	X	Farmer's lung
Missouri	0							
Nebraska	0							
North Dakota	4	X	X	X		X		
South Dakota	2	X	X	X		X		
SOUTH ATLANTIC	3,053							
Delaware	0							
District of Columbia	0							
Florida	0							
Georgia	0							
Maryland	1,342	X	X	X				
North Carolina	390	X	X	X	X	X		
South Carolina	1,033	X	X	X	X	X	X	
Virginia	288							
West Virginia	0							
EAST SOUTH CENTRAL	1,674							
Alabama	1,337	X	X	X		X		
Kentucky	0							
Mississippi	0							
Tennessee	337	X	X	X	X	X	X	
WEST SOUTH CENTRAL	1,840							
Arkansas	577	X	X	X	X			
Louisiana	100	X	X	X	X	X		
Oklahoma	0							
Texas	1,163	X	X	X	X	X		
MOUNTAIN	5,176							
Arizona	5,032		X	X				
Colorado	0							
Idaho	18	X	X	X		X		
Montana	33	X	X	X	X	X		
Nevada	0							
New Mexico	83	X	X	X	X	X		
Utah	0							
Wyoming	0							
PACIFIC	11,006							
Alaska	0							
California	11,807	X	X	X	X			
Hawaii	0							
Oregon	189	X	X	X	X			
Washington	0							
TERRITORIES	10							
Guam								
Puerto Rico*								
Virgin Islands	10			X		X	X	

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 25: IMMUNOLOGY - Parasitic Serology Specimens

Lab & Region (1)	Number of Specimens (2)	Type of Test					Other (8)
		Trichinosis (3)	Toxoplasmosis (4)	Amebiasis (5)	Echinococcosis (6)	Trypanosomiasis (7)	
TOTAL	28,793	7	30	10	3	1	
AVERAGE	961						
NEW ENGLAND	3,402						
Connecticut	1,794		X				
Massachusetts	434	X		X	X	X	
Maine	808		X				
New Hampshire	0						
Rhode Island	0						
Vermont	368		X				
MIDDLE ATLANTIC	669						
New Jersey	669	X	X	X			
New York*							
Pennsylvania	0						
EAST NORTH CENTRAL	3,276						
Illinois	39		X				
Indiana	83		X				
Michigan	3,059		X				Toxoplasmosis IgM 48
Ohio	95		X				
Wisconsin	0						
WEST NORTH CENTRAL	2,651						
Iowa	2,599	X	X	X			
Kansas	0						
Minnesota	0						
Missouri	0						
Nebraska	0						
North Dakota	52		X				
South Dakota	0						
SOUTH ATLANTIC	12,059						
Delaware	316		X				
District of Columbia	231		X				
Florida	803		X				
Georgia	1,323		X				
Maryland	8,093		X				
North Carolina	2,375		X	X			
South Carolina	792	X	X	X	X		
Virginia	128	X	X				
West Virginia	0						
EAST SOUTH CENTRAL	552						
Alabama	148		X				
Kentucky	408		X				
Mississippi	0						
Tennessee	0						
WEST SOUTH CENTRAL	3,232						
Arkansas	5		X	X			
Louisiana	1,627		X	X			
Oklahoma	0						
Texas	1,600		X	X			
MOUNTAIN	990						
Arizona	342		X				
Colorado	0						
Idaho	68		X				
Montana	439	X	X	X	X		
Nevada	0						
New Mexico	141		X				Canine Heartworm
Utah	0						
Wyoming	0						
PACIFIC	2,962						
Alaska	103		X				
California	2,854	X	X	X			Miscellaneous
Hawaii	5		X				
Oregon	0						
Washington	0						
TERRITORIES	0						
Guam*							
Puerto Rico*							
Virgin Islands	0						

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 26: IMMUNOLOGY - Viral and Rickettsial Serology Specimens

Lab & Region	Number of Specimens	Type of Test					Other
		Respiratory	CNS	STD (Includes Herpes)	Exanthem		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
TOTAL	1,080,938	39	37	38	40		
AVERAGE	22,520						
NEW ENGLAND	59,843						
Connecticut	22,836	X	X	X	X		
Massachusetts	10,951	X	X	X	X	Parvovirus B19	
Maine	7,386	X	X	X	X		
New Hampshire	4,480	X	X	X	X	Respiratory, Rubella, Rubeola, VZ, Lyme, Influenza A, B	
Rhode Island	6,948					Sera	
Vermont	7,442	X	X	X	X	Hepatitis B	
MIDDLE ATLANTIC	13,642						
New Jersey	13,305	X	X	X	X		
New York*							
Pennsylvania	337					Serum	
EAST NORTH CENTRAL	131,319						
Illinois	87		X	X	X		
Indiana	2,880	X	X	X	X	Hepatitis	
Michigan	15,673	X	X	X	X	CMV, HBsAg, Anti-HBs, Anti-HBc, RMSF, Typhus Group, Q Fever, Mumps	
Ohio	5,781	X	X	X	X		
Wisconsin	106,918	X	X	X	X	Mumps, Psittacosis, Rickettsia, Rubella, Hepatitis, EBV, Cytomegalovirus	
WEST NORTH CENTRAL	54,508						
Iowa	24,727	X	X	X	X	Enterovirus, CMV, Q Fever, Rocky Mtn Spotted Fever, Typhus, Heterophile	
Kansas	8,861	X	X	X	X		
Minnesota	2,048	X	X	X	X	Transplant	
Missouri	8,043	X	X	X	X		
Nebraska	3,535					Rubella (premarital, prenatal, diagnostic), Mumps, Rubeola	
North Dakota	3,446	X	X	X	X	Rubella immune status	
South Dakota	5,850	X		X	X	Hepatitis A, Hepatitis B (core Ab, surface Ag, B-E Ag, B-E Ab)	
SOUTH ATLANTIC	271,373						
Delaware	5,388	X	X	X	X		
District of Columbia	0						
Florida	85,358	X	X	X	X	Hepatitis A, Hepatitis B sAg, Hepatitis B AB	
Georgia	26,567	X	X	X	X	CMV, EBV, Hepatitis B	
Maryland	14,443	X	X	X	X		
North Carolina	60,310	X	X	X	X		
South Carolina	35,760	X		X	X	Serum	
Virginia	23,273	X	X				
West Virginia	20,274					Chlamydia, Arbovirus (WE, EE, SL, California), Hepatitis, HSV, Rubella	
EAST SOUTH CENTRAL	66,155						
Alabama	35,505	X	X	X	X	Cytomegalovirus, Enterovirus	
Kentucky	22,395	X	X	X	X	Hepatitis B surf. antibody/antigen, hepatitis B anti-core, Rubella, other virology, IFA Rickettsia	
Mississippi	0						
Tennessee	8,255	X	X	X	X		
WEST SOUTH CENTRAL	270,767						
Arkansas	292	X	X	X	X		
Louisiana	141,269	X	X	X	X		
Oklahoma	12,915					Hepatitis B	
Texas	116,281	X	X	X	X	Lyme disease	
MOUNTAIN	62,090						
Arizona	25,603	X	X	X	X	Catarrh	
Colorado	2,698	X	X		X	Hepatitis	
Idaho	4,795	X	X	X	X	Hepatitis B Ag	
Montana	13,111	X	X	X	X	Hepatitis, Chronic Fatigue	
Nevada	311					Serum-EIA	
New Mexico	4,717	X	X	X	X		
Utah	3,631				X	Rocky Mtn Spotted Fever, Typhus, Hepatitis B, Arbovirus	
Wyoming	7,224					RMSF, Hep B sAb sAg, Hep A Ab IgM, Rubella, Rubeola	
PACIFIC	151,241						
Alaska	13,138	X	X	X	X	Hepatitis, all	
California	120,035	X	X	X	X	Immunity/premarital; Chick sera for arbovirus	
Hawaii	1,624	X	X	X	X	Hepatitis B	
Oregon	15,459	X	X	X	X	Parvo B19 Ab-IgG IgM	
Washington	685	X	X	X	X		
TERRITORIES	0						
Guam*							
Puerto Rico*							
Virgin Islands	0						

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 27: IMMUNOLOGY - HIV Serology Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure			
		EIA (3)	IFA (4)	Western Blot (5)	Other (6)
TOTAL	4,080,824	48	15	44	
AVERAGE	81,818				
NEW ENGLAND	148,452				
Connecticut	62,954	X	X	X	
Massachusetts	37,965	X	X	X	
Maine	10,375	X	X	X	
New Hampshire	8,848	X		X	
Rhode Island	28,583	X	X	X	
Vermont	1,729	X		X	
MIDDLE ATLANTIC	184,521				
New Jersey	105,532	X		X	
New York*					
Pennsylvania	78,989	X		X	
EAST NORTH CENTRAL	486,135				
Illinois	65,257	X		X	
Indiana	17,825	X		X	
Michigan	233,617	X	X	X	Neonatal DBS EIA, Neonatal DBS WB
Ohio	51,740	X		X	
Wisconsin	97,898				
WEST NORTH CENTRAL	294,287				
Iowa	53,058	X	X	X	Agglutination
Kansas	58,546	X	X	X	
Minnesota	0				
Missouri	170,973	X		X	
Nebraska	4,458	X		X	
North Dakota	4,369	X	X		
South Dakota	2,865	X			
SOUTH ATLANTIC	1,266,000				
Delaware	13,458	X		X	
District of Columbia	39,368	X		X	
Florida	298,393	X	X	X	
Georgia	187,969	X		X	
Maryland	288,492	X	X	X	Antigen EIA, Flow cytometry, HTLV-1 EIA/WB/IFA
North Carolina	134,133	X		X	
South Carolina	119,447	X		X	Beta-2 microglobulin, synthetic peptide EIA
Virginia	155,947	X		X	
West Virginia	28,793	X		X	Miniblot
EAST SOUTH CENTRAL	349,022				
Alabama	167,458	X		X	Includes CDC seroprevalence, Survey samples
Kentucky	10,282	X		X	
Mississippi	67,626	X		X	
Tennessee	103,658	X		X	
WEST SOUTH CENTRAL	456,702				
Arkansas	57,228	X	X	X	
Louisiana	132,078	X		X	
Oklahoma	61,785	X		X	
Texas	205,611	X		X	Neonate screen EIA, neonate screen Western Blot
MOUNTAIN	330,074				
Arizona	27,951	X		X	
Colorado	163,942	X		X	
Idaho	12,269	X	X		
Montana	17,484	X		X	
Nevada	10,753	X		X	
New Mexico	37,887	X	X	X	HIV Antigen EIA
Utah	49,911	X		X	
Wyoming	9,897	X		X	DBS
PACIFIC	583,020				
Alaska	12,684	X			
California	343,705	X	X	X	RIPA
Hawaii	28,541	X		X	
Oregon	110,578	X	X	X	
Washington	89,512	X		X	
TERRITORIES	2,611				
Guam *					
Puerto Rico *					
Virgin Islands	2,611				

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 28: IMMUNOLOGY - Other Serology Specimens

Lab & Region (1)	Number of Specimens (2)	Disease/Type of procedure (3)
TOTAL	327,180	
AVERAGE	20,449	
NEW ENGLAND	0	
Connecticut	0	
Massachusetts	0	
Maine	0	
New Hampshire	0	
Rhode Island	0	
Vermont	0	
MIDDLE ATLANTIC	0	
New Jersey	0	
New York*		
Pennsylvania	0	
EAST NORTH CENTRAL	13,111	
Illinois	9,109	Arbor-birds, arbor-human-Hemagglutinin inhibition
Indiana	0	
Michigan	0	
Ohio	0	
Wisconsin	4,002	HTLV I, II-EIA, Western Blot, Anti Thyroid antibodies-Boydins Passive Hemagglutination Inhibitor, Antinuclear antibodies-IFA; Cold Agglutinins- Cell Surface Markers-Flow Cytometry
WEST NORTH CENTRAL	5,813	
Iowa	0	
Kansas	3,319	HBV-HBsAg, EIA
Minnesota	1,154	Rubella-EIA, IgG, IgM
Missouri	0	
Nebraska	846	Hepatitis-EIA
North Dakota	39	Lyme disease-IFA Ig & IgM
South Dakota	455	Lyme-EIA
SOUTH ATLANTIC	205,918	
Delaware	0	
District of Columbia	10,517	Herpes, Rubella, CMV, Hepatitis A, B, measles, VZV-EIA
Florida	0	
Georgia	49,159	Rubella-RUBASCAN
Maryland	146,239	Mumps, Rubella, Varicella, Hepatitis A, B, C3, C4 Total C RF-EIA; Rubella-Latex & EIA IgM
North Carolina	0	
South Carolina	3	HTLV I-EIA
Virginia	0	
West Virginia	0	
EAST SOUTH CENTRAL	99,700	
Alabama	25,841	Hepatitis A & B-EIA
Kentucky	0	
Mississippi	73,680	Hepatitis, pregnancy, Rubella, measles-EIA
Tennessee	179	Legionella-IFA
WEST SOUTH CENTRAL	0	
Arkansas	0	
Louisiana	0	
Oklahoma	0	
Texas	0	
MOUNTAIN	2,624	
Arizona	0	
Colorado	0	
Idaho	0	
Montana	0	Hepatitis-HBs AG (EIA), anti-HBs (RIA), anti-HAV (EIA), IgM
Nevada	2,624	Rubella- Latex agglutination; Rubella-Indirect FA; Hepatitis B-EIA; other-various
New Mexico	0	
Utah	0	
Wyoming	0	
PACIFIC	14	
Alaska	0	
California	14	Asbestos
Hawaii	0	
Oregon	0	
Washington	0	
TERRITORIES	0	
Guam *		
Puerto Rico *		
Virgin Islands	0	

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 29: HEMATOLOGY / IMMUNOHEMATOLOGY SPECIMENS

Lab & Region (1)	Total Hematology/Immunochemistry Specimens (2)	Number of Specimens	
		Hematology (3)	Immunochemistry (4)
TOTAL	848,996	475,199	371,797
AVERAGE	36,826	31,680	19,568
NEW ENGLAND	3,354	3,354	0
Connecticut	3,354	3,354	0
Massachusetts	0	0	0
Maine	0	0	0
New Hampshire	0	0	0
Rhode Island	0	0	0
Vermont	0	0	0
MIDDLE ATLANTIC	20	20	0
New Jersey	0	0	0
New York*			
Pennsylvania	20	20	0
EAST NORTH CENTRAL	11,485	0	11,485
Illinois	0	0	0
Indiana	0	0	0
Michigan	0	0	0
Ohio	0	0	0
Wisconsin	11,485	0	11,485
WEST NORTH CENTRAL	12,615	12,615	0
Iowa	0	0	0
Kansas	0	0	0
Minnesota	0	0	0
Missouri	9,775	9,775	0
Nebraska	0	0	0
North Dakota	0	0	0
South Dakota	2,840	2,840	0
SOUTH ATLANTIC	339,221	211,108	128,113
Delaware	3,690	3,633	157
District of Columbia	52,798	42,812	9,984
Florida	54,045	41,712	12,333
Georgia	15,475	0	15,475
Maryland	140,909	117,980	22,929
North Carolina	23,804	735	23,069
South Carolina	30,393	4,036	26,357
Virginia	17,809	0	17,809
West Virginia	0	0	0
EAST SOUTH CENTRAL	82,267	18,936	63,331
Alabama	23,455	0	23,455
Kentucky	8,638	0	8,638
Mississippi	50,174	18,936	31,238
Tennessee	0	0	0
WEST SOUTH CENTRAL	90,560	30,037	60,523
Arkansas	8,722	19	8,703
Louisiana	11,451	0	11,451
Oklahoma	6,265	0	6,265
Texas	64,122	30,018	34,104
MOUNTAIN	434	0	434
Arizona	0	0	0
Colorado	0	0	0
Idaho	0	0	0
Montana	0	0	0
Nevada	0	0	0
New Mexico	0	0	0
Utah	0	0	0
Wyoming	434	0	434
PACIFIC	222,040	139,129	82,911
Alaska	0	0	0
California	222,040	139,129	82,911
Hawaii	0	0	0
Oregon	0	0	0
Washington	0	0	0
TERRITORIES	85,000	60,000	25,000
Guam *			
Puerto Rico *			
Virgin Islands	85,000	60,000	25,000

* New York, Guam and Puerto Rico did not report for fiscal year 1991

FIGURE 11

**State Public Health Laboratory Chemistry
Specimens by Category -- 1991**

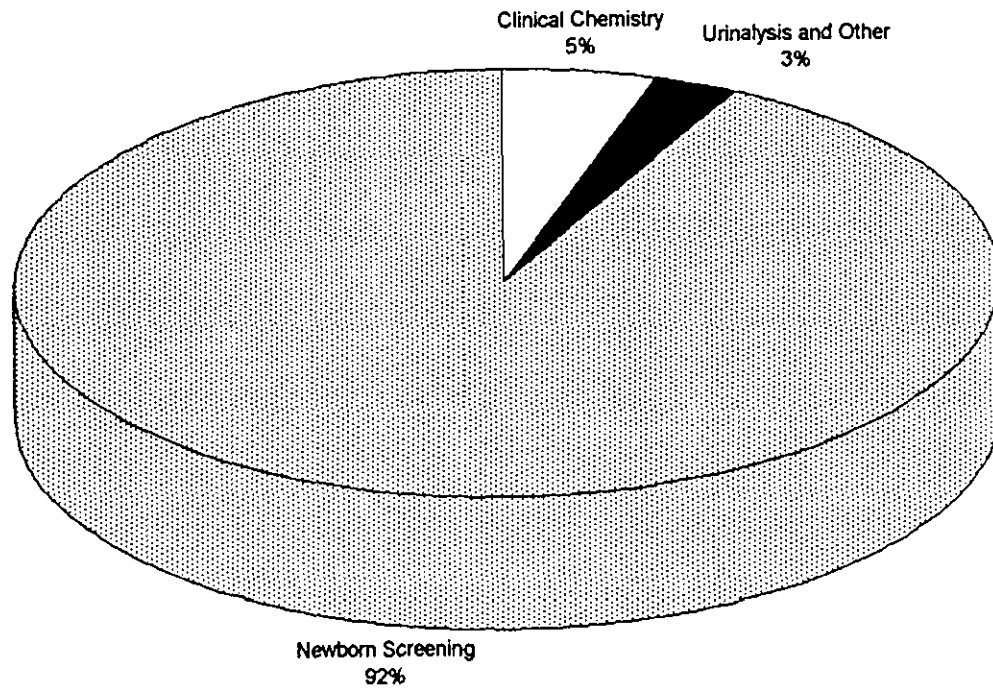


TABLE 30: CLINICAL CHEMISTRY SPECIMENS

Lab & Region (1)	Total Clinical Chemistry Specimens (2)	Number of Specimens			
		Clinical Chemistry (3)	Urinalysis (4)	Newborn Screening (5)	Other Clinical Chemistry (7)
TOTAL	18,941,713	986,120	86,382	17,438,147	431,064
AVERAGE	497,033	51,901	8,638	425,321	30,790
NEW ENGLAND	667,539	0	0	866,302	1,237
Connecticut	150,565	0	0	149,328	1,237
Massachusetts	667,931	0	0	667,931	0
Maine	17,148	0	0	17,148	0
New Hampshire	0	0	0	0	0
Rhode Island	31,895	0	0	31,895	0
Vermont	0	0	0	0	0
MIDDLE ATLANTIC	575,842	632	12	574,478	720
New Jersey	132,191	382	0	131,809	0
New York*	0	0	0	0	0
Pennsylvania	443,651	250	12	442,689	720
EAST NORTH CENTRAL	4,048,882	6,589	0	4,042,293	0
Illinois	1,350,486	0	0	1,350,486	0
Indiana	0	0	0	0	0
Michigan	1,095,823	0	0	1,095,823	0
Ohio	1,002,645	0	0	1,002,645	0
Wisconsin	599,928	6,589	0	593,339	0
WEST NORTH CENTRAL	1,340,790	11,914	2,076	1,277,743	49,057
Iowa	397,301	0	0	349,072	48,229
Kansas	52,000	0	0	52,000	0
Minnesota	271,527	0	0	271,527	0
Missouri	575,240	0	0	575,240	0
Nebraska	12,025	0	0	12,025	0
North Dakota	17,879	0	0	17,879	0
South Dakota	14,818	11,914	2,076	0	828
SOUTH ATLANTIC	3,816,042	494,902	55,558	3,006,759	58,823
Delaware	5,174	3,660	1,514	0	0
District of Columbia	66,123	30,804	23,711	11,608	0
Florida	499,834	159,236	909	309,709	29,980
Georgia	272,069	28,904	478	242,687	0
Maryland	1,777,839	245,459	28,777	1,502,975	628
North Carolina	528,142	8,250	0	521,892	0
South Carolina	227,506	18,567	169	191,877	16,893
Virginia	132,421	2,022	0	119,788	10,611
West Virginia	108,934	0	0	106,223	711
EAST SOUTH CENTRAL	999,652	160,302	3,320	836,030	0
Alabama	409,114	29,986	3,320	375,808	0
Kentucky	288,603	20,637	0	267,966	0
Mississippi	136,811	109,879	0	27,132	0
Tennessee	165,124	0	0	165,124	0
WEST SOUTH CENTRAL	4,331,842	57,456	0	4,282,562	11,824
Arkansas	139,350	2,167	0	125,359	11,824
Louisiana	168,829	2,162	0	166,667	0
Oklahoma	182,314	0	0	182,314	0
Texas	3,841,349	53,127	0	3,788,222	0
MOUNTAIN	1,642,364	3,325	416	1,638,620	3
Arizona	0	0	0	0	0
Colorado	1,276,131	0	0	1,276,131	0
Idaho	224	0	0	224	0
Montana	48,180	0	0	48,180	0
Nevada	419	0	416	0	3
New Mexico	113,331	0	0	113,331	0
Utah	204,079	3,325	0	200,754	0
Wyoming	0	0	0	0	0
PACIFIC	1,237,898	0	0	933,360	304,538
Alaska	12,000	0	0	12,000	0
California	896,000	0	0	596,000	300,000
Hawaii	0	0	0	0	0
Oregon	190,562	0	0	190,562	0
Washington	139,306	0	0	134,788	4,538
TERRITORIES	280,862	251,000	25,000	0	4,862
Guam *	0	0	0	0	0
Puerto Rico *	0	0	0	0	0
Virgin Islands	280,862	251,000	25,000	0	4,862

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 31: CLINICAL CHEMISTRY -

Clinical Chemistry Specimens and Types of Tests

Lab & Region	Number of Specimens	Type of test														
		Glucose	Cholesterol	BUN	Uric Acid	Trans-aminases	Alkaline Phosphatase	Total Proteins	Serum Iron	Iron Binding Capacity	Triglycerides	Lactic Acid	Bilirubin	T4, T3, T3 Uptake	Sodium	Potassium
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
TOTAL	986,120	16	13	13	13	12	12	9	8	8	11	4	14	7	11	11
AVERAGE	51,901															
NEW ENGLAND	0															
Connecticut	0															
Massachusetts	0															
Maine	0															
New Hampshire	0															
Rhode Island	0															
Vermont	0															
MIDDLE ATLANTIC	832															
New Jersey	382															
New York*																
Pennsylvania	250	X	X								X					
EAST NORTH CENTRAL	6,589															
Illinois	0															
Indiana	0															
Michigan	0															
Ohio	0															
Wisconsin	6,589	X	X	X	X	X	X	X	X	X	X		X		X	X
WEST NORTH CENTRAL	11,914															
Iowa	0															
Kansas	0															
Minnesota	0															
Missouri	0															
Nebraska	0															
North Dakota	0															
South Dakota	11,914	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SOUTH ATLANTIC	494,902															
Delaware	3,660	X		X												X
District of Columbia	30,804	X	X		X			X	X	X	X		X	X		X
Florida	159,236	X	X	X	X	X	X	X	X	X			X		X	X
Georgia	28,904	X	X	X	X	X	X	X	X	X			X		X	X
Maryland	245,459	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
North Carolina	6,250								X	X	X			X		
South Carolina	18,567	X	X	X	X	X	X	X			X		X		X	X
Virginia	2,022					X							X			
West Virginia	0															
EAST SOUTH CENTRAL	180,302															
Alabama	29,986	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Kentucky	20,637	X	X	X	X	X	X	X			X		X	X	X	X
Mississippi	109,679	X	X	X	X	X	X	X			X		X		X	X
Tennessee	0															
WEST SOUTH CENTRAL	57,456															
Arkansas	2,167	X		X	X	X	X						X			
Louisiana	2,162	X		X	X	X	X						X			
Oklahoma	0															
Texas	53,127	X														
MOUNTAIN	3,325															
Arizona	0															
Colorado	0															
Idaho	0															
Montana	0															
Nevada	0															
New Mexico	0															
Utah	3,325		X													
Wyoming	0															
PACIFIC	0															
Alaska	0															
California	0															
Hawaii	0															
Oregon	0															
Washington	0															
TERRITORIES	251,000															
Guam*																
Puerto Rico*																
Virgin Islands	251,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 31: CLINICAL CHEMISTRY -

Clinical Chemistry Specimens and Types of Tests

Type of test								Other (25)
Phos- phorous (18)	Calcium (19)	Crea- tinine (20)	Acid Phos- phatase (21)	Albumin (22)	Chloride (23)	LDH (24)		
7	8	13	4	8	10	9		
NEW ENGLAND								
Connecticut								Tay Sachs
Massachusetts								
Maine								
New Hampshire								
Rhode Island								
Vermont								
MIDDLE ATLANTIC								
New Jersey			X					Chromium in Urine
New York*								
Pennsylvania								
EAST NORTH CENTRAL								
Illinois								
Indiana								
Michigan								
Ohio								
Wisconsin	X	X	X		X	X	X	HDL Cholesterol, GGT
WEST NORTH CENTRAL								
Iowa								
Kansas								
Minnesota								
Missouri								
Nebraska								
North Dakota								
South Dakota	X	X	X	X	X	X	X	
SOUTH ATLANTIC								
Delaware						X		
District of Columbia								
Florida		X	X	X	X	X	X	SGOT, SGPT
Georgia			X					Bilirubin, Direct, CO ₂ , CPK, Ferritin, GGTP, Glycohemoglobin, HDL
Maryland	X	X	X	X	X	X	X	Cholesterol, LDL Cholesterol, Magnesium, Preg. test, Qual., Globulin, AVG Ratio, Venipuncture, FEP, TSH
North Carolina								Hemoglobin alc.
South Carolina	X	X	X		X	X	X	Cholinesterase, creatine kinase, Gamma glutamyl transpeptidase
Virginia								
West Virginia								
EAST SOUTH CENTRAL								
Alabama	X	X	X		X	X	X	TSH, Ferritin, B-2 Microglobulin, Theophylline, Phenytoin, Phenobarbital, CO ₂ , Glycosylated Hemoglobin, GGTP
Kentucky	X	X	X		X	X	X	Lithium, GGTP, amylase, CPK, HDL
Mississippi			X			X	X	Anticonvulsants, HDL-Cholesterol
Tennessee								
WEST SOUTH CENTRAL								
Arkansas			X					
Louisiana			X					
Oklahoma								
Texas								Erythrocyte Protoporphyrin
MOUNTAIN								
Arizona								
Colorado								
Idaho								
Montana								
Nevada								
New Mexico								
Utah								HDL-Cholesterol
Wyoming								
PACIFIC								
Alaska								
California								
Hawaii								
Oregon								
Washington								
TERRITORIES								
Guam *								
Puerto Rico *								
Virgin Islands	X	X	X	X	X	X	X	PSA, IGE, Ferritin, B12, and Folate, Rast

TABLE 32: CLINICAL CHEMISTRY - Urinalysis Specimens

Lab & Region (1)	Number of Specimens (2)	Type of procedure			
		Routine (3)	Microscopic (4)	Pregnancy Tests (5)	Other (6)
TOTAL	86,382	10	10	3	
AVERAGE	8,638				
NEW ENGLAND	0				
Connecticut	0				
Massachusetts	0				
Maine	0				
New Hampshire	0				
Rhode Island	0				
Vermont	0				
MIDDLE ATLANTIC	12				
New Jersey	0				
New York*					
Pennsylvania	12	X	X		
EAST NORTH CENTRAL	0				
Illinois	0				
Indiana	0				
Michigan	0				
Ohio	0				
Wisconsin	0				
WEST NORTH CENTRAL	2,076				
Iowa	0				
Kansas	0				
Minnesota	0				
Missouri	0				
Nebraska	0				
North Dakota	0				
South Dakota	2,076	X	X	X	
SOUTH ATLANTIC	55,558				
Delaware	1,514	X	X		
District of Columbia	23,711	X	X	X	
Florida	909	X	X		
Georgia	478	X	X		
Maryland	28,777	X	X		
North Carolina	0				
South Carolina	189				
Virginia	0				
West Virginia	0				
EAST SOUTH CENTRAL	3,320				
Alabama	3,320	X	X		
Kentucky	0				
Mississippi	0				
Tennessee	0				
WEST SOUTH CENTRAL	0				
Arkansas	0				
Louisiana	0				
Oklahoma	0				
Texas	0				
MOUNTAIN	418				
Arizona	0				
Colorado	0				
Idaho	0				
Montana	0				
Nevada	418	X	X		
New Mexico	0				
Utah	0				
Wyoming	0				
PACIFIC	0				
Alaska	0				
California	0				
Hawaii	0				
Oregon	0				
Washington	0				
TERRITORIES	25,000				
Guam*					
Puerto Rico*					
Virgin Islands	25,000	X	X	X	

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 33: CLINICAL CHEMISTRY - Newborn Screening

Lab & Region (1)	Number of Specimens (2)	Type of assay							
		PKU (3)	Tyrosinemia (4)	Galactosemia (5)	MSUD (6)	Hypothyroidism (7)	Amino Acid Chromatography (8)	Homocystinuria (9)	Maternal PKU (10)
TOTAL	17,438,147	38	6	30	9	37	4	9	9
AVERAGE	425,321								
NEW ENGLAND	868,302								
Connecticut	148,328	X		X		X			
Massachusetts	667,931	X		X	X	X	X	X	
Maine	17,148	X		X		X		X	
New Hampshire	0								
Rhode Island	31,895	X	X				X		
Vermont	0								
MIDDLE ATLANTIC	574,478								
New Jersey	131,809	X		X		X	X		
New York*									
Pennsylvania	442,669	X				X			X
EAST NORTH CENTRAL	4,042,293								
Illinois	1,350,488	X		X		X			
Indiana	0								
Michigan	1,095,823	X		X	X	X			
Ohio	1,002,845	X		X		X		X	
Wisconsin	593,339	X		X	X	X		X	
WEST NORTH CENTRAL	1,277,743								
Iowa	348,072	X		X	X	X			
Kansas	52,000	X		X		X			
Minnesota	271,527	X		X		X			
Missouri	575,240	X		X		X			X
Nebraska	12,025	X		X		X			
North Dakota	17,879	X		X		X			X
South Dakota	0								
SOUTH ATLANTIC	3,006,759								
Delaware	0								
District of Columbia	11,608					X			
Florida	309,709	X		X		X			
Georgia	242,687	X	X	X	X	X		X	
Maryland	1,502,975	X	X	X	X	X		X	X
North Carolina	521,892	X		X		X			X
South Carolina	191,877	X				X			
Virginia	119,788	X		X	X	X		X	X
West Virginia	108,223	X		X		X			
EAST SOUTH CENTRAL	838,030								
Alabama	375,808	X				X	X		X
Kentucky	267,966	X		X		X			
Mississippi	27,132								
Tennessee	165,124	X		X		X			
WEST SOUTH CENTRAL	4,262,562								
Arkansas	125,359	X				X			
Louisiana	166,667	X				X			
Oklahoma	182,314	X		X		X			
Texas	3,788,222	X	X	X		X			X
MOUNTAIN	1,838,620								
Arizona	0								
Colorado	1,278,131	X		X	X	X		X	
Idaho	224	X							
Montana	48,180	X	X	X		X			
Nevada	0								
New Mexico	113,331	X		X		X			
Utah	200,754	X		X		X			X
Wyoming	0								
PACIFIC	933,360								
Alaska	12,000								
California	596,000	X		X		X			
Hawaii	0								
Oregon	190,592	X	X	X	X	X		X	
Washington	134,768	X				X			
TERRITORIES	0								
Guam *									
Puerto Rico *									
Virgin Islands	0								

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 33: CLINICAL CHEMISTRY - Newborn Screening

	Type of assay			
	Amino	Hemoglob- inopathy (12)	Cystic Fibrosis (13)	Other (14)
	Acid Disorders (11)			
	1	32	2	
NEW ENGLAND				
Connecticut		X		
Massachusetts		X		Congenital Toxoplasmosis, Congenital adrenal hyperplasia
Maine				Leucine
New Hampshire				
Rhode Island		X		
Vermont				
MIDDLE ATLANTIC				
New Jersey		X		
New York*				
Pennsylvania				Plasmas: phenylalanine, tyrosine, serums: T4, TSH, FT4
EAST NORTH CENTRAL				
Illinois		X		Hydroxy Progesterone, Biotinidase
Indiana				
Michigan				Biotinidase deficiency
Ohio		X		
Wisconsin		X	X	Biotinidase
WEST NORTH CENTRAL				
Iowa		X		
Kansas		X		
Minnesota		X		
Missouri		X		
Nebraska		X		Biotinidase
North Dakota				
South Dakota				
SOUTH ATLANTIC				
Delaware				
District of Columbia		X		
Florida		X		
Georgia		X		Congenital adrenal hyperplasia
Maryland	X	X		Biotinidase
North Carolina		X		Congenital adrenal hyperplasia
South Carolina		X		
Virginia		X		Biotinidase, sickle cell (newborn, IEF, HPLC), PKU Monitoring Program
West Virginia		X		
EAST SOUTH CENTRAL				
Alabama		X		GDC Proficiency Samples & unsat. specimens
Kentucky		X		
Mississippi		X		
Tennessee		X		
WEST SOUTH CENTRAL				
Arkansas		X		
Louisiana		X		
Oklahoma		X		TSH
Texas		X		Congenital adrenal hyperplasia
MOUNTAIN				
Arizona				
Colorado		X	X	Biotinidase deficiency
Idaho				
Montana				
Nevada				
New Mexico				Serum phenylalanine
Utah				
Wyoming				
PACIFIC				
Alaska				
California		X		
Hawaii				
Oregon		X		Congenital adrenal hyperplasia
Washington		X		adrenal hyperplasia
TERRITORIES				
Guam *				
Puerto Rico *				
Virgin Islands				

TABLE 34: CLINICAL CHEMISTRY - Hemoglobinopathy Specimens

Lab & Region	Number of Specimens	Type of procedure								
		Hemoglobin Cellulose Acetate Electrophoresis	Citrate Agar Electro-phoresis	Solubility Testing	Fetal Hemo-globin Assay	Hemoglobin A2 Quantitation	Densitometry	HPLC	IEF	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
TOTAL	3,424,966	14	16	10	5	8	9	9		
AVERAGE	97,856									
NEW ENGLAND	158,890									
Connecticut	50,069	X	X	X	X	X	X		X	
Massachusetts	103,210		X						X	
Maine	0									
New Hampshire	0									
Rhode Island	5,811	X	X	X						
Vermont	0									
MIDDLE ATLANTIC	43,393									
New Jersey	992							X	X	
New York*										
Pennsylvania	42,401	X	X							X
EAST NORTH CENTRAL	482,157									
Illinois	225,081						X		X	
Indiana	0									
Michigan	177,123						X		X	
Ohio	620	X	X	X						
Wisconsin	79,333									X
WEST NORTH CENTRAL	239,934									
Iowa	45,531							X	X	
Kansas	11,627						X		X	
Minnesota	67,728								X	
Missouri	115,048								X	
Nebraska	0									
North Dakota	0									
South Dakota	0									
SOUTH ATLANTIC	663,138									
Delaware	2,049	X		X						
District of Columbia	11,808	X	X	X	X	X	X			
Florida	295,119									X
Georgia	77,241	X	X	X		X		X	X	Hb Bart's quant.
Maryland	142,620	X	X	X	X	X	X		X	
North Carolina	69,861	X	X	X	X	X	X			
South Carolina	63,053	X			X	X		X		HbS quant.
Virginia	NA							X		
West Virginia	1,567								X	
EAST SOUTH CENTRAL	252,482									
Alabama	78,541	X	X					X		Globin analysis
Kentucky	19,052								X	
Mississippi	27,132	X	X						X	
Tennessee	127,757								X	
WEST SOUTH CENTRAL	797,882									
Arkansas	41,376		X						X	
Louisiana	48,277	X	X						X	
Oklahoma	4,887		X	X					X	
Texas	703,342	X	X			X	X	X	X	
MOUNTAIN	185,888									
Arizona	0									
Colorado	165,228								X	
Idaho	0									
Montana	0									
Nevada	0									
New Mexico	460					X	X			Hb Barts quant.
Utah	0									
Wyoming	0									
PACIFIC	616,750									
Alaska	0									
California	596,000							X		
Hawaii	0									
Oregon	18,240								X	
Washington	2,510							X	X	
TERRITORIES	4,652									
Guam *										
Puerto Rico *										
Virgin Islands	4,652		X	X						

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 35: CLINICAL CHEMISTRY - Other Clinical Chemistry Specimens

Lab & Region (1)	Number of Specimens (2)	Specimen/Type of procedure (3)
TOTAL	431,064	
AVERAGE	30,790	
NEW ENGLAND	1,237	
Connecticut	1,237	Phenylalanine-McCaman & Robbins; Tyrosine-Undermend & Cooper; Tay Sachs, Tay Sachs WBC-Mod. O'Brien, et al
Massachusetts	0	
Maine	0	
New Hampshire	0	
Rhode Island	0	
Vermont	0	
MIDDLE ATLANTIC	720	
New Jersey	0	
New York*		
Pennsylvania	720	Total cholesterol, HDL cholesterol-National Reference Method
EAST NORTH CENTRAL	0	
Illinois	0	
Indiana	0	
Michigan	0	
Ohio	0	
Wisconsin	0	
WEST NORTH CENTRAL	49,057	
Iowa	48,229	AFP-RIA/EIA; Estriol-RIA; HGG-EIA; Acetylcholinesterase-Gel Electrophoresis
Kansas	0	
Minnesota	0	
Missouri	0	
Nebraska	0	
North Dakota	0	
South Dakota	828	Occult blood-screen
SOUTH ATLANTIC	58,823	
Delaware	0	
District of Columbia	0	
Florida	20,980	Hemoglobinopathy (children 2-12)-cellulose acetate, citrate agar, solubility, Hb A2 quantitation
Georgia	0	
Maryland	628	Feces-WBC, qualitative fat, occult blood, hemocult slide
North Carolina	0	
South Carolina	16,893	Serum (AFP), serum adult hemog. & thyroid panels-RIA; serum-venipuncture
Virginia	10,611	Sickle Cell (Adult Prog)-Isoelectric focusing (HPLC)
West Virginia	711	Adult hemoglobinathies-isoelectric focusing
EAST SOUTH CENTRAL	0	
Alabama	0	
Kentucky	0	
Mississippi	0	
Tennessee	0	
WEST SOUTH CENTRAL	11,824	
Arkansas	11,824	Sickle cell (non-neonatal)-Electro Focusing
Louisiana	0	
Oklahoma	0	
Texas	0	
MOUNTAIN	3	
Arizona	0	
Colorado	0	
Idaho	0	
Montana	0	
Nevada	3	Sickle cell screening-Sicklequik
New Mexico	0	
Utah	0	
Wyoming	0	
PACIFIC	304,538	
Alaska	0	
California	300,000	AFP (maternal serum)-EIA
Hawaii	0	
Oregon	0	
Washington	4,538	Whole Blood Hemoglobinopathy -HPLC, IEF, Citrate & Cellulose Acetate electrophorin, solubility testing
TERRITORIES	4,862	
Guam *		
Puerto Rico *		
Virgin Islands	4,862	

* New York, Guam and Puerto did not report for fiscal year 1991

TABLE 36: PATHOLOGY SPECIMENS

Lab & Region (1)	Total Pathology Specimens (2)	Exfoliative Cytology Specimens (3)	Cytogenetics Specimens (4)	Other Pathology Specimen	
				Number of Specimens (5)	Type of specimen (6)
TOTAL	398,946	393,459	2,602	2,885	
AVERAGE	49,868	58,208	1,301	962	
NEW ENGLAND	0	0	0	0	
Connecticut	0	0	0	0	
Massachusetts	0	0	0	0	
Maine	0	0	0	0	
New Hampshire	0	0	0	0	
Rhode Island	0	0	0	0	
Vermont	0	0	0	0	
MIDDLE ATLANTIC	0	0	0	0	
New Jersey	0	0	0	0	
New York*					
Pennsylvania	0	0	0	0	
EAST NORTH CENTRAL	94,229	89,391	1,994	2,844	
Illinois	0	0	0	0	
Indiana	0	0	0	0	
Michigan	0	0	0	0	
Ohio	0	0	0	0	
Wisconsin	94,229	89,391	1,994	2,844	Non-gyn cytology specimens
WEST NORTH CENTRAL	0	0	0	0	
Iowa	0	0	0	0	
Kansas	0	0	0	0	
Minnesota	0	0	0	0	
Missouri	0	0	0	0	
Nebraska	0	0	0	0	
North Dakota	0	0	0	0	
South Dakota	0	0	0	0	
SOUTH ATLANTIC	286,745	286,704	0	41	
Delaware	0	0	0	0	
District of Columbia	12,519	12,519	0	0	
Florida	0	0	0	0	
Georgia	0	0	0	0	
Maryland	54,239	54,235	0	4	Autopsies
North Carolina	149,580	149,580	0	0	
South Carolina	8,267	8,267	0	0	
Virginia	0	0	0	0	
West Virginia	62,160	62,123	0	37	
EAST SOUTH CENTRAL	0	0	0	0	
Alabama	0	0	0	0	
Kentucky	0	0	0	0	
Mississippi	0	0	0	0	
Tennessee	0	0	0	0	
WEST SOUTH CENTRAL	0	0	0	0	
Arkansas	0	0	0	0	
Louisiana	0	0	0	0	
Oklahoma	0	0	0	0	
Texas	0	0	0	0	
MOUNTAIN	17,972	17,364	608	0	
Arizona	0	0	0	0	
Colorado	0	0	0	0	
Idaho	608	0	608	0	
Montana	0	0	0	0	
Nevada	0	0	0	0	
New Mexico	17,364	17,364	0	0	
Utah	0	0	0	0	
Wyoming	0	0	0	0	
PACIFIC	0	0	0	0	
Alaska	0	0	0	0	
California	0	0	0	0	
Hawaii	0	0	0	0	
Oregon	0	0	0	0	
Washington	0	0	0	0	
TERRITORIES	0	0	0	0	
Guam*					
Puerto Rico*					
Virgin Islands	0	0	0	0	

* New York, Guam and Puerto Rico did not report for 1991

TABLE 37: OCCUPATIONAL SAFETY AND HEALTH - Biological Samples

Lab & Region (1)	Number of Samples (2)
TOTAL	4,527
AVERAGE	
NEW ENGLAND	3,523
Connecticut	1546
Massachusetts	0
Maine	0
New Hampshire	1877
Rhode Island	0
Vermont	0
MIDDLE ATLANTIC	142
New Jersey	106
New York*	
Pennsylvania	36
EAST NORTH CENTRAL	372
Illinois	0
Indiana	0
Michigan	0
Ohio	222
Wisconsin	150
WEST NORTH CENTRAL	0
Iowa	0
Kansas	0
Minnesota	0
Missouri	0
Nebraska	0
North Dakota	0
South Dakota	0
SOUTH ATLANTIC	100
Delaware	0
District of Columbia	0
Florida	0
Georgia	0
Maryland	0
North Carolina	0
South Carolina	0
Virginia	100
West Virginia	0
EAST SOUTH CENTRAL	0
Alabama	0
Kentucky	0
Mississippi	0
Tennessee	0
WEST SOUTH CENTRAL	0
Arkansas	0
Louisiana	0
Oklahoma	0
Texas	0
MOUNTAIN	390
Arizona	0
Colorado	0
Idaho	0
Montana	140
Nevada	0
New Mexico	0
Utah	250
Wyoming	0
PACIFIC	0
Alaska	0
California	0
Hawaii	0
Oregon	0
Washington	0
TERRITORIES	
Guam *	0
Puerto Rico *	
Virgin Islands	0

* New York, Guam and Puerto Rico did not report for fiscal year 1991

FIGURE 12

**State Public Health Laboratory Toxicology
Specimens, by Category – 1991**

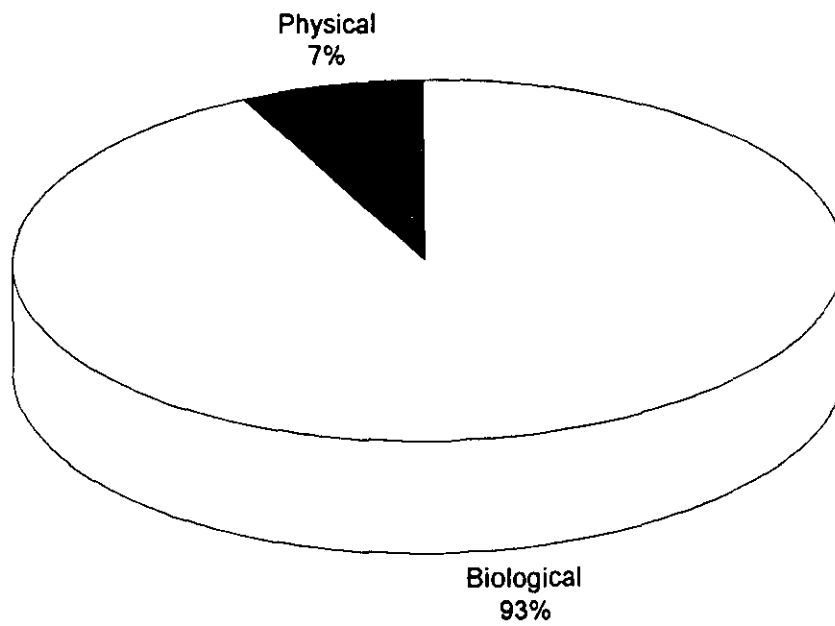


TABLE 38: BIOLOGICAL SAMPLES

Lab & Region (1)	Total Biological Toxicology Samples (2)
TOTAL	1,280,178
AVERAGE	37,852
NEW ENGLAND	523,832
Connecticut	70,374
Massachusetts	385,475
Maine	8,402
New Hampshire	18,271
Rhode Island	38,797
Vermont	4,513
MIDDLE ATLANTIC	25,944
New Jersey	20,856
New York*	0
Pennsylvania	5,088
EAST NORTH CENTRAL	137,284
Illinois	20,128
Indiana	3,087
Michigan	59,242
Ohio	20,645
Wisconsin	34,184
WEST NORTH CENTRAL	15,100
Iowa	89
Kansas	0
Minnesota	0
Missouri	0
Nebraska	1,650
North Dakota	6,991
South Dakota	6,370
SOUTH ATLANTIC	203,089
Delaware	5,935
District of Columbia	63,185
Florida	0
Georgia	0
Maryland	64,981
North Carolina	29,471
South Carolina	29,897
Virginia	9,600
West Virginia	0
EAST SOUTH CENTRAL	9,186
Alabama	0
Kentucky	9,186
Mississippi	0
Tennessee	0
WEST SOUTH CENTRAL	131,799
Arkansas	8,789
Louisiana	118,862
Oklahoma	0
Texas	4,148
MOUNTAIN	229,434
Arizona	8
Colorado	199,035
Idaho	0
Montana	140
Nevada	0
New Mexico	11,764
Utah	5,036
Wyoming	13,453
PACIFIC	4,530
Alaska	0
California	4,530
Hawaii	0
Oregon	0
Washington	0
TERRITORIES	0
Guam *	0
Puerto Rico *	0
Virgin Islands	0

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 39A: TOXICOLOGY-Biological Samples-Blood-Forensic

Lab & Region (1)	Forensic Samples								Number of Samples (9)	Other Type of Sample (10)
	Ethyl Alcohol (2)	Other Volatiles (3)	Drugs and Narcotics (4)	Lead (5)	Other Metallic Poisons (6)	Other Poisons (7)	Insecticides (8)			
TOTAL	30,150	1,338	22,083	134,775	4	330	0	1,548		
AVERAGE	1,774	223	2,454	33,694	4	110	0	258		
NEW ENGLAND	4,918	738	541	6,997	0	240	0	1,335		
Connecticut	1,773							1,096	Blood typing	
Massachusetts										
Maine	783			6,997						
New Hampshire	1,288		56					221	Carbon monoxide	
Rhode Island	738	738	485			240				
Vermont	337							18	Carbon monoxide	
MIDDLE ATLANTIC	581	581	0	0	0	0	0	0		
New Jersey										
New York*										
Pennsylvania	581	581								
EAST NORTH CENTRAL	7,583	4	13,592	0	0	0	0	1,247		
Illinois	7									
Indiana										
Michigan										
Ohio	539	4	319							
Wisconsin	7,037		13,273					118	carboxyhemoglobin	
								1,129	GC-MS/MSD confirmations	
WEST NORTH CENTRAL	5,219	3	0	361	0	0	0	0		
Iowa										
Kansas										
Minnesota										
Missouri										
Nebraska	1,289			361						
North Dakota										
South Dakota	3,930	3								
SOUTH ATLANTIC	0	0	0	0	0	0	0	0		
Delaware										
District of Columbia										
Florida										
Georgia										
Maryland										
North Carolina										
South Carolina										
Virginia										
West Virginia										
EAST SOUTH CENTRAL	2,438	0	1,216	0	4	0	0	0		
Alabama										
Kentucky	2,438		1,216		4					
Mississippi										
Tennessee										
WEST SOUTH CENTRAL	0	0	52	127,417	0	0	0	0		
Arkansas			52	8,555						
Louisiana				118,862						
Oklahoma										
Texas										
MOUNTAIN	7,185	12	6,882	0	0	90	0	95		
Arizona										
Colorado	119									
Idaho										
Montana										
Nevada										
New Mexico	3,311		4,869			5		78	Carbon monoxide	
Utah	2,508	11	1,569			85				
Wyoming	1,249	1	444					17	Carbon monoxide	
PACIFIC	2,225	0	0	0	0	0	0	0		
Alaska										
California	2,225									
Hawaii										
Oregon										
Washington										
TERRITORIES	0	0	0	0	0	0	0	0		
Guam*										
Puerto Rico*										
Virgin Islands	0	0	0	0	0	0	0	0		

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 39B: TOXICOLOGY-Biological Samples-Blood-Other

Lab & Region (1)	Type of Analyte								Number of Samples (9)	Other Type of Sample (10)
	Ethyl Alcohol (2)	Other Volatiles (3)	Drugs and Narcotics (4)	Lead (5)	Other Metallic Poisons (6)	Other Poisons (7)	Insecticides (8)			
TOTAL	1,629	0	14,865	378,936	168	0	0	347,581		
AVERAGE	407	0	2,478	15,706	168	0	0	68,516		
NEW ENGLAND	17	0	0	145,479	0	0	0	343,366		
Connecticut				53,222						
Massachusetts				53,617				331,758	EP (EPP)	
Maine										
New Hampshire				3,050				11,606	EP	
Rhode Island	17			35,581						
Vermont										
MIDDLE ATLANTIC	0	0	548	15,979	0	0	0	1,654		
New Jersey				14,362						
New York*										
Pennsylvania			548	1,617				1,654	EP	
EAST NORTH CENTRAL	1,502	0	4	103,348	168	0	0	4,414		
Illinois				20,119						
Indiana				3,087						
Michigan				50,242						
Ohio	1		4	17,949						
Wisconsin	1,501			2,951	168			1,596	Er. Protoporphyrin	
								2,670	Therapeutic drugs	
								148	Cholinesterase	
WEST NORTH CENTRAL	0	0	0	89	0	0	0	0		
Iowa				89						
Kansas										
Minnesota										
Missouri				X						
Nebraska										
North Dakota										
South Dakota										
SOUTH ATLANTIC	0	0	11,819	107,235	0	0	0	0		
Delaware				5,935						
District of Columbia				20,652						
Florida				X						
Georgia										
Maryland			11,521	28,128						
North Carolina				29,471						
South Carolina			298	15,449						
Virginia				9,600						
West Virginia										
EAST SOUTH CENTRAL	0	0	2,424	0	0	0	0	0		
Alabama										
Kentucky			2,424							
Mississippi										
Tennessee										
WEST SOUTH CENTRAL	0	0	0	4,148	0	0	0	0		
Arkansas										
Louisiana										
Oklahoma										
Texas				4,148						
MOUNTAIN	110	0	72	23	0	0	0	0		
Arizona				6						
Colorado										
Idaho										
Montana				17						
Nevada										
New Mexico										
Utah										
Wyoming	110		72							
PACIFIC	0	0	0	635	0	0	0	965		
Alaska										
California				635				955		
								10		
Hawaii										
Oregon										
Washington										
TERRITORIES	0	0	0	0	0	0	0	0		
Guam*										
Puerto Rico*										
Virgin Islands	0	0	0	0	0	0	0	0		

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 40: TOXICOLOGY-Biological Samples-Urine-Forensic

Lab & Region (1)	Type of sample								Number of Samples (9)	Other Type of Sample (10)
	Ethyl Alcohol (2)	Other Volatiles (3)	Drugs and Narcotics (4)	Lead (5)	Other Metallic Poisons (6)	Other Poisons (7)	Insecticides (8)			
	TOTAL	37,714	1,275	190,713	0	2	0	0		
AVERAGE	4,190	838	15,893	0	2	0	0	0		
NEW ENGLAND	3,894	0	8,451	0	0	0	0	0		
Connecticut	3,891		5,397							
Massachusetts										
Maine			327							
New Hampshire			32							
Rhode Island										
Vermont	3		705							
MIDDLE ATLANTIC	0	0	0	0	0	0	0	0		
New Jersey										
New York*										
Pennsylvania										
EAST NORTH CENTRAL	797	1	558	0	0	0	0	0		
Illinois										
Indiana										
Michigan										
Ohio	604	1	558							
Wisconsin	193									
WEST NORTH CENTRAL	185	0	7,773	0	0	0	0	0		
Iowa										
Kansas										
Minnesota										
Missouri										
Nebraska										
North Dakota	185		6,808							
South Dakota			967							
SOUTH ATLANTIC	0	0	0	0	0	0	0	0		
Delaware										
District of Columbia										
Florida										
Georgia										
Maryland										
North Carolina										
South Carolina										
Virginia										
West Virginia										
EAST SOUTH CENTRAL	0	0	3,104	0	0	0	0	0		
Alabama										
Kentucky			3,104							
Mississippi										
Tennessee										
WEST SOUTH CENTRAL	0	0	0	0	0	0	0	0		
Arkansas										
Louisiana										
Oklahoma										
Texas										
MOUNTAIN	32,838	1,274	172,829	0	2	0	0	0		
Arizona										
Colorado	31,192	1,274	166,420							
Idaho										
Montana										
Nevada										
New Mexico	30		1,307		2					
Utah	7		182							
Wyoming	1,609		4,920							
PACIFIC	0	0	0	0	0	0	0	0		
Alaska										
California										
Hawaii										
Oregon										
Washington										
TERRITORIES	0	0	0	0	0	0	0	0		
Guam*										
Puerto Rico*										
Virgin Islands	0	0	0	0	0	0	0	0		

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 40: TOXICOLOGY-Biological Samples-Urine-Other (Continued)

Lab & Region (11)	Type of Analyte								Number of Samples (19)	Other Type of Sample (20)
	Ethyl Alcohol (12)	Other Volatiles (13)	Drugs and Narcotics (14)	Lead (15)	Other Metallic Poisons (16)	Other Poisons (17)	Insecticides (18)			
TOTAL	675	2	98,405	384	0	15	0	214		
AVERAGE	169	0	8,200	77	0	15	0	71		
NEW ENGLAND	0	0	0	260	0	0	0	25		
Connecticut				153				25	Mercury and Arsenic	
Massachusetts				100						
Maine										
New Hampshire				7						
Rhode Island										
Vermont										
MIDDLE ATLANTIC	55	0	6,548	0	0	0	0	0		
New Jersey			6,494							
New York*										
Pennsylvania	55		54							
EAST NORTH CENTRAL	493	0	3,266	107	0	15	0	84		
Illinois										
Indiana										
Michigan										
Ohio	290		305							
Wisconsin	203		2,991	107		15		84	Other	
WEST NORTH CENTRAL	0	0	1,470	0	0	0	0	0		
Iowa										
Kansas										
Minnesota										
Missouri										
Nebraska										
North Dakota										
South Dakota			1,470							
SOUTH ATLANTIC	0	0	83,998	17	0	0	0	0		
Delaware										
District of Columbia			42,533							
Florida										
Georgia										
Maryland			27,332							
North Carolina										
South Carolina			14,133	17						
Virginia										
West Virginia										
EAST SOUTH CENTRAL	0	0	0	0	0	0	0	0		
Alabama										
Kentucky										
Mississippi										
Tennessee										
WEST SOUTH CENTRAL	0	0	179	0	0	0	0	0		
Arkansas			179							
Louisiana										
Oklahoma										
Texas										
MOUNTAIN	127	2	2,314	0	0	0	0	0		
Arizona										
Colorado										
Idaho										
Montana										
Nevada										
New Mexico			1,774							
Utah										
Wyoming	127	2	540							
PACIFIC	0	0	600	0	0	0	0	105		
Alaska										
California			600					105	Malathion	
Hawaii										
Oregon										
Washington										
TERRITORIES	0	0	0	0	0	0	0	0		
Guam*										
Puerto Rico*										
Virgin Islands	0	0	0	0	0	0	0	0		

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 41: TOXICOLOGY-Biological Samples-Other-Forensic

Lab & Region	Type of Analyte							Other	
	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Number of Samples	Type of Sample
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
TOTAL	9,299	398	550	0	0	12	0	184	
AVERAGE	4,650	0	0	0	0	0	0	92	
NEW ENGLAND	4,089	391	271	0	0	12	0	0	
Connecticut									
Massachusetts									
Maine	228		87						
New Hampshire									
Rhode Island	391	391	204			12			
Vermont	3,450								
MIDDLE ATLANTIC	0	0	0	0	0	0	0	0	
New Jersey									
New York*									
Pennsylvania									
EAST NORTH CENTRAL	62	0	11	0	0	0	0	0	
Illinois									
Indiana									
Michigan									
Ohio	62		11						
Wisconsin									
WEST NORTH CENTRAL	0	0	0	0	0	0	0	0	
Iowa									
Kansas									
Minnesota									
Missouri									
Nebraska									
North Dakota									
South Dakota									
SOUTH ATLANTIC	0	0	0	0	0	0	0	0	
Delaware									
District of Columbia									
Florida									
Georgia									
Maryland									
North Carolina									
South Carolina									
Virginia									
West Virginia									
EAST SOUTH CENTRAL	0	0	0	0	0	0	0	0	
Alabama									
Kentucky									
Mississippi									
Tennessee									
WEST SOUTH CENTRAL	0	0	0	0	0	0	0	0	
Arkansas									
Louisiana									
Oklahoma									
Texas									
MOUNTAIN	5,188	5	288	0	0	0	0	184	
Arizona									
Colorado								30	Fatal (Urine)
Idaho									
Montana									
Nevada									
New Mexico	211		223					154	Acid phosphatase swabs
Utah	628	5	45						
Wyoming	4,331								
PACIFIC	0	0	0	0	0	0	0	0	
Alaska									
California									
Hawaii									
Oregon									
Washington									
TERRITORIES	0	0	0	0	0	0	0	0	
Guam *									
Puerto Rico*									
Virgin Islands	0	0	0	0	0	0	0	0	

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 41: TOXICOLOGY-Biological Samples-Other-Other (continued)

Lab & Region (11)	Type of Analyte							Other	
	Ethyl Alcohol (12)	Other Volatiles (13)	Drugs and Narcotics (14)	Lead (15)	Other Metallic Poisons (16)	Other Poisons (17)	Insecticides (18)	Number of Samples (19)	Type of Sample (20)
	TOTAL	31	0	3	0	0	0	0	4,950
AVERAGE	31	0	3	0	0	0	0	4,950	
NEW ENGLAND	0	0	0	0	0	0	0	4,827	
Connecticut								4,827	Lead paints
Massachusetts									
Maine									
New Hampshire									
Rhode Island									
Vermont									
MIDDLE ATLANTIC	0	0	0	0	0	0	0	0	
New Jersey									
New York*									
Pennsylvania									
EAST NORTH CENTRAL	0	0	0	0	0	0	0	0	
Illinois									
Indiana									
Michigan									
Ohio									
Wisconsin									
WEST NORTH CENTRAL	0	0	0	0	0	0	0	0	
Iowa									
Kansas									
Minnesota									
Missouri									
Nebraska									
North Dakota									
South Dakota									
SOUTH ATLANTIC	0	0	0	0	0	0	0	0	
Delaware									
District of Columbia									
Florida									
Georgia									
Maryland									
North Carolina									
South Carolina									
Virginia									
West Virginia									
EAST SOUTH CENTRAL	0	0	0	0	0	0	0	0	
Alabama									
Kentucky									
Mississippi									
Tennessee									
WEST SOUTH CENTRAL	0	0	3	0	0	0	0	0	
Arkansas			3						
Louisiana									
Oklahoma									
Texas									
MOUNTAIN	31	0	0	0	0	0	0	123	
Arizona									
Colorado									
Idaho									
Montana								123	Cholinesterase Activity
Nevada									
New Mexico									
Utah									
Wyoming	31								
PACIFIC	0	0	0	0	0	0	0	0	
Alaska									
California									
Hawaii									
Oregon									
Washington									
TERRITORIES	0	0	0	0	0	0	0	0	
Guam*									
Puerto Rico*									
Virgin Islands	0	0	0	0	0	0	0	0	

*New York, Guam and Virgin Islands did not report for fiscal year 1991

**LABORATORY ENVIRONMENTAL
WORKLOAD**

FIGURE 13

**State Public Health Laboratory Environmental
Microbiology Specimens, by Category -- 1991**

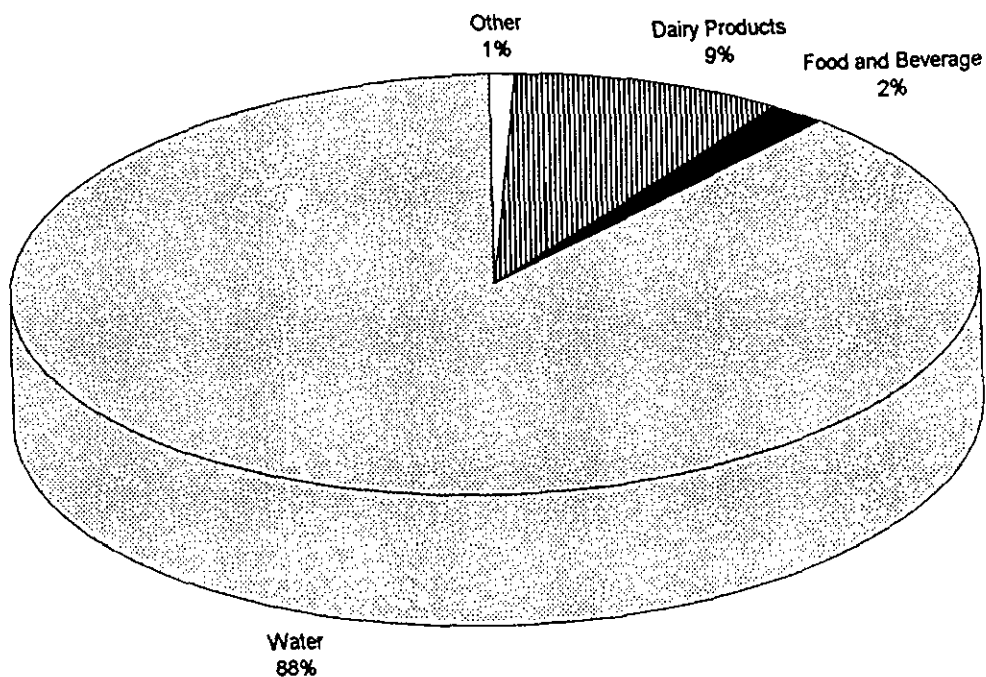


TABLE 42: ENVIRONMENTAL MICROBIOLOGY SAMPLES

Lab & Region (1)	Total Environmental Microbiology Samples (2)	Type of sample			
		Water (3)	Dairy Products (4)	Food and Beverage (5)	Other (6)
TOTAL	2,066,411	1,822,329	182,245	51,002	10,835
AVERAGE	43,050	39,816	5,879	1,108	677
NEW ENGLAND	80,054	64,124	6,850	2,498	6,582
Connecticut	18,472	15,875	2,242	355	0
Massachusetts	10,281	45	2,627	1,111	8,498
Maine	15,797	15,788	0	9	0
New Hampshire	954	0	775	148	33
Rhode Island	12,479	10,411	1,208	862	0
Vermont	22,071	22,005	0	15	51
MIDDLE ATLANTIC	6,514	2,992	3,228	298	0
New Jersey	6,288	2,990	3,228	70	0
New York*	0				
Pennsylvania	228	2	0	228	0
EAST NORTH CENTRAL	370,319	351,989	16,536	1,634	160
Illinois	43,591	37,895	5,459	237	0
Indiana	87,622	82,572	3,778	1,272	0
Michigan	105,340	105,340	0	0	0
Ohio	50,105	42,736	7,269	70	0
Wisconsin	83,861	83,446	0	55	160
WEST NORTH CENTRAL	352,039	339,095	6,658	5,011	1,275
Iowa	35,497	34,181	0	41	1,275
Kansas	44,978	44,989	0	7	0
Minnesota	90,925	90,925	0	0	0
Missouri	115,100	108,858	1,525	4,917	0
Nebraska	24,854	24,854	0	0	0
North Dakota	21,213	18,037	5,133	43	0
South Dakota	19,474	19,471	0	3	0
SOUTH ATLANTIC	579,780	511,052	39,813	28,870	45
Delaware	13,973	13,531	314	128	0
District of Columbia	69	0	0	69	0
Florida	309,101	307,143	810	1,148	0
Georgia	56	4	0	37	15
Maryland	136,929	108,888	5,647	22,394	0
North Carolina	47,581	47,210	91	250	30
South Carolina	11,283	0	10,896	387	0
Virginia	17,998	0	13,256	4,442	0
West Virginia	43,090	34,276	8,799	15	0
EAST SOUTH CENTRAL	202,851	161,558	40,726	542	25
Alabama	74,813	53,187	21,212	191	23
Kentucky	9,648	6,403	3,039	208	0
Mississippi	73,939	57,388	16,475	74	2
Tennessee	44,651	44,580	0	71	0
WEST SOUTH CENTRAL	210,012	154,910	48,557	8,394	151
Arkansas	79,781	60,867	18,094	820	0
Louisiana	109,522	77,586	24,353	7,432	151
Oklahoma	3,448	0	3,448	0	0
Texas	17,263	16,457	664	142	0
MOUNTAIN	122,798	114,203	7,408	1,032	153
Arizona	8,431	5,829	0	482	110
Colorado	20,259	18,735	1,474	50	0
Idaho	35,808	34,336	1,404	68	0
Montana	16,478	16,468	0	10	0
Nevada	13,630	12,341	1,157	132	0
New Mexico	12,934	9,285	3,373	233	43
Utah	6,530	6,500	0	30	0
Wyoming	10,728	10,709	0	17	0
PACIFIC	129,374	110,270	13,935	2,725	2,444
Alaska	134	132	0	2	0
California	89,916	78,085	11,922	1,439	470
Hawaii	19,338	14,750	2,012	643	1,933
Oregon	8,408	8,408	0	0	0
Washington	11,578	10,895	1	641	41
TERRITORIES	12,672	12,136	536	0	0
Guam*					
Puerto Rico*					
Virgin Islands	12,672	12,136	536	0	0

TABLE 43: ENVIRONMENTAL MICROBIOLOGY-Water Samples

Lab & Region (1)	Total Water Samples (2)	Non-Potable Water (3)	Potable Water (4)	Sewage and Waste (5)	Swimming Pools (6)
TOTAL AVERAGE	1,822,329	130,359	1,581,821	14,019	83,994
NEW ENGLAND	64,124	12,227	47,634	2,531	1,732
Connecticut	15,875	9,470	6,085	93	227
Massachusetts	45	0	45	0	0
Maine	15,788	0	15,852	0	136
New Hampshire	0	0	0	0	0
Rhode Island	10,411	1,882	4,752	2,433	1344
Vermont	22,005	875	21,100	5	25
MIDDLE ATLANTIC	2,992	326	1,685	945	36
New Jersey	2,990	326	1,683	945	36
New York*	0	0			
Pennsylvania	2	0	2	0	0
EAST NORTH CENTRAL	351,989	14,476	295,446	824	41,243
Illinois	37,895	508	35,827	824	936
Indiana	82,572	3,187	55,417	0	23968
Michigan	105,340	4,934	84,818	0	15588
Ohio	42,736	2,378	39,741	0	617
Wisconsin	83,446	3,469	79,843	0	134
WEST NORTH CENTRAL	339,095	4,970	321,393	1,370	11,362
Iowa	34,181	694	31,413	454	1620
Kansas	44,969	694	44,275	0	0
Minnesota	90,925	904	90,021	0	0
Missouri	108,658	90	108,365	0	2203
Nebraska	24,854	502	24,352	0	0
North Dakota	16,037	357	10,811	495	4574
South Dakota	19,471	1,729	14,356	421	2965
SOUTH ATLANTIC	511,052	45,967	431,201	6,877	27,007
Delaware	13,531	2,463	10,885	178	5
District of Columbia	0	0	0	0	0
Florida	307,143	20,256	265,773	0	21114
Georgia	4	0	4	0	0
Maryland	108,888	22,454	78,232	8,899	1503
North Carolina	47,210	0	47,210	0	0
South Carolina	0	0	0	0	0
Virginia	0	0	0	0	0
West Virginia	34,276	794	29,067	0	4385
EAST SOUTH CENTRAL	161,558	7,082	154,245	156	75
Alabama	53,187	1,329	51,858	0	0
Kentucky	6,403	0	6,355	0	48
Mississippi	57,388	420	56,968	0	0
Tennessee	44,580	5,333	39,064	156	27
WEST SOUTH CENTRAL	154,910	15,350	139,109	71	380
Arkansas	60,867	2,060	58,427	0	380
Louisiana	77,586	13,051	64,464	71	0
Oklahoma	0	0	0	0	0
Texas	16,457	239	16,218	0	0
MOUNTAIN	114,203	7,870	103,164	1,172	1,997
Arizona	5,829	541	5,049	179	60
Colorado	18,735	718	17,717	300	0
Idaho	34,336	3,465	30,238	0	635
Montana	16,468	415	16,053	0	0
Nevada	12,341	1,095	10,778	468	0
New Mexico	9,285	66	8,980	225	14
Utah	6,500	1,500	4,500	0	500
Wyoming	10,709	70	9,851	0	788
PACIFIC	110,270	22,091	87,944	73	162
Alaska	132	67	47	0	18
California	76,085	1,114	74,858	57	28
Hawaii	14,750	8,931	7,749	12	58
Oregon	6,408	5,011	3,397	0	0
Washington	10,895	8,968	1,863	4	60
TERRITORIES	12,136	0	0	0	0
Guam*	0				
Puerto Rico*	0				
Virgin Islands	12,136	0	0	0	0

*Virgin Islands submitted only a total number of water samples - no further breakout

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 43B: ENVIRONMENTAL MICROBIOLOGY - Water Samples-Potable

Lab & Region (1)	Type of procedure			
	Membrane Filter (2)	Multiple Tube (3)	Presence/ Absence (4)	Other (5)
TOTAL	1,163,132	374,870	30,081	25,874
AVERAGE	29,078	13,368	2,314	2,352
NEW ENGLAND	48,436	1,034	0	164
Connecticut	8,051	34	0	0
Massachusetts	0	0	0	45
Maine	14,533	1,000	0	119
New Hampshire	0	0	0	0
Rhode Island	4,752	0	0	0
Vermont	21,100	0	0	0
MIDDLE ATLANTIC	1,885	0	0	0
New Jersey	1,883	0	0	0
New York*				
Pennsylvania	2	0	0	0
EAST NORTH CENTRAL	187,064	102,820	0	5,732
Illinois	18,888	16,739	0	0
Indiana	8	52,729	0	2,682
Michigan	84,818	0	0	0
Ohio	39,741	0	0	0
Wisconsin	43,641	33,152	0	3,050
WEST NORTH CENTRAL	181,854	133,210	6,329	0
Iowa	66	31,347	0	0
Kansas	44,275	0	0	0
Minnesota	0	90,021	0	0
Missouri	106,365	0	0	0
Nebraska	24,352	0	0	0
North Dakota	4,244	6,367	0	0
South Dakota	2,552	5,475	6,329	0
SOUTH ATLANTIC	290,348	111,878	9,482	19,493
Delaware	2,535	3,080	2,118	3,152
District of Columbia	0	0	0	0
Florida	254,831	7,974	NA	2,968
Georgia	0	0	4	0
Maryland	2,902	65,186	8,382	3,782
North Carolina	18,584	24,823	0	5,803
South Carolina	0	0	0	0
Virginia	NA	NA	NA	0
West Virginia	13,498	10,815	978	3,808
EAST SOUTH CENTRAL	147,580	569	6,098	0
Alabama	45,762	0	6,098	0
Kentucky	6,355	0	0	0
Mississippi	56,968	0	0	0
Tennessee	38,495	569	0	0
WEST SOUTH CENTRAL	138,925	0	184	0
Arkansas	58,427	0	0	0
Louisiana	64,464	0	0	0
Oklahoma	0	0	0	0
Texas	16,034	0	184	0
MOUNTAIN	78,193	21,620	5,211	140
Arizona	3,387	1,662	0	0
Colorado	17,435	282	0	0
Idaho	25,411	4,825	0	0
Montana	11,000	5,053	0	0
Nevada	7,847	2,082	849	0
New Mexico	7,113	978	749	140
Utah	4,000	500	0	0
Wyoming	0	6,238	3,613	0
PACIFIC	80,881	3,938	2,779	345
Alaska	0	47	0	0
California	73,775	1,113	0	0
Hawaii	6,982	432	10	345
Oregon	0	1,919	1,478	0
Washington	144	428	1,281	0
TERRITORIES	12,136	0	0	0
Guam*				
Puerto Rico*				
Virgin Islands	12,136	0	0	0

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 43A: ENVIRONMENTAL MICROBIOLOGY-Water Samples-Non-Potable

Lab & Region (1)	Type of procedure			
	Membrane Filter (2)	Multiple Tube (3)	Presence/ Absence (4)	Other (5)
TOTAL	54,310	74,478	71	1,500
AVERAGE	1,873	3,238	71	300
NEW ENGLAND	6,448	5,412	0	367
Connecticut	5,573	3,530	0	367
Massachusetts	0	0	0	0
Maine	0	0	0	0
New Hampshire	0	X	0	0
Rhode Island	0	1,882	0	0
Vermont	875	0	0	0
MIDDLE ATLANTIC	0	328	0	0
New Jersey	0	328	0	0
New York*				
Pennsylvania	0	0	0	0
EAST NORTH CENTRAL	14,478	0	0	0
Illinois	508	0	0	0
Indiana	3,187	0	0	0
Michigan	4,934	0	0	0
Ohio	2,378	0	0	0
Wisconsin	3,489	0	0	0
WEST NORTH CENTRAL	4,766	204	0	0
Iowa	864	0	0	0
Kansas	864	0	0	0
Minnesota	771	133	0	0
Missouri	90	0	0	0
Nebraska	502	0	0	0
North Dakota	286	71	0	0
South Dakota	1,729	0	0	0
SOUTH ATLANTIC	7,378	37,545	0	1,044
Delaware	1,577	886	0	0
District of Columbia	0	0	0	0
Florida	5,112	15,005	NA	139
Georgia	0	0	0	0
Maryland	0	21,549	0	905
North Carolina	0	0	0	0
South Carolina	0	0	0	0
Virginia	0	0	0	0
West Virginia	689	105	0	0
EAST SOUTH CENTRAL	6,335	676	71	0
Alabama	1,082	176	71	0
Kentucky	0	0	0	0
Mississippi	0	420	0	0
Tennessee	5,253	80	0	0
WEST SOUTH CENTRAL	2,299	13,051	0	0
Arkansas	2,080	0	0	0
Louisiana	0	13,051	0	0
Oklahoma	0	0	0	0
Texas	239	0	0	0
MOUNTAIN	8,889	1,131	0	50
Arizona	206	285	0	50
Colorado	0	718	0	0
Idaho	3,407	58	0	0
Montana	415	0	0	0
Nevada	1,095	0	0	0
New Mexico	66	0	0	0
Utah	1,500	0	0	0
Wyoming	0	70	0	0
PACIFIC	5,919	18,133	0	39
Alaska	0	67	0	0
California	0	1,075	0	39
Hawaii	3,455	3,476	0	0
Oregon	2,464	2,547	0	0
Washington	0	8,988	0	0
TERRITORIES	0	0	0	0
Guam*				
Puerto Rico*				
Virgin Islands	0	0	0	0

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 43C: ENVIRONMENTAL MICROBIOLOGY-Water Samples-Sewage/Waste

Lab & Region (1)	Type of procedure			
	Membrane Filter (2)	Multiple Tube (3)	Presence/ Absence (4)	Other (5)
TOTAL	2,595	8,991	2,433	0
AVERAGE	260	642	2,433	0
NEW ENGLAND	5	93	2,433	0
Connecticut	0	93	0	0
Massachusetts	0	0	0	0
Maine	0	0	0	0
New Hampshire	0	0	0	0
Rhode Island	0	0	2,433	0
Vermont	5	0	0	0
MIDDLE ATLANTIC	0	945	0	0
New Jersey	0	945	0	0
New York*				
Pennsylvania	0	0	0	0
EAST NORTH CENTRAL	824	0	0	0
Illinois	824	0	0	0
Indiana	0	0	0	0
Michigan	0	0	0	0
Ohio	0	0	0	0
Wisconsin	0	0	0	0
WEST NORTH CENTRAL	997	373	0	0
Iowa	454	0	0	0
Kansas	0	0	0	0
Minnesota	0	0	0	0
Missouri	0	0	0	0
Nebraska	0	0	0	0
North Dakota	396	99	0	0
South Dakota	147	274	0	0
SOUTH ATLANTIC	0	6,877	0	0
Delaware	0	178	0	0
District of Columbia	0	0	0	0
Florida	0	0	0	0
Georgia	0	0	0	0
Maryland	0	6,699	0	0
North Carolina	0	0	0	0
South Carolina	0	0	0	0
Virginia	0	0	0	0
West Virginia	0	0	0	0
EAST SOUTH CENTRAL	156	0	0	0
Alabama	0	0	0	0
Kentucky	0	0	0	0
Mississippi	0	0	0	0
Tennessee	156	0	0	0
WEST SOUTH CENTRAL	0	71	0	0
Arkansas	0	0	0	0
Louisiana	0	71	0	0
Oklahoma	0	0	0	0
Texas	0	0	0	0
MOUNTAIN	608	564	0	0
Arizona	60	119	0	0
Colorado	0	300	0	0
Idaho	0	0	0	0
Montana	0	0	0	0
Nevada	382	86	0	0
New Mexico	166	59	0	0
Utah	0	0	0	0
Wyoming	0	0	0	0
PACIFIC	5	68	0	0
Alaska	0	0	0	0
California	0	57	0	0
Hawaii	5	7	0	0
Oregon	0	0	0	0
Washington	0	4	0	0
TERRITORIES	0	0	0	0
Guam *				
Puerto Rico *				
Virgin Islands	0	0	0	0

TABLE 43D: ENVIRONMENTAL MICROBIOLOGY-Water Samples-Swimming Pool

Lab & Region (1)	Type of procedure			
	Membrane Filter (2)	Multiple Tube (3)	Presence/ Absence (4)	Other (5)
TOTAL	43,887	22,223	0	18,084
AVERAGE	2,570	1,482	0	2,281
NEW ENGLAND	378	0	0	1,354
Connecticut	227	0	0	0
Massachusetts	0	0	0	0
Maine	136	0	0	0
New Hampshire	0	0	0	0
Rhode Island	0	0	0	1,344
Vermont	15	0	0	10
MIDDLE ATLANTIC	36	0	0	0
New Jersey	36	0	0	0
New York*				
Pennsylvania	0	0	0	0
EAST NORTH CENTRAL	17,121	12,138	0	11,984
Illinois	916	20	0	0
Indiana	0	11,984	0	11,984
Michigan	15,588	0	0	0
Ohio	617	0	0	0
Wisconsin	0	134	0	0
WEST NORTH CENTRAL	4,033	7,329	0	0
Iowa	0	1,820	0	0
Kansas	0	0	0	0
Minnesota	0	0	0	0
Missouri	2,203	0	0	0
Nebraska	0	0	0	0
North Dakota	1,830	2,744	0	0
South Dakota	0	2,865	0	0
SOUTH ATLANTIC	20,790	1,814	0	4,403
Delaware	0	5	0	0
District of Columbia	0	0	0	0
Florida	20,790	324	0	0
Georgia	0	0	0	0
Maryland	0	802	0	701
North Carolina	0	0	0	0
South Carolina	0	0	0	0
Virginia	0	0	0	0
West Virginia	0	683	0	3,702
EAST SOUTH CENTRAL	75	0	0	0
Alabama	0	0	0	0
Kentucky	48	0	0	0
Mississippi	0	0	0	0
Tennessee	27	0	0	0
WEST SOUTH CENTRAL	380	0	0	0
Arkansas	380	0	0	0
Louisiana	0	0	0	0
Oklahoma	0	0	0	0
Texas	0	0	0	0
MOUNTAIN	816	836	0	343
Arizona	0	0	0	80
Colorado	0	0	0	0
Idaho	361	0	0	274
Montana	0	0	0	0
Nevada	0	0	0	0
New Mexico	5	0	0	9
Utah	450	50	0	0
Wyoming	0	788	0	0
PACIFIC	58	104	0	0
Alaska	0	18	0	0
California	0	28	0	0
Hawaii	58	0	0	0
Oregon	0	0	0	0
Washington	0	60	0	0
TERRITORIES	0	0	0	0
Guam*				
Puerto Rico*				
Virgin Islands	0	0	0	0

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 44: MICROBIOLOGY-Dairy Products Samples

Lab & Region	Number of Samples	Type of sample						Other
		Milk and Cream	Ice Cream	Cheese	Other Dairy Products	Frozen Desserts		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
TOTAL	182,245	28	21	16	20	21		
AVERAGE	5,695							
NEW ENGLAND	6,850							
Connecticut	2,242	X	X	X	X	X	Plant equipment, empty containers	
Massachusetts	2,627	X	X	X		X		
Maine	0							
New Hampshire	775	X	X	X	X		Dairy waters	
Rhode Island	1,206	X	X	X	X	X		
Vermont	0							
MIDDLE ATLANTIC	3,226							
New Jersey	3,226	X	X		X	X		
New York*								
Pennsylvania	0							
EAST NORTH CENTRAL	18,536							
Illinois	5,459	X	X	X	X	X	Butter, powdered milk	
Indiana	3,778	X	X	X	X	X	Empty cartons	
Michigan	0							
Ohio	7,299	X			X			
Wisconsin	0							
WEST NORTH CENTRAL	6,658							
Iowa	0							
Kansas	0							
Minnesota	0							
Missouri	1,525	X	X	X	X	X		
Nebraska	0							
North Dakota	5,133	X	X	X	X	X	Butterfat, added water, DMSCC & DMCC	
South Dakota	0							
SOUTH ATLANTIC	39,813							
Delaware	314	X						
District of Columbia	0							
Florida	810			X		X		
Georgia	0							
Maryland	5,647	X	X	X	X	X	Listeria in product samples & environmental swabs	
North Carolina	91	X						
South Carolina	10,896	X	X		X	X		
Virginia	13,256	X	X			X		
West Virginia	8,799	X			X			
EAST SOUTH CENTRAL	40,726							
Alabama	21,212	X	X		X	X		
Kentucky	3,039	X	X	X	X	X	Containers	
Mississippi	16,475	X			X			
Tennessee	0							
WEST SOUTH CENTRAL	48,557							
Louisiana	18,094						Caps and containers, glycol and sweet water, novelties	
Oklahoma	3,448	X	X			X	Raw milks, containers, powdered milk	
Texas	664	X	X			X		
MOUNTAIN	7,408							
Arizona	0							
Colorado	1,474	X	X		X	X	Containers	
Idaho	1,404	X						
Montana	0							
Nevada	1,157	X	X	X	X	X		
New Mexico	3,373	X		X	X		Milk Containers	
Utah	0							
Wyoming	0							
PACIFIC	13,935							
Alaska	0							
California	11,922	X	X	X	X	X		
Hawaii	2,012	X	X		X	X		
Oregon	0							
Washington	1			X				
TERRITORIES	536							
Guam*								
Puerto Rico*								
Virgin Islands	536	X	X	X		X		

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 45: ENVIRONMENTAL MICROBIOLOGY-Food and Beverage Samples

Lab & Region (1)	Number of Samples (2)	Type of sample			
		Food Quality (3)	Food-Associated Disease Outbreaks (Suspected) (4)	Seafood (5)	Environmental (6)
TOTAL	51,002	17	33	17	16
AVERAGE	1,133				
NEW ENGLAND	2,498				
Connecticut	355	X	X	X	X
Massachusetts	1,111				
Maine	9	X	X	X	
New Hampshire	148	X	X	X	
Rhode Island	862				
Vermont	15		X		
MIDDLE ATLANTIC	298				
New Jersey	70	X	X		
New York*					
Pennsylvania	228		X		
EAST NORTH CENTRAL	1,834				
Illinois	237	X	X	X	X
Indiana	1,272				
Michigan	0				
Ohio	70		X		
Wisconsin	55				
WEST NORTH CENTRAL	5,011				
Iowa	41		X		X
Kansas	7				
Minnesota	0				
Missouri	4,917	X	X		X
Nebraska	0				
North Dakota	43		X		
South Dakota	3				
SOUTH ATLANTIC	28,870				
Delaware	128			X	
District of Columbia	69	X	X	X	X
Florida	1,148	X	X	X	X
Georgia	37		X		
Maryland	22,394	X	X	X	X
North Carolina	250		X	X	
South Carolina	387		X		
Virginia	4,442	X	X	X	
West Virginia	15		X		
EAST SOUTH CENTRAL	542				
Alabama	191		X	X	
Kentucky	208	X	X		X
Mississippi	74		X	X	X
Tennessee	71		X		
WEST SOUTH CENTRAL	8,394				
Arkansas	820	X	X	X	X
Louisiana	7,432				
Oklahoma	0				
Texas	142				
MOUNTAIN	1,032				
Arizona	492	X	X	X	X
Colorado	50	X	X		X
Idaho	68		X		X
Montana	10				
Nevada	132		X	X	
New Mexico	233	X	X	X	X
Utah	30		X		X
Wyoming	17				
PACIFIC	2,725				
Alaska	2		X		
California	1,439				
Hawaii	643	X	X	X	X
Oregon	0				
Washington	641	X	X		
TERRITORIES	0				
Guam *					
Puerto Rico *					
Virgin Islands					

* New York, Guam and Puerto Rico did not report for 1991

TABLE 46: ENVIRONMENTAL MICROBIOLOGY -
Other Environmental Microbiology Systems

Lab & Region	Number of Samples	Type of sample
(1)	(2)	(3)
TOTAL	10,835	
AVERAGE	722	
NEW ENGLAND	6,582	
Connecticut	0	
Massachusetts	6,498	shellfish, PSD Toxins, ASP Toxins
Maine	0	
New Hampshire	33	Paralytic shellfish poisoning
Rhode Island	0	
Vermont	51	swabs for Pseud or Legionella
MIDDLE ATLANTIC	0	
New Jersey	0	
New York*		
Pennsylvania	0	
EAST NORTH CENTRAL	160	
Illinois	0	
Indiana	0	
Michigan	0	
Ohio	0	
Wisconsin	160	Legionella samples
WEST NORTH CENTRAL	1,275	
Iowa	1,275	Pharmaceutical Product Sterility Tests for University of Iowa College of Pharmacy
Kansas	0	
Minnesota	0	
Missouri	0	
Nebraska	0	
North Dakota	0	
South Dakota	0	
SOUTH ATLANTIC	45	
Delaware	0	
District of Columbia	0	
Florida	0	
Georgia	15	swabs from Physical therapy equipment, Bandages
Maryland	0	
North Carolina	30	Red tide
South Carolina	0	
Virginia	0	
West Virginia	0	
EAST SOUTH CENTRAL	25	
Alabama	23	Food-associated outbreak, Clinical specimens
Kentucky	0	
Mississippi	2	Fith samples
Tennessee	0	
WEST SOUTH CENTRAL	151	
Arkansas	0	
Louisiana	151	Vibrio cholerae
Oklahoma	0	
Texas	0	
MOUNTAIN	153	
Arizona	110	Virus & parasites, Biototoxicity Monitoring
Colorado	0	
Idaho	0	
Montana	0	
Nevada	0	
New Mexico	43	Plant, insect identification, veterinary samples
Utah	0	
Wyoming	0	
PACIFIC	2,444	
Alaska	0	
California	470	Drug surveillance, food surveillance, Giardia, Algae, PT, Pregnancy Outcome Study, Sulfur Bacteria
Hawaii	1,933	containers, Staph phage typing, ice, bottled water
Oregon	0	
Washington	41	Sediment, stools, vomitus
TERRITORIES	0	
Guam *		
Puerto Rico *		
Virgin Islands	0	

* New York, Guam and Puerto Rico did not report for fiscal year 1991

FIGURE 14

**State Public Health Laboratory Environmental
Chemistry Samples, by Category -- 1991**

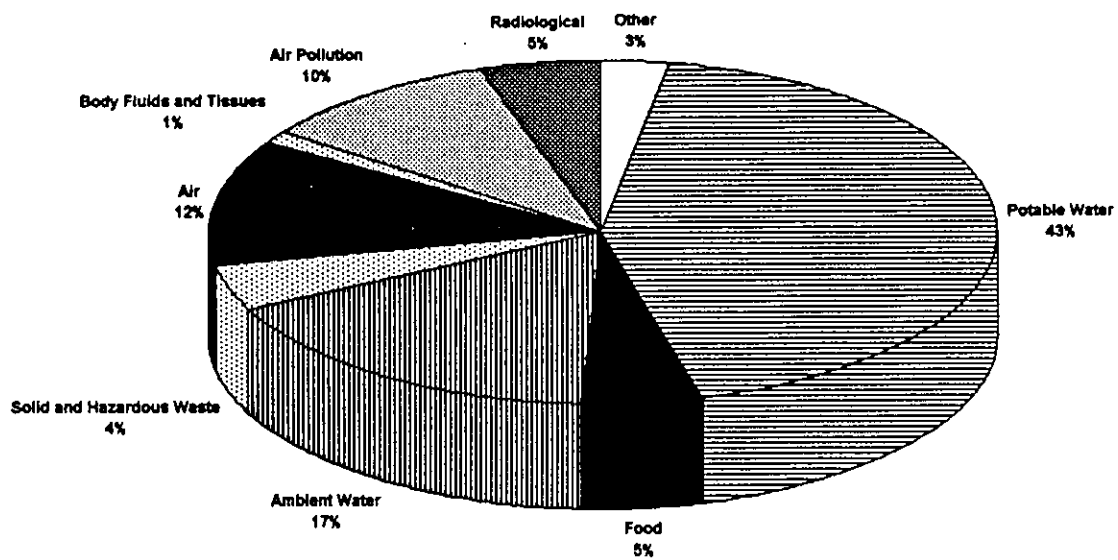


TABLE 47: ENVIRONMENTAL CHEMISTRY SAMPLES

Lab & Region (1)	Total Environmental Chemistry Samples (2)	Type of sample								
		Potable Water (3)	Ambient Water (4)	Solid and Hazardous Waste (5)	Food (6)	Body Fluids and Tissues (7)	Air (8)	Air Pollution (9)	Radiological (10)	Other (11)
TOTAL	1,023,574	445,619	170,893	42,667	50,217	13,555	125,235	97,942	47,043	30,403
AVERAGE	24,371	10,810	5,696	1,707	1,860	1,232	5,445	6,121	1,809	1,900
NEW ENGLAND	127,168	49,616	4,933	2,993	4,760	1,546	988	52,676	4,215	5,441
Connecticut	32,215	10,145	2,119	2,974	1,973	1,546	425	6,676	916	5,441
Massachusetts	8	8	0	0	0	0	0	0	0	0
Maine	20,478	18,187	0	0	0	0	306	0	1,985	0
New Hampshire	0	0	0	0	0	0	0	0	0	0
Rhode Island	68,384	16,331	2,679	19	2,712	0	257	46,000	386	0
Vermont	6,083	4,945	135	0	75	0	0	0	928	0
MIDDLE ATLANTIC	4,460	1,079	2,209	42	1,097	8	0	0	0	25
New Jersey	4,435	1,079	2,209	42	1,097	8	0	0	0	0
New York*	0	0	0	0	0	0	0	0	0	0
Pennsylvania	25	0	0	0	0	0	0	0	0	25
EAST NORTH CENTRAL	115,116	93,891	4,046	636	2,745	0	4,868	1,037	7,773	120
Illinois	20,050	19,098	2	8	806	0	14	0	0	120
Indiana	21,426	15,157	4,029	0	1,937	0	0	0	303	0
Michigan	52,071	52,071	0	0	0	0	0	0	0	0
Ohio	11,395	7,565	15	628	0	0	0	1,037	2,150	0
Wisconsin	10,174	NA	NA	NA	NA	NA	4,854	0	5,320	0
WEST NORTH CENTRAL	135,529	75,880	15,623	20,169	5,519	588	4,089	5,052	7,463	1,146
Iowa	54,698	29,531	484	17,264	49	222	2,101	2,013	3,034	0
Kansas	14,874	4,500	4,693	710	0	0	0	2,345	1,923	703
Minnesota	21,385	14,512	3,746	1,318	0	297	650	345	419	98
Missouri	13,560	7,317	0	690	5,095	0	0	0	458	0
Nebraska	13,714	12,165	20	0	11	0	6	0	1,512	0
North Dakota	8,312	2,731	3,601	88	363	69	349	349	117	345
South Dakota	6,986	5,124	2,779	99	1	0	963	0	0	0
SOUTH ATLANTIC	331,148	147,636	89,770	7,290	16,638	9,600	19,896	16,069	14,008	10,210
Delaware	5,047	5,047	0	0	0	0	0	0	0	0
District of Columbia	304	57	0	0	247	0	0	0	0	0
Florida	32,307	30,793	1,384	118	12	0	0	0	0	0
Georgia	0	0	0	0	0	0	0	0	0	0
Maryland	198,502	67,548	67,547	5,954	11,875	0	17,316	12,599	5,592	10,071
North Carolina	30,142	25,045	839	918	4	0	560	0	2,817	139
South Carolina	0	0	0	0	0	0	0	0	0	0
Virginia	63,700	18,000	20,000	300	4,500	9,600	2,000	3,500	5,800	0
West Virginia	1,146	1,146	0	0	0	0	0	0	0	0
EAST SOUTH CENTRAL	23,958	15,702	2,367	999	482	0	1,464	1,464	950	530
Alabama	1,281	1,281	0	0	0	0	0	0	0	0
Kentucky	9,145	6,189	0	0	426	0	0	0	0	530
Mississippi	6,009	6,009	0	0	0	0	0	0	0	0
Tennessee	7,523	223	2,367	999	56	0	1,464	1,464	950	0
WEST SOUTH CENTRAL	66,818	24,742	5,941	3,667	16,733	0	2,100	0	5,362	6,273
Arkansas	4,739	3,310	154	0	308	0	0	0	967	0
Louisiana	27,011	4,659	151	0	15,091	0	0	0	581	6,549
Oklahoma	10,543	4,773	1,036	1,267	64	0	0	0	1,659	1,724
Texas	24,525	12,000	4,600	2,400	1,250	0	2,100	0	2,175	0
MOUNTAIN	115,474	24,026	43,825	3,583	19	1,537	19,312	19,379	3,055	938
Arizona	3,489	1089	655	698	14	6	980	0	0	47
Colorado	20,878	2,740	3,319	191	0	949	6,000	6,000	738	741
Idaho	10,655	2,856	4,644	421	0	9	2,725	0	0	0
Montana	42,140	5,079	16,994	1,156	0	17	9,447	9,447	0	0
Nevada	4,620	3,929	681	0	0	0	10	0	0	0
New Mexico	16,731	6,528	3,137	965	5	307	0	3,500	2,141	150
Utah	17,181	1,807	14,195	152	0	249	150	432	178	0
Wyoming	0	0	0	0	0	0	0	0	0	0
PACIFIC	103,903	13,047	2,379	3,268	2,224	276	72,518	2,235	4,218	3,720
Alaska	0	0	0	0	0	0	0	0	0	0
California	20,029	2,939	1,758	3,268	780	115	4,026	593	2,900	3,650
Hawaii	74,749	2,536	621	0	1,458	0	68,492	1,642	0	0
Oregon	0	0	0	0	0	0	0	0	0	0
Washington	9,125	7,572	0	0	6	161	0	0	1,316	70
TERRITORIES	0	0	0	0	0	0	0	0	0	0
Guam*	0	0	0	0	0	0	0	0	0	0
Puerto Rico*	0	0	0	0	0	0	0	0	0	0
Virgin Islands	0	0	0	0	0	0	0	0	0	0

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 48: ENVIRONMENTAL CHEMISTRY - Water Samples - Potable

Lab & Region	Number of Samples	Type of substance identified			
		Synthetic Organic Chemicals	Pesticides and Herbicides	Inorganic Chemicals	Radionuclides
(1)	(2)	(3)	(4)	(5)	(6)
TOTAL	445,619	37	40	41	24
AVERAGE	10,610				
NEW ENGLAND	49,616				
Connecticut	10,145	X	X	X	X
Massachusetts	8			X	
Maine	18,187	X	X	X	X
New Hampshire	0				
Rhode Island	16,331	X	X	X	X
Vermont	4,945	X	X	X	X
MIDDLE ATLANTIC	1,079				
New Jersey	1,079	X	X	X	
New York*					
Pennsylvania	0				
EAST NORTH CENTRAL	93,891				
Illinois	19,098	X	X	X	
Indiana	15,157	X	X	X	X
Michigan	52,071	X	X	X	
Ohio	7,565	X	X	X	
Wisconsin	0				
WEST NORTH CENTRAL	75,880				
Iowa	29,531	X	X	X	X
Kansas	4,500	X	X	X	X
Minnesota	14,512	X	X	X	X
Missouri	7,317	X	X	X	
Nebraska	12,165	X	X	X	X
North Dakota	2,731	X	X	X	X
South Dakota	5,124		X	X	X
SOUTH ATLANTIC	147,836				
Delaware	5,047	X	X	X	X
District of Columbia	57			X	
Florida	30,793	X	X	X	
Georgia	0				
Maryland	67,548	X	X	X	X
North Carolina	25,045	X	X	X	X
South Carolina	0				
Virginia	18,000	X	X	X	X
West Virginia	1,146	X	X	X	
EAST SOUTH CENTRAL	15,702				
Alabama	1,281			X	
Kentucky	8,189	X	X	X	
Mississippi	6,009		X	X	
Tennessee	223	X	X	X	X
WEST SOUTH CENTRAL	24,742				
Arkansas	3,310	X	X	X	X
Louisiana	4,659	X	X		X
Oklahoma	4,773	X	X	X	
Texas	12,000	X	X	X	X
MOUNTAIN	24,028				
Arizona	1,089	X	X	X	
Colorado	2,740	X	X	X	
Idaho	2,856	X	X	X	X
Montana	5,079	X	X	X	
Nevada	3,829		X	X	
New Mexico	6,526	X	X	X	X
Utah	1,807	X	X	X	X
Wyoming	0				
PACIFIC	13,047				
Alaska	0				
California	2,939	X	X	X	
Hawaii	2,536	X	X	X	
Oregon	0				
Washington	7,572	X	X	X	
TERRITORIES	0				
Guam*					
Puerto Rico*					
Virgin Islands	0				

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 48: ENVIRONMENTAL CHEMISTRY-Water Samples-Ambient

Lab & Region	Number of Samples	Type of substance identified			
		Synthetic Organic Chemicals	Pesticides and Herbicides	Inorganic Chemicals	Radionuclides
(7)	(8)	(9)	(10)	(11)	(12)
TOTAL	170,893	22	22	28	14
AVERAGE	5,513				
NEW ENGLAND	4,933				
Connecticut	2,119	X	X	X	
Massachusetts	0				
Maine	0				
New Hampshire	0				
Rhode Island	2,879	X		X	
Vermont	135	X			X
MIDDLE ATLANTIC	2,209				
New Jersey	2,209	X	X	X	
New York*					
Pennsylvania	0				
EAST NORTH CENTRAL	4,046				
Illinois	2		X		
Indiana	4,029	X	X	X	X
Michigan	0				
Ohio	15			X	
Wisconsin	0				
WEST NORTH CENTRAL	15,823				
Iowa	484	X	X	X	X
Kansas	4,893	X	X	X	X
Minnesota	3,748	X	X	X	
Missouri	0				
Nebraska	20		X		
North Dakota	3,901	X	X	X	X
South Dakota	2,779			X	
SOUTH ATLANTIC	89,770				
Delaware	0				
District of Columbia	0				
Florida	1,384	X	X	X	
Georgia	0				
Maryland	67,547	X	X	X	X
North Carolina	839	X	X	X	X
South Carolina	0				
Virginia	20,000	X	X	X	X
West Virginia	0				
EAST SOUTH CENTRAL	2,367				
Alabama	0				
Kentucky	0				
Mississippi	0				
Tennessee	2,367	X	X	X	
WEST SOUTH CENTRAL	5,941				
Arkansas	154			X	X
Louisiana	151			X	
Oklahoma	1,036	X	X	X	
Texas	4,600	X	X	X	X
MOUNTAIN	43,825				
Arizona	655	X	X	X	
Colorado	3,319	X	X	X	X
Idaho	4,644	X	X	X	
Montana	18,994	X		X	
Nevada	681			X	
New Mexico	3,137		X	X	X
Utah	14,195	X	X	X	X
Wyoming	0				
PACIFIC	2,379				
Alaska	0				
California	1,758	X	X	X	
Hawaii	621			X	
Oregon	0				
Washington	0				X
TERRITORIES	0				
Guam*					
Puerto Rico*					
Virgin Islands	0				

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 49: ENVIRONMENTAL CHEMISTRY
Solid and Hazardous Water Samples

Lab & Region (1)	Number of Samples (2)	Type of substance identified			
		Synthetic Organic Chemicals (3)	Pesticides and Herbicides (4)	Inorganic Chemicals (5)	Radionuclides (6)
TOTAL	42,867	23	22	23	6
AVERAGE	1,707				
NEW ENGLAND	2,993				
Connecticut	2,974	X	X	X	
Massachusetts	0				
Maine	0				
New Hampshire	0				
Rhode Island	19	X		X	
Vermont	0				
MIDDLE ATLANTIC	42				
New Jersey	42	X	X	X	
New York*					
Pennsylvania	0				
EAST NORTH CENTRAL	636				
Illinois	8		X		
Indiana	0				
Michigan	0				
Ohio	628	X	X	X	
Wisconsin	0				
WEST NORTH CENTRAL	20,169				
Iowa	17,264	X	X	X	
Kansas	710	X	X	X	
Minnesota	1,318	X	X	X	
Missouri	690	X	X	X	X
Nebraska	0				
North Dakota	66	X	X	X	X
South Dakota	99	X		X	
SOUTH ATLANTIC	7,290				
Delaware	0				
District of Columbia	0				
Florida	118	X	X	X	
Georgia	0				
Maryland	5,954	X	X	X	X
North Carolina	918	X	X	X	X
South Carolina	0				
Virginia	300	X	X	X	
West Virginia	0				
EAST SOUTH CENTRAL	999				
Alabama	0				
Kentucky	0				
Mississippi	0				
Tennessee	999	X	X	X	X
WEST SOUTH CENTRAL	3,667				
Arkansas	0				
Louisiana	0				
Oklahoma	1,267	X	X	X	
Texas	2,400	X	X	X	X
MOUNTAIN	3,583				
Arizona	698	X	X	X	
Colorado	191	X	X	X	
Idaho	421	X	X	X	
Montana	1,156	X	X	X	
Nevada	0				
New Mexico	965			X	
Utah	152	X	X		
Wyoming	0				
PACIFIC	3,288				
Alaska	0				
California	3,288	X	X	X	
Hawaii	0				
Oregon	0				
Washington	0				
TERRITORIES	0				
Guam*					
Puerto Rico*					
Virgin Islands	0				

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 50: ENVIRONMENTAL CHEMISTRY - Food Samples

Lab & Region	Number of Samples	Type of substance identified			
		Synthetic Organic Chemicals	Pesticides and Herbicides	Inorganic Chemicals	Radionuclides
(1)	(2)	(3)	(4)	(5)	(6)
TOTAL	50,217	13	17	20	9
AVERAGE	1,860				
NEW ENGLAND	4,760				
Connecticut	1,873	X	X	X	X
Massachusetts	0				
Maine	0				
New Hampshire	0				
Rhode Island	2,712	X	X	X	X
Vermont	75	X		X	X
MIDDLE ATLANTIC	1,097				
New Jersey	1,097	X	X	X	
New York*					
Pennsylvania	0				
EAST NORTH CENTRAL	2,745				
Illinois	808		X		
Indiana	1,937	X	X	X	X
Michigan	0				
Ohio	0				
Wisconsin	0				
WEST NORTH CENTRAL	5,519				
Iowa	49				X
Kansas	0				
Minnesota	0				
Missouri	5,095			X	
Nebraska	11				X
North Dakota	383		X	X	
South Dakota	1				
SOUTH ATLANTIC	16,638				
Delaware	0				
District of Columbia	247	X		X	
Florida	12	X	X	X	
Georgia	0				
Maryland	11,875	X	X	X	X
North Carolina	4	X			
South Carolina	0				
Virginia	4,500		X	X	
West Virginia	0				
EAST SOUTH CENTRAL	482				
Alabama	0				
Kentucky	426		X	X	
Mississippi	0				
Tennessee	56	X	X	X	
WEST SOUTH CENTRAL	16,733				
Arkansas	308		X		
Louisiana	15,091				
Oklahoma	84	X	X	X	
Texas	1,250	X	X	X	X
MOUNTAIN	19				
Arizona	14	X	X	X	
Colorado	0				
Idaho	0				
Montana	0				
Nevada	0				
New Mexico	5			X	
Utah	0				
Wyoming	0				
PACIFIC	2,224				
Alaska	0				
California	780		X	X	
Hawaii	1,458		X	X	
Oregon	0				
Washington	6			X	X
TERRITORIES	0				
Guam*					
Puerto Rico*					
Virgin Islands	0				

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 51: ENVIRONMENTAL CHEMISTRY - Body Fluid and Tissue Sample

Lab & Region	Number of Samples	Type of substance identified	
		Inorganic Chemicals	Organic Chemicals
(1)	(2)	(3)	(4)
TOTAL	13,555	11	7
AVERAGE	968		
NEW ENGLAND	1,546		
Connecticut	1,546	X	
Massachusetts	0		
Maine	0		
New Hampshire	0		
Rhode Island	0		
Vermont	0		
MIDDLE ATLANTIC	8		
New Jersey	8	X	
New York*			
Pennsylvania	0		
EAST NORTH CENTRAL	0		
Illinois	0		
Indiana	0		
Michigan	0		
Ohio	0		
Wisconsin	0		
WEST NORTH CENTRAL	588		
Iowa	222	X	X
Kansas	0		
Minnesota	297	X	X
Missouri	0		
Nebraska	0		
North Dakota	69		X
South Dakota	0		
SOUTH ATLANTIC	9,600		
Delaware	0		
District of Columbia	0		
Florida	0		
Georgia	0		
Maryland	0		
North Carolina	0		
South Carolina	0		
Virginia	9,600	X	
West Virginia	0		
EAST SOUTH CENTRAL	0		
Alabama	0		
Kentucky	0		
Mississippi	0		
Tennessee	0		
WEST SOUTH CENTRAL	0		
Arkansas	0		
Louisiana	0		
Oklahoma	0		
Texas	0		
MOUNTAIN	1,537		
Arizona	6	X	
Colorado	949	X	X
Idaho	9		X
Montana	17	X	
Nevada	0		
New Mexico	307	X	X
Utah	248	X	
Wyoming	0		
PACIFIC	276		
Alaska	0		
California	115	X	X
Hawaii	0		
Oregon	0		
Washington	161		
TERRITORIES	0		
Guam*			
Puerto Rico*			
Virgin Islands	0		

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 52: ENVIRONMENTAL CHEMISTRY - Air Samples

Lab & Region	Number of Samples	Type of determinations		
		Particulates	Inorganics	Toxics
(1)	(2)	(3)	(4)	(5)
TOTAL	125,235	17	16	11
AVERAGE	5,445			
NEW ENGLAND	988			
Connecticut	425		X	X
Massachusetts	0			
Maine	306		X	X
New Hampshire	0			
Rhode Island	257			
Vermont	0			
MIDDLE ATLANTIC	0			
New Jersey	0			
New York*				
Pennsylvania	0			
EAST NORTH CENTRAL	4,868			
Illinois	14			X
Indiana	0			
Michigan	0			
Ohio	0			
Wisconsin	4,854	X	X	
WEST NORTH CENTRAL	4,089			
Iowa	2,101	X	X	
Kansas	0			
Minnesota	650	X	X	X
Missouri	0		X	
Nebraska	6			
North Dakota	349	X		
South Dakota	983	X		
SOUTH ATLANTIC	19,896			
Delaware	0			
District of Columbia	0			
Florida	0			
Georgia	0			
Maryland	17,316	X	X	X
North Carolina	580	X	X	X
South Carolina	0			
Virginia	2,000	X	X	X
West Virginia	0			
EAST SOUTH CENTRAL	1,464			
Alabama	0			
Kentucky	0			
Mississippi	0			
Tennessee	1,464	X		
WEST SOUTH CENTRAL	2,100			
Arkansas	0			
Louisiana	0			
Oklahoma	0			
Texas	2,100	X	X	X
MOUNTAIN	19,312			
Arizona	980	X	X	
Colorado	6,000	X		X
Idaho	2,725	X		
Montana	9,447	X	X	
Nevada	10	X	X	
New Mexico	0			
Utah	150		X	
Wyoming	0			
PACIFIC	72,518			
Alaska	0			
California	4,026	X	X	X
Hawaii	68,492	X	X	X
Oregon	0			
Washington	0			
TERRITORIES	0			
Guam*				
Puerto Rico*				
Virgin Islands	0			

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 53: ENVIRONMENTAL CHEMISTRY - Air Pollution Samples

Lab & Region	Number of Samples	Type of activity							Number of Continuous Sampling Stations
		Number of Stations	Discrete Sampling Stations				Gaseous	Other	
			Particulate						
(1)	(2)	(3)	Solids (4)	Metals (5)	Organics (6)	Other (7)	(8)	(9)	(10)
TOTAL	97,942	368	10	10	3	5	5	2	145
AVERAGE	6,121								
NEW ENGLAND	52,676								
Connecticut	6,676	47	X	X				X	6
Massachusetts	0								
Maine	0								
New Hampshire	0								
Rhode Island	46,000	12							5
Vermont	0								
MIDDLE ATLANTIC	0								
New Jersey	0								
New York*	0								
Pennsylvania	0								
EAST NORTH CENTRAL	1,037								
Illinois	0								
Indiana	0								
Michigan	0								
Ohio	1,037	12	X						
Wisconsin	0								
WEST NORTH CENTRAL	5,052								
Iowa	2,013	33	X	X			X		12
Kansas	2,345	40							
Minnesota	345	NA							NA
Missouri	0								
Nebraska	0								
North Dakota	349	7	X						15
South Dakota	0								
SOUTH ATLANTIC	16,099								
Delaware	0								
District of Columbia	0								
Florida	0								
Georgia	0								
Maryland	12,599	15	X	X	X		X	X	62
North Carolina	0								
South Carolina	0								
Virginia	3,500	2							
West Virginia	0								
EAST SOUTH CENTRAL	1,464								
Alabama	0								
Kentucky	0								
Mississippi	0								
Tennessee	1,464	25		X			X		16
WEST SOUTH CENTRAL	0								
Arkansas	0								
Louisiana	0								
Oklahoma	0								
Texas	0								
MOUNTAIN	19,379								
Arizona	0								
Colorado	6,000	57	X	X		X			14
Idaho	0								
Montana	9,447	48	X	X			X		5
Nevada	0								
New Mexico	3,500	46	X	X		X			
Utah	432	4		X		X			
Wyoming	0								
PACIFIC	2,235								
Alaska	0								
California	593	5	X	X	X	X			
Hawaii	1,642	15	X	X	X	X	X		8
Oregon	0								
Washington	0								
TERRITORIES	0								
Guam *									
Puerto Rico *									
Virgin Islands	0								

*New York, Guam and Puerto Rico did not report for fiscal year 1981

TABLE 54: ENVIRONMENTAL CHEMISTRY - Radiological Analysis Samples

Lab & Region (1)	Number of Samples (2)	Type of sample								Other (10)
		Air (3)	Water (4)	Milk (5)	Food (6)	Silt (7)	Soil (8)	Wipes from Instruments (9)		
TOTAL	47,043	18	25	17	15	13	19	22		
AVERAGE	1,809									
NEW ENGLAND	4,215									
Connecticut	916	X	X	X	X		X	X	Fish/shellfish, vegetation, charcoal filter	
Massachusetts	0									
Maine	1,985	X	X	X	X		X	X		
New Hampshire	0									
Rhode Island	386	X	X					X		
Vermont	928	X	X	X	X	X	X	X		
MIDDLE ATLANTIC	0									
New Jersey	0									
New York*										
Pennsylvania	0									
EAST NORTH CENTRAL	7,773									
Illinois	0									
Indiana	303		X					X		
Michigan	0									
Ohio	2,150	X	X		X	X	X	X	Vegetation	
Wisconsin	5,320	X	X	X	X	X	X	X		
WEST NORTH CENTRAL	7,463									
Iowa	3,034	X	X	X	X					
Kansas	1,923								Sediments, biota, fish, algae, root aquatics, precipitation, food vegetation	
Minnesota	419	X	X	X	X	X	X	X		
Missouri	458		X					X		
Nebraska	1,512	X	X	X	X	X	X	X		
North Dakota	117	X	X					X		
South Dakota	0									
SOUTH ATLANTIC	14,009									
Delaware	0									
District of Columbia	0									
Florida	0									
Georgia	0									
Maryland	5,592	X	X	X	X			X	Vegetation, filters	
North Carolina	2,617	X	X	X	X	X	X	X		
South Carolina	0									
Virginia	5,800	X	X	X			X	X		
West Virginia	0									
EAST SOUTH CENTRAL	950									
Alabama	0									
Kentucky	0									
Mississippi	0									
Tennessee	950	X	X	X		X	X	X		
WEST SOUTH CENTRAL	5,362									
Arkansas	987		X	X	X	X	X	X	Fish, vegetation	
Louisiana	561		X	X	X	X	X	X		
Oklahoma	1,659		X				X			
Texas	2,175	X	X	X	X	X	X	X	Vegetation	
MOUNTAIN	3,055									
Arizona	0									
Colorado	738	X	X	X			X	X		
Idaho	0									
Montana	0									
Nevada	0		X							
New Mexico	2,141		X			X	X	X	Radio cannister, radioactive waste, air filters	
Utah	176						X			
Wyoming	0									
PACIFIC	4,216									
Alaska	0									
California	2,900	X	X	X	X	X	X	X	Frog, Kelp, Sheepshead, Mushroom, Seahare, Creosote, Yucca Plant, Mac cat litter, concrete, steel bar, soot, filings filter core, optical instruments, we fertilizer, glass, etc.	
Hawaii	0									
Oregon	0									
Washington	1,316	X	X	X	X	X	X	X	Veg., Fish/Shellfish, QC (ie EPA/EML), Vadose, 1/41y comp.	
TERRITORIES	0									
Guam *										
Puerto Rico *										
Virgin Islands	0									

*New York, Guam and Puerto Rico did not report in fiscal year 1991

TABLE 55: ENVIRONMENTAL CHEMISTRY -
Other Environmental Chemistry Samples

Lab & Region (1)	Number of Samples (2)	Type of sample (3)
TOTAL	30,403	
AVERAGE	1,900	
NEW ENGLAND	5,441	
Connecticut	5,441	Lead abatement-wipes, soil; Lead school drinking water program; Quality control, proficiency samples for all divisional sections
Massachusetts	0	
Maine	0	
New Hampshire	0	
Rhode Island	0	
Vermont	0	
MIDDLE ATLANTIC	25	
New Jersey	0	
New York*	0	
Pennsylvania	25	lead in water
EAST NORTH CENTRAL	120	
Illinois	120	Wipe samples, soil, pesticide USE dilutions, carpet, wood, dust
Indiana	0	
Michigan	0	
Ohio	0	
Wisconsin	0	
WEST NORTH CENTRAL	1,146	
Iowa	0	
Kansas	703	Quality Assurance, Fish
Minnesota	98	Surface water discharge, test for asbestos
Missouri	0	
Nebraska	0	
North Dakota	345	Performance Evaluation, Samples from various (all) programs
South Dakota	0	
SOUTH ATLANTIC	10,210	
Delaware	0	
District of Columbia	0	
Florida	0	
Georgia	0	
Maryland	10,071	Pesticide residues, Toxus-Gas Chromatography/Mass Spectrometry
North Carolina	139	Isocyanates, ozone, benzidines, silica, cotton dust weight
South Carolina	0	
Virginia	0	
West Virginia	0	
EAST SOUTH CENTRAL	530	
Alabama	0	
Kentucky	530	Milk for pesticides, air sampling for CHR facilities, Insect ID, Asbestos, Other
Mississippi	0	
Tennessee	0	
WEST SOUTH CENTRAL	8,273	
Arkansas	0	
Louisiana	8,549	Sewage & waste water (BOD), shellfish water, trihalomethanes, VOCs
Oklahoma	1,724	Radon
Texas	0	
MOUNTAIN	939	
Arizona	47	Miscellaneous bulk materials, some extracts
Colorado	741	Consumer Protection, Miscellaneous Organic Identification
Idaho	0	
Montana	0	
Nevada	0	
New Mexico	150	Proficiency testing sludges
Utah	0	
Wyoming	0	
PACIFIC	3,720	
Alaska	0	
California	3,650	Drugs, cosmetics, ceramics, gasoline (Pb, Mn, P, S, Br)
Hawaii	0	
Oregon	0	
Washington	70	Paint chips, pottery, shellfish, soil, transformer oil, carpet swabs, clothing
TERRITORIES	0	
Guam *		
Puerto Rico *		
Virgin Islands	0	

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 56: OCCUPATIONAL SAFETY AND HEALTH
Environmental Samples

Lab & Region (1)	Total Environmental Samples (2)	Type of Sample	
		Bulk Material for Asbestos (3)	Environmental (4)
TOTAL	70,219	20,871	49,348
AVERAGE	2,801	896	1,845
NEW ENGLAND	4,310	3,424	886
Connecticut	3,590	3,248	342
Massachusetts	540	0	540
Maine	77	77	0
New Hampshire	103	99	4
Rhode Island	0	0	0
Vermont	0	0	0
MIDDLE ATLANTIC	773	11	762
New Jersey	773	11	762
New York*	0	0	0
Pennsylvania	0	0	0
EAST NORTH CENTRAL	37,802	4,766	33,036
Illinois	1,525	1,227	298
Indiana	2,370	443	1,927
Michigan	0	0	0
Ohio	3,037	96	2,941
Wisconsin	30,870	3,000	27,870
WEST NORTH CENTRAL	9,265	4,669	4,596
Iowa	8,039	3,568	4,471
Kansas	337	337	0
Minnesota	521	396	125
Missouri	0	0	0
Nebraska	368	368	0
North Dakota	0	0	0
South Dakota	0	0	0
SOUTH ATLANTIC	12,373	4,214	8,159
Delaware	0	0	0
District of Columbia	0	0	0
Florida	1,194	513	681
Georgia	0	0	0
Maryland	7,091	1,054	6,037
North Carolina	192	192	0
South Carolina	2,898	1,555	1,341
Virginia	1,000	900	100
West Virginia	0	0	0
EAST SOUTH CENTRAL	2,064	515	1,549
Alabama	0	0	0
Kentucky	1,714	165	1,549
Mississippi	0	0	0
Tennessee	350	350	0
WEST SOUTH CENTRAL	2,841	2,586	255
Arkansas	1,378	1,378	0
Louisiana	5	0	5
Oklahoma	1,008	1,008	0
Texas	450	200	250
MOUNTAIN	791	686	105
Arizona	35	25	10
Colorado	0	0	0
Idaho	0	0	0
Montana	47	0	47
Nevada	0	0	0
New Mexico	0	0	0
Utah	709	661	48
Wyoming	0	0	0
PACIFIC	0	0	0
Alaska	0	0	0
California	0	0	0
Hawaii	0	0	0
Oregon	0	0	0
Washington	0	0	0
TERRITORIES	0	0	0
Guam*			
Puerto Rico*			
Virgin Islands	0	0	0

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 57: TOXICOLOGY - Physical Samples

Lab & Region (1)	Total Physical Toxicology Samples (2)
TOTAL	98,505
AVERAGE	2,871
NEW ENGLAND	68,870
Connecticut	23,786
Massachusetts	34,740
Maine	363
New Hampshire	363
Rhode Island	9,547
Vermont	71
MIDDLE ATLANTIC	111
New Jersey	106
New York*	0
Pennsylvania	5
EAST NORTH CENTRAL	1,917
Illinois	1,004
Indiana	89
Michigan	467
Ohio	104
Wisconsin	253
WEST NORTH CENTRAL	9,527
Iowa	41
Kansas	1
Minnesota	0
Missouri	0
Nebraska	19
North Dakota	8,109
South Dakota	1,357
SOUTH ATLANTIC	14,503
Delaware	0
District of Columbia	273
Florida	0
Georgia	0
Maryland	11,102
North Carolina	358
South Carolina	1,120
Virginia	1,650
West Virginia	0
EAST SOUTH CENTRAL	104
Alabama	0
Kentucky	104
Mississippi	0
Tennessee	0
WEST SOUTH CENTRAL	294
Arkansas	220
Louisiana	49
Oklahoma	0
Texas	25
MOUNTAIN	210
Arizona	10
Colorado	95
Idaho	0
Montana	23
Nevada	0
New Mexico	69
Utah	13
Wyoming	0
PACIFIC	969
Alaska	0
California	892
Hawaii	77
Oregon	0
Washington	0
TERRITORIES	0
Guam*	0
Puerto Rico*	0
Virgin Islands	0

*Virgin Islands submitted only total number of Physical Samples
 *New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 57A: TOXICOLOGY-Physical Samples-Forensic

Lab & Region	Type of sample										Type of sample	
	Liquids for Alcohol	Pesti- cides	PCB's	Plant & Plant Material	Drugs and Narcotics	Articles for Blood Stains	Paint Compar- ison	Paint - Lead	Fibers and Hairs	Gunpowder Residues	Number of Samples	Other
												Type of Sample
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12)
TOTAL	2,101	15	0	18,978	44,415	3,247	31	0	1,787	516	8,294	
AVERAGE	210	15	0	1,868	4,935	1,082	31	0	884	516	1,382	
NEW ENGLAND	312	0	0	17,120	42,702	2,301	0	0	1,048	0	4,399	
Connecticut	182			7,510	11,325	1,875			1,048		1,802	Clothing for seminal stains Fire accelerants
Massachusetts	46			7,725	28,412						248	
Maine				195	168							
New Hampshire												
Rhode Island	83			1,890	4,797	426					2,551	Articles for body fluid stains
Vermont	1											
MIDDLE ATLANTIC	0	0	0	0	0	0	0	0	0	0	0	
New Jersey												
New York*												
Pennsylvania												
EAST NORTH CENTRAL	955	15	0	7	4	0	0	0	0	0	78	
Illinois	898	15		1							39	Criminal tampering with food
Indiana												
Michigan												
Ohio	57			6	4						2	Pipes
											3	Containers
											32	Miscellaneous
Wisconsin												
WEST NORTH CENTRAL	22	0	0	1,829	1,620	948	31	0	721	516	3,781	
Iowa												
Kansas												
Minnesota												
Missouri												
Nebraska												
North Dakota	22			980	1,112	948	31		721	516	863	Firearms
											1,940	Latent fingerprints
											103	Tool marks
											1,038	Arson, trace explosives, glass chips, tear & fracture matches, special photographs
South Dakota				849	508							
SOUTH ATLANTIC	800	0	0	0	0	0	0	0	0	0	0	
Delaware												
District of Columbia												
Florida												
Georgia												
Maryland												
North Carolina												
South Carolina												
Virginia	800											
West Virginia												
EAST SOUTH CENTRAL	0	0	0	0	0	0	0	0	0	0	0	
Alabama												
Kentucky												
Mississippi												
Tennessee												
WEST SOUTH CENTRAL	0	0	0	0	0	0	0	0	0	0	0	
Arkansas												
Louisiana												
Oklahoma												
Texas												
MOUNTAIN	12	0	0	20	12	0	0	0	0	0	38	
Arizona												
Colorado												
Idaho												
Montana												
Nevada												
New Mexico	9			10	12						13	pills, tablets, powders
											25	baits, strychnine
Utah	3			10								
Wyoming												
PACIFIC	0	0	0	0	77	0	0	0	0	0	0	
Alaska												
California												
Hawaii					77							
Oregon												
Washington												
TERRITORIES	0	0	0	0	0	0	0	0	0	0	0	
Guam*												
Puerto Rico*												
Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	

*Guam, Puerto Rico and Virgin Islands did not report for fiscal year 1991

TABLE 57B: TOXICOLOGY-Physical Samples-Other

Lab & Region (1)	Type of determination											Other	
	Liquids for Alcohol (2)	Pesticides (3)	PCB's (4)	Plant & Plant Material (5)	Drugs and Narcotics (6)	Article for Blood Stains (7)	Paint Comparison (8)	Paint - Lead (9)	Fibers and Hairs (10)	Gunpowder Residues (11)	Number of Specimen (12)	Type of Sample (13)	
TOTAL AVERAGE	3	521	374	0	380	0	117	10,227	0	0	5,521		
NEW ENGLAND	2	0	0	0	5	0	0	867	0	0	116		
Connecticut													
Massachusetts								557					
Maine													
New Hampshire					5			243			18	Soil (lead)	
											15	Earthenware (lead)	
											82	Wipes (lead)	
Rhode Island													
Vermont	2							67			1	ethylene glycol in water	
MIDDLE ATLANTIC	0	0	0	0	5	0	0	106	0	0	0		
New Jersey								106					
New York*													
Pennsylvania					5								
EAST NORTH CENTRAL	0	27	24	0	36	0	76	697	0	0	0		
Illinois		27	24										
Indiana					13			76					
Michigan								467					
Ohio													
Wisconsin					23			230					
WEST NORTH CENTRAL	1	0	0	0	0	0	0	47	0	0	13		
Iowa								41					
Kansas	1												
Minnesota													
Missouri								X					
Nebraska								6			13	soil-lead	
North Dakota													
South Dakota													
SOUTH ATLANTIC	0	488	350	0	42	0	0	7,529	0	0	5,294		
Delaware													
District of Columbia								273					
Florida													
Georgia													
Maryland								6,012			7	Ceramics (lead)	
											7	Ceramics (cadmium)	
											5,076	Dust	
North Carolina		33						155			13	Pesticides (water)	
											12	Pesticides (soil)	
											145	Soils (lead)	
South Carolina		55			42			969			25	Non-metals	
											4	AFLA toxins	
											5	Formaldehyde	
Virginia		400	350					100					
West Virginia													
EAST SOUTH CENTRAL	0	0	0	0	68	0	0	36	0	0	0		
Alabama													
Kentucky					68			36					
Mississippi													
Tennessee													
WEST SOUTH CENTRAL	0	6	0	0	222	0	41	20	0	0	5		
Arkansas					220								
Louisiana		6			2			41					
Oklahoma													
Texas								20			5	Pottery, lead	
MOUNTAIN	0	0	0	0	2	0	0	33	0	0	93		
Arizona					2			10					
Colorado											93	Safety testing of children's articles	
Idaho													
Montana													
Nevada								23					
New Mexico													
Utah													
Wyoming													
PACIFIC	0	0	0	0	0	0	0	892	0	0	0		
Alaska													
California								892					
Hawaii													
Oregon													
Washington													
TERRITORIES	0	0	0	0	0	0	0	0	0	0	0		
Guam* Puerto Rico*													
Virgin Islands	0	0	0	0	0	0	0	0	0	0	0		

*New York, Guam and Puerto Rico did not report for fiscal year 1991

**OTHER LABORATORY
WORKLOADS**

TABLE 58: LABORATORY IMPROVEMENT PROGRAM -
Number of Laboratories and LIP Personnel

Lab & Region	Number of Professional/ Technical and Non-Technical Positions in LIP	Number of laboratories				
		Clinical	Public Health	Physicians' Office	Dairy/Food	Water
(1)	(2)	(3)	(4)	(5)	(6)	(7)
TOTAL	272.20	5,017	777	15,807	175	2237
AVERAGE	6.64	228	27	1,216	10	97
NEW ENGLAND	6.50	699	7	850	41	192
Connecticut	4.00	179	5	NA	5	127
Massachusetts	NA	303	NA	NA	26	NA
Maine	1.20	114	1	250	NA	26
New Hampshire	0.30	3	0	NA	1	NA
Rhode Island	0.50	74	0	600	1	24
Vermont	0.50	26	1	NA	8	15
MIDDLE ATLANTIC	28.00	1,372	17	4,649	NA	485
New Jersey	7.00	572	0	NA	NA	485
New York*						
Pennsylvania	21.00	800	17	4,649	NA	NA
EAST NORTH CENTRAL	34.80	235	73	0	31	78
Illinois	2.00	235	12	NA	31	78
Indiana	2.80	NA	0	NA	NA	NA
Michigan	7.00	NA	52	NA	NA	NA
Ohio	8.00	NA	9	NA	NA	NA
Wisconsin	15.00	NA	NA	NA	NA	NA
WEST NORTH CENTRAL	16.50	453	132	24	14	73
Iowa	1.00	167	8	NA	NA	48
Kansas	12.00	NA	100	NA	NA	NA
Minnesota	2.00	NA	NA	NA	NA	NA
Missouri	1.00	NA	7	NA	NA	NA
Nebraska	0.00	114	4	NA	0	13
North Dakota	0.50	172	12	24	14	12
South Dakota	0.00	NA	1	NA	NA	NA
SOUTH ATLANTIC	57.70	520	112	1,957	28	99
Delaware	NA	25	1	NA	NA	9
District of Columbia	NA	NA	NA	NA	NA	NA
Florida	18.00	NA	NA	NA	NA	NA
Georgia	0.00	NA	NA	NA	NA	NA
Maryland	18.50	300	8	1,800	20	90
North Carolina	13.00	NA	101	NA	NA	NA
South Carolina	1.00	NA	NA	NA	6	NA
Virginia	4.00	NA	NA	NA	NA	NA
West Virginia	3.20	195	2	157	NA	NA
EAST SOUTH CENTRAL	18.80	230	154	2,000	25	27
Alabama	5.30	NA	NA	NA	5	27
Kentucky	3.50	230	151	2,000	20	NA
Mississippi	0.00	NA	3	NA	NA	NA
Tennessee	10.00	NA	NA	NA	NA	NA
WEST SOUTH CENTRAL	5.50	NA	25	0	19	81
Arkansas	2.00	NA	0	NA	NA	NA
Louisiana	2.00	NA	NA	NA	7	16
Oklahoma	0.50	NA	NA	NA	NA	NA
Texas	1.00	NA	25	NA	12	65
MOUNTAIN	30.50	1,367	119	5,427	11	167
Arizona	16.00	961	21	1,386	NA	NA
Colorado	2.00	160	10	3,000	4	78
Idaho	3.00	71	6	366	NA	NA
Montana	1.00	NA	NA	NA	NA	9
Nevada	0.50	NA	NA	NA	4	29
New Mexico	1.00	125	3	NA	2	33
Utah	6.00	NA	13	500	NA	NA
Wyoming	1.00	50	66	175	1	18
PACIFIC	60.10	140	137	900	8	1035
Alaska	NA	NA	NA	NA	NA	NA
California	53.50	NA	62	NA	NA	900
Hawaii	1.10	NA	NA	NA	8	14
Oregon	5.50	140	75	900	NA	44
Washington	NA	NA	NA	NA	NA	77
TERRITORIES	14.00	1	1	0	0	0
Guam *						
Puerto Rico *						
Virgin Islands	14.00	1	1	0	NA	NA

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 59: LABORATORY IMPROVEMENT PROGRAM - Clinical Laboratories

Lab & Region	Number of Labs in State	Number of Labs Licensed/Registered Approved/Certified by State	Number by LIP				Other	Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
			Licensed/Registered Approved	Permits/Approved	Registered	Certified		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
TOTAL	5,017	7,384	6,820	71	1,279			
AVERAGE	218	231	284	71	107			
NEW ENGLAND	699	825	487	0	90			
Connecticut	179	249	249	0	90	Dog(12), Blood banks(30), blood drawing	Dept. of Health Services	
Massachusetts	303	185	185	0	0		DPH - DHCO	
Maine	114	114	33	0	0		44 by Hospital Licensure & Certification	
New Hampshire	3	3	0	0	0		Bureau of Health Facilities Administration	
Rhode Island	74	74	0	0	0		Facilities Regulation, Dept. of Health	
Vermont	26	0	0	0	0			
MIDDLE ATLANTIC	1,372	1,372	1,340	0	411			
New Jersey	572	572	540	0	137			
New York*								
Pennsylvania	800	800	800	0	274	CLIA (96)	Health-Bureau of Labs	
EAST NORTH CENTRAL	235	1,030	795	0	140			
Illinois	235	235	0	0	0		Ill. Dept. of Public Hlth Div. Hlth Care Facilities	
Indiana	NA	162	162	0	0		Acute Care Services Div., Indiana State Board of Health	
Michigan	NA	375	375	0	140		Dept. of Public Health	
Ohio	NA	258	258	0	0			
Wisconsin	NA	NA	0	0	0		DHSS	
WEST NORTH CENTRAL	453	710	423	0	283			
Iowa	187	187	187	0	88		Iowa Dept. of Inspections & Appeals	
Kansas	NA	204	106	0	195		KDHE	
Minnesota	NA	0	0	0	0		Dept. of Health	
Missouri	NA	150	150	0	0		Public Health Laboratory & Bureau of Hospital Lic.	
Nebraska	114	114	0	0	0		Health Facilities Standards Bureau	
North Dakota	172	17	0	0	0		Health Facilities	
South Dakota	NA	58	0	0	0		Div. of Public Health Certification, Dept. of Health	
SOUTH ATLANTIC	520	398	350	0	98			
Delaware	25	25	25	0	25			
District of Columbia	NA	NA	0	0	0		Dept. of Consumer & Regulatory Affairs	
Florida	NA	NA	0	0	0		HRS Office of Licensure & Certification	
Georgia	NA	NA	0	0	0		Office of Reg. Services, GA Dept. of Human Resources	
Maryland	300	300	300	0	0		Laboratories Administration State Health Dept.	
North Carolina	NA	NA	0	0	0			
South Carolina	NA	NA	0	0	0		DHEC Bureau of Certification	
Virginia	NA	NA	0	0	0			
West Virginia	195	73	25	0	73		Dept. of Health & Human Resources	
EAST SOUTH CENTRAL	230	129	152	0	88			
Alabama	NA	59	59	0	0		State Lab	
Kentucky	230	70	93	0	88		Div. of Licensure & Regulations	
Mississippi	NA	NA	0	0	0		Public Health Laboratory	
Tennessee	NA	NA	0	0	0			
WEST SOUTH CENTRAL	NA	233	618	0	0			
Arkansas	NA	46	46	0	0			
Louisiana	NA	NA	0	0	0			
Oklahoma	NA	187	187	0	0			
Texas	NA	NA	385	0	0		Health-Facility Lic. Bur.	
MOUNTAIN	1,387	548	335	71	171			
Arizona	981	281	200	0	81			
Colorado	180	94	0	0	0		Health Facilities Div.	
Idaho	71	71	0	71	0		ID Dept. H & W	
Montana	NA	NA	0	0	0			
Nevada	NA	NA	0	0	0		Health Division	
New Mexico	125	NA	85	0	40	61 labs approved for RPR & Rubella	Licensing & Certification (DOH) SLD for RPR & Rubella only	
Utah	NA	50	0	0	50			
Wyoming	50	50	50	0	0			
PACIFIC	140	2,340	2,340	0	0			
Alaska	NA	NA	0	0	0	23-voluntary Syphilis P.T. program		
California	NA	2,200	2,200	0	0		CA Dept. of Health Services	
Hawaii	NA	NA	0	0	0			
Oregon	140	140	140	0	0		Health Division/PHL	
Washington	NA	NA	0	0	0			
TERRITORIES	1	1	0	0	0			
Guam *								
Puerto Rico *								
Virgin Islands	1	1						

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 59: LABORATORY IMPROVEMENT PROGRAM - Clinical Laboratories
Activity of LIP Staff

Lab & Region	Proficiency Testing										
	Bacteriology	Mycology	Parasitology	Virology	Immunology		Hematology	Clinical Chemistry	Pathology	Environmental Microbiology	Environmental Chemistry
					Syphilis Serology	Non-Syphilis Serology					
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
TOTAL	17	14	15	11	23	16	15	15	3	3	2
NEW ENGLAND											
Connecticut	X	X	X	X	X	X	X	X			
Massachusetts											
Maine	X	X	X		X	X	X	X			
New Hampshire											
Rhode Island											
Vermont											
MIDDLE ATLANTIC											
New Jersey	X	X	X	X	X	X	X	X			
New York*											
Pennsylvania	X	X	X	X	X	X	X	X			
EAST NORTH CENTRAL											
Illinois					X						
Indiana					X						
Michigan	X	X	X	X	X	X	X	X			
Ohio	X	X	X	X	X	X	X	X			
Wisconsin	X	X	X	X	X	X	X	X			
WEST NORTH CENTRAL											
Iowa	X	X	X		X	X	X	X			
Kansas	X	X	X	X	X	X	X	X	X		
Minnesota											
Missouri					X						
Nebraska											
North Dakota											
South Dakota											
SOUTH ATLANTIC											
Delaware											
District of Columbia											
Florida											
Georgia											
Maryland	X	X	X	X	X	X	X	X	X		
North Carolina	X				X						
South Carolina											
Virginia											
West Virginia	X		X		X	X	X	X		X	X
EAST SOUTH CENTRAL											
Alabama											
Kentucky					X						
Mississippi											
Tennessee											
WEST SOUTH CENTRAL											
Arkansas	X	X	X		X						
Louisiana											
Oklahoma					X						
Texas											
MOUNTAIN											
Arizona										X	
Colorado											
Idaho	X				X	X	X	X			
Montana											
Nevada											
New Mexico					X	X					
Utah	X	X	X	X	X	X	X	X			
Wyoming											
PACIFIC											
Alaska											
California	X	X	X	X	X	X	X	X	X		
Hawaii											
Oregon	X	X	X	X	X	X	X	X		X	X
Washington											
TERRITORIES											
Guam *											
Puerto Rico *											
Virgin Islands											

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 59: LABORATORY IMPROVEMENT PROGRAM - Clinical Laboratories
Activity of LIP Staff

Lab & Region	Proficiency Testing (continued)		Field Visits - LIP Program		
	Dairy/ Food	Other	Licensure/ Permit/ Approval	Certification	Other
(9)	(21)	(22)	(23)	(24)	(25)
TOTAL	2		18	14	
NEW ENGLAND					
Connecticut		Immunohematology	X	X	
Massachusetts			X	X	
Maine				X	
New Hampshire		Forensic Chemistry		X	
Rhode Island					
Vermont					
MIDDLE ATLANTIC					
New Jersey	X	Immunohematology	X	X	
New York*					
Pennsylvania		Other	X	X	Complaints
EAST NORTH CENTRAL					
Illinois		Alcohol	X		Consultation
Indiana					
Michigan			X	X	
Ohio					
Wisconsin					
WEST NORTH CENTRAL					
Iowa			X	X	
Kansas			X	X	Consultation
Minnesota					
Missouri	X		X		
Nebraska					
North Dakota					
South Dakota					
SOUTH ATLANTIC					
Delaware			X		
District of Columbia					
Florida					
Georgia					
Maryland		Cytology	X		Validation, complaint
North Carolina					
South Carolina					
Virginia			X	X	
West Virginia					
EAST SOUTH CENTRAL					
Alabama				X	
Kentucky					
Mississippi					
Tennessee					
WEST SOUTH CENTRAL					
Arkansas					
Louisiana				X	
Oklahoma					
Texas					
MOUNTAIN					
Arizona			X		Complaint Investigation
Colorado					
Idaho				X	
Montana					
Nevada					
New Mexico					
Utah			X	X	
Wyoming			X		
PACIFIC					
Alaska					
California			X		Investigations
Hawaii					
Oregon			X	X	
Washington					
TERRITORIES					
Guam*					
Puerto Rico*					
Virgin Islands			X		

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 59: LABORATORY IMPROVEMENT PROGRAM - Clinical Laboratories
Activity of LIP Staff

Lab & Region	Field Visits - Other Programs		
	Licensure/ Permit/ Approval	Certification	Other
(9)	(26)	(27)	(28)
TOTAL	6	4	
NEW ENGLAND			
Connecticut	X	X	
Massachusetts	X	X	ICAHQ Validation
Maine			
New Hampshire			
Rhode Island	X	X	
Vermont			
MIDDLE ATLANTIC			
New Jersey			
New York*			
Pennsylvania			
EAST NORTH CENTRAL			
Illinois			
Indiana			
Michigan			
Ohio			
Wisconsin			
WEST NORTH CENTRAL			
Iowa			
Kansas			
Minnesota			
Missouri			
Nebraska			
North Dakota			
South Dakota			
SOUTH ATLANTIC			
Delaware			
District of Columbia			
Florida			
Georgia			
Maryland			
North Carolina			
South Carolina			
Virginia			
West Virginia			
EAST SOUTH CENTRAL			
Alabama			
Kentucky	X	X	
Mississippi			
Tennessee			
WEST SOUTH CENTRAL			
Arkansas			
Louisiana			
Oklahoma	X		
Texas			
MOUNTAIN			
Arizona			
Colorado			
Idaho			
Montana			
Nevada			
New Mexico			
Utah			
Wyoming	X		
PACIFIC			
Alaska			
California			
Hawaii			
Oregon			
Washington			
TERRITORIES			
Guam *			
Puerto Rico *			
Virgin Islands			

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 59: LABORATORY IMPROVEMENT PROGRAM - Clinical Laboratories
Activity of LIP Staff

Lab & Region	Training	Consultation	Other
(9)	(28)	(30)	(31)
TOTAL	28	28	
NEW ENGLAND			
Connecticut	X	X	
Massachusetts			
Maine	X	X	
New Hampshire			
Rhode Island	X	X	
Vermont			
MIDDLE ATLANTIC			
New Jersey		X	
New York*			
Pennsylvania	X	X	Guest Lectures
EAST NORTH CENTRAL			
Illinois		X	
Indiana			
Michigan			
Ohio		X	Enforcement
Wisconsin	X	X	
WEST NORTH CENTRAL			
Iowa	X	X	
Kansas	X	X	
Minnesota			
Missouri	X	X	
Nebraska			
North Dakota			
South Dakota			
SOUTH ATLANTIC			
Delaware	X	X	
District of Columbia			
Florida			
Georgia			
Maryland	X	X	
North Carolina	X	X	
South Carolina	X		
Virginia			
West Virginia	X	X	
EAST SOUTH CENTRAL			
Alabama			
Kentucky			
Mississippi			
Tennessee	X	X	
WEST SOUTH CENTRAL			
Arkansas	X	X	
Louisiana	X		
Oklahoma		X	
Texas	X		
MOUNTAIN			
Arizona	X	X	Rule Development
Colorado	X	X	
Idaho	X	X	
Montana		X	
Nevada			
New Mexico			
Utah	X	X	
Wyoming	X	X	Inspection
PACIFIC			
Alaska	X	X	
California	X	X	
Hawaii			
Oregon	X	X	
Washington			
TERRITORIES			
Guam *			
Puerto Rico *			
Virgin Islands	X	X	

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 60: LABORATORY IMPROVEMENT PROGRAM - Public Health Laboratories

Lab & Region (1)	Number of Labs in State (2)	Number of Labs Licensed/Registered/ Approved/Certified by State (3)	Number in LIP				Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories (8)
			Licensed/ Permits/ Approved (4)	Registered (5)	Certified (6)	Other (7)	
TOTAL	777	273	191	6	75		
AVERAGE	27	12	12	6	9		
NEW ENGLAND	7	5	5	0	0		
Connecticut	5	5	5	0	0		Dept. of Health Services-Laboratory Division
Massachusetts	NA	NA	0	0	0		
Maine	1	0	0	0	0		
New Hampshire	0	0	0	0	0		
Rhode Island	0	0	0	0	0		
Vermont	1	0	0	0	0		
MIDDLE ATLANTIC	17	47	32	0	1		
New Jersey	0	30	30	0	0		
New York*							
Pennsylvania	17	17	2	0	1		Health-Bureau of Labs
EAST NORTH CENTRAL	73	31	18	0	5		
Illinois	12	8	0	0	0		Ill. Dept. of Public Health/Div. Health Care Facilities
Indiana	0	5	0	0	5		
Michigan	52	9	9	0	0		Dept. of Public Health
Ohio	9	8	9	0	0		
Wisconsin	NA	NA	0	0	0		DHSS
WEST NORTH CENTRAL	132	15	7	0	1		
Iowa	8	8	0	0	0		Iowa Dept. of Inspections & Appeals
Kansas	100	3	3	0	1		Regional Office, Kansas Dept. of Health & Environment
Minnesota	NA	0	0	0	0		Dept. of Health
Missouri	7	0	4	0	0		Public Health Laboratory & Bureau of Hospital Licensing
Nebraska	4	4	0	0	0		Health Facilities Standards Bureau
North Dakota	12	0	0	0	0		3-certification of water
South Dakota	1	0	0	0	0		Div. of Public Health/Licensure & Certification Program
SOUTH ATLANTIC	112	10	9	0	2		
Delaware	1	1	1	0	1		
District of Columbia	NA	NA	0	0	0		Dept. of Consumer & Regulatory Affairs
Florida	NA	NA	0	0	0		HRS Office of Licensure & Certification
Georgia	NA	NA	0	0	0		Office of Regulatory Services, Georgia Dept. of Human Resources
Maryland	8	8	8	0	0		Laboratories Administration State Health Department
North Carolina	101	0	0	0	0		101-Voluntary prof. test
South Carolina	NA	NA	0	0	0		DHEC Bureau of Certification
Virginia	NA	NA	0	0	0		
West Virginia	2	1	0	0	1		Dept. of Health & Human Resources
EAST SOUTH CENTRAL	154	3	0	0	4		
Alabama	NA	NA	0	0	0		
Kentucky	151	0	0	0	2		108 on-site consultations None
Mississippi	3	3	0	0	2		Public Health Laboratory
Tennessee	NA	NA	0	0	0		
WEST SOUTH CENTRAL	25	6	30	0	0		
Arkansas	0	3	2	0	0		
Louisiana	NA	NA	0	0	0		
Oklahoma	NA	3	3	0	0		
Texas	25	0	25	0	0		
MOUNTAIN	119	90	87	6	0		
Arizona	21	18	18	0	0		
Colorado	10	0	0	0	0		Health Facilities Division
Idaho	6	6	0	6	0		ID Dept of H & W-Bureau of Laboratories
Montana	NA	NA	0	0	0		
Nevada	NA	NA	0	0	0		Health Division
New Mexico	3	0	3	0	0		
Utah	13	0	0	0	0		
Wyoming	66	66	66	0	0		
PACIFIC	137	65	3	0	62		
Alaska	NA	NA	0	0	0		
California	62	62	0	0	62		CA Dept. of Health Services
Hawaii	NA	NA	0	0	0		
Oregon	75	3	3	0	0		Health Division / PHL
Washington	NA	NA	0	0	0		
TERRITORIES	1	1	0	0	0		
Guam *							
Puerto Rico *							
Virgin Islands	1	1					

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 60A: LABORATORY IMPROVEMENT PROGRAM—Public Health Laboratories
Activity of LIP Staff

Lab & Region	Proficiency Testing										
	Bacteriology	Mycology	Parasi- tology	Virology	Immunology		Hematology	Clinical Chemistry	Pathology	Environmental Microbiology	Environmental Chemistry
					Syphilis Serology	Non-Syphilis Serology					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
TOTAL	18	10	13	8	22	14	14	14	2	12	11
NEW ENGLAND											
Connecticut	X	X	X		X	X	X	X			X
Massachusetts											
Maine	X	X	X	X	X	X		X			X
New Hampshire											
Rhode Island											
Vermont											
MIDDLE ATLANTIC											
New Jersey	X	X	X	X	X	X	X	X			
New York*											
Pennsylvania	X	X	X	X	X	X	X	X			
EAST NORTH CENTRAL											
Illinois					X						
Indiana											
Michigan	X	X	X	X	X	X	X	X			
Ohio	X	X	X		X	X	X	X			X
Wisconsin	X	X	X	X	X	X	X	X			
WEST NORTH CENTRAL											
Iowa	X	X	X		X	X	X				
Kansas	X		X	X	X	X	X	X			
Minnesota											
Missouri					X						
Nebraska											
North Dakota										X	
South Dakota											
SOUTH ATLANTIC											
Delaware											
District of Columbia											
Florida										X	X
Georgia											
Maryland	X	X	X	X	X	X	X	X	X	X	X
North Carolina	X				X		X	X		X	
South Carolina											
Virginia											
West Virginia					X						
EAST SOUTH CENTRAL											
Alabama											
Kentucky	X				X		X	X			
Mississippi										X	
Tennessee	X									X	X
WEST SOUTH CENTRAL											
Arkansas	X				X						
Louisiana										X	X
Oklahoma					X						
Texas											
MOUNTAIN											
Arizona										X	
Colorado											
Idaho	X				X	X	X	X			
Montana											
Nevada											
New Mexico					X	X					
Utah										X	X
Wyoming											
PACIFIC											
Alaska											
California	X	X	X	X	X	X	X	X	X		
Hawaii										X	X
Oregon	X		X		X	X	X	X		X	X
Washington											X
TERRITORIES											
Guam *											
Puerto Rico *											
Virgin Islands	X		X		X					X	

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 60A: LABORATORY IMPROVEMENT PROGRAM-Public Health Laboratories
Activity of LIP Staff (continued)

Lab & Region	Proficiency Testing (continued)		Field Visits - LIP Programs		
	Dairy/ Food	Other	Licensure/ Permit/ Approval	Certification	
(13)	(14)	(15)	(16)	(17)	(18)
TOTAL	13		10	9	
NEW ENGLAND					
Connecticut	X		X		
Massachusetts					
Maine					
New Hampshire					
Rhode Island					
Vermont					
MIDDLE ATLANTIC					
New Jersey				X	
New York*					
Pennsylvania		Other	X	X	Complains
EAST NORTH CENTRAL					
Illinois	X	Alcohol	X	X	Consultation
Indiana	X				
Michigan			X	X	
Ohio	X				
Wisconsin					
WEST NORTH CENTRAL					
Iowa		Blood Gas, Coagulation			
Kansas					Consultation
Minnesota					
Missouri	X		X		
Nebraska					
North Dakota	X			X	
South Dakota					
SOUTH ATLANTIC					
Delaware					
District of Columbia					
Florida					
Georgia					
Maryland	X		X		
North Carolina	X				
South Carolina					
Virginia	X		X		
West Virginia					
EAST SOUTH CENTRAL					
Alabama	X			X	
Kentucky					Onsite to improve laboratory quality
Mississippi					
Tennessee	X				
WEST SOUTH CENTRAL					
Arkansas				X	
Louisiana	X				
Oklahoma					
Texas				X	
MOUNTAIN					
Arizona			X		Complaint investigation
Colorado					
Idaho					
Montana					
Nevada					
New Mexico					
Utah					
Wyoming					
PACIFIC					
Alaska					
California			X		Investigation
Hawaii	X				
Oregon			X		
Washington					
TERRITORIES					
Guam *					
Puerto Rico *					
Virgin Islands				X	

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 60A: LABORATORY IMPROVEMENT PROGRAM-Public Health Laboratories
Activity of LIP Staff (continued)

Lab & Region	Field Visits - Other Programs		
	Licensure/ Permit/ Approval	Certification	Other
	(19)	(21)	(22)
TOTAL	2	3	
NEW ENGLAND			
Connecticut			
Massachusetts			
Maine			
New Hampshire			
Rhode Island			
Vermont			
MIDDLE ATLANTIC			
New Jersey			
New York*			
Pennsylvania			
EAST NORTH CENTRAL			
Illinois			
Indiana			
Michigan			
Ohio		X	
Wisconsin			
WEST NORTH CENTRAL			
Iowa	X	X	
Kansas			
Minnesota			
Missouri			
Nebraska			
North Dakota			
South Dakota			
SOUTH ATLANTIC			
Delaware			
District of Columbia			
Florida			
Georgia			
Maryland			
North Carolina			
South Carolina			
Virginia			
West Virginia			
EAST SOUTH CENTRAL			
Alabama			
Kentucky			
Mississippi			
Tennessee			
WEST SOUTH CENTRAL			
Arkansas			
Louisiana			
Oklahoma	X		
Texas			
MOUNTAIN			
Arizona			
Colorado			
Idaho		X	
Montana			
Nevada			
New Mexico			
Utah			
Wyoming			
PACIFIC			
Alaska			
California			
Hawaii			
Oregon			Consultation
Washington			
TERRITORIES			
Guam *			
Puerto Rico *			
Virgin Islands			

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 60A: LABORATORY IMPROVEMENT PROGRAM-Public Health Laboratories
Activity of LIP Staff (continued)

Lab & Region	Training	Consultation	Other
(23)	(24)	(25)	(26)
TOTAL	27	27	
NEW ENGLAND			
Connecticut	X	X	
Massachusetts			
Maine	X	X	
New Hampshire			
Rhode Island			
Vermont			
MIDDLE ATLANTIC			
New Jersey			
New York*			
Pennsylvania	X	X	Guest lectures
EAST NORTH CENTRAL			
Illinois		X	
Indiana			
Michigan			Enforcement
Ohio			
Wisconsin	X	X	
WEST NORTH CENTRAL			
Iowa	X	X	
Kansas	X	X	
Minnesota			
Missouri	X	X	
Nebraska			
North Dakota			
South Dakota			
SOUTH ATLANTIC			
Delaware	X	X	
District of Columbia			
Florida			
Georgia			
Maryland	X	X	
North Carolina	X	X	
South Carolina	X	X	
Virginia	X	X	
West Virginia	X	X	
EAST SOUTH CENTRAL			
Alabama			
Kentucky	X	X	
Mississippi			
Tennessee	X	X	
WEST SOUTH CENTRAL			
Arkansas	X	X	
Louisiana	X		
Oklahoma		X	
Texas	X		
MOUNTAIN			
Arizona	X	X	Rule Development
Colorado	X	X	
Idaho	X	X	
Montana		X	
Nevada			
New Mexico			
Utah	X	X	
Wyoming			Inspection
PACIFIC			
Alaska	X		
California	X	X	
Hawaii			
Oregon	X	X	
Washington	X	X	
TERRITORIES			
Guam *			
Puerto Rico *			
Virgin Islands	X	X	

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 60B: LABORATORY IMPROVEMENT PROGRAM
Regulation of State Public Health Laboratory

Lab & Region	Type of licensure/certification/accreditation								
	CLIA	Medicare	FDA	CAP	SDWA	OSHA	NVLAP	AIHA	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
TOTAL	36	36	27	7	33	8	9	5	
NEW ENGLAND									
Connecticut		X			X				CLIA Exemption
Massachusetts	X	X	X						USDA
Maine	X	X			X				
New Hampshire		X	X			X	X		
Rhode Island	X	X	X						EPA
Vermont		X			X				
MIDDLE ATLANTIC									
New Jersey		X	X						EPA & DEP & NRC
New York*									
Pennsylvania									
EAST NORTH CENTRAL									
Illinois	X	X	X	X	X	X	X		
Indiana	X		X		X	X			USDA-FSIS
Michigan	X	X							
Ohio	X	X	X		X	X	X	X	USEPA
Wisconsin	X	X	X		X	X			
WEST NORTH CENTRAL									
Iowa	X	X			X	X	X	X	EPA/CLP
Kansas	X				X		X		
Minnesota		X			X				
Missouri					X				
Nebraska	X	X			X		X		
North Dakota	X	X	X		X				
South Dakota	X	X			X				
SOUTH ATLANTIC									
Delaware	X	X	X	X	X				
District of Columbia									
Florida	X	X			X				
Georgia		X							GA clinical laboratory licensure GA clinical laboratory director licensure GA clinical laboratory personnel certification
Maryland	X	X	X		X	X	X	X	
North Carolina			X		X			X	
South Carolina	X	X	X	X		X	X	X	
Virginia			X		X				
West Virginia			X		X				
EAST SOUTH CENTRAL									
Alabama		X	X	X					EPA
Kentucky	X			X					
Mississippi	X	X	X						EPA-drinking water
Tennessee	X	X	X	X	X				EPA, TDH Lab License
WEST SOUTH CENTRAL									
Arkansas	X	X	X		X		X		
Louisiana	X	X	X		X				
Oklahoma	X	X							
Texas	X	X	X		X				
MOUNTAIN									
Arizona	X								
Colorado	X		X		X				
Idaho	X	X	X		X				EPA
Montana	X	X	X						EPA
Nevada	X	X	X		X				
New Mexico	X	X	X		X				
Utah	X	X			X				
Wyoming	X	X							EPA
PACIFIC									
Alaska	X				X				
California									
Hawaii	X		X		X				
Oregon	X	X		X	X				
Washington					X				
TERRITORIES									
Guam*									
Puerto Rico*									
Virgin Islands	X	X							

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 61: PHYSICIANS' OFFICE LABORATORIES

Lab & Region (1)	Number of Labs in State (2)	Number of Labs Licensed/Registered/ Approved/Certified by State (3)	Number by LIP				Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories (8)
			Licensed/ Granted Permits/ Approved (4)	Registered (5)	Certified (6)	Other (7)	
TOTAL	15,807	7,271	6,301	1,416	123		
AVERAGE	1,216	559	573	472	41		
NEW ENGLAND	850	118	118	250	0		
Connecticut	NA	NA	0	0	0		Dept. of Health Services-Laboratory Division
Massachusetts	NA	118	118	0	0		Division of Health Care Quality
Maine	250	0	0	250	0		
New Hampshire	NA	0	0	0	0		
Rhode Island	600	0	0	0	0		
Vermont	NA	0	0	0	0		
MIDDLE ATLANTIC	4,649	4,667	4,677	0	97		
New Jersey	NA	18	18	0	0		
New York*							
Pennsylvania	4,649	4,649	4,659	0	97		Health-Bureau of Labs
EAST NORTH CENTRAL	0	59	45	0	0		
Illinois	NA	14	0	0	0		Ill. Dept. of Public Health-Division Health Care Facilities
Indiana	NA	0	0	0	0		
Michigan	NA	45	45	0	0		Dept. of Public Health
Ohio	NA	NA	0	0	0		
Wisconsin	NA	NA	0	0	0		DHSS
WEST NORTH CENTRAL	24	0	0	0	0		
Iowa	NA	NA	0	0	0		
Kansas	NA	0	0	0	0		
Minnesota	NA	0	0	0	0		Dept. of Health
Missouri	NA	0	0	0	0		
Nebraska	NA	0	0	0	0		Health Facilities Standards Bureau
North Dakota	24	0	0	0	0		
South Dakota	NA	NA	0	0	0		
SOUTH ATLANTIC	1,957	1,734	1,134	800	28		
Delaware	NA	2	2	0	2		
District of Columbia	NA	NA	0	0	0		
Florida	NA	NA	0	0	0		
Georgia	NA	0	0	0	0		Office of Regulatory Services, Georgia Dept. of Human Resources
Maryland	1,800	1,800	1,000	800	0		Laboratory Administration-State Health Dept.
North Carolina	NA	NA	0	0	0		
South Carolina	NA	NA	0	0	0		
Virginia	NA	0	0	0	0		
West Virginia	157	132	132	0	24		Dept. of Health & Human Resources
EAST SOUTH CENTRAL	2,000	0	0	0	0		
Alabama	NA	NA	0	0	0		
Kentucky	2,000	0	0	0	0		
Mississippi	NA	0	0	0	0		
Tennessee	NA	0	0	0	0		
WEST SOUTH CENTRAL	0	6	6	0	0		
Arkansas	NA	6	6	0	0		
Louisiana	NA	NA	0	0	0		
Oklahoma	NA	NA	0	0	0		
Texas	NA	NA	0	0	0		
MOUNTAIN	5,427	567	201	366	0		
Arizona	1,386	0	0	0	0		
Colorado	3,000	0	0	0	0		Health Facilities Division
Idaho	366	366	0	366	0		ID Dept H & W-Bureau of Laboratories
Montana	NA	0	0	0	0		
Nevada	NA	NA	0	0	0		Health Division
New Mexico	NA	28	26	0	0		
Utah	500	0	0	0	0		
Wyoming	175	175	175	0	0		
PACIFIC	900	120	120	0	0		
Alaska	NA	0	0	0	0		Voluntary Syphilis
California	NA	0	0	0	0		CA Dept. of Health Services
Hawaii	NA	0	0	0	0		
Oregon	900	120	120	0	0		Health Division / PHL
Washington	NA	NA	0	0	0		
TERRITORIES			0	0	0		
Guam *							
Puerto Rico *							
Virgin Islands	0						

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 61: LABORATORY IMPROVEMENT PROGRAM

Physicians' Office Laboratories - Activity of LIP Staff

Lab & Region	Proficiency Testing										
	Bacteriology	Mycology	Parasitology	Virology	Immunology		Hematology	Clinical Chemistry	Pathology	Environmental Microbiology	Environmental Chemistry
					Syphilis Serology	Non-Syphilis Serology					
(7)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
TOTAL	14	8	10	7	16	13	12	13	1	0	0
NEW ENGLAND											
Connecticut											
Massachusetts											
Maine	X					X	X	X			
New Hampshire											
Rhode Island											
Vermont											
MIDDLE ATLANTIC											
New Jersey	X	X	X	X	X	X	X	X			
New York*											
Pennsylvania	X	X	X	X	X	X	X	X			
EAST NORTH CENTRAL											
Illinois					X						
Indiana											
Michigan	X					X	X	X			
Ohio											
Wisconsin	X	X	X	X	X	X	X	X			
WEST NORTH CENTRAL											
Iowa	X	X	X		X	X	X	X			
Kansas	X	X	X	X	X	X	X	X			
Minnesota											
Missouri					X						
Nebraska											
North Dakota											
South Dakota											
SOUTH ATLANTIC											
Delaware											
District of Columbia											
Florida											
Georgia											
Maryland	X	X	X	X	X	X	X	X			
North Carolina	X				X						
South Carolina											
Virginia											
West Virginia	X		X		X	X	X	X			
EAST SOUTH CENTRAL											
Alabama											
Kentucky					X			X			
Mississippi											
Tennessee											
WEST SOUTH CENTRAL											
Arkansas	X		X		X						
Louisiana											
Oklahoma											
Texas											
MOUNTAIN											
Arizona											
Colorado											
Idaho	X				X	X	X	X			
Montana											
Nevada											
New Mexico					X	X					
Utah											
Wyoming											
PACIFIC											
Alaska											
California	X	X	X	X	X	X	X	X	X		
Hawaii											
Oregon	X	X	X	X	X	X	X	X			
Washington											
TERRITORIES											
Guam*											
Puerto Rico*											
Virgin Islands											

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 61: LABORATORY IMPROVEMENT PROGRAM
Physicians' Office Laboratories - Activity of LIP Staff

Lab & Region	Proficiency Testing (continued)			Field Visits - LIP Programs	
	Dairy/ Food	Other	Licensure/ Permit/ Approval	Certification	Other
(8)	(21)	(22)	(23)	(24)	(25)
TOTAL	0		7	3	
NEW ENGLAND					
Connecticut					
Massachusetts					
Maine					Investigate complaint
New Hampshire					
Rhode Island					
Vermont					
MIDDLE ATLANTIC					
New Jersey		Immunohematology	X		
New York*					
Pennsylvania		Other	X	X	Complaint
EAST NORTH CENTRAL					
Illinois		Alcohol			
Indiana					
Michigan			X		
Ohio					
Wisconsin					
WEST NORTH CENTRAL					
Iowa					
Kansas					Consultation
Minnesota					
Missouri					
Nebraska					
North Dakota					
South Dakota					
SOUTH ATLANTIC					
Delaware					
District of Columbia					
Florida					
Georgia					
Maryland			X		Validation, complaint
North Carolina					
South Carolina					
Virginia					
West Virginia			X	X	
EAST SOUTH CENTRAL					
Alabama					
Kentucky					
Mississippi					
Tennessee					
WEST SOUTH CENTRAL					
Arkansas					
Louisiana					
Oklahoma					
Texas					
MOUNTAIN					
Arizona					Complaint investigation
Colorado					
Idaho					
Montana					
Nevada					
New Mexico					
Utah					
Wyoming			X		
PACIFIC					
Alaska					
California					
Hawaii					
Oregon			X	X	
Washington					
TERRITORIES					
Guam*					
Puerto Rico*					
Virgin Islands					

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 61: LABORATORY IMPROVEMENT PROGRAM

Physicians' Office Laboratories - Activity of LIP Staff

Lab & Region	Field Visits - Other Programs		
	Licensure/ Permit/ Approval	Certification	Other
(9)	(26)	(27)	(28)
TOTAL	3	2	
NEW ENGLAND			
Connecticut			
Massachusetts	X		
Maine			
New Hampshire			
Rhode Island			
Vermont			
MIDDLE ATLANTIC			
New Jersey			
New York*			
Pennsylvania			
EAST NORTH CENTRAL			
Illinois			
Indiana			
Michigan			
Ohio			
Wisconsin			
WEST NORTH CENTRAL			
Iowa	X	X	
Kansas			
Minnesota			
Missouri			
Nebraska			
North Dakota			
South Dakota			
SOUTH ATLANTIC			
Delaware			
District of Columbia			
Florida			
Georgia			
Maryland			
North Carolina			
South Carolina			
Virginia			
West Virginia			
EAST SOUTH CENTRAL			
Alabama			
Kentucky			
Mississippi			
Tennessee			
WEST SOUTH CENTRAL			
Arkansas			
Louisiana			
Oklahoma			
Texas			
MOUNTAIN			
Arizona			
Colorado			
Idaho		X	
Montana			
Nevada			
New Mexico			
Utah			
Wyoming	X		
PACIFIC			
Alaska			
California			
Hawaii			
Oregon			
Washington			
TERRITORIES			
Guam*			
Puerto Rico*			
Virgin Islands			

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 61: LABORATORY IMPROVEMENT PROGRAM

Physicians' Office Laboratories - Activity of LIP Staff

Lab & Region	Training	Consultation	Other
(8)	(29)	(30)	(31)
TOTAL	16	21	
NEW ENGLAND			
Connecticut			
Massachusetts			
Maine	X	X	
New Hampshire			
Rhode Island			
Vermont			
MIDDLE ATLANTIC			
New Jersey		X	
New York*			
Pennsylvania	X	X	Guest lecture
EAST NORTH CENTRAL			
Illinois		X	
Indiana			
Michigan			Enforcement
Ohio		X	
Wisconsin	X	X	
WEST NORTH CENTRAL			
Iowa	X	X	
Kansas		X	
Minnesota			
Missouri	X	X	
Nebraska			
North Dakota			
South Dakota			
SOUTH ATLANTIC			
Delaware			
District of Columbia			
Florida			
Georgia			
Maryland	X	X	
North Carolina	X	X	
South Carolina	X		
Virginia			
West Virginia	X	X	
EAST SOUTH CENTRAL			
Alabama			
Kentucky			
Mississippi			
Tennessee			
WEST SOUTH CENTRAL			
Arkansas	X	X	
Louisiana			
Oklahoma		X	
Texas			
MOUNTAIN			
Arizona			Rule development
Colorado	X	X	
Idaho	X	X	
Montana		X	
Nevada			
New Mexico			
Utah	X	X	
Wyoming	X	X	Consultation
PACIFIC			
Alaska	X		
California		X	
Hawaii			
Oregon	X	X	
Washington			
TERRITORIES			
Guam*			
Puerto Rico*			
Virgin Islands			

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 62: LABORATORY IMPROVEMENT PROGRAM
Dairy and Food Laboratories

Lab & Region	Number of Labs in State	Number of Labs Licensed/Registered/ Approved/Certified by State	Number in LIP				Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
			Licensed/ Granted Permits/ Approved	Registered	Certified	Other	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
TOTAL	175	231	64	0	163		
AVERAGE	10	10	11	0	10		
NEW ENGLAND	41	40	7	0	27		
Connecticut	5	5	5	0	0		Laboratory Division
Massachusetts	28	26	0	0	26		DPH-SLI
Maine	NA	NA	0	0	0		Dept. of Agriculture
New Hampshire	1	1	0	0	1		
Rhode Island	1	1	0	0	0		Facilities Regulation, Dept. of Health
Vermont	8	7	7	0	0		Dept. of Agriculture
MIDDLE ATLANTIC	NA	12	0	0	0		
New Jersey	NA	12	0	0	0		
New York*							
Pennsylvania	NA	NA	0	0	0		Dept. of Agriculture
EAST NORTH CENTRAL	31	58	0	0	58		
Illinois	31	30	0	0	30		
Indiana	NA	17	0	0	17		
Michigan	NA	NA	0	0	0		
Ohio	NA	11	0	0	11		
Wisconsin	NA	NA	0	0	0		DHSS
WEST NORTH CENTRAL	14	23	9	0	3		
Iowa	NA	NA	0	0	0		
Kansas	NA	NA	0	0	0		
Minnesota	NA	NA	0	0	0		Dept. of Agriculture
Missouri	NA	9	9	0	0		
Nebraska	0	NA	NA	NA	NA		Dept. of Agriculture
North Dakota	14	14	0	0	3		Health & Agriculture
South Dakota	NA	NA	0	0	0		
SOUTH ATLANTIC	26	34	21	0	34		
Delaware	NA	0	0	0	0		
District of Columbia	NA	NA	0	0	0		
Florida	NA	NA	0	0	0		
Georgia	NA	NA	0	0	0		Georgia Dept. of Agriculture
Maryland	20	17	0	0	17		Laboratories Administrator/State Health Dept.
North Carolina	NA	NA	21	0	0		
South Carolina	6	0	0	0	0		Certified for FDA
Virginia	NA	14	0	0	14		DCLSN/DACS
West Virginia	NA	3	0	0	3		Dept. of Health & Human Resources
EAST SOUTH CENTRAL	25	33	14	0	9		
Alabama	5	4	0	0	1		Public Health
Kentucky	20	16	0	0	0		Milk Control Branch
Mississippi	NA	NA	0	0	0		Environmental Health
Tennessee	NA	13	14	0	8		State Health Lab, 2 manufacturing grade -Dept. of Agriculture
WEST SOUTH CENTRAL	19	19	0	0	19		
Arkansas	NA	0	0	0	0		
Louisiana	7	7	0	0	7		DHH/OPH/Div of Labs
Oklahoma	NA	0	0	0	0		
Texas	12	12	0	0	12		
MOUNTAIN	11	6	13	0	7		
Arizona	NA	NA	0	0	0		
Colorado	4	4	0	0	4		Laboratory Division
Idaho	NA	NA	13	0	0		ID Dept. H & W-Bureau of Laboratories
Montana	NA	NA	0	0	0		
Nevada	4	1	0	0	1		Health Division
New Mexico	2	0	0	0	2		
Utah	NA	NA	0	0	0		Dept. of Agriculture
Wyoming	1	1	0	0	0		Dept. of Agriculture
PACIFIC	8	6	0	0	6		
Alaska	NA	NA	0	0	0		
California	NA	NA	0	0	0		CA Dept. of Health Services
Hawaii	8	6	0	0	6		Dept. of Health
Oregon	NA	NA	0	0	0		
Washington	NA	NA	0	0	0		
TERRITORIES	0	0	0	0	0		
Guam*							
Puerto Rico*							
Virgin Islands							

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 62A: LABORATORY IMPROVEMENT PROGRAM-Dairy and Food Laboratories
Activity of LIP Staff

Lab & Region	Proficiency Testing	Licensure/ Permit/ Approval	Field Visits - LIP Programs	
			Certification	Other
(1)	(2)	(3)	(4)	(5)
TOTAL	15	3	18	
NEW ENGLAND				
Connecticut	X	X		
Massachusetts				
Maine				
New Hampshire	NA	NA	NA	
Rhode Island				
Vermont				
MIDDLE ATLANTIC				
New Jersey				
New York*				
Pennsylvania	NA	X	X	
EAST NORTH CENTRAL				
Illinois	X		X	
Indiana	X		X	
Michigan				
Ohio	X		X	
Wisconsin				
WEST NORTH CENTRAL				
Iowa				
Kansas				
Minnesota				
Missouri			X	
Nebraska				
North Dakota	X		X	
South Dakota				
SOUTH ATLANTIC				
Delaware				
District of Columbia				
Florida				
Georgia				
Maryland			X	
North Carolina			X	
South Carolina	X			
Virginia	X		X	
West Virginia	X		X	
EAST SOUTH CENTRAL				
Alabama	X		X	
Kentucky	X		X	
Mississippi				
Tennessee	X		X	
WEST SOUTH CENTRAL				
Arkansas				
Louisiana	X		X	
Oklahoma				
Texas				
MOUNTAIN				
Arizona				
Colorado			X	
Idaho				
Montana				
Nevada			X	
New Mexico				
Utah				
Wyoming				
PACIFIC				
Alaska				
California				
Hawaii	X		X	
Oregon				
Washington				
TERRITORIES				
Guam*				
Puerto Rico*				
Virgin Islands				

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 62A: LABORATORY IMPROVEMENT PROGRAM-Dairy and Food Laboratories
Activity of LIP Staff

Lab & Region	Field Visits - Other Programs			Training	Consultation	Other
	Licensure/ Permit/ Approval	Certification	Other			
(6)	(7)	(8)	(9)	(10)	(11)	(12)
TOTAL	5	5		15	16	
NEW ENGLAND						
Connecticut	X			X	X	inspections
Massachusetts						
Maine						
New Hampshire				NA	NA	
Rhode Island	X			X	X	
Vermont						
MIDDLE ATLANTIC						
New Jersey	X	X				
New York*						
Pennsylvania				NA	NA	
EAST NORTH CENTRAL						
Illinois				X		
Indiana				X	X	
Michigan	X	X				
Ohio					X	
Wisconsin						
WEST NORTH CENTRAL						
Iowa	X	X				
Kansas						
Minnesota						
Missouri				X	X	
Nebraska						
North Dakota				X	X	
South Dakota						
SOUTH ATLANTIC						
Delaware						
District of Columbia						
Florida						
Georgia						
Maryland				X		
North Carolina				X	X	
South Carolina		X		X	X	
Virginia						
West Virginia		X		X	X	
EAST SOUTH CENTRAL						
Alabama				X	X	
Kentucky						
Mississippi						
Tennessee						
WEST SOUTH CENTRAL						
Arkansas					X	
Louisiana				X		
Oklahoma						
Texas				X	X	
MOUNTAIN						
Arizona						
Colorado					X	
Idaho						
Montana						
Nevada						
New Mexico						Certification
Utah						
Wyoming						
PACIFIC						
Alaska						
California						
Hawaii					X	
Oregon						
Washington						
TERRITORIES						
Guam*						
Puerto Rico*						
Virgin Islands						

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 63: LABORATORY IMPROVEMENT PROGRAM - Water Laboratories

Lab & Region (1)	Number of Labs in State (2)	Number of Labs Licensed/Registered Approved/Certified by State (3)	Number by LIP				Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories (8)
			Licensed/Permits/Approved (4)	Registered (5)	Certified (6)	Other (7)	
TOTAL	2237	4287	518	27	2625	24	
AVERAGE	97	119					
NEW ENGLAND	192	288	227	0	74		
Connecticut	127	227	227	0	37		Dept. of Health Services, Laboratory Division
Massachusetts	NA	NA	0	0	0		
Maine	26	25	0	0	25		
New Hampshire	NA	NA	0	0	0		Dept. of Environmental Services
Rhode Island	24	24	0	0	0		Facilities Regulation, Dept. of Health
Vermont	15	12	0	0	12		Dept. of Health
MIDDLE ATLANTIC	485	675	0	0	0		
New Jersey	485	675	0	0	0		Office of QA, DEP
New York*							
Pennsylvania	NA	NA	0	0	0		Dept. of Environmental Resources
EAST NORTH CENTRAL	78	665	0	0	665		
Illinois	78	77	0	0	77		
Indiana	NA	74	0	0	74		
Michigan	NA	NA	0	0	0		
Ohio	NA	544	0	0	544		
Wisconsin	NA	NA	0	0	0		Dept. of Health
WEST NORTH CENTRAL	73	461	43	0	361	24	
Iowa	48	75	0	0	0		Iowa Dept. of Natural Resources/Environmental Protection Division
Kansas	NA	154	0	0	154	24	Dept. of Health and Environment
Minnesota	NA	184	0	0	184		Dept. of Health
Missouri	NA	43	43	0	0		
Nebraska	13	13	0	0	14		Dept. of Agriculture
North Dakota	12	12	0	0	47		
South Dakota	NA	NA	0	0	12		
SOUTH ATLANTIC	99	709	9	0	673		
Delaware	9	9	9	0	9		
District of Columbia	NA	NA	0	0	0		
Florida	NA	453	0	0	453		
Georgia	NA	NA	0	0	0		Georgia Dept. of Natural Resources
Maryland	90	115	0	0	206		Laboratories Administration, State Health Department
North Carolina	NA	NA	0	0	170		
South Carolina	NA	NA	0	0	0		Dept. of Health and Environmental Control
Virginia	NA	87	0	0	90		DCLS
West Virginia	NA	45	0	0	45		Dept. of Health and Human Services
EAST SOUTH CENTRAL	27	205	166	0	65		
Alabama	27	25	0	0	8		Environmental Management
Kentucky	NA	NA	0	0	0		
Mississippi	NA	9	0	0	8		Public Health Laboratory
Tennessee	NA	171	166	0	49		Division of Water Supply
WEST SOUTH CENTRAL	81	86	5	0	92		
Arkansas	NA	5	5	0	0		
Louisiana	16	16	0	0	27		DHH/OPH/Division of Laboratories
Oklahoma	NA	NA	0	0	0		
Texas	65	65	0	0	65		
MOUNTAIN	167	282	63	27	184	0	
Arizona	NA	NA	0	0	0		
Colorado	78	78	0	0	33		Laboratory Division
Idaho	NA	7	25	0	7		Dept. of Health and Water / Bureau of Laboratories
Montana	9	8	38	0	0		Public Health Laboratory
Nevada	29	27	0	27	0		Health Division
New Mexico	33	33	0	0	33		
Utah	NA	111	0	0	111		
Wyoming	18	18	0	0	0		EPA, Region VII
PACIFIC	1035	866	5	0	151		
Alaska	NA	NA	0	0	0		
California	900	725	0	0	0		California Dept. of Health Services
Hawaii	14	10	5	0	10		Dept. of Health
Oregon	44	50	0	0	50		Health Division/PHL
Washington	77	81	0	0	91		
TERRITORIES	0	0	0	0	0		
Guam *							
Puerto Rico *							
Virgin Islands	NA	NA	0	0	0		

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 63: LABORATORY IMPROVEMENT PROGRAM-Water Laboratories

Lab & Region (9)	Number of Water Testing Laboratories in Laboratory Improvement Program							
	Licensed/Granted Permits/Approved				Registered			
	Total (10)	Microbiology (11)	Chemistry (12)	Microbiology and Chemistry (13)	Total (14)	Microbiology (15)	Chemistry (16)	Microbiology and Chemistry (17)
TOTAL	473	101	273	99	29	1	7	21
AVERAGE	59	14	55	33	15	1	7	11
NEW ENGLAND	227	11	125	91	2	0	0	2
Connecticut	227	11	125	91	0			
Massachusetts	0				0			
Maine	0				2			2
New Hampshire	0				0			
Rhode Island	0				0			
Vermont	0				0			
MIDDLE ATLANTIC	0	0	0	0	0	0	0	0
New Jersey	0				0			
New York*	0				0			
Pennsylvania	0				0			
EAST NORTH CENTRAL	0	0	0	0	0	0	0	0
Illinois	0				0			
Indiana	0				0			
Michigan	0				0			
Ohio	0				0			
Wisconsin	0				0			
WEST NORTH CENTRAL	43	43	0	0	0	0	0	0
Iowa	0				0			
Kansas	0				0			
Minnesota	0				0			
Missouri	43	43			0			
Nebraska	0				0			
North Dakota	0				0			
South Dakota	0				0			
SOUTH ATLANTIC	9	4	2	3	0	0	0	0
Delaware	9	4	2	3	0			
District of Columbia	0				0			
Florida	0				0			
Georgia	0				0			
Maryland	0				0			
North Carolina	0				0			
South Carolina	0				0			
Virginia	0				0			
West Virginia	0				0			
EAST SOUTH CENTRAL	121	5	111	5	0	0	0	0
Alabama	0				0			
Kentucky	0				0			
Mississippi	0				0			
Tennessee	121	5	111	5	0			
WEST SOUTH CENTRAL	5	5	0	0	0	0	0	0
Arkansas	5	5			0			
Louisiana	0				0			
Oklahoma	0				0			
Texas	0				0			
MOUNTAIN	63	33	30	0	27	1	7	19
Arizona	0				0			
Colorado	0				0			
Idaho	25	25			0			
Montana	38	8	30		0			
Nevada	0				27	1	7	19
New Mexico	0				0			
Utah	0				0			
Wyoming	0				0			
PACIFIC	5	0	5	0	0	0	0	0
Alaska	0				0			
California	0				0			
Hawaii	5		5		0			
Oregon	0				0			
Washington	0				0			
TERRITORIES	0	0	0	0	0	0	0	0
Guam*								
Puerto Rico*								
Virgin Islands	0							

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 63: LABORATORY IMPROVEMENT PROGRAM-Water Laboratories

Lab & Region (18)	Number of Water Testing Laboratories in Laboratory Improvement Program							
	Certified				Other			
	Total (19)	Microbiology (20)	Chemistry (21)	Microbiology and Chemistry (22)	Total (23)	Microbiology (24)	Chemistry (25)	Microbiology and Chemistry (26)
TOTAL	2,591	916	1,109	571	55	0	24	31
AVERAGE	93	34	53	32	28	0	12	31
NEW ENGLAND	37	9	2	28	31	0	0	31
Connecticut	0				0			
Massachusetts	0				0			
Maine	25	2	2	21	31			31
New Hampshire	0				0			
Rhode Island	0				0			
Vermont	12	7	0	5	0			
MIDDLE ATLANTIC	0	0	0	0	0	0	0	0
New Jersey	0				0			
New York*	0				0			
Pennsylvania	0				0			
EAST NORTH CENTRAL	703	296	429	8	0	0	0	0
Illinois	77	77			0			
Indiana	82	46	26	8	0			
Michigan	0				0			
Ohio	544	143	401		0			
Wisconsin	0				0			
WEST NORTH CENTRAL	391	40	196	155	24	0	24	0
Iowa	0				0			
Kansas	154	6	119	29	24		24	
Minnesota	164	15	42	107	0			
Missouri	0				0			
Nebraska	14	5		9	0			
North Dakota	47	12	27	8	0			
South Dakota	12	2	8	2	0			
SOUTH ATLANTIC	973	375	273	325	0	0	0	0
Delaware	9	4	2	3	0			
District of Columbia	0				0			
Florida	453	93	147	213	0			
Georgia	0				0			
Maryland	206	80	78	48	0			
North Carolina	170	120	20	30	0			
South Carolina	0				0			
Virginia	90	57	5	28	0			
West Virginia	45	21	21	3	0			
EAST SOUTH CENTRAL	65	37	27	1	0	0	0	0
Alabama	8	8			0			
Kentucky	0				0			
Mississippi	8	8			0			
Tennessee	49	21	27	1	0			
WEST SOUTH CENTRAL	92	81	11	0	0	0	0	0
Arkansas	0				0			
Louisiana	27	16	11		0			
Oklahoma	0				0			
Texas	65	65			0			
MOUNTAIN	179	52	115	17	0	0	0	0
Arizona	0				0			
Colorado	33	11	22		0			
Idaho	7		7		0			
Montana	0				0			
Nevada	0				0			
New Mexico	33	33			0			
Utah	106	8	86	17	0			
Wyoming	0				0			
PACIFIC	151	56	56	39	0	0	0	0
Alaska	0				0			
California	0				0			
Hawaii	10	5	5		0			
Oregon	50	17	4	29	0			
Washington	91	34	47	10	0			
TERRITORIES	0	0	0	0	0	0	0	0
Guam*								
Puerto Rico*								
Virgin Islands	0							

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 63: LABORATORY IMPROVEMENT PROGRAM -
Water Laboratories - Activity of LIP Staff

Lab & Region	Proficiency Testing		Field Visits - LIP Program		
	Water Microbiology	Water Chemistry	Licensure/ Permit/ Approval	Certification	Other
(27)	(28)	(29)	(30)	(31)	(32)
TOTAL	20	21	10	28	
NEW ENGLAND					
Connecticut		X	X		
Massachusetts					
Maine	X	X		X	
New Hampshire	NA	NA	NA	NA	
Rhode Island					
Vermont		X		X	
MIDDLE ATLANTIC					
New Jersey					
New York*					
Pennsylvania	NA	NA	NA	NA	
EAST NORTH CENTRAL					
Illinois	X			X	
Indiana				X	
Michigan					
Ohio	X	X	X	X	
Wisconsin					
WEST NORTH CENTRAL					
Iowa	X	X	X	X	
Kansas		X		X	
Minnesota				X	
Missouri				X	
Nebraska	X	X		X	
North Dakota	X			X	
South Dakota					
SOUTH ATLANTIC					
Delaware					
District of Columbia					
Florida	X	X		X	
Georgia					
Maryland	X	X		X	Complaints
North Carolina	X		X		
South Carolina					
Virginia		X		X	
West Virginia	X	X		X	
EAST SOUTH CENTRAL					
Alabama				X	
Kentucky					
Mississippi					
Tennessee	X	X		X	
WEST SOUTH CENTRAL					
Arkansas					
Louisiana	X	X		X	
Oklahoma					
Texas					
MOUNTAIN					
Arizona	X	X	X		Complaint investigation/consultation
Colorado				X	
Idaho				X	
Montana	X		X		
Nevada				X	
New Mexico				X	
Utah	X	X	X		
Wyoming					
PACIFIC					
Alaska					
California	X	X	X	X	
Hawaii	X	X		X	
Oregon	X	X		X	
Washington		X		X	
TERRITORIES					
Guam*					
Puerto Rico*					
Virgin Islands					

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 63: LABORATORY IMPROVEMENT PROGRAM -
Water Laboratories - Activity of LIP Staff

Lab & Region	Field Visits - Other Programs		
	Licensure/ Permit/ Approval	Certification	Other
(33)	(34)	(35)	(36)
TOTAL	4	8	
NEW ENGLAND			
Connecticut	X		
Massachusetts			
Maine			
New Hampshire			
Rhode Island	X		
Vermont			
MIDDLE ATLANTIC			
New Jersey			
New York*			
Pennsylvania			
EAST NORTH CENTRAL			
Illinois			
Indiana			
Michigan	X	X	
Ohio			
Wisconsin			
WEST NORTH CENTRAL			
Iowa			
Kansas			
Minnesota			
Missouri			
Nebraska			
North Dakota			
South Dakota			
SOUTH ATLANTIC			
Delaware			
District of Columbia			
Florida			
Georgia			
Maryland			Recertification audit
North Carolina			
South Carolina			
Virginia			
West Virginia		X	
EAST SOUTH CENTRAL			
Alabama			
Kentucky			
Mississippi			
Tennessee			
WEST SOUTH CENTRAL			
Arkansas		X	
Louisiana			
Oklahoma			
Texas			
MOUNTAIN			
Arizona			
Colorado			
Idaho		X	
Montana			
Nevada			
New Mexico			
Utah			
Wyoming			
PACIFIC			
Alaska	X	X	
California			
Hawaii			
Oregon			
Washington		X	
TERRITORIES			
Guam*			
Puerto Rico*			
Virgin Islands			

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 63: LABORATORY IMPROVEMENT PROGRAM
Water Laboratories - Activity of LIP Staff

Lab & Region	Training	Consultation	Other
(37)	(38)	(39)	(40)
TOTAL	20	22	
NEW ENGLAND			
Connecticut	X	X	inspection
Massachusetts			
Maine	X	X	
New Hampshire	NA	NA	
Rhode Island	X	X	
Vermont			
MIDDLE ATLANTIC			
New Jersey			
New York*			
Pennsylvania	NA	NA	
EAST NORTH CENTRAL			
Illinois			
Indiana	X	X	
Michigan			
Ohio	X	X	
Wisconsin			
WEST NORTH CENTRAL			
Iowa	X	X	
Kansas		X	
Minnesota	X	X	inspection
Missouri	X	X	
Nebraska			
North Dakota	X	X	
South Dakota			
SOUTH ATLANTIC			
Delaware			
District of Columbia			
Florida	X	X	
Georgia			
Maryland	X	X	
North Carolina	X	X	
South Carolina			
Virginia			
West Virginia	X	X	
EAST SOUTH CENTRAL			
Alabama			
Kentucky			
Mississippi			
Tennessee			
WEST SOUTH CENTRAL			
Arkansas		X	
Louisiana			
Oklahoma			
Texas	X	X	
MOUNTAIN			
Arizona			rule development
Colorado	X	X	
Idaho			
Montana			
Nevada			
New Mexico	X	X	
Utah	X	X	
Wyoming			
PACIFIC			
Alaska			
California			
Hawaii	X	X	
Oregon			
Washington			
TERRITORIES			
Guam*			
Puerto Rico*			
Virgin Islands			

* New York did not report for fiscal year 1990.

TABLE 64: LABORATORY IMPROVEMENT PROGRAM
Other LIP Activities for all types of Laboratories

Lab & Region (1)	Program Activity (2)
Arizona	Blood alcohol program-prepare, distribute, and follow-up blood alcohol proficiency specimens; license lab personnel to analyze blood for alcohol content; issue permits to officers to operate blood alcohol testing devices
California	Licenses/grants permits/approves newborn screening labs, prenatal screening labs, cholinesterase labs, forensic alcohol labs, methadone labs and environmental labs
Connecticut	NPDES; asbestos in air and water (33 labs in state, 36 out-of-state labs); air testing labs, radon labs (69 in and out of state); recombinant DNA labs
Kansas	Admin. of state wide breath alcohol program: 210 agencies utilizing instruments in 122 sites-certify 150 instruments & approximately 2400 operators; conduct quarterly proficiency test program for certifying operators; provide court testimony in DUI cases; provide limited training to officers of judicial system
Louisiana	State Health Unit provides QA/QC training and proficiency testing
Maine	Consultations with Medicaid; certify out-of-state water labs by reciprocity, continuing education/training for clinical environmental lab personnel.
Maryland	Cytology proficiency testing program
Minnesota	Drug and alcohol laboratory licensure and inspection
Montana	National laboratory training network-attend yearly meeting, conduct monthly conference calls, coordinate training activities; Autoclave efficacy program-supply spore strips to labs by request, strip returned to state public health lab for testing after autoclaving
New Jersey	The Clinical Lab Improvement Service is responsible for the licensing, inspection, and proficiency testing of 134 blood banks.
North Carolina	Quarterly newsletter, audio-visual training material, distribution of bacterial stock cultures
North Dakota	NLTA-Midwestern ALTA, Laboratory Education for North Dakota (LEND), ND HIV/AIDS update, pH certification school for NPDES permittees, in-house seminars
Oklahoma	HIV Licensure
Tennessee	Microbiological training program: 1-Lab training for certification of waived tests for county health dept. personnel. 2-Program prepares B.S. graduate microbiological students for state licensure. 3-Program serves as 4th academic year of education for B.S. degree. in clinical microbiology, the purpose of which is to train and prepare students for state licensure.
Utah	Pulmonary testing lab- a voluntary program which includes on site visits, proficiency testing monitoring and consultation; blood alcohol testing includes on-site visits, proficiency testing monitoring, and consultation
Virginia	Inspect and recommend approval/disapproval of four commercial blood banks.
Wisconsin	The Wisconsin State Lab of Hygiene (WSLH) provides LIPs (prof. testing) to other states. Out-of-state customers include lab physicians' offices and water chemistry labs. The WSLH is HCFA approved as provider of proficiency testing. Water chemistry labs are inspected/licensed by the Office of Technical Services, WI Dept. of Natural Resources

NOTE: Laboratories that did not report information for this table are not listed.

TABLE 65: BIOLOGICS, REAGENTS, AND MEDIA -Production of Biologics, Reagents and Media for Distribution

Lab and Region	No FTE's	Biologics		Reagents	Media	Materials Produced for Distribution
		Human Use	Lab Use			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
TOTAL	283.89					
Alabama	3.19			X	X	Jones Kendrick Media, Rodac Plates, Modified Thayer Martin Plates, Collection Bottles: Glycerine Saline, TB, Public Water, Intestinal Parasites, Milk, and Cary Blair transport media
Alaska	0.5		X	X	X	Standard bacteriology media, Reagents for Indol, MVP, nitrate testing Gram Stain Reagents
Arizona	6			X	X	Blood Agar Plates, Heart Infusion Agar Plates, Phenylethylalcohol Agar, Mueller Hinton Agar, Chocolate Agar, MacConkeys Agar, Hektoen Enteric Agar, Chopped Meat Medium, Gram Negative Broth, Tryptic Soy Broth, Sulfur Indole Motility, Urea Agar, Thioglycollate Broth, 8.5% Sodium Chloride, Nitrate Reagent, Triple Sugar Iron, Kovack's Reagent, KOH Solutions, Ferric Chloride, Hanks Solution, Polyvinyl Alcohol, Buffered Glycerol Saline, Cary Blair Transport, Regan Low Transport, Phenylethanol Agar with 5% SRBC, Buffer Rinse Water, M-4c Agar, K-4s Agar, M-Endo Agar, Haemophilus Ducreyi Agar, Anaerobic Brucella Agar, API Saline Blanks, Formalin, Nutrient Agar, Simmons Citrate, Bile Esculin, Campylobactere Blood Agar, 10% Sodium Deoxycholate, 50% Nitric Acid, and 50% Sulfuric Acid
Arkansas	3			X	X	Martin-Lewis Medicine, Gram Stain Reagents
California	0.25					Anti-influenza A H1N1 Monoclonal Antibody, Anti-influenza H3Ns Monoclonal Antibody
Colorado	3					All media for ova parasite, enteric, pertussis and gonorrhea collection kits; Nutrient agar, malt extract agar plates
Connecticut	28		X	X	X	
Florida	11				X	Lowenstein, Jensen media used in TB Testing
Idaho	1					Began-Low medium, Pertussis transport medium
Illinois	4			X	X	TB transport media/kits, Parasitology specimen collection kits, Blood Lead collection and transport kits, Gonococcus collection media, HIV Serology collection kits, Syphilis serology collection kits, Water Sample collection kits, Chlamydia specimen collection kits
Indiana	4			X	X	Media and reagents are prepared for use in our laboratory only
Iowa	2		X	X	X	Buffers; Specimen preservation and Transport Media, Bacteriological Cultural Media except Jembec Plates
Kansas				X	X	
Maryland	0.25				X	
Massachusetts	86	X		X	X	FDA Licensed Products for Human Use: Diphtheria-Tetanus-Pertussis (DTP); Diphtheria-Tetanus Vaccine (DT), Varicella-Zoster Immune Globulin (Human) (VZIG), Tetanus-Diphtheria Vaccine (TD), Immune Globulin (Human), <i>Sytomegalovirus Immune Globulin (Human) (CMV-IGIV)</i> , Investigational new drugs for clinical research: Bacterial Polysacchande Immune Globulin (Human), Respiratory Syncytial Virus Immune Globulin (Human), Haemophilus Influenzae Type B Vaccine (Hib T), Acellular Pertussis Vaccine, Diphtheria-Tetanus-Pertussis Toxoid Vaccine. Media unit prepared and distributed 146,185 tubes of culture media, 20,300 combination in bulk sizes of buffer and/or reagents and 64,893 microbiological agar plates
Michigan	100					Biologics: DPT (Diphtheria, pertussis, tetanus) vaccine; Single vaccines of those listed above; Tissue culture rabies vaccine, Factor VIII, Immune Serum Globulin, Albumin, Anthrax Vaccine, Botulinum Toxoids, Salmonella Antisera, Legionella Conjugated Antisera, Rabies Quality Control Material, CVS Infected and Normal Mouse Brain
Montana	1.2		X		X	Bacterial stock cultures for quality control, Cary-Blair transport, Viral culture transport, Chlamydia culture transport, Reagan-Lowe Pertussis transports, Jembec Plates (MTM), Formalin & PVA transports
Nebraska	0.5			X		

TABLE 65: BIOLOGICS, REAGENTS, AND MEDIA -Production of Biologics, Reagents and Media for Distribution

Lab and Region	No FTE's	Biologics		Reagents	Media	Materials Produced for Distribution
		Human Use	Lab Use			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
New Mexico	3		X	X	X	Gram stain reagents, Mod. Martin-Lewis Medium, Cary Blair Medium, PVA Casamino Acids, Charcoal Agar, PAI Slants, Viral Transp. Medium, Amies Transp. Media, Neutral Formalin, Saline Solutions, Water/Milk Bottles
North Dakota	1					MTM, Jembec, Aimes, Sabouraud's Agar, Jones-Kendrick's Agar, 5% Formalin, Rodax Plates
Ohio	2			X	X	Viral Transport Media, Cary-Blair Medium, Regan-Lowe Media Tubes and Plates
Pennsylvania						Parasitology Specimen Collection Kits, Enteric Bacteriology Specimen Kits, Throat Washing Collection Kits, Lyophilized Bacteria for QC
Tennessee	15		X			Brain Heart Infusion Broth (Virus Transport), Butzler Plates, Cary-Blair, "GonoPak" Plates, Group A Streptococcus Conjugate, Isovitalex, Martin-Lewis Agar, Mouse Brain Tissue for Rabies Control, Pai Agar Slants, Pertussis Kits, Sheep Blood Agar Plates for Haemophilus ducreyi, Trypticase Soy Agar Slants, Tryptose Phosphate Broth (Virus Transport), VCAT (Vancomycin, Colistin, Anisomycin, Trimethoprim lactata), Water Collection Bottles with Preservative
Washington	6			X	X	
West Virginia	3			X	X	

TABLE 66: RESEARCH AND DEVELOPMENT-Basic Research

Lab & Region	Titles of Research Projects	Funding Support				
		Number of Positions	Federal		State Funds	Other Funds
			Grants	Contracts		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
TOTAL		25.85	474,451	395,000	44,000	0
Massachusetts	HIV Seroprevalence in child bearing women	10.00	31,451			NA
Vermont	VOCs in Rural Indoor Air	0.15	X			
Illinois	Immunization Demonstration Project	1.00	X			
Wisconsin	Cystic Fibrosis Newborn Screening	2.50	100,000			
	HIV Newborn Sero Prevalence	2.50	243,000			
	Environmental Methods Development	2.00	100,000		30,000	
North Dakota	Antibiotic Residue in Milk				X	X
South Carolina	HIV Seroprevalence	4.00		233,000		
Virginia	Frequency of Program in Prenatal Patients	NA	NA	NA	NA	NA
	Listeria in Shellfish	0.50	NA	NA	14,000	NA
Louisiana	Development of synthetic products for Proficiency Testing					X
	Chlamydia trachomatis Microbicidal research					X
California	NCI-California Collaborative Project	3.00		162,000		

NOTE: Laboratories that did not report information for this table are not listed.

NA = Data not available.

TABLE 67: RESEARCH AND DEVELOPMENT -- Applied Research

Lab & Region	Titles of Research Projects	Funding Support				
		Number of Positions	Federal		State Funds	Other Funds
(1)	(2)	(3)	(4)	(5)	(6)	(7)
TOTAL		18.4	223,713	293,756	2	13,601
Massachusetts	Liver transplant associated CMV prevention	2.70	123,712			9,000
	Viral Immunity Studies	2.00				
	Influenza Studies	1.00		36,348		
	Occupational Lyme Disease Study & Lyme Test Development	0.20		7,410		
	EE Surveillance	0.10				1,600
	Survey of Molluscan Shellfish	5.00		250,000		
	Blood Lead Levels following abatement	2.00	100,000			
Pennsylvania	Involvement of Controlled Substances in highway fatalities in PA	0.50			"100%"	
	Occupational Lyme Disease Serosurvey	0.10			"100%"	
Michigan	Comparison of HIV serological assays	0.00			X	X
	DBS for measles antibody detection	0.00			X	
	Chromosomal DNA restriction analysis (TB, Salmonella, etc)	1.00			X	
	Improved growth of B. bergdorferi in Modified BSK-II	1.00			X	
	Develop presence-absence coliform testing method				X	
Iowa	Identification of Two New Abnormal Hemoglobins					
	Aeromonas Species as Agents of Diarrheal Disease in Humans					
	Decreased Incubation for Isolation of Human Cytomegalovirus using Anti-Interferon					
	Studies of Virus Infections of Mosquitoes Which Act as Vectors for Human Viral Encephalitis					
	Determination of the Prevalence of HIV Infection in Child-bearing Women					
	Monitoring of Private Drinking Water Supplies Near Two Superfund Sites in Clinton County, Iowa					
	Intensive Water Quality Assessment of Lake Rathbun (Iowa)					
	A Survey of the Benthic Macroinvertebrates and Fishes of the Big Spring Basin (Iowa)					
North Dakota	Assess validity of statewide Public Health Cholesterol Screening				.4 FTE	
Maryland	Non-destructive analysis of lead in environmental samples	1.00	1			
	Study of Infra-Red Detection of Myco-bacteria	0.50			1	1
	Human monoclonal antibody production to HIV-1 proteins by EBV transformation	0.50			1	
Louisiana	HPLC analysis of newborn Hemoglobin				X	
	Fluorometric assay of blood galactose				X	
Arizona	Ethylene glycol mono butyl ether in wastewater	0.20			NA	
	Methyl t-butyl ether in water and soil	0.10			NA	
	Quantitation of fuel class hydrocarbons by gas chromatography for soil/sludges	0.50			NA	
Alaska	Anti-Rabies wildlife bait vaccine studies					3,000

NOTE: Laboratories that did not report information for this table are not listed.

NA = Data not available.

TABLE 68: RESEARCH AND DEVELOPMENT - Technical Research

Lab & Region (1)	Titles of Research Projects (2)	Number of Positions (3)	Funding Support			
			Federal		State Funds (6)	Other Funds (7)
			Grants (4)	Contracts (5)		
TOTAL		18	12,000	0	5,000	0
Massachusetts	Development of Hib Vaccine	5.00				NA
	Development of Acellular Pertussis Vaccine	7.00				NA
	Characterization of CMV-IGIV and RSV-IGIV	2.00				NA
Vermont	Pt in DNA by AAS	0.05				X
Pennsylvania	Determination of alcohol in serum and plasma	0.10			"100%"	
	Lead analysis in blood and drinking water	0.25			"100%"	
	Development of reference methods for lipid analysis	0.75			"100%"	
	Study of reagents used for clinical chemistry determinations on a centrifugal analyzer	0.10			"100%"	
	Evaluation of Rubella IgM in Amish	0.10			"100%"	
	Evaluation of TRUST vs. RPR	0.10			"100%"	
	Evaluation of rapid Lyme diagnostic test	0.05			"100%"	
	Evaluation of MEASLESTAT M test	0.15			"100%"	
Michigan	Syphilis IgM Assay	0.00			X	
	Arbovirus IgM Capture Assay	0.00			X	
	Microhemagglutination for Pertussis	0.00			X	
	Evaluation of alternative specimens for HIV antibody detection	0.00			X	
	Drug susceptibility screening of M. tuberculosis	0.50			X	
	Expanding GC procedures to include additional reported substances	0.00			X	
	Development of post-column derivatization HPLC methods	0.00			X	
	Introduce flow-injection automated multi-channel	0.00			X	
	Testing for inorganics improvement of LIMS for laboratory	0.00			X	
Iowa	Evaluate Rapid Method Detection of Group A Streptococci	0.00				
	Screening and Evaluation of Mid-Gestational Maternal Serum for hCG and Unconjugated Estriol for Improv	0.00				
	Effectiveness of Antenatal Screening for Down Syndrome					
	New Methods of Sample Preparation and Analysis for Inorganic Analytes	0.00				
	Method for the Extraction, Cleanup, and Determination of Herbicides in Fish	0.00				
	Determination of Valid Sample Holding Times of Surface/Groundwater Samples for Pesticide Residue Ana	0.00				
	Optimization of Analytical Methods for Petroleum Products in Environmental Samples	0.00				
	Studies of Coliform Organism Transport Medium for Performance Evaluation Sample Analysis by Certified	0.00				
	Use of Solid Phase Sorbents for Analysis of Pesticides in Water	0.00				
Delaware	Comparison of sensitivities of inoculation methods between cell cultures and suckling mice for detection o	NA				
	Equine Encephalitis virus					
Maryland	Comparative study of HIV-1/HIV-2 algorithms to resolve W.B. indeterminates	0.50	X		X	
South Carolina	Multiple Product Evaluations	0.00	NA	NA	NA	NA
Virginia	Significance of low O.D. Values in Chlamydia diagnosis	0.00	NA	NA	NA	NA
	Use of EF18 Medium or Isolation of Salmonella from foods	0.00	NA	NA	NA	NA
Idaho	Added Septi-check AFB system	0.25			X	
	Added TB DNA Probe	0.25			X	
	Changes in water testing	0.25			X	
	Testing BIOLOG System	0.10			X	
Alaska	Comparative study of Genprobe vs standard methods for mailed in specimens for GC and Chlamydia	0.50	12,000		5,000	

NOTE: Laboratories that did not report information for this table are not listed.

NA = Data not available.

**LABORATORY PERSONNEL
AND
STAFFING PATTERNS**

TABLE 69: NUMBER OF BUDGETED POSITIONS

Lab & Region (1)	Total Budgeted Positions (2)	Management			Clerical			Professional & Technical		
		Number (3)	Percent of total (4)	Number of Vacancies (5)	Number (6)	Percent of total (7)	Number of Vacancies (8)	Number (9)	Percent of total (10)	Number of Vacancies (11)
TOTAL	6,115.73	502.15	8.21%	21.00	786.88	12.87%	47.60	4,004.35	65.48%	337.00
AVERAGE	127.41	10.66		1.40	15.70		2.22	76.28		7.86
NEW ENGLAND	554.40	35.90	6.48%	3.00	74.00	13.35%	7.00	356.70	64.34%	13.00
Connecticut	195.00	13.00	6.67%	2.00	29.50	15.13%	5.00	132.50	67.95%	6.00
Massachusetts	151.00	11.00	7.28%	1.00	17.00	11.26%	0.00	85.00	56.29%	1.00
Maine	51.00	2.00	3.92%	0.00	9.00	17.65%	0.00	34.00	66.67%	0.00
New Hampshire	34.40	1.90	5.52%	0.00	5.50	15.99%	0.00	25.20	73.26%	1.00
Rhode Island	63.00	5.00	8.02%	0.00	7.00	8.43%	2.00	57.00	68.87%	3.00
Vermont	40.00	3.00	7.50%	0.00	6.00	15.00%	0.00	23.00	57.50%	2.00
MIDDLE ATLANTIC	321.00	32.00	9.97%	3.00	44.00	13.71%	6.00	202.00	62.93%	26.00
New Jersey	251.00	18.00	6.37%	2.00	35.00	13.94%	6.00	165.00	65.74%	23.00
New York*										
Pennsylvania	70.00	18.00	22.86%	1.00	9.00	12.86%	2.00	37.00	52.86%	3.00
EAST NORTH CENTRAL	912.70	135.00	14.79%	4.00	87.50	9.59%	9.00	580.10	61.37%	49.00
Illinois	128.00	20.00	15.63%	0.00	21.00	16.41%	1.00	74.00	57.81%	5.00
Indiana	121.90	17.00	13.95%	1.00	11.00	9.02%	5.00	75.10	61.61%	6.00
Michigan	247.00	45.00	18.22%	3.00	12.00	4.86%	0.00	164.00	66.40%	20.00
Ohio	129.00	6.00	4.65%	0.00	24.00	18.60%	3.00	78.00	60.47%	7.00
Wisconsin	266.80	47.00	16.39%	0.00	19.50	6.90%	0.00	166.00	58.93%	9.00
WEST NORTH CENTRAL	528.68	49.00	9.30%	3.00	74.18	14.06%	3.00	331.50	62.94%	13.00
Iowa	165.40	10.00	6.05%	1.00	16.00	10.86%	0.00	113.40	68.56%	4.00
Kansas	76.00	11.00	14.47%	1.00	11.00	14.47%	2.00	48.00	63.16%	3.00
Minnesota	87.90	5.00	5.69%	0.00	10.80	12.29%	0.00	52.10	59.27%	1.00
Missouri	104.00	10.00	9.62%	0.00	20.00	19.23%	1.00	61.00	58.65%	3.00
Nebraska	26.00	7.00	25.00%	0.00	5.00	17.86%	0.00	14.00	50.00%	0.00
North Dakota	36.38	5.00	13.75%	1.00	5.38	14.78%	0.00	24.00	65.98%	1.00
South Dakota	29.00	1.00	3.45%	0.00	4.00	13.79%	0.00	19.00	65.52%	1.00
SOUTH ATLANTIC	1,498.10	84.25	5.62%	2.00	227.60	15.19%	7.60	1,034.25	69.04%	51.00
Delaware	52.50	5.25	10.00%	0.00	7.00	13.33%	0.00	32.25	61.43%	0.00
District of Columbia	46.00	7.00	15.22%	0.00	4.00	8.70%	0.00	32.00	69.57%	0.00
Florida	339.00	28.00	7.67%	0.00	66.00	19.47%	5.00	227.00	66.96%	27.00
Georgia	128.00	9.00	7.03%	0.00	29.00	22.66%	0.00	65.00	50.78%	2.00
Maryland	350.00	4.00	1.14%	0.00	45.00	12.86%	0.00	299.00	78.89%	10.00
North Carolina	180.00	9.00	5.00%	0.00	27.00	15.00%	1.00	118.00	65.56%	7.00
South Carolina	104.60	9.00	8.60%	1.00	14.60	13.96%	1.60	62.00	59.27%	2.00
Virginia	244.00	10.00	4.10%	0.00	29.00	11.89%	0.00	192.00	78.69%	0.00
West Virginia	54.00	5.00	9.26%	1.00	6.00	11.11%	0.00	37.00	68.52%	3.00
EAST SOUTH CENTRAL	493.50	37.00	7.50%	2.00	63.70	12.91%	2.00	336.30	68.15%	27.00
Alabama	171.00	5.00	2.92%	0.00	27.00	15.79%	0.00	114.00	66.67%	2.00
Kentucky	71.50	5.00	6.99%	0.00	9.70	13.57%	0.00	47.30	66.15%	2.00
Mississippi	60.00	2.00	3.33%	0.00	10.00	16.67%	0.00	41.00	68.33%	5.00
Tennessee	191.00	25.00	13.09%	2.00	17.00	8.90%	2.00	134.00	70.16%	18.00
WEST SOUTH CENTRAL	555.00	39.00	7.03%	2.00	74.00	13.33%	5.00	344.00	61.98%	40.00
Arkansas	113.00	4.00	3.54%	0.00	17.00	15.04%	0.00	80.00	70.80%	7.00
Louisiana	164.00	18.00	10.98%	2.00	25.00	15.24%	2.00	106.00	64.63%	22.00
Oklahoma	45.00	3.00	6.67%	0.00	6.00	13.33%	0.00	31.00	68.89%	1.00
Texas	233.00	14.00	6.01%	0.00	26.00	11.16%	3.00	127.00	54.51%	10.00
MOUNTAIN	404.35	40.00	9.89%	1.00	45.40	11.23%	1.00	275.00	68.01%	25.00
Arizona	0.00	0.00	#DIV/0!	0.00	0.00	#DIV/0!	0.00	0.00	#DIV/0!	0.00
Colorado	95.20	12.00	12.61%	0.00	12.00	12.61%	0.00	59.20	62.18%	7.00
Idaho	57.15	8.00	14.00%	1.00	7.40	12.95%	0.00	36.80	64.39%	4.00
Montana	27.00	2.00	7.41%	0.00	3.00	11.11%	1.00	22.00	81.48%	2.00
Nevada	30.00	4.00	13.33%	0.00	4.00	13.33%	0.00	14.00	46.67%	0.00
New Mexico	109.00	6.00	5.50%	0.00	7.00	6.42%	0.00	84.00	77.06%	12.00
Utah	68.00	5.00	7.35%	0.00	10.00	14.71%	0.00	48.00	70.59%	0.00
Wyoming	18.00	3.00	16.67%	0.00	2.00	11.11%	0.00	11.00	61.11%	0.00
PACIFIC	836.00	46.00	5.74%	1.00	94.50	11.30%	5.00	556.50	66.57%	90.00
Alaska	36.50	3.00	8.22%	0.00	9.00	24.66%	0.00	15.50	42.47%	0.00
California	507.00	14.00	2.76%	0.00	59.50	11.74%	2.00	352.50	69.53%	62.00
Hawaii	99.00	12.00	12.12%	0.00	6.00	6.06%	1.00	64.00	64.65%	11.00
Oregon	65.50	9.00	13.74%	0.00	10.00	15.27%	1.00	41.50	63.36%	2.00
Washington	128.00	10.00	7.81%	1.00	10.00	7.81%	1.00	83.00	64.84%	15.00
TERRITORIES	14.00	2.00	14.29%	0.00	2.00	14.29%	6.00	8.00	57.14%	3.00
Guam*										
Puerto Rico*										
Virgin Islands	14	2	14.29%	0	2	14.29%	0	8	57.14%	3

*New York, Guam and Puerto Rico did not report for 1991

TABLE 69: NUMBER OF BUDGETED POSITIONS

Lab & Region (1)	Total Budgeted Positions (2)	Support Services			Maintenance			Total Filled Positions	
		Number (12)	Percent of total (13)	Number of Vacancies (14)	Number (15)	Percent of total (16)	Number of Vacancies (17)	Number (18)	Percent of total (19)
TOTAL	6,115.73	759.82	12.42%	43.30	68.78	1.12%	1.00	5,629.83	92.05%
AVERAGE	127.41	15.49		2.31	3.18		1.00	108.49	
NEW ENGLAND	554.40	78.80	13.85%	5.50	17.00	3.07%	0.00	1,017.30	183.50%
Connecticut	185.00	25.00	12.82%	0.00	1.00	0.51%	0.00	525.00	100.00%
Massachusetts	151.00	23.00	15.23%	0.00	15.00	9.93%	0.00	182.00	98.33%
Maine	51.00	8.00	11.78%	0.00	0.00	0.00%	0.00	149.00	98.17%
New Hampshire	34.40	1.80	5.23%	0.00	0.00	0.00%	0.00	51.00	95.63%
Rhode Island	83.00	13.00	15.68%	2.00	1.00	1.20%	0.00	33.40	78.00%
Vermont	40.00	8.00	20.00%	2.00	0.00	0.00%	0.00	76.00	80.95%
MIDDLE ATLANTIC	321.00	42.00	13.08%	4.00	1.00	0.31%	0.00	280.00	87.23%
New Jersey	251.00	35.00	13.94%	3.00	0.00	0.00%	0.00	217.00	83.12%
New York*								0.00	
Pennsylvania	70.00	7.00	10.00%	1.00	1.00	1.43%	0.00	63.00	89.04%
EAST NORTH CENTRAL	912.70	117.10	12.83%	3.30	13.00	1.42%	1.00	848.40	92.74%
Illinois	128.00	12.00	9.38%	0.00	1.00	0.78%	0.00	122.00	98.21%
Indiana	121.90	16.80	13.78%	1.00	2.00	1.64%	0.00	106.90	91.87%
Michigan	247.00	26.00	10.53%	1.00	0.00	0.00%	0.00	223.00	92.07%
Ohio	129.00	13.00	10.08%	0.00	8.00	6.20%	1.00	118.00	93.75%
Wisconsin	286.80	49.30	17.19%	1.30	2.00	0.70%	0.00	276.50	94.42%
WEST NORTH CENTRAL	526.68	68.00	12.91%	2.00	4.25	0.81%	0.00	505.68	96.01%
Iowa	185.40	22.00	13.30%	0.00	2.00	1.21%	0.00	180.40	98.08%
Kansas	76.00	8.00	7.89%	1.00	0.00	0.00%	0.00	69.00	94.52%
Minnesota	87.90	20.00	22.75%	0.00	0.00	0.00%	0.00	86.90	92.63%
Missouri	104.00	12.00	11.54%	1.00	1.00	0.98%	0.00	99.00	98.08%
Nebraska	28.00	2.00	7.14%	0.00	0.00	0.00%	0.00	28.00	100.00%
North Dakota	36.38	2.00	5.50%	0.00	0.25	0.69%	0.00	34.38	91.16%
South Dakota	29.00	4.00	13.79%	0.00	1.00	3.45%	0.00	28.00	100.00%
SOUTH ATLANTIC	1,488.10	133.00	8.88%	2.00	19.00	1.27%	0.00	1,435.50	95.82%
Delaware	52.50	7.00	13.33%	0.00	1.00	1.90%	0.00	52.50	98.12%
District of Columbia	48.00	3.00	6.52%	0.00	0.00	0.00%	0.00	48.00	100.00%
Florida	339.00	19.00	5.60%	1.00	1.00	0.29%	0.00	306.00	95.81%
Georgia	128.00	24.00	18.75%	0.00	1.00	0.78%	0.00	128.00	97.08%
Maryland	350.00	28.00	8.00%	0.00	4.00	1.14%	0.00	340.00	95.00%
North Carolina	180.00	23.00	12.78%	0.00	3.00	1.67%	0.00	172.00	92.56%
South Carolina	104.60	14.00	13.38%	0.00	5.00	4.78%	0.00	100.00	96.19%
Virginia	244.00	11.00	4.51%	0.00	2.00	0.82%	0.00	244.00	100.00%
West Virginia	54.00	4.00	7.41%	1.00	2.00	3.70%	0.00	49.00	87.04%
EAST SOUTH CENTRAL	483.50	51.50	10.44%	5.00	5.00	1.01%	0.00	457.50	92.71%
Alabama	171.00	20.00	11.70%	1.00	5.00	2.92%	0.00	168.00	93.33%
Kentucky	71.50	9.50	13.29%	0.00	0.00	0.00%	0.00	69.50	92.85%
Mississippi	60.00	7.00	11.67%	2.00	0.00	0.00%	0.00	53.00	98.25%
Tennessee	191.00	15.00	7.85%	2.00	0.00	0.00%	0.00	187.00	90.43%
WEST SOUTH CENTRAL	555.00	97.00	17.48%	7.00	1.00	0.18%	0.00	501.00	90.27%
Arkansas	113.00	12.00	10.62%	0.00	0.00	0.00%	0.00	106.00	92.38%
Louisiana	184.00	15.00	8.15%	3.00	0.00	0.00%	0.00	135.00	77.71%
Oklahoma	45.00	5.00	11.11%	0.00	0.00	0.00%	0.00	44.00	97.78%
Texas	233.00	65.00	27.90%	4.00	1.00	0.43%	0.00	216.00	92.36%
MOUNTAIN	404.35	40.42	10.00%	3.00	3.53	0.87%	0.00	374.35	92.58%
Arizona	0.00	0.00	#DIV/0!	0.00	0.00	#DIV/0!	0.00	0.00	96.25%
Colorado	95.20	12.00	12.61%	2.00	0.00	0.00%	0.00	86.20	95.60%
Idaho	57.15	3.42	5.98%	0.00	1.53	2.68%	0.00	52.15	91.54%
Montana	27.00	0.00	0.00%	0.00	0.00	0.00%	0.00	24.00	56.00%
Nevada	30.00	8.00	26.67%	0.00	0.00	0.00%	0.00	30.00	98.55%
New Mexico	109.00	10.00	9.17%	1.00	2.00	1.83%	0.00	96.00	91.51%
Utah	68.00	5.00	7.35%	0.00	0.00	0.00%	0.00	68.00	92.31%
Wyoming	18.00	2.00	11.11%	0.00	0.00	0.00%	0.00	18.00	100.00%
PACIFIC	836.00	132.00	15.79%	13.00	5.00	0.60%	0.00	727.00	86.98%
Alaska	38.50	9.00	24.66%	0.00	0.00	0.00%	0.00	36.50	100.00%
California	507.00	81.00	15.98%	8.00	0.00	0.00%	0.00	437.00	86.19%
Hawaii	99.00	17.00	17.17%	4.00	0.00	0.00%	0.00	83.00	17.75%
Oregon	65.50	5.00	7.63%	0.00	0.00	0.00%	0.00	62.50	93.60%
Washington	128.00	20.00	15.63%	3.00	5.00	3.91%	0.00	108.00	89.06%
TERRITORIES	14.00	2.00	14.29%	0.00	0.00	0.00%	0.00	11.00	89.06%
Guam*									
Puerto Rico*									
Virgin Islands	14	2	14.29%	0	0	0.00%	0	11.00	89.06%

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 70: TURNOVER

Lab & Region	Total Positions Staffed	Total Number Resignations and Separations	Percent Turnover Filled Positions	Management	Clerical	Prof. and Tech. Positions			Supportive Services	Maintenance
						Number of Budgeted Positions	Resignations & Separations	Percent Turnover		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
TOTAL	6,115.73	506.29	9.75%	22.00	112.10	4,004.35	385.00	9.61%	74.66	4.53
AVERAGE	127.41	13.55		1.22	3.11	83.42	9.63		2.07	1.13
NEW ENGLAND	554.40	77.00	13.89%	7.00	17.50	356.70	42.50	11.91%	8.00	3.00
Connecticut	195.00	13.00	6.67%	2.00	5.00	132.50	8.00	4.53%	0.00	0.00
Massachusetts	151.00	16.50	10.93%	3.00	3.00	85.00	7.50	8.82%	2.00	1.00
Maine	51.00	6.00	11.76%	0.00	0.00	34.00	5.00	14.71%	1.00	0.00
New Hampshire	34.40	8.50	24.71%	0.00	2.50	25.20	6.00	23.81%	0.00	0.00
Rhode Island	83.00	23.00	27.71%	1.00	2.00	57.00	16.00	28.07%	3.00	2.00
Vermont	40.00	10.00	25.00%	1.00	5.00	23.00	2.00	8.70%	2.00	0.00
MIDDLE ATLANTIC	321.00	11.00	3.43%	2.00	2.00	202.00	7.00	3.47%	0.00	0.00
New Jersey	251.00	9.00	3.59%	1.00	1.00	185.00	7.00	4.24%	0.00	0.00
New York*										
Pennsylvania	70.00	2.00	2.86%	1.00	1.00	37.00	0.00	0.00%	0.00	0.00
EAST NORTH CENTRAL	912.70	73.50	8.05%	1.00	19.00	560.10	43.50	7.77%	10.00	0.00
Illinois	128.00	6.00	6.25%	0.00	2.00	74.00	6.00	8.11%	0.00	0.00
Indiana	121.90	19.00	15.59%	1.00	5.00	75.10	11.00	14.65%	2.00	0.00
Michigan	247.00	10.00	4.05%	0.00	5.00	164.00	4.00	2.44%	1.00	0.00
Ohio	129.00	7.00	5.43%	0.00	2.00	78.00	5.00	6.41%	0.00	0.00
Wisconsin	286.80	29.50	10.29%	0.00	5.00	169.00	17.50	10.36%	7.00	0.00
WEST NORTH CENTRAL	526.66	43.00	8.16%	2.00	7.00	331.50	31.00	9.35%	3.00	0.00
Iowa	165.40	16.00	9.67%	1.00	0.00	113.40	15.00	13.23%	0.00	0.00
Kansas	78.00	10.00	13.10%	0.00	2.00	48.00	7.00	14.58%	1.00	0.00
Minnesota	87.90	3.00	3.41%	0.00	1.00	52.10	2.00	3.84%	0.00	0.00
Missouri	104.00	6.00	5.77%	0.00	2.00	61.00	2.00	3.28%	2.00	0.00
Nebraska	28.00	1.00	3.57%	0.00	1.00	14.00	0.00	0.00%	0.00	0.00
North Dakota	36.38	6.00	16.49%	1.00	1.00	24.00	4.00	16.67%	0.00	0.00
South Dakota	29.00	1.00	3.45%	0.00	0.00	19.00	1.00	5.26%	0.00	0.00
SOUTH ATLANTIC	1,498.10	129.10	8.62%	3.00	20.60	1,034.25	82.00	8.90%	13.50	0.00
Delaware	52.50	2.00	3.81%	0.00	0.00	32.25	1.00	3.10%	1.00	0.00
District of Columbia	46.00	11.00	23.91%	1.00	0.00	32.00	6.00	25.00%	2.00	0.00
Florida	339.00	50.00	14.75%	1.00	11.00	227.00	36.00	15.86%	2.00	0.00
Georgia	128.00	10.50	8.20%	0.00	3.00	65.00	5.00	7.69%	2.50	0.00
Maryland	350.00	23.00	6.57%	0.00	3.00	269.00	18.00	6.69%	2.00	0.00
North Carolina	180.00	16.00	8.89%	0.00	2.00	118.00	11.00	9.32%	3.00	0.00
South Carolina	104.60	12.80	12.05%	1.00	1.60	62.00	10.00	16.13%	0.00	0.00
Virginia	244.00	0.00	0.00%	0.00	0.00	192.00	0.00	0.00%	0.00	0.00
West Virginia	54.00	4.00	7.41%	0.00	0.00	37.00	3.00	8.11%	1.00	0.00
EAST SOUTH CENTRAL	493.50	57.00	11.55%	1.00	7.00	336.30	41.00	12.19%	8.00	0.00
Alabama	171.00	14.00	8.19%	0.00	3.00	114.00	9.00	7.89%	2.00	0.00
Kentucky	71.50	5.00	6.99%	0.00	1.00	47.30	4.00	8.46%	0.00	0.00
Mississippi	60.00	10.00	16.67%	0.00	1.00	41.00	8.00	19.51%	1.00	0.00
Tennessee	191.00	28.00	14.66%	1.00	2.00	134.00	20.00	14.93%	5.00	0.00
WEST SOUTH CENTRAL	555.00	95.00	17.12%	1.00	25.00	344.00	58.00	16.86%	10.00	1.00
Arkansas	113.00	18.00	15.93%	0.00	5.00	80.00	13.00	16.25%	0.00	0.00
Louisiana	164.00	0.00	0.00%	0.00	0.00	106.00	0.00	0.00%	0.00	0.00
Oklahoma	45.00	7.00	15.56%	1.00	1.00	31.00	5.00	16.13%	0.00	0.00
Texas	233.00	70.00	30.04%	0.00	19.00	127.00	40.00	31.50%	10.00	1.00
MOUNTAIN	404.35	42.69	10.56%	3.00	5.00	275.00	29.00	10.55%	6.16	0.53
Arizona	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
Colorado	95.20	14.00	14.71%	2.00	1.00	59.20	9.00	15.20%	2.00	0.00
Idaho	57.15	5.69	9.96%	1.00	0.00	36.80	4.00	10.87%	1.16	0.53
Montana	27.00	8.00	29.63%	0.00	2.00	22.00	6.00	27.27%	0.00	0.00
Nevada	30.00	0.00	0.00%	0.00	0.00	14.00	0.00	0.00%	0.00	0.00
New Mexico	109.00	12.00	11.01%	0.00	2.00	84.00	8.00	9.52%	2.00	0.00
Utah	68.00	0.00	0.00%	0.00	0.00	48.00	0.00	0.00%	0.00	0.00
Wyoming	18.00	3.00	16.67%	0.00	0.00	11.00	2.00	18.18%	1.00	0.00
PACIFIC	836.00	65.00	7.78%	2.00	9.00	556.50	38.00	6.83%	16.00	0.00
Alaska	36.50	2.00	5.48%	0.00	2.00	15.50	0.00	0.00%	0.00	0.00
California	507.00	20.00	3.94%	0.00	2.00	352.50	12.00	3.40%	6.00	0.00
Hawaii	96.00	9.00	9.06%	1.00	1.00	64.00	4.00	6.25%	3.00	0.00
Oregon	65.50	8.00	12.21%	0.00	1.00	41.50	7.00	16.87%	0.00	0.00
Washington	128.00	26.00	20.31%	1.00	3.00	83.00	15.00	18.07%	7.00	0.00
TERRITORIES	14.00	3.00	21.43%	0.00	0.00	8.00	3.00	37.50%	0.00	0.00
Guam*										
Puerto Rico*										
Virgin Islands	14	3	21.43%	0	0	8	3	37.50%	0	0

*New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 71: STAFFING PATTERN OF PROFESSIONAL AND TECHNICAL PERSONNEL

Lab & Region (1)	Public Health Pathogenic Microbiology		Virology		Immunology		Public Health Chemistry		Environmental Microbiology	
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Number	Changes	Number	Changes	Number	Changes	Number	Changes	Number	Changes
TOTAL	660.23	(10.43)	380.95	(6.80)	371.80	(0.45)	430.45	10.40	251.78	(4.90)
NEW ENGLAND	51.10	-12.10	19.00	-3.60	41.50	-2.70	7.00	-1.00	18.80	-5.10
Connecticut	11.00	-9.00	5.00	-5.00	13.00	-2.00	0.00	0.00	7.00	-1.00
Massachusetts	17.50	-1.50	4.00	1.00	17.50	1.50	1.00	-3.00	4.00	0.00
Maine	8.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New Hampshire	4.00	-0.60	2.00	0.40	5.00	-1.20	0.00	0.00	1.80	-0.80
Rhode Island	6.00	-1.00	0.00	0.00	4.00	-1.00	6.00	2.00	5.00	-3.00
Vermont	4.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00	1.00	-0.50
MIDDLE ATLANTIC	32.00	-2.00	31.00	-1.00	12.00	2.00	22.00	0.00	3.00	0.00
New Jersey	23.00	-2.00	28.00	-1.00	8.00	2.00	19.00	0.00	3.00	0.00
New York*										
Pennsylvania	9.00	0.00	3.00	0.00	4.00	0.00	3.00	0.00	0.00	0.00
EAST NORTH CENTRAL	96.00	-4.00	64.80	-2.00	46.00	0.00	57.50	-1.00	38.00	-3.50
Illinois	11.00	-3.00	10.00	-1.00	6.00	0.00	18.00	0.00	9.00	0.00
Indiana	9.00	-3.00	5.60	0.00	12.00	2.00	0.00	0.00	13.00	-1.00
Michigan	48.00	0.00	28.00	0.00	0.00	0.00	14.00	0.00	4.00	0.00
Ohio	12.00	0.00	5.00	-2.00	6.00	1.00	14.00	0.00	6.00	-1.00
Wisconsin	16.00	2.00	16.00	1.00	22.00	-3.00	11.50	-1.00	6.00	-1.50
WEST NORTH CENTRAL	43.30	-1.00	24.70	-0.70	25.80	-1.70	31.30	2.80	25.60	-5.10
Iowa	8.20	1.00	7.10	0.30	5.30	-1.70	8.00	1.80	4.00	0.00
Kansas	7.00	-2.00	4.00	0.00	4.00	0.00	4.00	0.00	3.00	0.00
Minnesota	11.00	0.00	(7)	-1.00	0.00	0.00	5.50	0.00	3.90	-4.10
Missouri	9.00	0.00	4.00	0.00	12.00	0.00	13.00	1.00	7.00	-1.00
Nebraska	1.70	0.00	0.40	0.00	1.20	0.00	0.80	0.00	1.70	0.00
North Dakota	3.40	0.00	1.20	0.00	1.30	0.00	0.00	0.00	3.00	0.00
South Dakota	3.00	0.00	1.00	0.00	2.00	0.00	0.00	0.00	3.00	0.00
SOUTH ATLANTIC	176.00	0.95	121.90	-1.75	103.95	-5.20	127.20	-3.85	75.30	2.00
Delaware	9.75	1.00	6.40	0.00	2.20	0.00	2.20	0.00	3.80	0.00
District of Columbia	4.50	0.00	0.50	0.00	5.50	-2.00	10.00	-2.00	0.50	0.00
Florida	45.00	0.00	48.00	0.00	24.00	0.00	37.00	0.00	20.00	0.00
Georgia	21.25	-1.25	6.00	-1.25	17.25	0.00	13.50	-1.25	0.00	0.00
Maryland	43.00	0.00	33.00	0.00	19.00	0.00	30.00	1.00	16.00	2.00
North Carolina	11.00	0.00	12.00	-0.50	10.00	-0.50	11.00	-1.00	7.00	-1.00
South Carolina	13.00	-0.30	4.50	1.50	12.50	-1.70	10.00	0.40	4.00	0.00
Virginia	22.00	0.00	11.50	0.00	10.00	0.00	9.50	0.00	14.00	0.00
West Virginia	6.50	1.50	0.00	-1.50	3.50	-1.00	4.00	-1.00	10.00	1.00
EAST SOUTH CENTRAL	89.50	1.50	14.00	-1.00	40.80	5.40	35.00	5.00	18.00	-1.00
Alabama	48.00	-1.00	6.00	0.00	19.00	4.00	14.00	4.00	12.00	0.00
Kentucky	5.50	1.50	4.00	-1.00	9.80	0.40	10.00	0.00	3.00	0.00
Mississippi	NA		NA		NA		NA		NA	
Tennessee	36.00	1.00	4.00	0.00	12.00	1.00	11.00	1.00	3.00	-1.00
WEST SOUTH CENTRAL	72.00	2.00	21.00	1.00	55.00	3.00	52.00	2.00	36.00	2.00
Arkansas	14.00	2.00	1.00	0.00	10.00	0.00	11.00	-1.00	10.00	2.00
Louisiana	28.00	0.00	4.00	0.00	19.00	3.00	7.00	0.00	21.00	0.00
Oklahoma	9.00	0.00	3.00	0.00	7.00	0.00	5.00	2.00	0.00	0.00
Texas	21.00	0.00	13.00	1.00	19.00	0.00	29.00	1.00	5.00	0.00
MOUNTAIN	43.58	1.77	23.25	-0.75	14.25	-1.75	24.45	3.45	14.83	-0.20
Arizona	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colorado	4.33	0.80	1.00	0.00	5.00	-1.00	12.20	1.20	2.33	-1.20
Idaho	15.00	1.72	3.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00
Montana	3.00	0.00	5.00	0.00	0.00	0.00	3.00	1.00	3.00	0.00
Nevada	4.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	2.00	0.00
New Mexico	11.00	0.00	9.00	-1.00	0.00	0.00	5.00	0.00	4.50	0.00
Utah	4.25	-0.75	4.25	0.25	4.25	-0.75	4.25	1.25	1.00	0.00
Wyoming	2.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
PACIFIC	86.75	2.45	61.50	3.00	32.50	0.50	73.00	3.00	21.25	6.00
Alaska	6.75	-0.55	4.00	0.00	4.00	-0.50	0.00	0.00	0.25	0.00
California	40.00	0.00	35.00	0.00	13.50	0.00	40.00	0.00	2.00	2.00
Hawaii	14.00	0.00	3.00	0.00	7.00	0.00	7.00	0.00	10.00	4.00
Oregon	6.00	0.00	11.50	0.00	4.00	0.00	13.00	2.00	3.00	0.00
Washington	20.00	3.00	6.00	3.00	4.00	1.00	13.00	1.00	6.00	0.00
TERRITORIES	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00
Guam*										
Puerto Rico*										
Virgin Islands	0	0	0	0	0	0	1	0	1	0

** Personnel are included in entry of column number.

* New York, Guam and Puerto Rico did not report for fiscal year 1991

TABLE 71: STAFFING PATTERN OF PROFESSIONAL AND TECHNICAL PERSONNEL

Lab & Region (1)	Environmental Chemistry		Toxicology		Laboratory Improvement Program		Biologic, Reagent, Media Production		Other Professional/ Technical		Total Prof. and Tech. Positions Reported in Workload Categories (22)	Total Net Changes Reported (23)
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)		
	Number	Changes	Number	Changes	Number	Changes	Number	Changes	Number	Changes	Number	Changes
TOTAL	998.99	(21.00)	192.55	(5.00)	203.95	20.70	184.80	(5.50)	258.45	7.25	3,983.95	-15.73
NEW ENGLAND	77.00	-22.60	94.00	-1.00	1.80	-10.90	22.50	-0.50	24.00	3.90	358.70	-55.60
Connecticut	33.00	-13.00	34.00	-4.00	0.00	-9.00	6.00	2.00	23.50	7.50	132.50	-33.50
Massachusetts	8.00	4.00	19.50	0.50	0.00	-1.00	13.50	-2.50	0.00	0.00	85.00	-1.00
Maine	7.00	-4.00	9.00	0.00	1.00	0.00	3.00	0.00	0.00	0.00	34.00	-4.00
New Hampshire	0.00	-0.10	11.00	6.50	0.30	0.10	0.00	0.00	0.50	-3.60	25.20	0.90
Rhode Island	19.00	-8.00	17.00	-4.00	0.00	-1.00	0.00	0.00	0.00	0.00	57.00	-16.00
Vermont	10.00	-1.50	3.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	23.00	-2.00
MIDDLE ATLANTIC	60.00	-1.00	9.00	-7.00	28.00	5.00	0.00	0.00	5.00	4.00	202.00	0.00
New Jersey	60.00	-1.00	5.00	-7.00	15.00	5.00	0.00	0.00	4.00	4.00	165.00	0.00
New York*											0.00	0.00
Pennsylvania	0.00	0.00	4.00	0.00	13.00	0.00	0.00	0.00	1.00	0.00	37.00	0.00
EAST-NORTH CENTRAL	90.50	-7.80	17.00	3.00	23.50	5.50	66.00	-5.00	61.00	1.00	560.10	-13.80
Illinois	13.00	-2.00	2.00	0.00	1.00	0.00	4.00	0.00	0.00	0.00	74.00	-6.00
Indiana	27.50	-2.00	1.00	0.00	4.00	0.00	0.00	0.00	3.00	0.00	75.10	-4.00
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	10.00	0.00	164.00	0.00
Ohio	20.00	0.00	3.00	0.00	10.00	3.00	1.00	0.00	1.00	0.00	78.00	1.00
Wisconsin	30.00	-3.80	11.00	3.00	8.50	2.50	1.00	-5.00	47.00	1.00	169.00	-4.80
WEST NORTH CENTRAL	150.50	5.10	2.50	0.00	11.30	0.00	6.30	2.00	13.80	-0.40	335.10	1.00
Iowa	70.90	7.90	0.00	0.00	2.00	0.00	2.00	0.00	5.90	-1.40	113.40	7.90
Kansas	18.00	0.00	0.00	0.00	5.00	0.00	2.00	2.00	1.00	0.00	48.00	0.00
Minnesota	21.70	-1.80	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	52.10	-6.90
Missouri	12.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	2.00	0.00	61.00	0.00
Nebraska	6.30	0.00	0.50	0.00	0.20	0.00	0.50	0.00	0.70	0.00	14.00	0.00
North Dakota	18.60	-1.00	0.00	0.00	0.10	0.00	0.80	0.00	0.20	0.00	26.60	-1.00
South Dakota	5.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	4.00	1.00	20.00	1.00
SOUTH ATLANTIC	228.35	-0.50	17.05	-0.50	55.35	4.80	47.00	0.00	82.15	-1.75	1,034.25	-6.00
Delaware	3.35	0.00	1.05	0.00	0.35	0.00	0.00	0.00	3.15	0.00	32.25	1.00
District of Columbia	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	7.00	-4.00	32.00	-8.00
Florida	24.00	0.00	0.00	0.00	18.00	0.00	11.00	0.00	0.00	0.00	227.00	0.00
Georgia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	-0.25	65.00	-4.00
Maryland	71.00	0.00	2.00	0.00	18.00	7.00	13.00	0.00	24.00	0.00	269.00	10.00
North Carolina	23.00	0.00	2.00	0.00	11.00	0.00	0.00	0.00	31.00	0.00	118.00	-3.00
South Carolina	0.00	-0.50	10.00	-0.50	1.00	-1.40	0.00	-3.00	7.00	2.50	62.00	-3.00
Virginia	101.00	0.00	0.00	0.00	5.00	0.00	19.00	0.00	0.00	0.00	192.00	0.00
West Virginia	4.00	0.00	0.00	0.00	2.00	-1.00	4.00	3.00	3.00	0.00	37.00	1.00
EAST SOUTH CENTRAL	47.00	6.00	5.00	0.00	14.00	-1.00	21.00	-3.00	11.00	0.00	295.30	11.90
Alabama	0.00	0.00	0.00	0.00	5.00	1.00	10.00	-3.00	0.00	0.00	114.00	5.00
Kentucky	3.00	0.00	5.00	0.00	3.00	0.00	0.00	0.00	4.00	0.00	47.30	0.90
Mississippi	NA		NA		NA		NA		NA		NA	NA
Tennessee	44.00	6.00	0.00	0.00	6.00	-2.00	11.00	0.00	7.00	0.00	134.00	6.00
WEST SOUTH CENTRAL	67.00	-1.00	6.00	0.00	4.00	0.00	8.00	1.00	3.00	0.00	344.00	10.00
Arkansas	27.00	1.00	4.00	0.00	2.00	0.00	0.00	0.00	1.00	0.00	80.00	4.00
Louisiana	22.00	-2.00	1.00	0.00	0.00	0.00	3.00	1.00	1.00	0.00	108.00	2.00
Oklahoma	0.00	0.00	0.00	0.00	1.00	0.00	5.00	0.00	1.00	0.00	31.00	2.00
Texas	38.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	127.00	2.00
MOUNTAIN	81.14	9.30	41.00	1.00	13.50	1.00	8.00	0.00	11.00	1.00	275.00	14.82
Arizona	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colorado	18.34	2.30	12.00	0.00	0.00	0.00	2.00	0.00	2.00	0.00	56.20	2.10
Idaho	5.80	1.00	5.00	0.00	2.00	0.00	1.00	0.00	3.00	0.00	36.80	3.72
Montana	6.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	22.00	2.00
Nevada	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.00
New Mexico	29.00	3.00	13.00	0.00	5.50	1.00	3.00	0.00	4.00	1.00	84.00	4.00
Utah	17.00	2.00	8.00	1.00	5.00	0.00	0.00	0.00	2.00	0.00	48.00	3.00
Wyoming	0.00	0.00	5.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	11.00	0.00
PACIFIC	178.50	-8.50	1.00	-0.50	52.50	16.50	6.00	0.00	47.50	-0.50	558.50	21.95
Alaska	0.00	0.00	0.00	-0.50	0.00	0.00	0.00	0.00	0.50	-0.50	15.50	-2.05
California	148.50	-8.50	0.00	0.00	45.50	15.50	3.00	1.00	25.00	0.00	352.50	10.00
Hawaii	14.00	1.00	1.00	0.00	2.00	0.00	3.00	0.00	5.00	0.00	66.00	5.00
Oregon	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	41.50	2.00
Washington	14.00	-1.00	0.00	0.00	1.00	1.00	0.00	-1.00	17.00	0.00	83.00	7.00
TERRITORIES	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00
Guam*												
Puerto Rico*												
Virgin Islands	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00

** Personnel are included in entry of column number.

* New York, Guam and Puerto Rico did not report for fiscal year 1991

NOTES AND DEFINITIONS

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

An "average", in a table, is the total divided by the number of participating laboratories reporting activity in a given category or subcategory.

SYMBOLS

The data display format conforms to that of previous CAR reports. The following matrix identifies the symbols found in this edition

SYMBOL	Meaning and Purpose
Blank or 0	A report with no activity for that particular item
X	A positive response
NA	the laboratory reported that data were not available

THE FOLLOWING DEFINITIONS APPLY TO TABLES 1 THROUGH 60

Workload

Workload is reported by the number of specimens / samples in each category or subcategory. Workload includes procedures routinely followed in the laboratory. It does not include those procedures that the laboratory has the capability of performing but does not do on a routine basis. Routine tests are those tests performed as part of a standard operating procedure on a specimen or sample.

Specimen / Sample

Any material received in the laboratory for testing in a workload category or subcategory or a material which is divided into aliquots for testing in multiple categories or subcategories is counted as one specimen for each category or subcategory. 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 subcategory in which it is tested. The term "specimen" indicates an animal or human source, while "sample" indicates an environmental source.