

CONSOLIDATED ANNUAL REPORT
on
State and Territorial
Public Health Laboratories
Fiscal Year 1974

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THE DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
PUBLIC HEALTH SERVICE
DIVISION OF LABORATORY CONTROL
ATLANTA, GEORGIA 30333

УКРАЇНА-ЧИМПАКА

CONSOLIDATED ANNUAL REPORT
on State and Territorial
Public Health Laboratories
Fiscal Year 1974
For Administrative Use Only

October 1975

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

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TABLE OF CONTENTS

	Page
INTRODUCTION	1
SECTION I SUMMARY TABLES	5
SECTION II DIAGNOSTIC WORKLOAD	25
SECTION III SPECIAL QUESTIONS ON DIAGNOSTIC WORKLOAD	133
SECTION IV FINANCES	143
SECTION V PERSONNEL	153
SECTION VI LABORATORY FIELD ACTIVITIES	167
SECTION VII MISCELLANEOUS INFORMATION	173

LIST OF TABLES

Table	Title	Page
<u>SUMMARY TABLES</u>		
1-1.	Percentage of Personnel and Expenditures Allotted to Laboratory Program Services	7
1-2.	Summary of Laboratory Specimens and Examinations	9
1-3.	Percentage of Examinations Performed by Type of Examination	14
1-4.	Ratios of Specimens to Examinations and Examinations to Population	15
1-5.	Ratios of Personnel to Population	16
1-6.	Ratios of Expenditures to Personnel	17
1-7.	Ranking of States by Expenditures and by Expenditures Per Capita	18
1-7a.	Ranking of States by Expenditures and by Expenditures Per Capita Arranged by Region	19
1-8.	Ranking of States by Number of Specimens Received	20
1-8a.	Ranking of States by Number of Specimens Received Arranged by Region	21
1-9.	Ranking of States by Number of Budgeted Positions	22
1-9a.	Ranking of States by Number of Budgeted Positions Arranged by Region	23
<u>DIAGNOSTIC WORKLOAD</u>		
<u>Diagnostic Bacteriology</u>		
2-1.	Throat Cultures	26
2-2.	Vincent's Angina	27
2-3.	Mycobacterium	28
2-4.	Enteric Cultures	29
2-5.	Enteric Serogrouping and Serotyping	30
2-6.	Bacteriophage Typing	31
2-7.	Blood Cultures	32
2-8.	Spinal Fluid Cultures	33
2-9.	Wounds, Lesions, and Body Fluids	34
2-10.	Dental Caries Cultures	35
2-11.	Urine Cultures	35
2-12.	Genital Smears	36
2-13.	Neisseria Gonorrhoeae Cultures	37
2-14.	Antibiotic Sensitivity	38
2-15.	Referred Cultures and Miscellaneous Cultures	39
<u>Mycology</u>		
2-16.	Mycology Cultures	50
2-17.	Referred for Identification	52

LIST OF TABLES
(Continued)

Table	Title	Page
<u>Parasitology</u>		
2-18.	Parasites	53
2-19.	Blood Parasites, Microscopic	54
2-20.	Referred Specimens	55
<u>Virology</u>		
2-21.	Rabies	56
2-22.	Total Viral Isolations	57
2-23.	Human Source Isolations	58
2-24.	Animal and Miscellaneous Source Isolations	62
<u>Serology</u>		
2-25.	Syphilis Serology: Blood	66
2-26.	Syphilis Serology: Spinal Fluid	70
2-27.	Non-Syphilis Serology: Total Specimens, Examinations, and Positives	72
2-28.	Bacterial Serology	75
2-29.	Miscellaneous Serology	78
2-30.	Fungal Serology	80
2-31.	Parasitological Serology	82
2-32.	Viral and Rickettsial Serology: Complement Fixation	84
2-33.	Viral and Rickettsial Serology: HI and/or HAdI	87
2-34.	Viral and Rickettsial Serology: Neutralization and FA	89
2-35.	Viral and Rickettsial Serology: Australia Antigen	90
<u>Hematology or Blood Bank</u>		
2-36.	Total Specimens and Examinations	93
2-37.	Hematology Examinations	94
2-38.	Immunohematology Examinations	95
2-39.	Hemoglobinopathy Examinations	96
<u>Pathologic Anatomy</u>		
2-40.	Pathologic Anatomy	98
<u>Clinical Chemistry</u>		
2-41.	Total Specimens and Examinations	99
2-42.	Blood	100
2-43.	Urine	102
2-44.	Other	102
2-45.	Phenylketonuria and Other Inborn Errors	103
2-46.	Multiphasic Screening	104

LIST OF TABLES
(Continued)

Table	Title	Page
<u>Sanitary and Environmental Microbiology</u>		
2-47.	Sanitary and Environmental Microbiology: Total Specimens and Examinations	104
2-48.	Sanitary Microbiology: Water	105
2-49.	Sanitary Microbiology: Dairy Products	107
2-50.	Sanitary Microbiology: Foods	108
2-51.	Sanitary and Environmental Microbiology: Environmental Exams and Miscellaneous	110
2-52.	Sanitary and Environmental Microbiology: Stream Pollution	111
<u>Sanitary and Environmental Chemistry</u>		
2-53.	Sanitary and Environmental Chemistry: Total Specimens and Examinations	114
2-54.	Sanitary Chemistry: Drinking Water	114
2-55.	Sanitary Chemistry: Miscellaneous	116
2-56.	Sanitary and Environmental Chemistry: Water Pollution	118
<u>Air Pollution and Occupational Health and Safety</u>		
2-57.	Air Pollution	120
2-58.	Occupational Health and Safety	122
<u>Radioactivity, Pesticides, and Toxicology</u>		
2-59.	Radioactivity	123
2-60.	Pesticides	125
2-61.	Toxicology: Forensic and Other	127
2-62.	Exams Not Included Elsewhere	129
<u>SPECIAL QUESTIONS ON DIAGNOSTIC WORKLOAD</u>		
3-1.	States Reporting Screening for Metabolic Disorders Other Than PKU	134
3-2.	States Reporting Alcohol Programs Handled by the Laboratory	135
3-3.	Other Screening Programs	140
3-4.	Analytic Methods Used for Determination of Mercury	141
<u>FINANCES</u>		
4-1.	Laboratory Expenditures	145
4-2.	Laboratory Expenditures by Major Purpose	146
4-3.	Sources of Laboratory Funds	149

LIST OF TABLES
(Continued)

Table	Title	Page
<u>PERSONNEL</u>		
5-1.	Laboratory Staffing	156
5-2.	Personnel Distribution	157
5-3.	New Positions Established During Reporting Period	158
5-4.	Positions Abolished During Reporting Period	159
5-5.	Total Number of Employees Hired During Year	160
5-6.	Resignations and Separations During Reporting Period	161
5-7.	Number of Positions Filled as of Closing Date of Period Covered by Report	162
5-8.	Percent Turnover in All Positions	163
5-9.	Percent Turnover in Professional and Technical Positions	164

LABORATORY FIELD ACTIVITIES

6-1.	Number of Field Investigations, Inspections, or Consultations	168
6-2.	Number of Man-Days Spent in Field Activities	170

MISCELLANEOUS INFORMATION

7-1.	Status of Planning for New Laboratory Facilities	174
7-2.	Changes During the Reporting Year Affecting Relationships of Laboratory With Other Units of Government	178
7-3.	Enactment of New Laboratory Licensure Laws or Laboratory Personnel Licensure Laws	178
7-4.	Laboratory Newsletters	179
7-5.	Charges for Laboratory Services	181
7-6.	Grants, Contracts, or Special Service Agreements With Other Departments or Agencies (Private, Federal, State, or Local)	184

LIST OF FIGURES

Figure	Title	Page
1.	Specimens Received	6
2.	Laboratory Expenditures Per Capita	144
3.	Positions Authorized for State Public Health Laboratories	154
4.	Percentage of Turnover in All Positions	155

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INTRODUCTION

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INTRODUCTION

Laboratories represented by the Association of State and Territorial Public Health Laboratory Directors (ASTPHLD) report data for the fiscal year ending June 30, 1974, via this eleventh Consolidated Annual Report (CAR). For the first time, data for all fifty-four members of the ASTPHLD is contained herein. If some type of activity is not reported in this CAR for a given state, it may mean that a state agency other than the public health laboratory performs that service.

ASTPHLD-member laboratories, whose data is displayed in each table, have been arranged by geographical regions. Several graphs and charts included in this CAR show what type data is contained herein and how it might be displayed in a non-tabular format. It is hoped that these data displays of activity over time can be used to determine progress, or change.

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

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

Definitions of "examinations" and "specimens" were provided in the questionnaire.¹ These definitions are helpful as a guide in collecting and reporting data for this Annual Report, but it may be difficult to apply them in some instances. Possible differences in definitions and in formats used by laboratories for recording and reporting data are problems which should be kept in mind when making comparisons between states. The information contained in each Consolidated Annual Report has, nevertheless, been increasingly more accurate and complete.

¹Since there are many users of the CAR who do not have access to the questionnaire, these definitions are repeated here:

Specimen - A specimen is the material received in the laboratory; for example, this may be a throat swab, tube of blood, bottle of milk, smear on a slide, or a culture for identification. It should be reported in the category for which it was primarily submitted, i.e., "Streptococ-

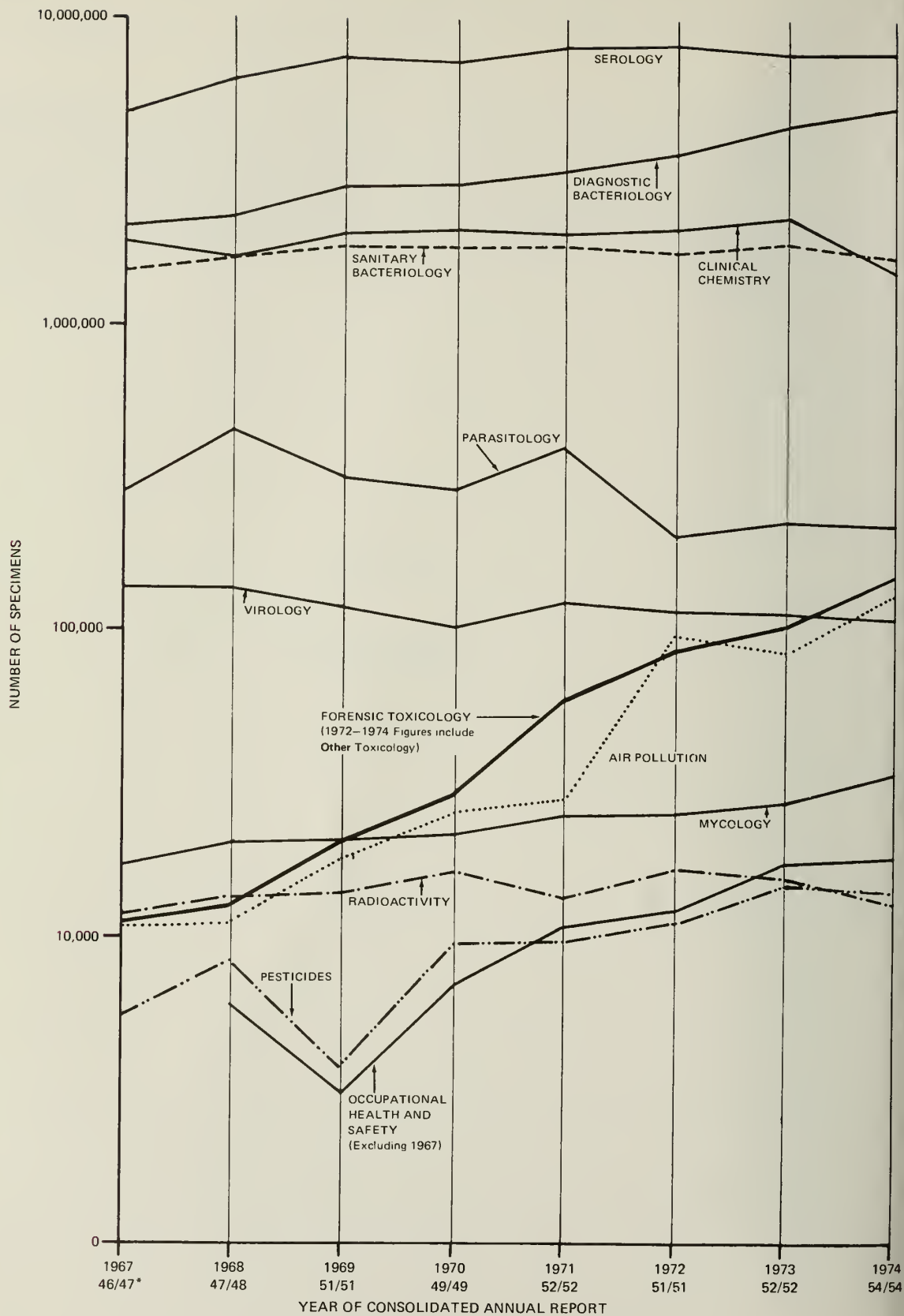
cus" specimen. If such a specimen is also subjected to testing for diphtheria, it should not be counted as another specimen, since the summation of the specimen columns should be an accurate tally of your total specimen load. However, such examination should be footnoted and referenced to streptococcus specimens.

Examination - This is the study of the specimen. What is done may be a very simple procedure, such as the examination of a bacterial smear which would constitute one complete examination. On the other hand, an examination may be rather complex and involve several cultural procedures followed by serological identification of an organism. The extent of the detail in which examinations will be reported will be indicated by the structure of this report form and accompanying definitions.

SECTION I

SUMMARY TABLES

Figure 1
SPECIMENS RECEIVED



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

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

	Laboratory Program Service			
	Analytical Services		Research and Development	
	Personnel %	Expenditures %	Personnel %	Expenditures %
New England				
Me.	97.4	97.4	-	-
N.H.	100.0	100.0	-	-
Vt.	98.0	99.0	-	-
Mass.	41.0	67.0	-	-
R.I.	98.0	98.0	1.0	1.0
Conn.	80.0	80.0	5.0	5.0
Middle Atlantic				
N.Y.	*	*	*	*
N.J.	*	*	*	*
Pa.	45.0	50.0	20.0	10.0
East North Central				
Ohio	58.1	53.5	1.7	0.5
Ind.	94.0	94.0	2.0	1.0
Ill.	95.2	92.4	0.4	0.8
Mich.	56.3	54.0	15.9	15.6
Wisc.	70.0	80.0	10.0	10.0
West North Central				
Minn.	88.0	72.0	2.0	13.0
Ia.	62.0	60.0	-	2.0
Mo.	90.0	*	-	*
N.D.	95.0	*	-	*
S.D.	96.0	98.0	3.0	2.0
Nebr.	*	*	*	*
Kans.	90.0	90.0	5.0	5.0
South Atlantic				
Del.	90.0	90.0	-	-
Md.	75.9	77.6	-	-
D.C.	95.0	95.0	-	-
Va.	87.0	99.0	5.0	<1.0
W.Va.	64.0	78.0	2.0	2.0
N.C.	57.5	58.5	-	-
S.C.	84.0	90.0	1.0	2.0
Ga.	96.0	96.0	<1.0	<1.0
Fla.	83.0	78.0	7.0	7.0
East South Central				
Ky.	90.0	*	5.0	*
Tenn.	88.0	*	2.0	*
Ala.	89.0	89.0	10.0	10.0
Miss.	98.0	98.0	1.0	1.0
West South Central				
Ark.	96.0	95.0	-	-
La.	46.2	*	-	*
Okla.	94.0	94.0	-	-
Tex.	92.0	78.0	-	5.0
Mountain				
Mont.	97.0	96.0	1.0	1.0
Ida.	98.4	99.8	-	-
Wyo.	91.0	85.0	-	-
Colo.	91.5	91.5	1.0	1.0
N.M.	97.0	97.0	-	-
Ariz.	67.0	65.0	1.0	2.0
Utah	85.0	80.0	1.0	2.0
Nev.	95.0	92.0	-	3.0
Pacific				
Wash.	74.0	*	-	*
Ore.	92.3	91.0	2.0	2.0
Cal.	48.0	40.0	8.0	10.0
Alaska	90.0	82.0	-	-
Hawaii	100.0	100.0	-	-
Guam	95.0	95.0	5.0	5.0
P.R.	75.0	53.0	1.0	2.0
V.I.	93.0	93.0	5.0	5.0

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

	Laboratory Program Service					
	Production of Biologics		Intrastate Laboratory Improvement		Other	
	Personnel %	Expenditures %	Personnel %	Expenditures %	Personnel %	Expenditures %
New England						
Me.	-	-	2.6	2.6	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	2.0	1.0	-	-
Mass.	24.2	32.0	1.2	1.0	33.6	-
R.I.	-	-	1.0	1.0	-	-
Conn.	-	-	15.0	15.0	-	-
Middle Atlantic						
N.Y.	*	*	*	*	*	*
N.J.	*	*	*	*	*	*
Pa.	-	-	35.0	40.0	-	-
East North Central						
Ohio	-	-	2.8	3.0	37.4	43.0
Ind.	-	-	2.0	5.0	2.0	-
Ill.	-	-	4.4	6.8	-	-
Mich.	24.9	27.1	2.9	3.3	-	-
Wisc.	-	-	-	10.0	20.0	-
West North Central						
Minn.	1.3	1.0	8.7	14.0	-	-
Ia.	-	-	5.0	6.0	33.0 (a)	32.0
Mo.	-	*	10.0	*	-	*
N.D.	-	*	5.0	*	-	*
S.D.	-	-	1.0	-	-	-
Nebr.	*	*	*	*	*	*
Kans.	-	-	5.0	5.0	-	-
South Atlantic						
Del.	-	-	-	-	10.0	10.0
Md.	-	-	1.8	2.2	22.3	20.2
D.C.	-	-	5.0	5.0	-	-
Va.	-	-	8.0	<1.0	-	-
W.Va.	-	-	4.0	20.0	30.0	-
N.C.	-	-	6.3	1.5	36.2	40.0
S.C.	-	-	5.0	5.0	10.0	3.0
Ga.	<1.0	-	4.0	4.0	-	-
Fla.	-	-	10.0	15.0	-	-
East South Central						
Ky.	-	*	5.0	*	-	*
Tenn.	5.0	*	-	*	5.0	*
Ala.	-	-	1.0	1.0	-	-
Miss.	0.4	0.4	0.6	0.6	-	-
West South Central						
Ark.	-	-	4.0	5.0	-	-
La.	1.8	*	-	*	52.0	*
Okla.	-	-	6.0	6.0	-	-
Tex.	7.0	10.0	1.0	5.0	-	2.0
Mountain						
Mont.	-	-	2.0	1.0	-	2.0
Ida.	-	-	1.6	0.2	-	-
Wyo.	-	-	9.0	15.0	-	-
Colo.	-	-	2.5	2.5	5.0	5.0
N.M.	2.0	2.0	1.0	1.0	-	-
Ariz.	11.0	10.0	9.0	7.0	12.0	16.0
Utah	1.0	5.0	3.0	5.0	10.0	8.0
Nev.	-	-	5.0	5.0	-	-
Pacific						
Wash.	-	*	12.0	*	14.0 (b)	*
Ore.	-	-	5.7	7.0	-	-
Cal.	5.0	4.0	12.0	14.0	27.0 (a)	32.0
Alaska	-	-	2.0	2.0	8.0	16.0
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	20.0	5.0	-	-	4.0	40.0
V.I.	-	-	2.0	2.0	4.0	-

TABLE 1-2. SUMMARY OF LABORATORY SPECIMENS AND EXAMINATIONS

	Total Specimens (c)	Total Exams (c)	Diagnostic Bacteriology		Mycology	
			Specimens	Exams	Specimens	Exams
New England						
Me.	177,847	243,256	51,913	101,214	396	396
N.H.	150,924	192,615	68,978	94,879	70	310
Vt.	147,830	176,463	33,468	36,398	81	81
Mass.	615,720	* (d)	179,169	*	576	*
R.I.	204,236	468,150	79,307	161,270	25	75
Conn.	728,460	1,195,563	354,655	488,773	1,551	4,559
Middle Atlantic						
N.Y.	* (d)	701,614	18,476	29,711	3,017	6,061
N.J.	710,021	2,245,697	199,492	494,477	495	2,281
Pa.	182,338	338,147	38,168	151,979	514	976
East North Central						
Ohio	709,378	1,577,296	315,511	477,299	784	3,928
Ind.	233,925	314,592	17,495	25,616	2,172	2,172
Ill.	427,657	654,780	202,949	281,944	917	3,668
Mich.	1,125,183	1,693,970	459,868	728,795	3,234	8,849
Wisc.	713,323	878,755	88,246	134,600	2,914	2,914
West North Central						
Minn.	414,627	505,085	82,460	105,219	3,533	8,018
Ia.	425,815	1,032,402	84,971	295,454	510	1,412
Mo.	408,615	789,693	74,143	235,969	217	5,308
N.D.	177,640	293,662	53,141	134,578	591	1,182
S.D.	104,346	170,942	30,159	71,729	150	450
Nebr.	128,627	158,070	21,061	24,288	35	65
Kans.	276,795	368,917	78,837	101,599	924	924
South Atlantic						
Del.	134,160	226,398	28,770	55,786	35	470
Md.	1,072,313	1,691,796	381,912	400,009	2,150	2,191
D.C.	389,599	504,168	72,939	94,467	-	-
Va.	681,233	899,543	186,347	337,970	550	1,561
W.Va.	218,330	439,145	71,148	141,866	437	2,165
N.C.	760,995	1,278,527	63,766	105,930	210	2,924
S.C.	746,910	1,286,076	115,881	254,942	1,637	25,025
Ga.	1,078,223	1,252,297	330,120	387,318	1,913	1,913
Fla.	2,163,092	2,761,744	618,973	878,816	3,357	4,159
East South Central						
Ky.	333,445	433,894	35,101	65,863	162	162
Tenn.	1,100,979	1,241,595	350,793	395,498	2,438	2,438
Ala.	1,243,872	1,884,891	370,430	731,185	2,241	23,853
Miss.	963,223	1,012,492	219,278	219,798	1,654	1,654
West South Central						
Ark.	340,644	439,662	95,865	152,118	1,653	8,899
La.	845,733	1,060,011	210,254	366,449	2,010	2,010
Okla.	401,588	455,215	126,332	128,586	377	368
Tex.	1,715,255	2,170,184	423,886	498,769	1,570	4,168
Mountain						
Mont.	108,575	174,337	18,859	52,415	175	175
Ida.	142,297	249,842	44,569	57,857	831	1,843
Wyo.	197,519	215,612	167,307	183,072	-	-
Colo.	602,572	766,768	310,763	353,412	180	180
N.M.	225,224	362,834	89,132	135,947	549	549
Ariz.	142,029 (e)	213,647 (e)	25,197	43,446	1,372	3,561
Utah	170,872	375,911	59,257	77,981	62	83
Nev.	152,570	289,451	54,856	143,957	57	336
Pacific						
Wash.	153,983	309,223	34,095	100,708	358	1,497
Ore.	469,519	844,090	84,985	118,745	272	584
Cal.	131,507	239,414	46,341	46,341	652	652
Alaska	164,831	197,329	80,267	100,247	208	213
Hawaii	294,440	412,881	217,331	298,651	681	1,033
Guam	33,445	63,339	5,697	13,009	16	52
P.R.	386,147	595,235	76,164	147,994	189	166
V.I.	39,682	50,519	11,960	13,991	207	270

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

	Parasitology		Virology		Syphilis	Serology
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	104	308	355	1,172	29,251	37,060
N.H.	1,336	1,681	464 (f)	1,489	46,991	45,235
Vt.	1,016	1,017	517	2,705	36,130	37,567
Mass.	-	-	6,505	12,445	264,136	264,136
R.I.	1,206	3,512	108 (f)	324	49,921	55,206
Conn.	14,724	21,700	7,524	26,669	120,188	120,188
Middle Atlantic						
N.Y.	700	700	5,330	13,949	*	116,571
N.J.	3,755	11,259	9,770	112,917	263,672	312,717
Pa.	330	970	2,323	2,317	16,555	19,149
East North Central						
Ohio	1,108	2,218	6,647	11,440	96,724	124,460
Ind.	2,351	4,048	4,093	7,688	93,554	97,197
Ill.	1,212	1,474	4,720	8,966	90,317	115,979
Mich.	3,351	3,640	3,756	7,597	341,329	387,312
Wisc.	5,024	5,029	5,917	5,837	175,269	192,618
West North Central						
Minn.	5,011	9,815	7,361	18,937	237,960	279,135
Ia.	1,354	2,684	3,609	32,373	173,007	180,098
Mo.	1,148	3,228	2,061	16,721	110,442	110,442
N.D.	687	1,368	570	570	52,034	53,813
S.D.	103	1,365	113 (f)	189	31,122	32,241
Nebr.	94	176	901 (f)	918	77,560	80,860
Kans.	5,403	10,778	668	6,680	112,127	122,012
South Atlantic						
Del.	185	294	668	776	35,274	42,461
Md.	8,841	8,844	2,699	4,024	207,930	253,080
D.C.	609	1,112	614	1,926	176,703	205,894
Va.	25,128	25,128	1,805	6,183	209,575	231,195
W.Va.	1,954	4,894	792	3,087	43,874	49,073
N.C.	6,247	6,293	2,925	13,437	307,002	348,681
S.C.	24,952	29,773	1,270	9,133	270,523	349,251
Ga.	66,816	84,630	3,278	11,590	526,527	542,076
Fla.	80,764	80,764	5,376	10,783	892,353	957,498
East South Central						
Ky.	3,689	6,934	2,048	5,791	141,339	146,806
Tenn.	7,699	14,643	3,139	5,675	448,010	457,284
Ala.	34,713	36,488	2,686	5,028	443,334	469,087
Miss.	11,035	11,035	613 (f)	613	337,851	346,623
West South Central						
Ark.	1,629	3,160	1,643	3,319	135,679	142,091
La.	47,815	47,815	8,577	8,577	203,452	203,452
Okla.	2,055	1,976	3,290	3,343	140,983	155,160
Tex.	11,644	17,379	7,430	10,628	167,158	263,828
Mountain						
Mont.	383	383	255	255	35,250	37,902
Ida.	174	344	142	359	22,438	24,561
Wyo.	96	192	-	-	13,806	14,865
Colo.	1,310	1,310	1,233	1,768	143,839	157,551
N.M.	572	567	816	816	55,814	64,874
Ariz.	480	1,231	954	4,516	49,650	57,896
Utah	2,455	2,455	753	4,469	64,259	77,496
Nev.	68	197	-	-	40,234	48,406
Pacific						
Wash.	1,696	1,702	905	5,848	40,731	53,809
Ore.	962	1,779	1,906	2,565	107,830	111,537
Cal.	1,588	1,588	7,244	19,197	19,976	25,589
Alaska	715	784	125	449	46,419	52,256
Hawaii	3,054	3,089	1,168	1,310	35,181	40,566
Guam	1,903	1,905	26 (f)	26	6,168	7,104
P.R.	6,395	12,790	209 (f)	357	157,526	157,526
V.I.	8,164	9,869	-	-	8,797	11,334

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

	Non-Syphilis Serology		Hematology or Blood Bank		Pathologic Anatomy	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	25,863	25,899	7,479	7,479	-	-
N.H.	-	-	4,672	9,140	-	-
Vt.	13,366	17,313	-	-	-	-
Mass.	10,367	*	-	-	-	-
R.I.	17,652	35,280	2,822	4,334	-	-
Conn.	24,397	78,407	16,929	37,995	-	-
Middle Atlantic						
N.Y.	5,457 (g)	55,789	4,898 (g)	60,902	14,905	16,065
N.J.	115,344	1,026,226	126	252	-	-
Pa.	6,887	11,013	360	674	-	-
East North Central						
Ohio	17,000	48,902	4,654	5,685	-	-
Ind.	6,887	24,811	-	-	-	-
Ill.	16,959	59,180	3,128	5,133	-	-
Mich.	39,650	68,851	20,184	44,396	-	-
Wisc.	24,674	56,877	17,469	20,362	167,584	186,926
West North Central						
Minn.	77,972	82,407	-	-	185	1,110
Ia.	65,362	97,108	-	-	-	-
Mo.	92,971	234,716	-	-	-	-
N.D.	22,137	25,617	4,444	8,416	-	-
S.D.	14,436	15,463	5,863	5,863	-	-
Nebr.	3,413	7,379	-	-	-	-
Kans.	14,331	21,533	-	-	-	-
South Atlantic						
Del.	-	-	2,160	3,023	41,246	41,246
Md.	53,147	99,478	91,857	150,254	53,059	53,884
D.C.	1,743	2,966	27,672	67,225	52,745	52,745
Va.	21,594	33,844	60,339	60,262	-	-
W.Va.	4,399	8,943	627	1,488	32,169	63,111
N.C.	56,708	73,099	2,357	3,803	112,077	112,077
S.C.	63,533	77,423	95,393	136,909	58	58
Ga.	17,794	26,608	41,314	47,602	-	-
Fla.	14,197	25,765	107,831	114,455	-	-
East South Central						
Ky.	13,107	23,902	26,183	36,506	-	-
Tenn.	26,340	37,006	20,018	39,691	-	-
Ala.	26,989	50,179	79,596	96,841	46,694	87,791
Miss.	5,909	10,892	135,804	135,804	-	-
West South Central						
Ark.	4,062	13,982	32,343	36,186	-	-
La.	35,615	35,615	33,500	33,500	14,479	14,479
Okla.	3,164	8,054	18,228	24,705	-	-
Tex.	17,909	37,253	70,781	147,437	-	-
Mountain						
Mont.	20,065	20,522	-	-	-	-
Ida.	3,856	10,557	2,561	3,479	196	230
Wyo.	7,795	8,215	-	-	-	-
Colo.	56,385	56,385	18,479	18,479	-	-
N.M.	3,612	4,440	3,693	3,693	-	-
Ariz.	13,929	21,451	3,557	3,961	-	-
Utah	6,113	16,913	605	1,818	-	-
Nev.	465	1,065	8,545	10,937	-	-
Pacific						
Wash.	19,294	19,705	8,428	12,708	-	-
Ore.	75,594	83,159	-	-	-	-
Cal.	22,005	48,260	48	594	-	-
Alaska	9,044	9,068	9,586	9,586	-	-
Hawaii	5,567	5,739	1,605	3,205	-	-
Guam	143	143	8,727	17,275	3,490	3,960
P.R.	3,843	3,883	34,984	86,650	-	-
V.I.	135	135	-	-	12	12

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

	<u>PKU and Other Inborn Errors</u>		<u>Clinical Chemistry</u>		<u>Sanitary & Environmental Microbiology</u>	
	<u>Specimens</u>	<u>Exams</u>	<u>Specimens</u>	<u>Exams</u>	<u>Specimens</u>	<u>Exams</u>
New England						
Me.	15,293	15,293	-	-	27,257	28,879
N.H.	15,928	16,950	12,485	22,931	-	-
Vt.	-	-	39,392	39,392	18,847	18,847
Mass.	70,589	494,123	54,311	271,555	67	*
R.I.	12,480	12,480	27,636	37,540	4,944	12,779
Conn.	68,611	107,043	34,931	41,470	27,342	82,217
Middle Atlantic						
N.Y.	71,613	239,840	7,345	17,804	*	81,604
N.J.	82,757	158,060	3,115	13,737	18,861	32,075
Pa.	55,542	55,942	2,241	3,667	56,189	85,655
East North Central						
Ohio	142,699	440,972	34,640	204,875	69,149	75,261
Ind.	-	-	-	-	50,011	62,337
Ill.	-	-	-	-	52,730	108,172
Mich.	98,720	98,540	25,416	85,444	94,615	128,353
Wisc.	12	12	126,861	155,824	58,881	59,347
West North Central						
Minn.	80	196	-	-	65	248
Ia.	3,485	3,775	-	-	46,091	150,450
Mo.	39,904	41,318	-	-	74,097	114,336
N.D.	13,512	13,512	2,951	5,282	18,021	37,651
S.D.	-	-	-	-	16,930	30,199
Nebr.	1,465	1,465	-	-	18,289	18,307
Kans.	15	15	3	3	35,259	38,670
South Atlantic						
Del.	14,544	14,544	1,816	10,682	8,705	51,650
Md.	61,634	259,069	54,386	89,684	94,007	159,557
D.C.	-	-	30,814	33,662	3,730	10,021
Va.	75,768	75,553	25,364	25,364	74,763	102,483
W.Va.	21,768	21,768	13,383	103,965	27,779	38,785
N.C.	80,611	80,537	75,932	392,016	39,168	40,276
S.C.	40,328	40,328	37,927	78,999	70,568	114,174
Ga.	69,807	69,949	6,864	6,855	261	483
Fla.	76,377	76,377	74,967	158,023	240,495	287,414
East South Central						
Ky.	39,070	39,070	1,000	2,505	40,013	53,242
Tenn.	63,507	63,507	9,728	9,728	65,837	83,637
Ala.	88,007	99,619	4,100	4,100	97,007	219,554
Miss.	-	-	168,349	168,349	80,729	112,638
West South Central						
Ark.	18,205	18,125	2,930	7,149	43,435	48,365
La.	55,108	55,108	9,606	19,212	213,884	213,884
Okla.	33,742	33,657	4,853	4,853	57,669	78,422
Tex.	437	437	23,578	23,578	922,632	1,019,663
Mountain						
Mont.	9,403	9,403	-	-	13,127	13,722
Ida.	13,152	13,152	850	969	30,279	51,946
Wyo.	-	-	-	-	7,902	8,655
Colo.	7,279	7,279	-	-	22,123	44,441
N.M.	15,584	15,584	200	200	30,014	62,146
Ariz.	-	-	1,711	1,711	39,860	50,724
Utah	-	-	382	7,830	21,372	32,492
Nev.	16,316	16,316	995	5,311	24,208	49,593
Pacific						
Wash.	18,829	18,829	-	-	21,297	24,784
Ore.	160,660	478,229	-	-	37,310	47,492
Cal.	468	1,492	1,426	5,957	16,769	28,648
Alaska	5,756	5,756	-	-	11,677	11,834
Hawaii	-	-	10,202	10,278	14,804	32,745
Guam	-	-	6,010	16,456	1,265	3,409
P.R.	-	-	76,019	105,994	15,303	43,880
V.I.	491	491	6,135	7,036	3,147	6,441

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

	<u>Sanitary & Environmental Chemistry</u>		<u>All Other Examinations</u>	
	Specimens	Exams	Specimens	Exams
New England				
Me.	14,200	19,400	5,736	6,156
N.H.	-	-	-	-
Vt.	3,847	21,987	1,166	1,156
Mass.	-	-	30,000	30,000
R.I.	-	-	8,135	145,350
Conn.	24,224	109,155	33,384	77,387
Middle Atlantic				
N.Y.	*	20,259	*	42,359
N.J.	10,350	79,499	2,284	2,197
Pa.	-	-	3,229	5,805
East North Central				
Ohio	12,053	157,949	8,409	24,307
Ind.	56,314	88,267	1,048	2,456
Ill.	47,663	60,181	7,062	10,083
Mich.	21,645	57,317	13,415	74,876
Wisc.	25,304	29,206	15,168	29,203
West North Central				
Minn.	-	-	-	-
Ia.	26,894	114,115	20,532	154,933
Mo.	6,446	19,826	7,186	7,829
N.D.	2,950	5,071	6,602	6,602
S.D.	5,281	13,255	189	188
Nebr.	891	8,963	4,918	15,649
Kans.	17,440	52,737	11,788	13,966
South Atlantic				
Del.	725	5,402	32	64
Md.	30,597	175,692	30,094	36,030
D.C.	2,445	10,004	19,585	24,146
Va.	-	-	-	-
W.Va.	-	-	-	-
N.C.	10,545	86,848	3,447	12,606
S.C.	3,453	138,890	21,387	31,171
Ga.	-	-	13,529	73,273
Fla.	19,853	44,486	28,549	123,204
East South Central				
Ky.	4,619	17,341	27,114	35,772
Tenn.	2,229	26,509	101,241	105,979
Ala.	48,075	61,166	-	-
Miss.	2,001	5,086	-	-
West South Central				
Ark.	3,200	6,268	-	-
La.	10,933	59,296	500	614
Okla.	10,895	16,091	-	-
Tex.	63,983	136,180	4,247	10,864
Mountain				
Mont.	3,517	29,455	7,541	10,105
Ida.	7,635	55,671	15,614	28,874
Wyo.	220	220	393	393
Colo.	6,631	53,072	34,350	72,891
N.M.	7,488	50,256	17,750	23,762
Ariz.	2,093	15,275	3,226	9,875
Utah	7,118	129,248	8,496	25,126
Nev.	5,051	11,082	1,775	2,251
Pacific				
Wash.	3,758	62,334	4,592	7,299
Ore.	-	-	-	-
Cal.	2,681	12,036	12,309	49,060
Alaska	1,024	7,126	10	10
Hawaii	4,662	15,574	185	691
Guam	-	-	-	-
P.R.	7,529	27,128	7,986	8,867
V.I.	40	346	594	594

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

	Diag. Bact. %	Mycology, Parasitology, Virology %	All Serology %	Hematology, Pathologic Anatomy, PKU, Clin. Chem. %	Sanitary & Environmental Microbiology %	Sanitary & Environmental Chemistry %	All Other Exam %
New England							
Me.	41.6	0.8	25.9	9.3	11.9	8.0	2.5
N.H.	49.2	1.8	23.5	25.5	-	-	-
Vt.	20.6	2.2	31.1	22.3	10.7	12.5	0.6
Mass.	*	*	*	*	*	*	*
R.I.	34.5	0.8	19.3	11.6	2.7	-	31.1
Conn.	40.9	4.4	16.6	15.6	6.9	9.1	6.5
Middle Atlantic							
N.Y.	4.2	3.0	24.6	47.7	11.6	2.9	6.0
N.J.	22.0	5.6	59.6	7.7	1.4	3.6	0.1
Pa.	45.0	1.3	8.9	17.8	25.3	-	1.7
East North Central							
Ohio	30.3	1.1	11.0	41.3	4.8	10.0	1.5
Ind.	8.1	4.4	38.8	-	19.8	28.1	0.8
Ill.	43.1	2.1	26.8	0.8	16.5	9.2	1.5
Mich.	43.0	1.2	26.9	13.5	7.6	3.4	4.4
Wisc.	15.3	1.6	28.4	41.3	6.8	3.3	3.3
West North Central							
Minn.	20.8	7.3	71.6	0.3	-	-	-
Ia.	28.6	3.5	26.9	0.4	14.6	11.0	15.0
Mo.	29.9	3.2	43.7	5.2	14.5	2.5	1.0
N.D.	45.8	1.1	27.0	9.3	12.8	1.7	2.3
S.D.	42.0	1.2	27.9	3.4	17.7	7.7	0.1
Nebr.	15.4	0.7	55.8	0.9	11.6	5.7	9.9
Kans.	27.5	5.0	38.9	-	10.5	14.3	3.8
South Atlantic							
Del.	24.6	0.7	18.8	30.7	22.8	2.4	-
Md.	23.7	0.9	20.8	32.7	9.4	10.4	2.1
D.C.	18.7	0.6	41.4	30.5	2.0	2.0	4.8
Va.	37.6	3.6	29.5	17.9	11.4	-	-
W.Va.	32.3	2.3	13.2	43.4	8.8	-	-
N.C.	8.3	1.8	33.0	46.0	3.1	6.8	1.0
S.C.	19.8	5.0	33.2	19.9	8.9	10.8	2.4
Ga.	30.9	7.9	45.4	10.0	-	-	5.9
Fla.	31.8	3.5	35.6	12.6	10.4	1.6	4.5
East South Central							
Ky.	15.2	3.0	39.3	18.0	12.3	4.0	8.2
Tenn.	31.9	1.8	39.8	9.1	6.7	2.1	8.6
Ala.	38.8	3.5	27.6	15.3	11.6	3.2	-
Miss.	21.7	1.3	35.3	30.1	11.1	0.5	-
West South Central							
Ark.	34.6	3.5	35.5	14.0	11.0	1.4	-
La.	34.6	5.5	22.6	11.5	20.2	5.6	-
Okla.	28.3	1.2	35.9	13.9	17.2	3.5	-
Tex.	23.0	1.5	13.9	7.9	47.0	6.2	0.5
Mountain							
Mont.	30.0	0.5	33.5	5.4	7.9	16.9	5.8
Ida.	23.2	1.0	14.1	7.1	20.8	22.3	11.5
Wyo.	84.9	0.1	10.7	-	4.0	0.1	0.2
Colo.	46.1	0.4	27.9	3.4	5.8	6.9	9.5
N.M.	37.5	0.5	19.1	5.4	17.1	13.9	6.5
Ariz.	20.3	4.4	37.1	2.6	23.8	7.2	4.6
Utah	20.7	1.9	25.1	2.6	8.6	34.4	6.7
Nev.	49.7	0.2	17.1	11.3	17.1	3.8	0.8
Pacific							
Wash.	32.6	2.9	23.8	10.2	8.0	20.1	2.4
Ore.	14.1	0.6	23.1	56.6	5.6	-	-
Cal.	19.4	9.0	30.8	3.3	12.0	5.0	20.5
Alaska	50.8	0.7	31.1	7.8	6.0	3.6	-
Hawaii	72.3	1.3	11.2	3.3	7.9	3.8	0.2
Guam	20.5	3.1	11.5	59.5	5.4	-	-
P.R.	24.9	2.2	27.1	32.4	7.4	4.5	1.5
V.I.	27.7	20.1	22.7	14.9	12.7	0.7	1.2

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

	Estimated Population (h)	Number of Specimens	Number of Exams	Ratio of Specimens to Exams	Ratio of Exams to Population
New England					
Me.	1,029,000	177,847	243,256	1:1.4	1:4.2
N.H.	771,000	150,924	192,615	1:1.3	1:4.0
Vt.	462,000	147,830	176,463	1:1.2	1:2.6
Mass.	5,787,000	615,720	*	*	*
R.I.	968,000	204,236	468,150	1:2.3	1:2.1
Conn.	3,082,000	728,460	1,195,563	1:1.6	1:2.6
Middle Atlantic					
N.Y.	18,366,000	*	701,614	*	1:26.2
N.J.	7,367,000	710,021	2,245,697	1:3.2	1:3.3
Pa.	11,926,000	182,338	338,147	1:1.9	1:35.3
East North Central					
Ohio	10,783,000	709,378	1,577,296	1:2.2	1:6.8
Ind.	5,291,000	233,925	314,592	1:1.3	1:16.8
Ill.	11,251,000	427,657	654,780	1:1.5	1:17.2
Mich.	9,082,000	1,125,183	1,693,970	1:1.5	1:5.4
Wisc.	4,520,000	713,323	878,755	1:1.2	1:5.1
West North Central					
Minn.	3,896,000	414,627	505,085	1:1.2	1:7.7
Ia.	2,883,000	425,815	1,032,402	1:2.4	1:2.8
Mo.	4,753,000	408,615	789,693	1:1.9	1:6.0
N.D.	632,000	177,640	293,662	1:1.7	1:2.2
S.D.	679,000	104,346	170,942	1:1.6	1:4.0
Nebr.	1,525,000	128,627	158,070	1:1.2	1:9.7
Kans.	2,258,000	276,795	368,917	1:1.3	1:6.1
South Atlantic					
Del.	565,000	134,160	226,398	1:1.7	1:2.5
Md.	4,056,000	1,072,313	1,691,796	1:1.6	1:2.4
D.C.	748,000	389,599	504,168	1:1.3	1:1.5
Va.	4,764,000	681,233	899,543	1:1.3	1:5.3
W.Va.	1,781,000	218,330	439,145	1:2.0	1:4.1
N.C.	5,214,000	760,995	1,278,527	1:1.7	1:4.1
S.C.	2,665,000	746,910	1,286,076	1:1.7	1:2.1
Ga.	4,720,000	1,078,223	1,252,297	1:1.2	1:3.8
Fla.	7,259,000	2,163,092	2,761,744	1:1.3	1:2.6
East South Central					
Ky.	3,299,000	333,445	433,894	1:1.3	1:7.6
Tenn.	4,031,000	1,100,979	1,241,595	1:1.1	1:3.3
Ala.	3,510,000	1,243,872	1,884,891	1:1.5	1:1.9
Miss.	2,263,000	963,223	1,012,492	1:1.1	1:2.2
West South Central					
Ark.	1,978,000	340,644	439,662	1:1.3	1:4.5
La.	3,720,000	845,733	1,060,011	1:1.3	1:3.5
Okla.	2,634,000	401,588	455,215	1:1.1	1:5.8
Tex.	11,649,000	1,715,255	2,170,184	1:1.3	1:5.4
Mountain					
Mont.	719,000	108,575	174,337	1:1.6	1:4.1
Ida.	756,000	142,297	249,842	1:1.8	1:3.0
Wyo.	345,000	197,519	215,612	1:1.1	1:1.6
Colo.	2,357,000	602,572	766,768	1:1.3	1:3.1
N.M.	1,065,000	225,224	362,834	1:1.6	1:2.9
Ariz.	1,945,000	142,029	213,647	1:1.5	1:9.1
Utah	1,126,000	170,872	375,911	1:2.2	1:3.0
Nev.	527,000	152,570	289,451	1:1.9	1:1.8
Pacific					
Wash.	3,443,000	153,983	309,223	1:2.0	1:11.1
Ore.	2,182,000	469,519	844,090	1:1.8	1:2.6
Cal.	20,468,000	131,507	239,414	1:1.8	1:85.5
Alaska	325,000	164,831	197,329	1:1.2	1:1.7
Hawaii	809,000	294,440	412,881	1:1.4	1:2.0
Guam	85,000	33,445	63,339	1:1.9	1:1.3
P.R.	2,712,000	386,147	595,235	1:1.5	1:4.6
V.I.	62,000	39,682	50,519	1:1.3	1:1.2

TABLE 1-5. RATIOS OF PERSONNEL TO POPULATION

	Estimated Population (h)	Total Personnel (i)	Professional and Technical Personnel (i)	Ratio of Total Personnel to Population	Ratio of Prof. & Tech. Personnel to Population
New England					
Me.	1,029,000	44	30	1:23,386	1:34,300
N.H.	771,000	22	14	1:35,045	1:55,071
Vt.	462,000	26	13	1:17,769	1:35,538
Mass.	5,787,000	240	94	1:24,113	1:61,564
R.I.	968,000	70	50	1:13,829	1:19,360
Conn.	3,082,000	211	137	1:14,607	1:22,496
Middle Atlantic					
N.Y.	18,366,000	735	453	1:24,988	1:40,543
N.J.	7,367,000	206	139	1:35,762	1:53,000
Pa.	11,926,000	104	72	1:114,673	1:165,639
East North Central					
Ohio	10,783,000	176	111	1:61,267	1:97,144
Ind.	5,291,000	79	51	1:66,975	1:103,745
Ill.	11,251,000	135	72	1:83,341	1:156,264
Mich.	9,082,000	402	229	1:22,592	1:39,659
Wisc.	4,520,000	141	79	1:32,057	1:57,215
West North Central					
Minn.	3,896,000	86	45	1:45,302	1:86,578
Ia.	2,883,000	99	62	1:29,121	1:46,500
Mo.	4,753,000	50	32	1:95,060	1:148,531
N.D.	632,000	29½	19	1:21,424	1:33,263
S.D.	679,000	20	11	1:33,950	1:61,727
Nebr.	1,525,000	26	16	1:58,654	1:95,313
Kans.	2,258,000	70½	44	1:32,028	1:51,318
South Atlantic					
Del.	565,000	32	22	1:17,656	1:25,682
Md.	4,056,000	268	188	1:15,134	1:21,574
D.C.	748,000	65	53	1:11,508	1:14,113
Va.	4,764,000	94	58	1:50,681	1:82,138
W.Va.	1,781,000	55	32½	1:32,382	1:54,800
N.C.	5,214,000	121	76	1:43,091	1:68,605
S.C.	2,665,000	119	88	1:22,395	1:30,284
Ga.	4,720,000	171	95	1:27,602	1:49,684
Fla.	7,259,000	217	133	1:33,452	1:54,579
East South Central					
Ky.	3,299,000	64	40	1:51,547	1:82,475
Tenn.	4,031,000	131	72	1:30,771	1:55,986
Ala.	3,510,000	186	127	1:18,871	1:27,638
Miss.	2,263,000	46	29	1:49,196	1:78,034
West South Central					
Ark.	1,978,000	54	35	1:36,630	1:56,514
La.	3,720,000	152	75	1:24,474	1:49,600
Okla.	2,634,000	56½	35	1:46,619	1:75,257
Tex.	11,649,000	190	123	1:61,311	1:94,707
Mountain					
Mont.	719,000	32½	22	1:22,123	1:32,682
Ida.	756,000	62	46	1:12,194	1:16,435
Wyo.	345,000	11½	7	1:30,000	1:49,286
Colo.	2,357,000	77	44	1:30,610	1:53,568
N.M.	1,065,000	55	29	1:19,364	1:36,724
Ariz.	1,945,000	53	36	1:36,698	1:54,028
Utah	1,126,000	58	40	1:19,414	1:28,150
Nev.	527,000	25	13	1:21,080	1:40,538
Pacific					
Wash.	3,443,000	81½	42	1:42,245	1:81,976
Ore.	2,182,000	50	34	1:43,640	1:64,176
Cal.	20,468,000	289	174	1:70,824	1:117,632
Alaska	325,000	30	12	1:10,833	1:27,083
Hawaii	809,000	49	31	1:16,510	1:26,097
Guam	85,000	14	10	1:6,071	1:8,500
P.R.	2,712,000	149	95	1:18,201	1:28,547
V.I.	62,000	9	6	1:6,889	1:10,333

TABLE 1-6. RATIOS OF EXPENDITURES TO PERSONNEL

	Total Expenditures	Total Personnel (i)	Professional and Technical Personnel (i)	Expenditures per Employee	Expenditures per Prof. & Tech. Employee
New England					
Me.	\$ 574,976	44	30	\$ 13,067.64	\$ 19,165.87
N.H.	247,097	22	14	11,231.68	17,649.79
Vt.	345,920	26	13	13,304.62	26,609.23
Mass.	2,987,540	240	94	12,448.08	31,782.34
R.I.	1,020,000	70	50	14,571.43	20,400.00
Conn.	2,345,122	211	137	11,114.32	17,117.68
Middle Atlantic					
N.Y.	*	735	453	*	*
N.J.	2,479,923	206	139	12,038.46	17,841.17
Pa.	1,770,949	104	72	17,028.36	24,596.51
East North Central					
Ohio	2,252,324	176	111	12,797.30	20,291.21
Ind.	850,049	79	51	10,760.11	16,667.63
Ill.	2,097,400	135	72	15,536.30	29,130.56
Mich.	6,930,273	402	229	17,239.49	30,263.20
Wisc.	3,163,660	141	79	22,437.30	40,046.33
West North Central					
Minn.	*	86	45	*	*
Ia.	1,629,638	99	62	16,460.99	26,284.48
Mo.	553,879	50	32	11,077.58	17,308.72
N.D.	281,874	29½	19	9,555.05	14,835.47
S.D.	209,596	20	11	10,479.80	19,054.18
Nebr.	260,400	26	16	10,015.38	16,275.00
Kans.	847,123	70½	44	12,015.93	19,252.80
South Atlantic					
Del.	191,088	32	22	5,971.50	8,685.82
Md.	3,405,924	268	188	12,708.67	18,116.62
D.C.	1,045,127	65	53	16,078.88	19,719.38
Va.	867,598	94	58	9,229.77	14,958.59
W.Va.	632,515	55	32½	11,500.27	19,462.00
N.C.	1,782,864	121	76	14,734.41	23,458.74
S.C.	1,056,161	119	88	8,875.30	12,001.83
Ga.	2,176,693	171	95	12,729.20	22,912.56
Fla.	2,380,808	217	133	10,971.47	17,900.81
East South Central					
Ky.	676,093	64	40	10,563.95	16,902.33
Tenn.	1,647,625	131	72	12,577.29	22,883.68
Ala.	1,829,983	186	127	9,838.62	14,409.31
Miss.	669,054	46	29	14,544.65	23,070.83
West South Central					
Ark.	495,897	54	35	9,183.28	14,168.49
La.	1,709,092	152	75	11,244.03	22,787.89
Okla.	535,027	56½	35	9,469.50	15,286.49
Tex.	2,493,310	190	123	13,122.68	20,270.81
Mountain					
Mont.	257,995	32½	22	7,938.31	11,727.05
Ida.	827,864	62	46	13,352.65	17,997.04
Wyo.	209,762	11½	7	18,240.17	29,966.00
Colo.	977,600	77	44	12,696.10	22,218.18
N.M.	987,986	55	29	17,963.38	34,068.48
Ariz.	764,948	53	36	14,432.98	21,248.56
Utah	773,898	58	40	13,343.07	19,347.45
Nev.	326,834	25	13	13,073.36	25,141.08
Pacific					
Wash.	*	81½	42	*	*
Ore.	673,203	50	34	13,464.06	19,800.09
Cal.	4,960,700	289	174	17,165.05	28,509.77
Alaska	683,400	30	12	22,780.00	56,950.00
Hawaii	564,543	49	31	11,521.29	18,211.06
Guam	151,792	14	10	10,842.29	15,179.20
P.R.	832,269	149	95	5,585.70	8,760.73
V.I.	157,021	9	6	17,446.78	26,170.17

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

Rank	State	Expenditures	Rank	State	Per Capita Expenditures
1	Mich.	\$ 6,930,273	1	V.I.	\$ 2.533
2	Cal.	4,960,700	2	Alaska	2.103
3	Md.	3,405,924	3	Guam	1.786
4	Wisc.	3,163,660	4	D.C.	1.397
5	Mass.	2,987,540	5	Ida.	1.095
6	Tex.	2,493,310	6	R.I.	1.054
7	N.J.	2,479,923	7	N.M.	0.928
8	Fla.	2,380,808	8	Md.	0.840
9	Conn.	2,345,122	9	Mich.	0.763
10	Ohio	2,252,324	10	Conn.	0.761
11	Ga.	2,176,693	11	Vt.	0.749
12	Ill.	2,097,400	12	Wisc.	0.700
13	Ala.	1,829,983	13	Hawaii	0.698
14	N.C.	1,782,864	14	Utah	0.687
15	Pa.	1,770,949	15	Nev.	0.620
16	La.	1,709,092	16	Wyo.	0.608
17	Tenn.	1,647,625	17	Ia.	0.565
18	Ia.	1,629,638	18	Me.	0.559
19	S.C.	1,056,161	19	Ala.	0.521
20	D.C.	1,045,127	20	Mass.	0.516
21	R.I.	1,020,000	21	Ga.	0.461
22	N.M.	987,986	22	La.	0.459
23	Colo.	977,600	23	N.D.	0.446
24	Va.	867,598	24	Colo.	0.415
25	Ind.	850,049	25	Tenn.	0.409
26	Kans.	847,123	26	S.C.	0.396
27	P.R.	832,269	27	Ariz.	0.393
28	Ida.	827,864	28	Kans.	0.375
29	Utah	773,898	29	Mont.	0.359
30	Ariz.	764,948	30	W.Va.	0.355
31	Alaska	683,400	31	N.C.	0.342
32	Ky.	676,093	32	Del.	0.338
33	Ore.	673,203	33	N.J.	0.337
34	Miss.	669,054	34	Fla.	0.328
35	W.Va.	632,515	35	N.H.	0.320
36	Me.	574,976	36	S.D.	0.309
37	Hawaii	564,543	37	Ore.	0.308
38	Mo.	553,879	38	P.R.	0.307
39	Okla.	535,027	39	Miss.	0.296
40	Ark.	495,897	40	Ark.	0.251
41	Vt.	345,920	41	Cal.	0.242
42	Nev.	326,834	42	Tex.	0.214
43	N.D.	281,874	43	Ohio	0.209
44	Nebr.	260,400	44	Ky.	0.205
45	Mont.	257,995	45	Okla.	0.203
46	N.H.	247,097	46	Ill.	0.186
47	Wyo.	209,762	47	Va.	0.182
48	S.D.	209,596	48	Nebr.	0.171
49	Del.	191,088	49	Ind.	0.161
50	V.I.	157,021	50	Pa.	0.148
51	Guam	151,792	51	Mo.	0.116

TABLE 1-7A. RANKING OF STATES BY EXPENDITURES AND BY EXPENDITURES PER CAPITA ARRANGED BY REGION (j)

State	Expenditures	State	Per Capita Expenditures
New England			
Mass.	\$ 2,987,540	R.I.	\$ 1.054
Conn.	2,345,122	Conn.	0.761
R.I.	1,020,000	Vt.	0.749
Me.	574,976	Me.	0.559
Vt.	345,920	Mass.	0.516
N.H.	247,097	N.H.	0.320
Middle Atlantic			
N.J.	2,479,923	N.J.	0.337
Pa.	1,770,949	Pa.	0.148
East North Central			
Mich.	6,930,273	Mich.	0.763
Wisc.	3,163,660	Wisc.	0.700
Ohio	2,252,324	Ohio	0.209
Ill.	2,097,400	Ill.	0.186
Ind.	850,049	Ind.	0.161
West North Central			
Ia.	1,629,638	Ia.	0.565
Kans.	847,123	N.D.	0.446
Mo.	553,879	Kans.	0.375
N.D.	281,874	S.D.	0.309
Nebr.	260,400	Nebr.	0.171
S.D.	209,596	Mo.	0.116
South Atlantic			
Md.	3,405,924	D.C.	1.397
Fla.	2,380,808	Md.	0.840
Ga.	2,176,693	Ga.	0.461
N.C.	1,782,864	S.C.	0.396
S.C.	1,056,161	W.Va.	0.355
D.C.	1,045,127	N.C.	0.342
Va.	867,598	Del.	0.338
W.Va.	632,515	Fla.	0.328
Del.	191,088	Va.	0.182
East South Central			
Ala.	1,829,983	Ala.	0.521
Tenn.	1,647,625	Tenn.	0.409
Ky.	676,093	Miss.	0.296
Miss.	669,054	Ky.	0.205
West South Central			
Tex.	2,493,310	La.	0.459
La.	1,709,092	Ark.	0.251
Okla.	535,027	Tex.	0.214
Ark.	495,897	Okla.	0.203
Mountain			
N.M.	987,986	Ida.	1.095
Colo.	977,600	N.M.	0.928
Ida.	827,864	Utah	0.687
Utah	773,898	Nev.	0.620
Ariz.	764,948	Wyo.	0.608
Nev.	326,834	Colo.	0.415
Mont.	257,995	Ariz.	0.393
Wyo.	209,762	Mont.	0.359
Pacific			
Cal.	4,960,700	Alaska	2.103
Alaska	683,400	Hawaii	0.698
Ore.	673,203	Ore.	0.308
Hawaii	564,543	Cal.	0.242
P.R.	832,269	V.I.	2.533
I.I.	157,021	Guam	1.786
Guam	151,792	P.R.	0.307

TABLE 1-8. RANKING OF STATES BY NUMBER OF SPECIMENS RECEIVED (k)

Rank	State	Number of Specimens Received
1	Florida	2,163,092
2	Texas	1,715,255
3	Alabama	1,243,872
4	Michigan	1,125,183
5	Tennessee	1,100,979
6	Georgia	1,078,223
7	Maryland	1,072,313
8	Mississippi	963,223
9	Louisiana	845,733
10	North Carolina	760,995
11	South Carolina	746,910
12	Connecticut	728,460
13	Wisconsin	713,323
14	New Jersey	710,021
15	Ohio	709,378
16	Virginia	681,233
17	Massachusetts	615,720
18	Colorado	602,572
19	Oregon	469,519
20	Illinois	427,657
21	Iowa	425,815
22	Minnesota	414,627
23	Missouri	408,615
24	Oklahoma	401,588
25	D.C.	389,599
26	Puerto Rico	386,147
27	Arkansas	340,644
28	Kentucky	333,445
29	Hawaii	294,440
30	Kansas	276,795
31	Indiana	233,925
32	New Mexico	225,224
33	West Virginia	218,330
34	Rhode Island	204,236
35	Wyoming	197,519
36	Pennsylvania	182,338
37	Maine	177,847
38	North Dakota	177,640
39	Utah	170,872
40	Alaska	164,831
41	Washington	153,983
42	Nevada	152,570
43	New Hampshire	150,924
44	Vermont	147,830
45	Idaho	142,297
46	Arizona	142,029
47	Delaware	134,160
48	California	131,507
49	Nebraska	128,627
50	Montana	108,575
51	South Dakota	104,346
52	Virgin Islands	39,682
53	Guam	33,445

TABLE 1-8A. RANKING OF STATES BY NUMBER OF SPECIMENS RECEIVED ARRANGED BY REGION (k)

State	Number of Specimens Received
New England	
Conn.	728,460
Mass.	615,720
R.I.	204,236
Me.	177,847
N.H.	150,924
Vt.	147,830
Middle Atlantic	
N.J.	710,021
Pa.	182,338
East North Central	
Mich.	1,125,183
Wisc.	713,323
Ohio	709,378
Ill.	427,657
Ind.	233,925
West North Central	
Ia.	425,815
Minn.	414,627
Mo.	408,615
Kans.	276,795
N.D.	177,640
Nebr.	128,627
S.D.	104,346
South Atlantic	
Fla.	2,163,092
Ga.	1,078,223
Md.	1,072,313
N.C.	760,995
S.C.	746,910
Va.	681,233
D.C.	389,599
W.Va.	218,330
Del.	134,160
East South Central	
Ala.	1,243,872
Tenn.	1,100,979
Miss.	963,223
Ky.	333,445
West South Central	
Tex.	1,715,255
La.	845,733
Okla.	401,588
Ark.	340,644
Mountain	
Colo.	602,572
N.M.	225,224
Wyo.	197,519
Utah	170,872
Nev.	152,570
Ida.	142,297
Ariz.	142,029
Mont.	108,575
Pacific	
Ore.	469,519
Hawaii	294,440
Alaska	164,831
Wash.	153,983
Cal.	131,507
P.R.	386,147
V.I.	39,682
Guam	33,445

TABLE 1-9. RANKING OF STATES BY NUMBER OF BUDGETED POSITIONS

Rank	State	Number of Budgeted Positions
1	New York	803
2	Michigan	419
3	California	289
4	Maryland	278
5	Massachusetts	245
6	New Jersey	226
7	Connecticut	225
7	Florida	225
9	Texas	196
10	Alabama	190
11	Ohio	188
12	Georgia	173
13	Louisiana	154
14	Wisconsin	151
15	Puerto Rico	149
16	Illinois	135
17	Tennessee	133
18	South Carolina	132
19	North Carolina	127
20	Pennsylvania	117
21	Iowa	103
22	Virginia	94
23	Minnesota	87
24	Washington	86
25	Indiana	81
26	Colorado	79
27	Kansas	74½
28	D.C.	74
29	Rhode Island	72
30	Kentucky	67
31	Idaho	62
32	Oklahoma	58½
33	Utah	58
34	New Mexico	56
34	West Virginia	56
36	Arizona	54
36	Arkansas	54
38	Oregon	53
39	Hawaii	51
39	Missouri	51
41	Mississippi	50
42	Maine	47
43	Delaware	33
44	Montana	32½
45	Alaska	30
46	North Dakota	29½
47	Nebraska	29
48	Vermont	26
49	Nevada	25
50	New Hampshire	22
51	South Dakota	20
52	Guam	14
53	Wyoming	11½
54	Virgin Islands	11

TABLE 1-9A. RANKING OF STATES BY NUMBER OF BUDGETED POSITIONS ARRANGED BY REGION

State	Number of Budgeted Positions
New England	
Mass.	245
Conn.	225
R.I.	72
Me.	47
Vt.	26
N.H.	22
Middle Atlantic	
N.Y.	803
N.J.	226
Pa.	117
East North Central	
Mich.	419
Ohio	188
Wisc.	151
Ill.	135
Ind.	81
West North Central	
Ia.	103
Minn.	87
Kans.	74½
Mo.	51
N.D.	29½
Nebr.	29
S.D.	20
South Atlantic	
Md.	278
Fla.	225
Ga.	173
S.C.	132
N.C.	127
Va.	94
D.C.	74
W.Va.	56
Del.	33
East South Central	
Ala.	190
Tenn.	133
Ky.	67
Miss.	50
West South Central	
Tex.	196
La.	154
Okla.	58½
Ark.	54
Mountain	
Colo.	79
Ida.	62
Utah	58
N.M.	56
Ariz.	54
Mont.	32½
Nev.	25
Wyo.	11½
Pacific	
Cal.	289
Wash.	86
Ore.	53
Hawaii	51
Alaska	30
P.R.	149
Guam	14
V.I.	11

SECTION I. FOOTNOTES

- (a) Management, clerical, supportive.
- (b) Laboratory support.
- (c) Where reporting of specimens and/or examinations was essentially complete, an estimate was made for the missing figures.
- (d) Where too many figures were omitted for an estimate of the total to be made, the state is shown as not reporting. However, partial reporting was as follows: Massachusetts, 1,265,080 exams; New York, 131,741 specimens.
- (e) All figures for Arizona represent 9 months actual workload by counts and 3 months percentage projected. The laboratory statistical report went on the computer April 1, 1974, in an entirely different format.
- (f) Rabies only.
- (g) Partial total.
- (h) Estimated population as of July 1, 1972. Taken from Statistical Abstract of the United States: 1973. U. S. Bureau of the Census. (94th Edition) Washington, D. C., 1973, pages 13 and 792. Figures for Guam, Puerto Rico, and the Virgin Islands are as of April 1, 1970, based on census count.
- (i) Based on filled positions.
- (j) States not included in Table: Minnesota, New York, and Washington.
- (k) New York not included in Table.

SECTION II

DIAGNOSTIC WORKLOAD

TABLE 2-1. DIAGNOSTIC BACTERIOLOGY: THROAT CULTURES

	Specimens	Exams	Positives		
			<u>Corynebacterium diphtheriae</u>	Streptococcus, beta hemolytic, Group A	Staphylococcus
New England					
Me.	25,726	58,144	-	4,426	1,243
N.H.	32,986	34,864	-	4,406	370
Vt.	21,741	21,741	-	3,900	*
Mass.	142,942	183,281	-	33,819	*
R.I.	49,794	60,281	-	9,026	257
Conn.	278,277	337,784	-	36,381	128
Middle Atlantic					
N.Y.	1,969 (a)	*	-	366	-
N.J.	29	73	-	-	-
Pa.	-	-	-	-	-
East North Central					
Ohio	232,239	278,506	2	38,871	656 (b)
Ind.	5	5	-	-	-
Ill.	71,075	71,602	4	7,966	442
Mich.	157,084	314,682	-	3,318	24,603
Wisc.	41,933	41,933	-	6,652	-
West North Central					
Minn.	293	712	-	4	-
Ia.	43,699	140,378	-	7,327	701
Mo.	47,513	105,350	-	9,033	3
N.D.	23,548	47,096	-	4,729	*
S.D.	15,944	26,663	-	5,038 (c)	-
Nebr.	1,853	2,038	4	482	79
Kans.	25,158	25,158	-	5,592	-
South Atlantic					
Del.	1,020	7,959	-	107	93
Md.	51,284	51,284	-	6,109	11,481
D.C.	6,463	18,002	91	451	450
Va.	77,536	89,402	6	11,610	8,058
W.Va.	20,438	40,876	-	4,978	129
N.C.	36,540	47,463	-	5,812 (d)	2,827 (d)
S.C.	3,949	5,182	-	637	259
Ga.	14,187	16,366	3	4,735	-
Fla.	14,461	46,726	16	2,621	700
East South Central					
Ky.	4,222	4,141	-	739	-
Tenn.	146,289	146,299	-	29,408	-
Ala.	50,387	56,916	22	5,693	341
Miss.	62,387	62,387	1	7,773	(e)
West South Central					
Ark.	10,241	26,328	-	2,030	56
La.	17,202	38,108	3	5,172	368
Okla.	16,106	16,101 (f)	-	1,202	84
Tex.	8,975	10,137	61	1,431	33
Mountain					
Mont.	4,297	4,297	1	822	53
Ida.	16,229	19,200	-	2,460	-
Wyo.	164,163	178,621	9	12,494	-
Colo.	265,000	305,200	-	40,200	120
N.M.	21,618	22,095	21	3,416	13
Ariz.	2,401	5,416	66	218	-
Utah	32,561	40,032	-	6,045	*
Nev.	336	1,569	-	3	107
Pacific					
Wash.	3,200	5,558	39	590	30
Ore.	73,988	101,578	6	13,313	153
Cal.	-	-	-	-	-
Alaska	7,537	15,636	22	1,052	584
Hawaii	56,542	94,309	6	5,386	4,220
Guam	253	488	-	15	21
P.R.	4,883	15,764	-	383	213
V.I.	1,240	1,324	-	34	159

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

	Specimens	Exams	Positives
New England			
Me.	57	57	24
N.H.	1	2	1
Vt.	<50	<50	*
Mass.	-	-	-
R.I.	19	19	5
Conn.	153	170	55
Middle Atlantic			
N.Y.	-	-	-
N.J.	-	-	-
Pa.	-	-	-
East North Central			
Ohio	57	57	-
Ind.	- (g)	8,121	*
Ill.	263	263	80
Mich.	*	*	74
Wisc.	36	36	9
West North Central			
Minn.	3	3	-
Ia.	64	128	12
Mo.	-	-	-
N.D.	122	122	20
S.D.	-	2	-
Nebr.	-	-	-
Kans.	9	9	6
South Atlantic			
Del.	9	9	1
Md.	17	17	-
D.C.	-	-	-
Va.	28	27	12
W.Va.	1	1	1
N.C.	13	13	13
S.C.	-	-	-
Ga.	27	27	4
Fla.	23	23	9
East South Central			
Ky.	-	-	-
Tenn.	4	4	-
Ala.	81	3,170	50
Miss.	2	2	1
West South Central			
Ark.	-	-	-
La.	1	1	1
Okla.	6	6	4
Tex.	-	-	-
Mountain			
Mont.	-	-	-
Ida.	-	-	-
Wyo.	-	-	-
Colo.	46	46	8
N.M.	-	-	-
Ariz.	-	-	-
Utah	1	1	-
Nev.	-	-	-
Pacific			
Wash.	-	-	-
Ore.	1	1	1
Cal.	-	-	-
Alaska	-	-	-
Hawaii	-	-	-
Guam	-	-	-
P.R.	-	-	-
P.I.	-	-	-

TABLE 2-3. DIAGNOSTIC BACTERIOLOGY: MYCOBACTERIUM

	Specimens	Exams	Positives	
			<u>Mycobacterium tuberculosis</u>	Mycobacterium, Atypical
New England				
Me.	4,076	7,838	479	117
N.H.	9,901	15,106	30	29
Vt.	2,598	5,184	64	16
Mass.	-	-	-	-
R.I.	1,256	6,909	88	5
Conn.	7,591	19,233	379	348
Middle Atlantic				
N.Y.	10,506	20,700	608	170
N.J.	26,748	192,586	1,586	711
Pa.	17,611	88,055	*	*
East North Central				
Ohio	10,792	60,165	577	219
Ind.	4,821	4,821	421	343
Ill.	6,408	27,020	451	371
Mich.	14,780	31,743	1,241	1,051
Wisc.	7,539	13,977 (h)	307	347
West North Central				
Minn.	15,019	28,132	408	264
Ia.	4,047	40,470	445	253
Mo.	-	-	-	-
N.D.	4,114	12,342	136	23
S.D.	4,190	16,798	478 (i)	(i)
Nebr.	1,853	3,651	85	89
Kans.	7,290	16,055	258	487
South Atlantic				
Del.	-	-	-	-
Md.	19,061	36,530	1,493	834
D.C.	-	-	-	-
Va.	24,609	88,158	737	499
W.Va.	10,984	22,047	290	426
N.C.	15,770	27,411	512	511
S.C.	15,010	62,992	2,419	493
Ga.	35,347	67,182	1,317	438
Fla.	55,346	166,038	1,899	2,384
East South Central				
Ky.	9,409	26,052	498	718
Tenn.	44,695	89,390	3,063	2,614
Ala.	49,792	260,727	-	-
Miss.	25,408	25,408	1,850	765
West South Central				
Ark.	19,907	38,065	1,284	400
La.	39,516	105,338	1,724	1,432
Okla.	8,342	7,638	503	242
Tex.	22,345	28,665	1,056	1,576
Mountain				
Mont.	3,181	18,199	118	24
Ida.	1,979	2,017	40	13
Wyo.	792	1,660	28	-
Colo.	2,451	4,900	86	18
N.M.	8,140	15,000	480	190
Ariz.	11,707	22,743	930	273
Utah	2,284	8,950	111	17
Nev.	2,160	8,060	222 (i)	(i)
Pacific				
Wash.	5,719	32,230	230	145
Ore.	3,758	7,283	247	54
Cal.	1,570	1,570	109	69
Alaska	13,804	25,442	334	4
Hawaii	8,691	26,766	90	339
Guam	2,340	6,020	243	6
P.R.	-	-	-	-
V.I.	343	578	2	12

TABLE 2-4. DIAGNOSTIC BACTERIOLOGY: ENTERIC CULTURES

	Specimens	Exams	Positives			
			Salmonella	Shigella	Enteropathogenic <u>E. coli</u>	Other
New England						
Me.	1,208	4,835	80	10	5	-
N.H.	1,789	7,158	69	10	17	-
Vt.	973	973	115	55	9	-
Mass.	10,879	*	1,605	566	177	-
R.I.	3,534	37,052	252	98	5	2
Conn.	12,130	27,244	625	497	119	349
Middle Atlantic						
N.Y.	2,609	2,609	446	339	90	158
N.J.	10,364	44,565	786	380	33	5
Pa.	13,875	55,400	*	*	*	*
East North Central						
Ohio	2,314	16,650	193	39	-	-
Ind.	1,947	1,947	509	327	38	-
Ill.	4,284	19,701	250	244	17	2
Mich.	18,312	34,831	937	459	12	104
Wisc.	12,969	39,255	1,950	1,119	212	281
West North Central						
Minn.	7,247	12,856	305	407	-	1
Ia.	298	17,412	189	173	1	-
Mo.	2,294	26,495	123	27	-	-
N.D.	5,222	20,888	94	71	562	1
S.D.	1,824	12,336	94	132	-	2
Nebr.	179	384	15	9	16	-
Kans.	6,076	18,228	570	263	238	636
South Atlantic						
Del.	689	13,914	25	44	27	-
Md.	8,854	8,854	1,219	217	102	1
D.C.	1,088	4,377	87	19	2	-
Va.	12,355	36,074	1,059	173	24	14
W.Va.	794	3,176	106	52	-	-
N.C.	2,699	9,843	598	414	9	1
S.C.	679	1,958	108	55	15	58
Ga.	23,455	46,809	908	476	10	-
Fla.	50,743	154,123	1,355	479	60 (j)	(j)
East South Central						
Ky.	1,443	5,486	-	-	-	-
Tenn.	12,184	12,184	705	249	20	92
Ala.	6,631	20,829	695	162	166	33
Miss.	6,839	6,839	356	130	-	-
West South Central						
Ark.	4,547	20,230	574	270	34	261
La.	20,763	86,224	568	121	209	534
Okla.	2,242	2,193	269	90	5	5
Tex.	8,199	10,259	578	396	147	42
Mountain						
Mont.	1,467	16,546	62	319	2	86
Ida.	1,428	6,979	34	90	27	1
Wyo.	365	670	48	20	29	73
Colo.	1,939	1,939	313	230	33	-
N.M.	3,576	36,943	385	416	10	40
Ariz.	2,161	3,898	1,029 (k)	(k)	-	-
Utah	2,538	7,459	103	347	8	*
Nev.	627	4,171	120	14	22	-
Pacific						
Wash.	3,291	21,274	499	352	35	206
Ore.	2,336	4,262	247	84	11	6
Cal.	1,069	1,069	19	35	4	-
Alaska	1,890	2,103	60	15	46	14
Hawaii	9,010	24,982	606	219	107	160
Guam	150	986	8	6	1	-
P.R.	205	820	15	9	32	10
V.I.	985	1,037	13	15	3	3

TABLE 2-5. DIAGNOSTIC BACTERIOLOGY: ENTERIC SEROGROUPING AND SEROTYPING

	Enteric Serogrouping		Enteric Serotyping	
	Specimens	Exams	Specimens	Exams
New England				
Me.	478	733	40	240
N.H.	112	311	-	-
Vt.	179	179	179	179
Mass.	2,348	*	1,197	*
R.I.	400	400	252	252
Conn.	8,309	8,309	744	744
Middle Atlantic				
N.Y.	-	875	-	90
N.J.	-	2,465	-	1,118
Pa.	1,905	1,905	1,905	1,905
East North Central				
Ohio	1,555	1,555	1,296	1,296
Ind.	527	527	527	527
Ill.	5,038	20,152	4,564	18,256
Mich.	859	859	2,802	2,511
Wisc.	-	11,494	-	2,136
West North Central				
Minn.	2,018	2,018	724	724
Ia.	980	980	473	946
Mo.	460	6,454	460	6,454
N.D.	180	165	155	155
S.D.	-	-	-	-
Nebr.	69	84	-	27
Kans.	1,079	1,079	1,039	1,039
South Atlantic				
Del.	106	480	-	-
Md.	1,479	1,793	1,479	1,793
D.C.	139	212	142	195
Va.	-	-	-	-
W.Va.	158	158	158	158
N.C.	1,156	1,156	1,013	1,013
S.C.	258	258	130	130
Ga.	2,245	2,245	2,245	2,245
Fla.	3,765	7,530	555	1,110
East South Central				
Ky.	-	1,605	-	320
Tenn.	2,973	2,973	2,973	2,973
Ala.	-	-	800	4,800
Miss.	-	260	-	260
West South Central				
Ark.	1,756	1,756	861	861
La.	1,753	3,506	1,753	3,506
Okla.	353	369	353	369
Tex.	789	789	812	812
Mountain				
Mont.	126	126	383	383
Ida.	-	874	-	577
Wyo.	97	97	-	-
Colo.	590	590	310	310
N.M.	-	1,160	-	275
Ariz.	-	1,029	-	1,029
Utah	497	497	497	497
Nev.	589	589	-	-
Pacific				
Wash.	851	851	543	543
Ore.	348	348	348	348
Cal.	3,866	3,866	3,866	3,866
Alaska	767	767	-	-
Hawaii	932	932	932	932
Guam	8	8	-	-
P.R.	-	171	-	96
V.I.	38	310	38	310

TABLE 2-6. DIAGNOSTIC BACTERIOLOGY: BACTERIOPHAGE TYPING

	Specimens	Examinations	
		Staphylococcus	Salmonella
New England			
Me.	-	-	-
N.H.	-	-	-
Vt.	823	823	-
Mass.	-	-	-
R.I.	-	-	-
Conn.	3,138	7,609	-
Middle Atlantic			
N.Y.	1,948	1,948	-
N.J.	465	- (1)	-
Pa.	39	- (1)	78
East North Central			
Ohio	3,705	3,705	-
Ind.	192	192	-
Ill.	1,438	1,385	53
Mich.	-	4,080	-
Wisc.	-	-	-
West North Central			
Minn.	9	- (1)	9
Ia.	55	2,592	-
Mo.	49	444	2,741
N.D.	-	-	-
S.D.	2	-	2
Nebr.	-	-	-
Kans.	1,404	1,404	-
South Atlantic			
Del.	-	-	-
Md.	1,998	1,998	-
D.C.	-	-	-
Va.	397	*	*
W.Va.	-	-	-
N.C.	-	-	-
S.C.	-	-	-
Ga.	33	-	33
Fla.	-	-	-
East South Central			
Ky.	900	3,640	-
Tenn.	3,510	3,476	34
Ala.	-	-	-
Miss.	-	-	-
West South Central			
Ark.	71	45	26
La.	-	-	-
Okla.	-	-	-
Tex.	3,729	3,643	86
Mountain			
Mont.	52	- (1)	-
Ida.	-	-	-
Wyo.	-	-	-
Colo.	-	-	-
N.M.	159	159	-
Ariz.	-	-	-
Utah	-	-	-
Nev.	-	-	-
Pacific			
Wash.	-	-	-
Ore.	8	8	-
Cal.	177	-	177
Alaska	-	-	-
Hawaii	2,648	2,648	-
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLE 2-7. DIAGNOSTIC BACTERIOLOGY: BLOOD CULTURES

	Specimens	Exams	Positives		
			Gram negative bacteria	Brucella	Other
New England					
Me.	-	-	-	-	-
N.H.	14	48	-	-	4
Vt.	-	-	-	-	-
Mass.	212	*	74	-	138
R.I.	8	16	8	-	-
Conn.	2	2	-	-	-
Middle Atlantic					
N.Y.	-	-	-	-	-
N.J.	-	-	-	-	-
Pa.	-	-	-	-	-
East North Central					
Ohio	-	-	-	-	-
Ind.	-	-	-	-	-
Ill.	-	-	-	-	-
Mich.	42	47	-	-	3
Wisc.	97	97	3	-	8
West North Central					
Minn.	149	305	-	2	1
Ia.	10	70	-	4	-
Mo.	59	3,275	25	1	22
N.D.	558	2,790	10	-	10
S.D.	61	61	-	-	-
Nebr.	-	-	-	-	-
Kans.	65	65	10	-	41
South Atlantic					
Del.	-	-	-	-	-
Md.	581	581	*	*	*
D.C.	-	-	-	-	-
Va.	552	1,095	87	12	-
W.Va.	17	51	3	-	17
N.C.	-	-	-	-	-
S.C.	160	388	10	2	15
Ga.	273	273	-	1	18
Fla.	63	152	6	-	7
East South Central					
Ky.	-	-	-	-	-
Tenn.	8	8	2	-	-
Ala.	90	1,880	44	-	50
Miss.	226	226	-	-	3
West South Central					
Ark.	38	114	19	-	9
La.	1,514	1,514	-	-	-
Okla.	*	*	*	*	*
Tex.	20	22	2	-	-
Mountain					
Mont.	29	32	3	-	11
Ida.	-	-	-	-	-
Wyo.	-	-	-	-	-
Colo.	(m)	(m)	-	-	-
N.M.	17	17	-	-	-
Ariz.	50	98	-	-	-
Utah	-	-	-	-	-
Nev.	-	-	-	-	-
Pacific					
Wash.	-	-	-	-	-
Ore.	-	-	-	-	-
Cal.	3	3	-	-	-
Alaska	152	152	*	-	*
Hawaii	34	35	1	-	5
Guam	-	-	-	-	-
P.R.	25	120	3	-	2
V.I.	220	239	2	-	2

TABLE 2-8. DIAGNOSTIC BACTERIOLOGY: SPINAL FLUID CULTURES

	Specimens	Exams	Positives	
			Meningococcus	Other
New England				
Me.	13	26	5	8
N.H.	-	-	-	-
Vt.	<10	<10	*	*
Mass.	61	*	19	42
R.I.	7	14	15	2
Conn.	-	-	-	-
Middle Atlantic				
N.Y.	-	-	-	-
N.J.	1	1	-	1
Pa.	-	-	-	-
East North Central				
Ohio	-	-	-	-
Ind.	-	-	-	-
Ill.	(m)	(m)	44	(m)
Mich.	*	*	*	*
Wisc.	8	8	-	-
West North Central				
Minn.	17	35	1	7
Ia.	3	18	1	-
Mo.	50	27	5	22
N.D.	70	92	1	10
S.D.	-	-	-	-
Nebr.	17	47	4	9
Kans.	21	42	4	15
South Atlantic				
Del.	1	9	1	-
Md.	*	*	*	*
D.C.	-	-	-	-
Va.	41	227	8	30
W.Va.	8	24	-	9
N.C.	-	-	-	-
S.C.	80	209	14	1
Ga.	11	11	-	2
Fla.	2	6	-	2
East South Central				
Ky.	-	-	-	-
Tenn.	-	-	-	-
Ala.	31	600	4	28
Miss.	2	2	-	-
West South Central				
Ark.	20	60	6	-
La.	-	-	-	-
Okla.	*	*	*	*
Tex.	21	27	6	-
Mountain				
Mont.	17	34	4	9
Ida.	-	-	-	-
Wyo.	-	-	-	-
Colo.	18	18	2	-
N.M.	-	-	-	-
Ariz.	8	9	-	-
Utah	-	-	-	-
Nev.	-	-	-	-
Pacific				
Wash.	-	-	-	-
Ore.	-	-	-	-
Cal.	-	-	-	-
Alaska	47	47	2	14
Hawaii	4	14	2	4
Guam	-	-	-	-
P.R.	3	12	-	-
V.I.	21	35	1	-

TABLE 2-9. DIAGNOSTIC BACTERIOLOGY: WOUNDS, LESIONS, AND BODY FLUIDS

	Staphylococcus			Anaerobes			Other		
	Specimens	Exams	Positives	Specimens	Exams	Positives	Specimens	Exams	Positives
New England									
Me.	189	224	166	121	2,351	118	387	4,830	387
N.H.	156	361	25	-	-	-	*	62	45
Vt.	52	52	*	<10	<10	*	-	-	-
Mass.	16	*	9	88	*	88	690	*	690
R.I.	257	771	160	25	125	17	-	-	-
Conn.	213(n)	213	71	(n)	24	6	(n)	492	91
Middle Atlantic									
N.Y.	455(n)	*	*	(n)	*	*	(n)	*	*
N.J.	-	-	-	-	-	-	-	-	-
Pa.	-	-	-	-	-	-	-	-	-
East North Central									
Ohio	-	-	-	-	-	-	-	-	-
Ind.	-	-	-	-	-	-	-	-	-
Ill.	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
Mich.	13,179	21,676	3,607	13,179	21,676	18	13,179	21,676	16,568
Wisc.	1,718	1,718	1,069	772	772	154	64	64	9
West North Central									
Minn.	-	-	-	-	-	-	-	-	-
Ia.	900	9,000	340	-	-	355	-	-	1,040
Mo.	10	546	10	8	840	*	47	2,375	47
N.D.	3,884	19,420	935	413	2,065	256	-	-	1,800
S.D.	-	-	-	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-	-	-	-
Kans.	464(n)	938(n)	56	(n)	(n)	92	(n)	(n)	447
South Atlantic									
Del.	211(o)	2,392(o)	90	(o)	(o)	6	(o)	(o)	210
Md.	6,682(n)	6,682(n)	*	(n)	(n)	*	(n)	(n)	*
D.C.	110	440	60	1	1	-	122	488	69
Va.	398	1,266	206	389	571	310	546	3,411	520
W.Va.	93	279	44	1	3	-	4	12	4
N.C.	-	-	-	-	-	-	-	-	-
S.C.	653	653	*	234	936	188	1,427	5,708	1,248
Ga.	468(n)	468(n)	164	(n)	(n)	29	(n)	(n)	124
Fla.	783(p)	1,566(p)	*	625	1,894	606	(p)	(p)	*
East South Central									
Ky.	99	320	47	180	698	138	408	1,592	374
Tenn.	-	-	-	-	-	-	-	-	-
Ala.	10	10	10	77	1,540	77	145	2,900	145
Miss.	1,177(n)	800	645	-	-	-	(n)	377	217
West South Central									
Ark.	23	79	*	124	372	98	-	-	-
La.	1,959	1,959	368	300	300	*	-	-	-
Okla.	*	*	*	*	*	*	*	*	*
Tex.	53	112	47	-	-	-	-	-	-
Mountain									
Mont.	199(n)	993(n)	96	(n)	(n)	121	(n)	(n)	630
Ida.	-	-	-	54	224	*	-	-	-
Wyo.	-	-	-	-	-	-	-	-	-
Colo.	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
N.M.	1	5	1	360	360	300	-	-	-
Ariz.	-	-	-	69(q)	187(q)	*	(q)	(q)	*
Utah	*	*	*	3	*	*	*	*	*
Nev.	-	-	-	-	-	-	-	-	-
Pacific									
Wash.	-	-	-	-	-	-	-	-	-
Ore.	-	-	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-	-	-
Alaska	2,080(p)	2,080(p)	*	19	19	10	(p)	(p)	*
Hawaii	66	141	44	59	116	52	1,780	4,524	1,622
Guam	87	150	70	-	-	-	380	824	143
P.R.	85	340	25	85	340	2	85	340	37
V.I.	230(n)	286(n)	10	(n)	(n)	3	(n)	(n)	-

TABLE 2-10. DIAGNOSTIC BACTERIOLOGY:
DENTAL CARIES CULTURES

TABLE 2-11. DIAGNOSTIC BACTERIOLOGY:
URINE CULTURES

TABLE 2-10. DIAGNOSTIC BACTERIOLOGY: DENTAL CARIES CULTURES		TABLE 2-11. DIAGNOSTIC BACTERIOLOGY: URINE CULTURES				
	Specimens	Exams	Specimens	Exams	Positives	
New England						
Me.	-	-	Me.	-	-	
N.H.	-	-	N.H.	188	272	110
Vt.	-	-	Vt.	-	-	
Mass.	-	-	Mass.	(e)	*	(e)
R.I.	-	-	R.I.	56	112	9
Conn.	-	-	Conn.	13	39	*
Middle Atlantic						
N.Y.	-	-	N.Y.	-	-	-
N.J.	-	-	N.J.	78	335	3
Pa.	-	-	Pa.	-	-	-
East North Central						
Ohio	-	-	Ohio	-	-	-
Ind.	-	-	Ind.	-	-	-
Ill.	-	-	Ill.	(m)	(m)	(m)
Mich.	5,442	5,198	Mich.	13,417	19,864	15,058
Wisc.	-	-	Wisc.	780	780	229
West North Central						
Minn.	-	-	Minn.	-	-	-
Ia.	-	-	Ia.	-	-	-
Mo.	-	-	Mo.	99	4,777	99
N.D.	-	-	N.D.	3,986	11,958	*
S.D.	-	-	S.D.	-	-	-
Nebr.	-	-	Nebr.	-	-	-
Kans.	-	-	Kans.	226	226	226
South Atlantic						
Del.	-	-	Del.	512	4,190	287
Md.	-	-	Md.	11,345	11,345	*
D.C.	-	-	D.C.	1,872	7,488	1,005
Va.	54	54	Va.	81	519	80
W.Va.	-	-	W.Va.	170	684	170
N.C.	-	-	N.C.	-	-	-
S.C.	-	-	S.C.	1,321	1,746	*
Ga.	-	-	Ga.	174	174	*
Fla.	1,254	1,254	Fla.	2,479	2,479	930
East South Central						
Ky.	-	-	Ky.	-	-	-
Tenn.	916	916	Tenn.	-	-	-
Ala.	-	-	Ala.	134	2,554	125
Miss.	-	-	Miss.	725	725	2
West South Central						
Ark.	-	-	Ark.	-	-	-
La.	1	1	La.	-	-	-
Okla.	-	-	Okla.	*	*	*
Tex.	368	368	Tex.	372	372	151
Mountain						
Mont.	-	-	Mont.	122	139	*
Ida.	-	-	Ida.	-	-	-
Wyo.	-	-	Wyo.	-	-	-
Colo.	86	86	Colo.	(m)	(m)	(m)
N.M.	-	-	N.M.	11	86	-
Ariz.	-	-	Ariz.	-	-	-
Utah	-	-	Utah	-	-	-
Nev.	-	-	Nev.	-	-	-
Pacific						
Wash.	-	-	Wash.	-	-	-
Ore.	-	-	Ore.	21	47	1
Cal.	-	-	Cal.	197	197	197
Alaska	265	265	Alaska	4,102	4,102	1,495
Hawaii	-	-	Hawaii	662	1,868	578
Guam	-	-	Guam	373	872	178
P.R.	7,617	7,617	P.R.	2,539	2,539	*
V.I.	-	-	V.I.	697	915	485

TABLE 2-12. DIAGNOSTIC BACTERIOLOGY: GENITAL SMEARS

	Specimens	Exams	Positives			
			Trichomonas	Gram negative Diplococcus	Yeast	Darkfield
New England						
Me.	632	632	-	295	-	-
N.H.	921	1,036	10	143	-	-
Vt.	344	688	-	139	-	1
Mass.	5,841	5,841	-	894	*	-
R.I.	656	656	-	108	-	-
Conn.	18,337	32,670	1,108	912	1,482	-
Middle Atlantic						
N.Y.	-	-	-	-	-	-
N.J.	3,049	3,049	-	1,043	-	-
Pa.	925	925	-	214	-	-
East North Central						
Ohio	7,151	7,162	299	1,551	*	3
Ind.	8,121	8,121	766	724	-	-
Ill.	22,477	22,477	1,491	2,124	1,623	-
Mich.	76,015	118,086	3,544	4,251	5,649	6
Wisc.	246	246	-	51	-	-
West North Central						
Minn.	-	-	659	1,336	-	-
Ia.	2,360	4,720	-	355	-	-
Mo.	5,245	9,753	3	715	-	-
N.D.	1,255	1,255	10	153	-	-
S.D.	782	782	-	60	-	-
Nebr.	2,476	2,492	-	305	-	2
Kans.	1,792	1,792	-	675	-	-
South Atlantic						
Del.	8,723	8,723	1,078	1,831	300	15
Md.	9,035	9,035	426	621	*	-
D.C.	786	786	39	383	-	-
Va.	10,081	9,565	-	2,170	-	-
W.Va.	1,671	1,671	71	273	75	-
N.C.	1,301 (r)	1,301	-	-	-	-
S.C.	6,957	6,801	101	4,108	-	44
Ga.	18,699	18,552	2,404	2,741	902	-
Fla.	31,947	31,947	-	18,104	-	231
East South Central						
Ky.	2,969	2,942	-	408	-	-
Tenn.	152	152	9	19	12	-
Ala.	17,372	17,291	1,523	1,069	1,551	-
Miss.	129	129	-	37	-	-
West South Central						
Ark.	272	272	-	125	-	-
La.	5,151	5,151	*	*	*	*
Okla.	3,222	3,222	165 (s)	1,247	21 (s)	2 (s)
Tex.	595	595	74	214	-	25
Mountain						
Mont.	64	64	-	22	-	-
Ida.	2,658	2,658	-	425	-	2
Wyo.	138	138	-	14	-	1
Colo.	1,130	1,130	-	238	-	-
N.M.	1,739	1,739	-	947	-	-
Ariz.	1,555	1,555	*	*	*	*
Utah	166	166	*	23	*	-
Nev.	13,055	13,055	-	2,565	-	2
Pacific						
Wash.	2,671	2,671	-	353	-	5
Ore.	2,528	2,484	262	-	-	-
Cal.	1,394	1,394	-	120	-	-
Alaska	*	*	*	*	*	1
Hawaii	332	330	4	40	-	-
Guam	636	775	40	84	55	-
P.R.	541	1,082	10	126	12	-
V.I.	791	791	76	475	175	11

TABLE 2-13. DIAGNOSTIC BACTERIOLOGY: NEISSERIA GONORRHOEAE CULTURES

	Specimens	Exams	Positives
New England			
Me.	18,384	20,702	929
N.H.	20,446	29,283	638
Vt.	5,967	5,967	*
Mass.	14,041	*	1,007
R.I.	21,734	42,271	637
Conn.	24,404	51,206	721
Middle Atlantic			
N.Y.	-	-	-
N.J.	155,081	232,622	9,223
Pa.	-	-	-
East North Central			
Ohio	52,760	57,164	1,468
Ind.	155	155	3
Ill.	84,887	88,367	2,902
Mich.	104,919	104,808	2,365
Wisc.	16,711	16,711	668
West North Central			
Minn.	55,148	55,474	2,114
Ia.	28,622	57,244	732
Mo.	16,999	27,803	593
N.D.	3,048	9,144	135
S.D.	5,976	9,749	945
Nebr.	13,886	14,432	374
Kans.	31,115	32,465	1,350
South Atlantic			
Del.	17,249	17,429	879
Md.	257,800	257,800	10,795
D.C.	61,222	61,222	2,310
Va.	57,922	104,432	2,747
W.Va.	35,050	70,815	715
N.C.	521	1,064	51
S.C.	81,822	165,373	8,798
Ga.	228,684	228,684	10,933
Fla.	448,556	448,556	25,091
East South Central			
Ky.	14,867	18,420	279
Tenn.	132,585	132,585	9,318
Ala.	243,159	343,879	17,604
Miss.	121,386	121,386	7,897
West South Central			
Ark.	56,818	61,521	3,762
La.	107,925	107,925	9,472
Okla.	94,924	97,904	2,760
Tex.	370,872	426,231	19,495
Mountain			
Mont.	7,701	9,200	1,222
Ida.	20,259	20,259	1,178
Wyo.	1,752	1,886	67
Colo.	38,470	38,470	730
N.M.	52,484	56,293	2,042
Ariz.	6,606	6,842	*
Utah	19,000	19,292	292
Nev.	37,565	89,888	1,393
Pacific			
Wash.	13,713	16,127	917
Ore.	1,153	1,441	186
Cal.	28,519	28,519	1,446
Alaska	36,733	36,763	2,116
Hawaii	132,780	133,270	2,882
Guam	475	500	95
P.R.	57,496	114,992	1,661
V.I.	5,469	5,469	253

TABLE 2-14. DIAGNOSTIC BACTERIOLOGY: ANTIBIOTIC SENSITIVITY

	Mycobacteria		Other	
	Specimens	Exams	Specimens	Exams
New England				
Me.	370	370	-	-
N.H.	-	-	467	2,802
Vt.	67	67	-	-
Mass.	-	-	-	-
R.I.	58	116	-	-
Conn.	333	333	33	33
Middle Atlantic				
N.Y.	520	520	293	293
N.J.	- (t)	1,993	- (u)	649
Pa.	1,307	1,307	-	-
East North Central				
Ohio	332	3,984	155	155
Ind.	429	429	-	-
Ill.	629	1,380	7	14
Mich.	424	424	22,566	22,566
Wisc.	326	326	1,012	1,012
West North Central				
Minn.	228	228	-	-
Ia.	453	1,812	1,154	1,154
Mo.	-	-	-	-
N.D.	75	75	6,511	7,011
S.D.	- (t)	79	- (u)	337
Nebr.	39	42	-	-
Kans.	29	29	110	110
South Atlantic				
Del.	-	-	226	226
Md.	1,246	1,246	10,702	10,702
D.C.	-	-	427	554
Va.	447	1,788	24	24
W.Va.	214	214	593	593
N.C.	546	1,612	-	-
S.C.	636	736	120	-
Ga.	803	803	-	-
Fla.	705	705	365	365
East South Central				
Ky.	543	543	-	-
Tenn.	2,065	2,065	-	-
Ala.	840	840	10	10
Miss.	355	355	102	102
West South Central				
Ark.	586	586	-	-
La.	4,788	4,788	4,603	4,603
Okla.	290	290	*	*
Tex.	1,202	4,808	50	50
Mountain				
Mont.	78	78	25	25
Ida.	30	30	498	498
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	177	177	95	465
Ariz.	640	640	-	-
Utah	89	89	181	181
Nev.	150	150	-	-
Pacific				
Wash.	176	176	279	279
Ore.	139	139	-	-
Cal.	392	392	-	-
Alaska	8,707	8,707	2,613	2,613
Hawaii	-	-	431	468
Guam	-	-	580	580
P.R.	-	-	2,213	2,213
V.I.	-	-	1,048	1,153

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES

	Referred Cultures		Miscellaneous Cultures	
	Specimens	Exams	Specimens	Exams
New England				
Me.	232	232	-	-
N.H.	568	1,264	1,399	2,310
Vt.	286	286	189	189
Mass.	744	*	110	*
R.I.	234	2,106	1,017	10,170
Conn.	901	2,573	77	95
Middle Atlantic				
N.Y.	-	-	176	176
N.J.	3,584	14,788	93	233
Pa.	601	2,404	-	-
East North Central				
Ohio	3,070	46,050	85	850
Ind.	771	771	-	-
Ill.	1,002	6,012	877	5,262
Mich.	2,238	2,389	1,431	1,679
Wisc.	4,035	4,035	-	-
West North Central				
Minn.	1,507	4,521	98	202
Ia.	1,566	15,660	287	2,870
Mo.	850	38,635	-	-
N.D.	-	-	-	-
S.D.	879	4,419	501 (v)	501
Nebr.	505	874	184	217
Kans.	1,574	1,574	1,386	1,386
South Atlantic				
Del.	24	455	-	-
Md.	-	-	349	349
D.C.	24	36	543	666
Va.	744	774	143	583
W.Va.	484	484	310	620
N.C.	3,463	(w)	744	15,054
S.C.	1,749	-	696	1,872
Ga.	3,469	3,446	-	-
Fla.	5,429	10,858	1,872	3,484
East South Central				
Ky.	41	86	20	18
Tenn.	2,439	2,439	-	-
Ala.	859	13,191	12	48
Miss.	(e)	(e)	540 (x)	540
West South Central				
Ark.	291	873	310	930
La.	250	750	2,775	2,775
Okla.	494	494	-	-
Tex.	5,484	11,793	-	-
Mountain				
Mont.	613	784	505	1,515
Ida.	765	3,024	669	1,517
Wyo.	-	-	-	-
Colo.	(m)	(m)	723	723
N.M.	755	1,173	-	-
Ariz.	-	-	-	-
Utah	623	*	817	817
Nev.	145	221	229	26,254
Pacific				
Wash.	844	18,147	2,808	2,852
Ore.	315	739	42	67
Cal.	4,649	4,649	639	639
Alaska	*	*	1,551	1,551
Hawaii	33	39	2,395	7,277
Guam	15	158	400	1,648
P.R.	15	60	372	1,488
V.I.	-	-	840	1,544

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied	
<u>New England</u>	
Me.	<u>N. gonorrhoeae</u> , 216.
N.H.	Streptococcus, beta hemolytic, group A; <u>Staphylococcus aureus</u> , coagulase positive; <u>Mycobacterium tuberculosis</u> , <u>M. gordonae</u> , <u>M. xenopi</u> , <u>M. avium-intracellulare</u> , <u>M. kansasii</u> , <u>M. scrofulaceum</u> ; <u>Salmonella enteritidis</u> , <u>S. typhi</u> ; <u>Shigella flexneri</u> , <u>S. sonnei</u> ; Enteropathogenic <u>E. coli</u> , A, B; <u>Klebsiella</u> sp., <u>Proteus</u> sp., <u>Pseudomonas</u> sp.
R.I.	<u>Staphylococcus aureus</u> , <u>Pseudomonas</u> - various species, <u>Neisseria meningitidis</u> , <u>Clostridium</u> species, Streptococcus, beta and group D, <u>Acinetobacter</u> species, <u>Providencia</u> species, <u>Enterobacter agglomerans</u> , <u>Pasteurella multocida</u> , <u>Acinetobacter calcoaceticus</u> , <u>Citrobacter</u> species, <u>Corynebacterium</u> species, <u>Listeria monocytogenes</u> , <u>Bacillus</u> species, <u>Proteus</u> -- various species, <u>Aeromonas hydrophila</u> , <u>Klebsiella</u> - various types.
Conn.	<u>Pseudomonas</u> sp., 83; Streptococcus, beta hemolytic, group B, 70; <u>N. meningitidis</u> , 46; <u>E. coli</u> , 40; <u>Acinetobacter calcoaceticus</u> , 36; <u>C. perfringens</u> , 21.
<u>Middle Atlantic</u>	
N.Y.	<u>Bordetella pertussis</u> , 41.
N.J.	<u>Pseudomonas maltophilia</u> , <u>Pseudomonas aeruginosa</u> , <u>S. aureus</u> , <u>Haemophilus influenzae</u> , <u>Pasteurella multocida</u> , <u>Clostridium perfringens</u> , <u>B. fragilis</u> ss <u>fragilis</u> , <u>Acinetobacter calcoaceticus</u> , <u>Propionibacterium acnes</u> .
Pa.	<u>Acinetobacter calcoaceticus</u> , 36; <u>Alcaligenes faecalis</u> , 12; <u>Bacillus</u> species, 30; <u>Corynebacterium</u> sp., 27; <u>Flavobacterium</u> sp., 17; <u>Haemophilus</u> sp., 16; <u>Moraxella</u> sp., 11; <u>Neisseria</u> sp., 42; <u>Pseudomonas</u> sp., 58; Streptococcus sp., 51; <u>Pasteurella</u> sp., 25; <u>Bacteroides</u> sp., 28; <u>Clostridium</u> sp., 24; <u>Propionibacterium acnes</u> , 9.
<u>East North Central</u>	
Ohio	A total of 2,260 isolations from referred cultures (aerobic) included: <u>Achromobacter</u> sp., 1; <u>Acinetobacter calcoaceticus</u> , 32; <u>Aeromonas hydrophila</u> , 14; <u>Aeromonas shigelloides</u> , 3; <u>Alkalescens-Dispar</u> , 5; <u>Arizona</u> sp., 4; <u>Arizona hinhawii</u> , 37; <u>Bacillus</u> sp., 24; <u>Bacillus subtilis</u> , 1; <u>Bordetella parapertussis</u> , 1; <u>Citrobacter</u> gp., 20; <u>Citrobacter diversus</u> , 4; <u>Citrobacter freundii</u> , 26; <u>Coliform</u> sp., 3; <u>Corynebacterium</u> sp., 22; <u>Corynebacterium hofmanni</u> , 2; <u>Corynebacterium pseudodiphtheriticum</u> , 1; <u>Eikenella corrodens</u> , 39; <u>Enterobacter</u> gp., 12; <u>Enterobacter aerogenes</u> , 2; <u>E. agglomerans</u> , 18; <u>E. cloacae</u> , 24; <u>E. hafniae</u> , 8; <u>Escherichia coli</u> sp., 252; <u>Escherichia coli</u> : H2S, 1; O26:B6, 3; O26:B7, 1; O28:B18, 1; O55:B5, 7; O86:B7, 1; O111:B4, 4; O119:B14, 1; O124:B17, 1; O126:B16, 5; O127:B8, 2; <u>Flavobacterium</u> sp., 4; <u>Flavobacterium meningosepticum</u> , 1; CDC group: II F, 1; II K, 1; EF4, 2; VE1, 1; HB-1, 2; HB-5, 1; <u>Haemophilus</u> sp., 4; <u>Haemophilus influenzae</u> (not typed), 2; <u>Haemophilus influenzae</u> : type A, 2; type B, 8; <u>Klebsiella</u> sp., 1; <u>Klebsiella ozaenae</u> , 8; <u>Klebsiella pneumoniae</u> , 25; <u>Lactobacillus</u> sp., 5; <u>Listeria monocytogenes</u> , 2; <u>Micrococcus</u> sp., 4; <u>Micrococcus flavus</u> , 2; <u>Mima polymorpha</u> , 15; <u>Moraxella non-liquifaciens</u> , 8; <u>Moraxella osloensis</u> , 1; <u>Moraxella phenylpyruvica</u> , 2; <u>Neisseria</u> sp., 4; <u>Neisseria catarhalis</u> , 2; <u>N. flavescens</u> , 1; <u>N. lactamica</u> , 2; <u>N. meningitidis</u> (not groupable), 9; <u>N. meningitidis</u> gp.: A, 1; B, 19; C, 18; Y, 7; <u>N. perflava</u> , 1; <u>N. sicca</u> , 2; <u>Pasteurella multocida</u> , 27; <u>Proteus</u> group, 4; <u>Proteus mirabilis</u> , 3; <u>P. morgani</u> , 4; <u>P. rettgeri</u> , 5; <u>P. vulgaris</u> , 1; <u>Providencia</u> sp., 2; <u>Providencia alcalifaciens</u> , 3; <u>Providencia stuartii</u> , 1; <u>Pseudomonas</u> sp., 140; <u>Pseudomonas acidovorans</u> , 1; <u>P. aeruginosa</u> , 12; <u>P. cepacia</u> , 2; <u>P. maltophilia</u> , 1; <u>P. putida</u> , 1; <u>P. putrefaciens</u> , 2; <u>P. stutzeri</u> , 3; <u>Salmonella</u> sp., 31; <u>Salmonella agona</u> , 7; <u>S. alban</u> , 3; <u>S. amsterdam</u> , 1; <u>S. anatum</u> , 20; <u>S. bareilly</u> , 6; <u>S. berta</u> , 1; <u>S. blockley</u> , 9; <u>S. braederup</u> , 2; <u>S. bredeney</u> , 8; <u>S. choleraesuis</u> , 16; <u>S. cubana</u> , 3; <u>S. derby</u> , 36; <u>S. eastbourne</u> , 6; <u>S. enteritidis</u> , 44; <u>S. give</u> , 1; <u>S. hartford</u> , 1; <u>S. havana</u> , 1; <u>S. heidelberg</u> , 35; <u>S. indiana</u> , 1; <u>S. infantis</u> , 35; <u>S. javiana</u> , 5; <u>S. kentucky</u> ,

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied

1; S. lexington, 4; S. litchfield, 4; S. livingstone, 5; S. london, 17; S. manhattan, 15; S. manila, 1; S. montevideo, 14; S. muenchen, 1; S. newington, 1; S. newport, 42; S. oranienberg, 29; S. orion, 2; S. ozona, 3; S. panama, 4; S. paratyphi A, 3; S. paratyphi B, 12; S. poona, 7; S. pullorum, 1; S. saint paul, 58; S. schwarzengrund, 6; S. senftenberg, 11; S. siegburg, 15; S. tennes-see, 8; S. thomasville, 3; S. thompson, 8; S. typhi, 20; S. typhimurium, 406; S. worthington, 1; Serratia sp., 1; Serratia marcescens, 4; Serratia rubidaea, 1; Shigella sp., 2; Shigella dysenteriae I, 1; Shigella flexneri (not grouped), 1; Shigella flexneri: 2A, 5; 2B, 3; Shigella sonnei I, 35; Shigella sonnei II, 249; Staphylococcus aureus, 2; Staphylococcus epidermidis, 3; Streptococcus sp., 15; Streptococcus pneumoniae, 2.

The 503 isolations from referred cultures (anaerobic) were: Actinomyces bovis, 1; Actinomyces israeli, 1; Actinomyces naeslundii, 1; Bacteroides sp., 2; Bacteroides amylophilus, 2; B. biacutus, 2; B. clostridiiformis, 3; B. corrodens, 1; B. fragilis, 108; B. melaninogenicus, 1; B. ochraceus, 1; B. oralis, 7; B. pneumosintes, 1; B. pumicola, 1; B. putredinis, 1; B. ruminicola, 15; Bifidobacterium bifidum, 2; Clostridium sp., 3; Clostridium barati, 1; C. bifermentans, 10; C. butyricum, 2; C. botulinum type B, 1; C. cadaveris, 6; C. difficile, 2; C. fallax, 1; C. glycolicum, 1; C. histolyticum, 1; C. indolis, 1; C. innocuum, 3; C. novyi, type A, 2; C. perfringens, 111; C. pseudotetanicum, 1; C. putrificum, 2; C. ramosum, 9; C. septicum, 3; C. sordellii, 6; C. sphenoides, 1; C. sporogenes, 8; C. subterminale, 3; C. tertium, 2; Eubacterium sp., 4; Eubacterium aerofaciens, 2; E. alactolyticum, 1; E. cylindroides, 1; E. lentum, 3; E. limosum, 1; E. moniliforme, 2; E. rectole, 1; Fusobacterium sp., 1; Fusobacterium mortiferum, 2; F. necrogenes, 1; F. necrophorum, 5; F. nucleatum, 4; F. varium, 3; Lactobacillus sp., 23; Lactobacillus acidophilus, 3; L. catenaforme, 1; L. planturum, 1; Megasphaera elsdenii, 3; Peptococcus sp., 1; Peptococcus asaccharolyticus, 12; Peptococcus constellatus, 2; Peptococcus magnus, 7; Peptococcus morbillorum, 2; Peptococcus prevotii, 4; Peptococcus variabilis, 1; Peptostreptococcus sp., 1; Peptostreptococcus anaerobius, 7; Peptostreptococcus intermedius, 10; Peptostreptococcus micros, 2; Peptostreptococcus productus, 1; Propionibacterium sp., 1; Propionibacterium acidipropionici, 1; Propionibacterium acnes, 48; Propionibacterium avidum, 5; Propionibacterium lymphophilum, 2; Propionibacterium vensenii, 1; Ruminococcus bromii, 1; Veillonella parvula, 2.

From miscellaneous cultures: Mycoplasma sp., 21; M. pneumoniae, 1; M. hominis, 1.

Ind.

Includes 270 anaerobic and 487 aerobic isolations. Anaerobic: Bacteroides clostridiiformis, 2; Bacteroides fragilis, 59; Bacteroides melaninogenicus, 7; Bacteroides oralis, 1; Bacteroides species, 2; Bifidobacterium species, 1; Clostridium bifermentans, 4; C. butyricum, 2; C. cadaveris, 1; C. difficile, 1; C. ghoni, 2; C. glycolicum, 1; C. paraputrificum, 2; C. perenne, 1; C. perfringens, 69; C. ramosum, 11; C. sartagoforum, 1; C. septicum, 3; C. sordellii, 1; Clostridium species, 6; C. sporogenes, 1; C. tertium, 4; C. tyrobutyricum, 1; Eubacterium lentum, 2; Eubacterium limosum, 1; Eubacterium tenue, 1; Fusobacterium mortiferum, 1; Fusobacterium necrophorum, 1; Fusobacterium plauti, 1; Fusobacterium russii, 1; Fusobacterium symbiosum, 1; Peptococcus asaccharolyticus, 1; Peptococcus prevotii, 15; Peptococcus species, 2; Peptococcus variabilis, 1; Peptostreptococcus anaerobius, 9; Peptostreptococcus elsdenii, 1; Peptostreptococcus intermedius, 7; Peptostreptococcus micros, 2; Propionibacterium acnes, 32; Propionibacterium avidum, 2; Propionibacterium lymphophilum, 1; Propionibacterium species, 4; Veillonella parvula, 1. Aerobic: Acinetobacter calcoaceticus, 12; Actinobacillus actinomycetem-comitans, 1; Aeromonas hydrophila, 8; Alcaligenes faecalis, 1; Alcaligenes odorans, 1; Bacillus cereus, 1; B. pumilus, 2; Bacillus species, 12; B. subtilis, 2; Chromobacterium violaceum, 1; Citrobacter diversus, 2; Corynebacterium aquaticum, 1; Corynebacterium bovis, 1; Corynebacterium species, 14; Corynebacterium vaginale, 3; Cryptococcus laurentii, 1; Eikenella corrodens, 5; Enterobacter agglomerans, 7; Enterobacter cloacae, 1; Escherichia coli, 18; Flavobacterium meningosepticum, 1; Flavobacterium species, 6; Group: H₃ 5, 1; II F, 1; II k-1, 3; II J, 2; IV e, 2; V e (1), 2; V e (2), 4; Haemophilus aphrophilus, 5; Haemophilus influenzae, 36;

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied

Haemophilus parahemolyticus, 2; Haemophilus parainfluenzae, 3; Klebsiella pneumoniae, 1; Lactobacillus fermentum, 2; Lactobacillus species, 1; Listeria monocytogenes, 1; Micrococcus species, 1; Mima polymorpha (Acinetobacter), 14; Mima polymorpha var. oxidans, 2; Moraxella non-liquefaciens, 2; Moraxella osloensis, 8; Moraxella n. phenylpyruvica, 1; Mycobacterium rhodochrous group, 1; Neisseria catarrhalis, 8; N. gonorrhoeae, 65; N. lactamica, 3; N. meningitidis, 29; N. sicca, 12; Pasteurella multocida, 8; Proteus mirabilis, 2; Providencia stuartii, 2; Pseudomonas acidovorans, 2; P. aeruginosa, 13; P. alcaligenes, 2; P. cepacia, 3; P. denitrificans, 4; P. diminuta, 2; P. fluorescens, 4; P. maltophilia, 5; P. pseudoalcaligenes, 4; P. pseudomallei, 1; P. putida, 7; P. putrefaciens, 2; Pseudomonas species, 2; P. stutzeri, 2; Serratia liquefaciens, 1; Serratia marcescens, 9; Staphylococcus aureus, 15; Staphylococcus epidermidis, 18; Streptobacillus moniliformis, 1; Streptococcus alpha-unspeciated, 13; alpha - S. mitis, 1; beta - group A, 4; beta - group B, 11; beta - group C, 2; beta - group D, 17; beta - group E, 4; beta - group G, 2; beta ungrouped, 1; gamma, 2; S. pneumoniae, 2; Vibrio alginolyticus, 1; unclassified gram negative rod, 4.

111.

Aerobes (non-enteric): Achromobacter xylosoxidans, 6; Achromobacter species, 2; Actinobacillus actinomycetem-comitans, 1; Aeromonas hydrophila, 3; Alcaligenes denitrificans, 3; Alcaligenes faecalis, 2; Bacillus cereus, 14; Bacillus species, 10; B. circulans, 6; B. brevis, 1; B. pumilus, 2; B. subtilis, 1; Brucella melitensis, 1; Bordetella bronchiseptica, 1; Bordetella pertussis, 4; Corynebacterium diphtheriae, 4; C. equi, 2; C. hofmanni, 4; C. haemolyticum, 3; C. minutissimum, 1; Corynebacterium species, 19; C. gp. D-1, 1; C. renale, 1; C. xerosis, 3; Flavobacterium species, 5; Flavobacterium gp. IID, 1; Haemophilus influenzae, 21; Haemophilus parainfluenzae, 5; Haemophilus aphrophilus, 6; Haemophilus species, 1; Eikenella corrodens, 32; HB-5, 1; Herellea vagincola, 29; Lactobacillus species, 7; Listeria monocytogenes, 11; Mima polymorpha, 36; Mima polymorpha v. oxidans, 8; Moraxella nonliquefaciens, 4; Moraxella osloensis, 17; Moraxella species, 2; Moraxella kingii, 1; Neisseria gonorrhoeae, 54; N. lactamica, 7; N. meningitidis: B, 22; C, 10; Y, 12; Z, 4; no type, 40; N. catarrhalis, 6; N. flavescens, 1; N. subflava, 1; N. flava, 4; N. sicca, 1; N. perflava, 1; Pasteurella multocida, 38; Pasteurella multocida gas, 2; Pseudomonas fluorescens, 5; P. acidovorans, 2; P. aeruginosa, 56; P. cepacia, 10; P. maltophilia, 19; P. stutzeri, 8; P. diminuta, 1; P. denitrificans, 2; P. putida, 2; P. alcaligenes, 9; P. putrefaciens, 3; Pseudomonas species, 34; Staphylococcus aureus, 167; Staphylococcus epidermidis, 44; Streptococcus: alpha, 18; beta, 30; group A, 15; B, 52; C, 8; G, 14; F, 3; E, 3; no group, 10; S. faecalis, 6; S. mitis, 3; S. pneumoniae, 3; S. bovis, 2; S. addominimus, 1; S. anginosus, 1; other gamma hemolytic streptococcus, 1; II f, 5; V a, 3; EF IV, 1; II J, 3; Streptococcus mutans, 1; IV C, 1; IV C, 1; S. sanguis, 1; non hemolytic streptococcus, 2; Vibrio extorquens, 2; Xanthomonas species, 3; Yeast, 13; Candida albicans, 1; Corynebacterium vaginale, 6; Brevibacterium species, 1; Micrococcus group, 1; Lactobacillus lactis, 1; Erysipolothrix rhusiopathiae, 1; possible Vibrio coli, 1; II i, 1; Enterobacter aerogenes, 7; Enterobacter klebsiella, 6; Enterobacter agglomerans, 7; Enterobacter cloacae, 5; Enterobacter hafniae, 1; Enterobacter species, 4; Klebsiella pneumoniae, 14; Klebsiella ozaenae, 1; Escherichia coli, 48; Escherichia coli (anaerogenic), 6; Citrobacter freundii, 1; Citrobacter group, 1; Serratia marcescens, 3; Proteus mirabilis, 5; Proteus rettgeri, 2; Proteus morgani, 2; Proteus species, 8; Providencia stuartii, 2; Mycoplasma pneumoniae, 1; Mycoplasma (not pneumoniae), 1; Bacteroides fragilis, 14; Bacteroides fragilis ss fragilis, 2; Bacteroides fragilis ss thetaiotaomicron, 2; Bacteroides fragilis ss melaninogenicus, 2; Bacteroides fragilis ss biacutus, 2; Bacteroides fragilis species, 4; Bifidobacterium breve, 1; Bifidobacterium eriksonii, 1; Clostridium perfringens, 50; C. bifermentans, 4; C. cadaveris, 2; C. septicum, 2; C. perenne, 2; C. tertium, 4; C. ramosum, 7; C. limosum-subterminale, 1; C. sporogenes, 1; C. sordellii, 2; C. innocuum, 1; C. novyi, 2; Fusobacterium nucleatum, 4; Fusobacterium species, 2; Fusobacterium necrophorum, 1; Peptococcus asaccharolyticus, 1; Peptococcus species, 2; Peptostreptococcus, 2; Peptostreptococcus species, 4; Propionibacterium acnes, 26; Propionibacterium species, 1; Propionibacterium avidium, 1; Veillonella alcalescens, 1; Selenomonas ruminantium, 1; Campylobacter fetus-like, 1.

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied

Wisc.	TB, 101; atypical, 159.
West North Central	
Minn.	Significant organisms isolated from referred cultures: <i>Haemophilus</i> , 108; Clostridia, 72; Gonococci, 79; Meningococci, 45; Pseudomonads, 58; coagulase-positive Staphylococci, 113; beta hemolytic, group A Streptococci, 27; <i>Streptococcus faecalis</i> , 25.
Iowa	Organisms of interest from miscellaneous sources: <i>Acinetobacter calcoaceticus</i> , 68; <i>Actinobacillus suis</i> , 1; Actinomyces, 2; <i>Aeromonas hydrophila</i> , 11; <i>Alcaligenes faecalis</i> , 3; <i>Bacillus</i> species, H ₂ S positive (TSI), 4; <i>Bacteroides fragilis</i> , 37; <i>Bacteroides melanogenicus</i> , 1; <i>Bacteroides</i> species (other), 6; Bifidobacterium, 2; <i>Bordetella bronchiseptica</i> , 1; Brucella, 4; CDC groups II-V, 31; <i>Citrobacter diversus</i> , 5; <i>Clostridium bifermentans</i> , 9; <i>C. butyricum</i> , 4; <i>C. perfringens</i> , 56; <i>C. sordellii</i> , 3; <i>C. species</i> , 12; <i>Corynebacterium aquaticum</i> , 3; <i>Corynebacterium vaginale</i> , 4; <i>Eikenella corrodens</i> , 19; <i>Enterobacter agglomerans</i> , 12; <i>Escherichia coli</i> , H ₂ S positive (TSI), 1; Eubacterium, 6; Flavobacterium, 11; Fusobacterium, 4; <i>Haemophilus aegyptius</i> , 4; <i>Haemophilus aphrophilus</i> , 3; <i>Haemophilus influenzae</i> , 23; <i>Klebsiella ozaenae</i> , 4; <i>Klebsiella pneumoniae</i> , 20; Listeria, 1; Moraxella, 14; <i>Neisseria gonorrhoeae</i> , 87; <i>Neisseria meningitidis</i> , 9; <i>Pasteurella multocida</i> , 24; Peptococcus species, 10; Peptostreptococcus, 4; <i>Propionibacterium acnes</i> , 18; <i>Pseudomonas aeruginosa</i> , 32; <i>P. cepacia</i> , 16; <i>P. maltophilia</i> , 13; <i>Pseudomonas</i> species, 39; Salmonella species, 12; <i>Salmonella typhi</i> , 1; Serratia, 17; <i>Shigella sonnei</i> , 1; Streptococcus, beta, 27; <i>Streptococcus pneumoniae</i> , 1; Veillonella, 7; <i>Vibrio extorquens</i> , 1; Yersinia, 1.
Mo.	Gram positive cocci: <i>Micrococcus</i> species, 3; Peptostreptococcus species, 2; <i>Staphylococcus aureus</i> , 51; <i>Staphylococcus epidermidis</i> , 24; Streptococcus group A, 6; group B, 21; group C, 17; group D, 5; group G, 11; Streptococcus species, 10; <i>Staphylococcus salivarius</i> , 2; Alpha strep., 2; Peptostreptococcus CDC group 2, 2; Peptostreptococcus CDC group 3, 2; Peptostreptococcus CDC group 4, 1; <i>Streptococcus bovis</i> , 2; <i>Strep. viridans</i> not group D, 2; <i>S. viridans</i> , 2; <i>S. durans</i> , 1; <i>Strep. faecalis</i> var. <i>liquefaciens</i> , 1; other gram positive cocci, 2. Gram positive rods: <i>Bacillus circulans</i> , 1; <i>Bacillus</i> species, 8; <i>Clostridium perfringens</i> , 11; <i>Clostridium tertium</i> , 4; <i>Corynebacterium aquaticum</i> , 1; <i>Corynebacterium equi</i> , 4; <i>Lactobacillus catenaforme</i> , 1; <i>Lactobacillus</i> species, 5; <i>Listeria monocytogenes</i> , 2; <i>Propionibacterium acnes</i> , 11; <i>Bacillus mycoides</i> , 1; <i>Bacillus megaterium</i> , 3; <i>Bacillus pumilus</i> , 2; <i>Bacillus subtilis</i> , 5; <i>Corynebacterium</i> species, 4; <i>Corynebacterium pseudodiphtheriticum</i> , 1; <i>Bacillus sphaericus</i> , 1; <i>Corynebacterium</i> group D-2, 3; <i>Bacillus cereus</i> + <i>mycoides</i> , 1; <i>Clostridium innocuum</i> , 1; <i>Propionibacterium avidum</i> , 1; <i>Corynebacterium</i> group D-1, 1; <i>Actinomyces israeli</i> , 1. Gram negative rods: <i>Acinetobacter calcoaceticus</i> , 30; <i>Acinetobacter (Mima polymorpha)</i> , 12; <i>Aeromonas hydrophila</i> , 1; <i>Alcaligenes denitrificans</i> (Vc), 2; Anaer. Non-Mot. biotype of <i>E. coli</i> (ADO), 11; <i>Bacteroides</i> -group Fl, 1; <i>Bacteroides fragilis</i> , 5; CDC group IB-2, 1; CDC group IIF, 2; CDC group IIH, 1; CDC group IIJ, 1; CDC group IIK, type I, 3; CDC group IVc, 1; CDC group VD, 1; CDC group EF-4, 3; <i>Citrobacter diversus</i> , 11; <i>Citrobacter freundii</i> , 22; <i>Comamonas terrigena</i> , 1; <i>Edwardsiella tarda</i> , 2; <i>Eikenella corrodens</i> , 10; <i>Enterobacter aerogenes</i> , 2; <i>Enterobacter agglomerans</i> , 15; <i>Enterobacter cloacae</i> , 34; <i>Enterobacter hafniae</i> , 5; <i>Escherichia coli</i> , 77; Enteropathogenic <i>Escherichia coli</i> , 10; Flavobacterium species (IIB), 1; <i>Haemophilus aphrophilus</i> , 1; <i>Haemophilus influenzae</i> , type A, 2; type B, 17; type C, 2; type D, 6; type E, 3; type F, 4; not typeable, 11; <i>Haemophilus parainfluenzae</i> , 3; <i>Klebsiella ozaenae</i> , 3; <i>Klebsiella pneumoniae</i> , 7; <i>Klebsiella rhinoschleramatis</i> , 2; <i>Moraxella non-liquefaciens</i> , 4; <i>Moraxella osloensis</i> , 2; <i>Pasteurella n. species</i> I, 3; <i>Pasteurella ureae</i> , 1; <i>Pasteurella multocida</i> , 12; <i>Proteus mirabilis</i> , 16; <i>Proteus morgani</i> , 4; <i>Proteus rettgeri</i> , 10; <i>Proteus</i> species, 1; <i>Proteus vulgaris</i> , 4; <i>Providencia alcalifaciens</i> , 2; <i>Providencia stuartii</i> , 2; <i>Pseudomonas aeruginosa</i> , 22; <i>P. alcaligenes</i> , 3; <i>P. cepacia</i> , 8; <i>P. denitrificans</i> , 2; <i>P. diminuta</i> , 2; <i>P. fluorescens</i> , 11; <i>P. maltophilia</i> , 13; <i>P. putida</i> , 6; <i>Pseudomonas</i> species, 7; <i>P. stutzeri</i> , 2; <i>P. testosteroni</i> , 3; <i>Salmonella agona</i> , 8; <i>S. anatum</i> , 6; <i>S. blockley</i> , 6; <i>S. derby</i> , 3; <i>S. enteritidis</i> , 7; <i>S. heidelberg</i> , 14; <i>S. java</i> , 7; <i>S. kottbus</i> , 2; <i>S. litchfield</i> , 3; <i>S. montevideo</i> , 5; <i>S. muenchen</i> , 5; <i>S. newport</i> ,

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied

	<p>19; <u>S. oranienberg</u>, 2; <u>S. saint paul</u>, 7; <u>S. thompson</u>, 8; <u>S. typhi</u>, 9; <u>S. typhimurium</u>, 113; <u>S. infantis</u>, 14; <u>S. cholerae suis</u>, 11; <u>S. bareilly</u>, 4; <u>S. javiana</u>, 4; <u>S. malade</u>, 1; <u>S. chester</u>, 1; <u>S. eastborne</u>, 3; <u>Serratia marcescens</u>, 4; <u>Shigella flexneri</u>, type 1, 1; type 2, 6; type 3, 6; type 4a, 1; <u>Shigella sonnei</u>, 127; unidentified (CDC), 1; <u>Fusobacterium fusiforme</u>, 1; <u>Pseudomonas pseudomalle</u>, 1; <u>Haemophilus parahaemolyticus</u>, 4; <u>Moraxella urethralis</u>, 2; <u>Pasteurella anatispestifer</u>, 1; CDC group IIIB (prob. var. of IIIA), 3; <u>Vibrio extorquens</u>, 1; CDC V-2, 1; "Mima" polymorpha var. <u>oxidans</u>, 2; <u>Actinobacillus lignieresii</u>, 2; <u>Serratia liquefaciens</u>, 1; <u>Salmonella ohio</u>, 1; <u>S. paratyphi</u>, 1. Gram negative cocci: <u>Neisseria flavescens</u>, 5; <u>Neisseria gonorrhoeae</u>, 1; <u>Neisseria lactamica</u>, 12; <u>Neisseria meningitidis</u>, group B, 14; group C, 4; group Z, 4; <u>Neisseria mucosa</u>, 1; <u>Neisseria perflava</u>, 1; <u>Neisseria sicca</u>, 2; <u>Neisseria subflava</u>, 2; <u>Neisseria meningitidis</u> (unable to group), 14.</p>
N.D.	Unusual gram negative rods studied most frequently.
S.D.	Organisms isolated include: <u>Mima polymorpha</u> , <u>Mima polymorpha</u> var. <u>oxidans</u> , <u>Staphylococcus aureus</u> , <u>Staphylococcus epidermidis</u> , <u>Enterococcus</u> , <u>Enterobacter hafniae</u> , <u>Enterobacter cloacae</u> , <u>Enterobacter agglomerans</u> , alpha streptococcus, fecal streptococcus, beta hemolytic streptococcus group A, <u>Streptococcus pneumoniae</u> , <u>E. coli</u> , <u>Proteus</u> species, <u>Proteus mirabilis</u> , <u>Proteus morgani</u> , <u>Proteus vulgaris</u> , <u>Pseudomonas</u> species, <u>Pseudomonas aeruginosa</u> , <u>Neisseria</u> species, <u>Citrobacter</u> , <u>Sarcina</u> , <u>Serratia</u> species, <u>Serratia rubidaea</u> , <u>Bacillus subtilis</u> , <u>Diphtheroids</u> , <u>Corynebacterium</u> , <u>Corynebacterium xerosis</u> , <u>Klebsiella</u> species, <u>Klebsiella alkaligenes</u> , <u>Peptostreptococcus</u> , <u>Herellea vaginicola</u> , <u>Haemophilus hemolyticus</u> , <u>Flavobacterium</u> , <u>Haemophilus influenzae</u> , <u>Alkaligenes faecalis</u> , <u>Providencia</u> , <u>Pasteurella multocida</u> , <u>Clostridium perfringens</u> , <u>Listeria monocytogenes</u> , <u>Rhodochrous</u> complex.
Kans.	<p><u>Aeromonas</u> species, 7; <u>Alcaligenes</u> species, 10; <u>Actinomyces</u>, 3; <u>Bacteroides</u> species, 10; <u>B. fragilis</u>, 29; <u>Bifidobacterium</u>, 3; <u>Clostridium</u> species, 3; <u>C. perfringens</u>, 54; <u>C. cadaveris</u>, 1; <u>C. septicum</u>, 1; <u>C. sporogens</u>, 1; <u>C. bifermentans</u>, 8; <u>C. innocuum</u>, 1; <u>C. subterminale</u>, 2; <u>Corynebacterium</u>, 5; <u>Fusobacterium</u>, 3; <u>Lactobacillus</u>, 7; <u>Peptostreptococcus</u>, 3; <u>Propionibacterium</u>, 18; <u>Sarcina</u>, 7; <u>Veillonella</u>, 4; <u>Eubacterium lentum</u>, 2; <u>Acinetobacter calcoaceticus</u> (<u>Herellea-Mimae</u>), 44; <u>Bacillus</u> species, 46; <u>Citrobacter</u> species, 30; <u>Coliform</u> species, 119; <u>Corynebacterium diphtheriae</u>, 4; <u>Corynebacterium</u> species (<u>diphtheroids</u>), 79; <u>Enterobacter agglomerans</u>, 13; <u>Enterobacter</u> species, 25; <u>Enterococcus</u> species, 61; <u>Flavobacterium</u>, 9; <u>Haemophilus influenzae</u>, 13; <u>H. aphrophilis</u>, 4; <u>H. parahaemolyticus</u>, 1; <u>H. vaginalis</u>, 3; <u>H. parainfluenzae</u>, 3; <u>H. aegypticus</u>, 1; <u>Klebsiella</u> species, 38; <u>Lactobacillus</u> species, 19; <u>Listeria monocytogenes</u>, 3; <u>Moraxella</u> species, 18; <u>Neisseria gonorrhoeae</u>, 36; <u>Neisseria meningitidis</u>, 23; <u>Neisseria</u> species, 35; <u>N. catarrhalis</u>, 2; <u>N. perflava</u>, 3; <u>Pasteurella</u> species, 1; <u>P. multocida</u>, 13; <u>P. ureae</u>, 2; <u>P. hemolytica</u>, 8; <u>Providencia</u> species, 5; <u>Proteus</u> species, 34; <u>Pseudomonas</u> species, 143; <u>Salmonella typhosa</u>, 1; <u>S. typhimurium</u>, 3; <u>S. muenchen</u>, 1; <u>Serratia</u> species, 16; <u>Staphylococcus aureus</u> and other, 252; <u>Streptococcus</u>, alpha, 79; <u>Streptococcus</u>, beta, 267; <u>Streptococcus</u>, gamma, 9; <u>Streptococcus pneumoniae</u>, 10; other <u>Streptococcus</u>, 67; <u>Yeast</u> species, 25; unclassified species, 2; Va, 3; IVd, 4; Vd-1, 1; EF-4, 8; Vd, 5; Vc-1, 1; IIIA, 2; IIJ, 1; DF-1, 4; Ib-1, 1; IIF, 2; Ib-2, 1; VE-2, 2; TM-1, 4; HB-1, 7; IVF, 1; IVc (2), 1; IIIb, 1; IIk, 2; IIk2, 1; <u>Vibrio</u> species, 3; <u>Aerobic spore former</u>, 3; <u>Mima polymorpha</u>, 18; <u>Edwardsiella tarda</u>, 2; <u>Sarcina</u> species, 4; <u>Brevibacterium acetylum</u>, 1.</p>
<u>South Atlantic</u>	
Del.	Organism most frequently isolated - <u>Salmonella</u> species.
Md.	Primarily <u>Strep</u> grouping.
Va.	<u>Escherichia</u> species, <u>Serratia</u> species, <u>Pseudomonas</u> species, <u>Bacteroides</u> species, <u>Peptococcus</u> species, <u>Propionibacterium</u> species, <u>Streptococcus pneumoniae</u> , <u>Enterobacter agglomerans</u> , Group D <u>Strep</u> , <u>Staphylococcus epidermidis</u> , alpha

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied

Strep., Proteus mirabilis, Bacteroides fragilis, Serratia marcescens, Enterobacter cloacae, Klebsiella pneumoniae, beta hemolytic Strep., group A, Propionibacterium acnes, Pseudomonas aeruginosa, Pseudomonas putida, Clostridium perfringens, Streptococcus faecalis, C. enzymicum, Neisseria catarrhalis, Peptostreptococcus species, Bacteroides corrodens, Acinetobacter calcoaceticus, Citrobacter species, group E Strep., Corynebacterium xerosis, Pasteurella multocida, Pseudomonas cepacia, Alcaligenes faecalis (group IV), Bacillus subtilis, C. perfringens (non-toxogenic to mice), Klebsiella species, Neisseria gonorrhoeae, Corynebacterium bovis, Bacillus cereus, Haemophilus influenzae group B, group F, Propionibacterium granulosum, Pseudomonas maltophilia, Citrobacter freundii, Pseudomonas vesiculare, Mima polymorpha, Corynebacterium equi, Serratia liquefaciens, Proteus rettgeri, Neisseria lactamica, Corynebacterium striatum, beta hemolytic group A, group B, group C, Herellea vaginicola, Escherichia species, Bacteroides vulgatus, Haemophilus aphrophilus, Moraxella species, Veillonella species, Bacillus licheniformis, Neisseria sicca, Eikenella corrodens, Clostridium bifermentans, C. subterminale, Enterobacter hafniae, Pseudomonas stutzeri (VB-2), Eubacterium lentum, Proteus morgani, Lactobacillus species, Proteus vulgaris, N. meningitidis group B, Klebsiella ozaenae type 4, Staphylococcus aureus - coagulase positive, Flavobacterium group II-B, group II-F, Moraxella kingii, Streptococcus species, C. pseudodiphtheriticum, Pseudomonas fluorescens.

W.Va.

Salmonella tennessee, S. enteritidis, S. typhimurium, S. typhi, Clostridium ramosum, Acinetobacter calcoaceticus.

N.C.

Aerobic identifications: Acinetobacter calcoaceticus, 116; Actinobacillus actinomycetem-comitans, 1; Aeromonas hydrophila, 15; Aeromonas shigelloides, 1; Alcaligenes denitrificans, 7; Alcaligenes odorans, 12; Bacillus species, 90; Bacillus pumilus, 1; Bordetella bronchiseptica, 3; Bordetella pertussis, 1; Brucella suis, 2; Citrobacter diversus, 12; Citrobacter freundii, 19; Corynebacterium aquaticum, 2; Corynebacterium equi, 2; Corynebacterium group C₁, 1; Corynebacterium group D₁, 4; Corynebacterium species, 49; Edwardsiella, 1; Enterobacter aerogenes, 11; Enterobacter agglomerans, 52; Enterobacter cloacae, 21; Enterobacter hafnia, 3; Enterobacter species, 2; Escherichia coli, 123; Flavobacterium meningosepticum (II-a), 6; Flavobacterium species (II-b), 19; Haemophilus aphrophilus, 3; Haemophilus influenzae, 37; Haemophilus parahemolyticus, 2; Haemophilus parainfluenzae, 4; Klebsiella ozaenae, 7; Klebsiella pneumoniae, 39; Lactobacillus, 5; Listeria monocytogenes, 2; Micrococcus, 3; Mima polymorpha, 30; Mima polymorpha var. oxidans, 3; Moraxella group V, 1; Moraxella non-liquifaciens, 1; Moraxella osloensis, 9; Neisseria catarrhalis, 3; N. flava, 1; N. flavescens, 3; N. lactamica, 6; N. meningitidis, 43; N. mucosa, 3; N. perflava, 5; Neisseria species, 10; Pasteurella multocida, 19; P. multocida n. sp. I "gas", 2; Propionibacterium avidum, 1; Proteus mirabilis, 20; Proteus morgani, 19; Proteus rettgeri, 10; Proteus vulgaris, 2; Proteus species, 15; Providencia alcalifaciens, 1; Providencia stuartii, 7; Providencia species, 1; Pseudomonas acidivorans, 5; P. aeruginosa, 122; P. alcaligenes, 10; P. cepacia, 29; P. denitrificans, 3; P. diminuta, 1; P. fluorescens, 11; P. pseudoalcaligenes, 1; P. putida, 31; P. testosteroni, 4; P. maltophilia, 54; Pseudomonas species, 7; Salmonella (other than typhi), 23; Sarcina, 8; Serratia marcescens, 29; Serratia rubidaea, 2; Shigella sonnei, 5; Staphylococcus, coagulase neg., 109; Streptococcus (not group A), 38; Streptococcus, alpha, 46; Streptococcus, non-hemolytic, 18; Streptococcus enterococcus, 57; Streptococcus pneumoniae, 8; Streptococcus (aerobic), 4; Vibrio, fetus, 1; Vibrio, non-cholera, 1; Yersinia enterocolitica, 2; Yeast, 41; Ib-1 (P. putrefaciens), 4; II-f, 3; II-j, 1; II-k type 1, 7; III-a, 7; III-b, 3; IV-c2, 1; IV-e, 1; IV-f, 2; V-a, 1; Vb-1 (P. stutzeri), 6; Vb-2 (P. stutzeri comp.), 1; Vb-3 (P. stutzeri comp.), 1; Ve-2, 8; EF-4, 2; HB-1, 12; HB-5, 3. Anaerobic identifications: Bacteroides clostridiiformis, 4; Bacteroides fragilis, 59; Bacteroides species, 1; Bifidobacterium eriksonii, 1; CDC group F-2, 3; Clostridium bifermentans, 6; C. cadaveris, 1; C. innocuum, 1; C. nucleatum, 1; C. perenne, 1; C. perfringens, 46; C. septicum, 2; C. sordellii, 1; C. sphenoides, 6; C. tertium, 3; Clostridium species, 1; Eubacterium lentum, 4; Eubacterium limosum, 1; Eubacterium species, 1; Fusobacterium mortiferum, 1; Fusobacterium nucleatum, 1; Fusobacterium species, 3; Lactobacillus species, 1; Peptococcus, 2; Peptostreptococcus group 1,

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied	
	5; group 2, 9; group 3, 6; group 4, 11; Peptostreptococcus species, 4; <u>Propionibacterium acnes</u> , 19; <u>Propionibacterium granulosum</u> , 3; <u>Propionibacterium</u> species, 12; <u>Sarcina</u> species, 2; <u>Veillonella alcalescens</u> , 1; <u>Veillonella</u> group 3, 1; <u>Propionibacterium arabinosum</u> , 1; <u>Propionibacterium avidum</u> , 1.
Ga.	Of the 1,899 aerobic bacteria identified more than 50 cultures of each of the following were referred: <u>Acinetobacter calcoaceticus</u> , <u>Escherichia coli</u> , <u>Corynebacterium</u> species, <u>Klebsiella pneumoniae</u> , <u>Pseudomonas</u> species, <u>Neisseria gonorrhoeae</u> , <u>Bacillus</u> species, and beta hemolytic <u>Streptococci</u> , group B. <u>Bacteroides fragilis</u> , <u>Clostridium perfringens</u> , and <u>Propionibacterium acnes</u> were the most frequently referred of the 673 anaerobic cultures identified.
<u>East South Central</u>	
Ala.	<u>Achromobacter xylosoxidans</u> , <u>Acinetobacter calcoaceticus</u> , <u>Actinobacillus actinomycetem-comitans</u> , <u>Aeromonas hydrophila</u> , <u>Alcaligenes</u> species, <u>Alcaligenes denitrificans</u> , <u>A. faecalis</u> , <u>Bacillus</u> species, <u>Bacillus cereus</u> , <u>Bacteroides</u> species, <u>Bacteroides corrodens</u> , <u>B. fragilis</u> , CDC group F-1, <u>B. melaninogenicus</u> , <u>Bifidobacterium</u> species, <u>Bifidobacterium eriksonii</u> , <u>Citrobacter diversus</u> , <u>C. freundii</u> , <u>Corynebacterium</u> species, <u>Corynebacterium aquaticum</u> , <u>C. diphtheriae</u> , <u>C. equi</u> , <u>Clostridium</u> species, <u>Clostridium bifermentans</u> , <u>C. carnis</u> , <u>C. histolyticum</u> , <u>C. innocuum</u> , <u>C. novyii</u> A, <u>C. paraputrificum</u> , <u>C. perfringens</u> , <u>C. ramosum</u> , <u>C. septicum</u> , <u>C. sordelli</u> , <u>C. sporogenes</u> , <u>C. subterminale</u> , <u>C. tertium</u> , <u>Eikenella corrodens</u> (HB-1), <u>Enterobacter</u> species, <u>Enterobacter agglomerans</u> , <u>E. cloacae</u> , <u>E. hafniae</u> , <u>Escherichia coli</u> , <u>Eubacterium limosum</u> , <u>Flavobacterium</u> species, <u>Fusobacterium</u> species, <u>Fusobacterium girans</u> , <u>F. mortiferum</u> , <u>F. nucleatum</u> , <u>Gaffkya tetragena</u> , group 11-F, III-A, IV-C, IV-C(2), IV-E, V-A, Vb-3, V-D, VE-1, VE-2, <u>Haemophilus aphrophilus</u> , <u>H. influenza</u> (types B and C), <u>H. parahemolyticus</u> , <u>H. parainfluenza</u> , <u>H. vaginalis</u> , <u>Klebsiella</u> species, <u>Klebsiella ozaenae</u> , <u>K. pneumoniae</u> , <u>Lactobacillus</u> species, <u>Lactobacillus catenaforme</u> , <u>Listeria monocytogenes</u> , <u>Mima polymorpha</u> var. <u>oxidans</u> , <u>Moraxella</u> species, <u>Moraxella kingii</u> , <u>M. non-liquefaciens</u> , <u>M. osloensis</u> , <u>Neisseria</u> species, <u>Neisseria flavescens</u> , <u>N. gonorrhoeae</u> , <u>N. lactamica</u> , <u>N. meningitidis</u> group B, group C, slaterus group Y, slaterus group Z, <u>N. sicca</u> , <u>Pasteurella multocida</u> n. sp. 1 or "gas", <u>Peptococcus</u> species, <u>Peptostreptococcus</u> species, <u>Propionibacterium</u> species, <u>Propionibacterium acnes</u> , <u>P. freundenreichii</u> , <u>Proteus mirabilis</u> , <u>P. morgani</u> , <u>P. rettgeri</u> , <u>Providencia alcalifaciens</u> , <u>P. stuartii</u> , <u>Pseudomonas</u> species, <u>Pseudomonas aeruginosa</u> , <u>P. cepacia</u> , <u>P. diminuta</u> , <u>P. fluorescens</u> , <u>P. maltophilia</u> , <u>P. putida</u> , <u>P. putrefaciens</u> , <u>P. stutzeri</u> , <u>Rothia dentocariosus</u> , <u>Sarcina</u> , <u>Serratia liquefaciens</u> , <u>S. marcescens</u> , <u>S. rubidaea</u> , <u>Shigella sonnei</u> , <u>Staphylococci</u> - coagulase positive, coagulase negative, <u>Streptococci</u> - alpha hemolytic, beta hemolytic - not group A, group B, <u>Enterococci</u> , microaerophilic, non-hemolytic, <u>Veillonella alcalescens</u> , <u>Vibrio</u> species, anaerobic, <u>V. alginolyticus</u> Yeast.
Miss.	<u>Arizona hinshawii</u> , 120 (from turtles).
<u>West South Central</u>	
La.	Enterobacteriaceae.
Okl.	Most frequently isolated organisms (four or more isolates in FY 1974): <u>Acinetobacter calcoaceticus</u> , <u>Aeromonas hydrophila</u> , <u>Bacteroides corrodens</u> , <u>Bacteroides melaninogenicus</u> , <u>Bacteroides fragilis</u> , <u>Bacteroides</u> species, <u>Bacillus megaterium</u> , <u>Bacillus subtilis</u> , <u>Bacillus</u> species, <u>Citrobacter freundii</u> , <u>Clostridium perfringens</u> , <u>Clostridium septicum</u> , <u>Clostridium sporogenes</u> , <u>Eikenella corrodens</u> , <u>Enterobacter agglomerans</u> , <u>Enterobacter cloacae</u> , <u>Escherichia coli</u> , <u>Haemophilus vaginalis</u> , <u>Klebsiella pneumoniae</u> , <u>Neisseria meningitidis</u> , <u>Neisseria</u> species, <u>Pasteurella multocida</u> , <u>Peptococcus</u> species, <u>Peptostreptococcus</u> species, <u>Propionibacterium acnes</u> , <u>Propionibacterium</u> species, <u>Proteus mirabilis</u> , <u>Proteus morgani</u> , <u>Proteus rettgeri</u> , <u>Pseudomonas aeruginosa</u> , <u>Pseudomonas cepacia</u> , <u>Pseudomonas fluorescens</u> , <u>Pseudomonas maltophilia</u> , <u>Pseudomonas stutzeri</u> , <u>Pseudomonas</u> species, <u>Streptococcus</u> group A, B, C, <u>Streptococcus faecalis</u> , <u>Staphylococcus aureus</u> , <u>Staphylococcus epidermidis</u> . Other organisms of interest studied:

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied

Bordetella parapertussis, Corynebacterium diphtheriae (atoxigenic), Erysipelothrix rhusopathiae, Haemophilus aphrophilus, Haemophilus ducreyi, Haemophilus influenzae, Listeria monocytogenes, Neisseria lactamica, Providencia stuartii, Streptococcus pneumoniae, Yersinia enterocolitica.

Tex. Enteric, anaerobic.

Mountain

Mont. Achromobacter xylosoxidans (group IIIb), 2; Acinetobacter calcoaceticus var. anitratus (Herellea), 34; Acinetobacter calcoaceticus var. lwoffii (Mima polymorpha), 17; Actinomyces species, 1; Aeromonas hydrophila, 2; Alcaligenes denitrificans, 1; Alcaligenes faecalis, 2; Bacillus cereus-mycoides group, 2; Bacillus subtilis, 3; Bacillus species, 23; Bacteroides fragilis ss distasonis, 2; Bacteroides fragilis ss fragilis, 3; Bacteroides fragilis ss thetaitotaomicron, 3; Bacteroides fragilis (not subspeciata), 31; Bacteroides melaninogenicus, 2; Bacteroides oralis, 2; Bacteroides species, 1; Neisseria catarrhalis, 5; Citrobacter diversus, 3; Citrobacter freundii, 5; Clostridium butyricum, 1; Clostridium paraputrificum, 1; Clostridium perfringens, 30; Clostridium ramosum, 4; Clostridium sordellii, 1; Corynebacterium aquaticum, 1; Corynebacterium diphtheriae, atypical, intermedius type, toxogenic, 1; Corynebacterium species, 26; Eikenella corrodens, 7; Enterobacter aerogenes, 2; Enterobacter agglomerans, 15; Enterobacter cloacae, 14; Enterobacter hafniae, 3; Escherichia coli, 69; Flavobacterium meningosepticum, 1; Flavobacterium species, 4; Fusobacterium mortiferum, 1; Fusobacterium nucleatum, 2; CDC groups EF-4, 1; M-4 (Mima polymorpha var. oxidans), 1; IIc, 1; Va, 3; Ve 2, 2; Haemophilus aphrophilus, 5; Haemophilus haemolyticus, 3; Haemophilus influenzae type A, 3; type B, 7; not typed or no type, 24; Haemophilus parahaemolyticus, 2; Haemophilus parainfluenzae, 12; Klebsiella ozaenae, 1; Klebsiella pneumoniae, 20; Lactobacillus species, 10; Micrococcus species, 12; Moraxella non-liquefaciens, 7; Moraxella osloensis, 5; Moraxella phenylpyruvica, 1; Neisseria flava (Neisseria subflava), 3; Neisseria gonorrhoeae, 2; Neisseria meningitidis, group B, 5; group C, 3; Slaterus Y, 7; probable Slaterus Z' slight cross, 1; Neisseria meningitidis rough, 1; Neisseria mucosa, 1; Neisseria perflava (Neisseria subflava), 2; Neisseria sicca, 3; Pasteurella multocida, 9; Pasteurella ureae, 1; Pasteurella n sp. I "gas" (possible Pasteurella multocida), 1; Peptococcus prevotii, 3; Peptostreptococcus anaerobius, 2; Peptostreptococcus productus, 1; Peptostreptococcus CDC group 1, 4; group 2, 5; Peptostreptococcus species, 11; Propionibacterium acnes, 7; Propionibacterium avidum, 2; Propionibacterium granulatum, 1; Proteus mirabilis, 14; Proteus morganii, 9; Proteus rettgeri, 7; Providencia stuartii, 2; Pseudomonas acidovorans, 1; Pseudomonas aeruginosa, 50; Pseudomonas alcaligenes, 2; Pseudomonas cepacia, 6; Pseudomonas fluorescens, 5; Pseudomonas maltophilia, 21; Pseudomonas pickettii, 3; Pseudomonas putida, 6; Pseudomonas stutzeri, 2; Pseudomonas species, 2; Salmonella 4,5,12:non-motile, 1; Serratia liquefaciens, 2; Serratia marcescens, 3; Staphylococcus aureus, 82; Staphylococcus epidermidis, 14; Streptococcus faecalis, 2; Streptococcus faecalis var. zymogenes, 1; Streptococcus pneumoniae, 5; Streptococcus, alpha, 19; Streptococcus, beta, group A, 14; Streptococcus, beta, group B, 19; Streptococcus, beta, group C, 1; Streptococcus, group D (enterococcus) (not further identified), 17; Streptococcus, beta, group F, 2; Streptococcus, beta, group G, 4; Streptococcus, beta, not groups A, B, C, D, F, or G, 3; Streptococcus, beta, not grouped, 1; Streptococcus, non-hemolytic (gamma), 6; Xanthomonas species, 1.

Ida. M. phlei, 13; M. tuberculosis, 12.

Pacific

Ore. Haemophilus species, 2; H. influenzae type B, 13; type A, 1; type F, 1; H. aphrophilus, 2; H. pertussis, 1; H. ducreyi, 1; H. vaginalis, 1; Neisseria species, 12; N. meningitidis, 25; group B, 2; group C, 3; Slaterus type Y, 1; N. catarrhalis, 1; N. gonorrhoea, 3; alpha Streptococcus, 7; group A Streptococcus, 11; group B, 3; group D, 1; S. viridans, 1; S. pneumoniae, 1; Peptostreptococcus, 1; Staphylococcus epidermidis, 10; S. aureus, 3; Staphylococcus species, 2; Pasteurella multocida, 11; Moraxella species, 4; M. non-liquefaciens, 1; M.

TABLE 2-15. DIAGNOSTIC BACTERIOLOGY: REFERRED CULTURES AND MISCELLANEOUS CULTURES
(Continued)

Organisms Isolated and Studied	
	<p><u>osloensis</u>, 1; <u>Propionibacterium acnes</u>, 8; <u>Corynebacterium</u> species, 8; <u>E. coli</u> group, 6; <u>Enterococcus</u>, 3; <u>Alcaligenes</u> species, 1; <u>Klebsiella</u> species, 2; <u>K. pneumoniae</u>, 2; <u>K. ozaenae</u>, 1; <u>Bordetella pertussis</u>, 2; <u>Lactobacillus</u>, 3; <u>Pseudomonas</u> species, 12; <u>P. maltophilia</u>, 2; <u>P. putida</u>, 1; <u>P. aeruginosa</u>, 2; <u>P. putrefaciens</u>, 1; <u>P. cepacia</u>, 1; <u>P. fluorescens</u>, 1; <u>Clostridium</u> species, 1; <u>C. perfringens</u>, 12; <u>C. sporogenes</u>, 2; <u>C. sordellii</u>, 1; <u>C. sphenoides</u>, 1; <u>C. bifermentans</u>, 1; <u>C. butyricum</u>, 1; <u>C. paraputrificum</u>, 1; <u>C. glycolicum</u>, 1; <u>Bacillus</u> species, 10; <u>B. mycoides</u>, 1; <u>B. fragilis</u>, 2; <u>B. cereus</u>, 1; <u>B. cloacae</u>, 3; <u>Bacteroides</u> species, 1; <u>Arizona</u> species, 1; <u>Proteus mirabilis</u>, 1; <u>Providencia</u>, 1; <u>Enterobacter</u> group, 3; <u>Aerobacter aerogenes</u>, 1; <u>Flavobacterium</u> species, 1; <u>Mima polymorpha</u>, 2; <u>M. polymorpha</u>, var. <u>oxidans</u>, 1; <u>Aeromona hydrophila</u>, 1; <u>Fusobacterium</u>, 1; <u>Eikenella corrodens</u>, 1; <u>Citrobacter freundii</u>, 1; HB, 2; HB-1, 1; HB-5, 1; group II - K, 1; <u>Herellea vaginicola</u>, 2; <u>Serratia</u> species, 1; <u>Vibrio extorquens</u>, 1; <u>Candida albicans</u>, 2; <u>Rhodotorula</u> species, 1.</p>
Hawaii	<p><u>Aeromonas hydrophila</u>, <u>Alcaligenes odorans</u>, <u>Bacteroides fragilis</u> ss <u>fragilis</u>, <u>B. fragilis</u> ss <u>oralis</u>, <u>B. fragilis</u> ss <u>thetaitotaomicron</u>, <u>Bordetella pertussis</u>, <u>Clostridium perfringens</u>, <u>C. ramosum</u>, <u>C. sporogenes</u>, <u>C. tertium</u>, <u>Edwardsiella tarda</u>, <u>Enterobacter agglomerans</u>, <u>Flavobacterium meningosepticum</u>, type 1, <u>Fusobacterium mortiferum</u>, <u>Fusobacterium</u> species, <u>Haemophilus influenzae</u>, types a, b, c and non-typable, <u>H. vaginalis</u> - HB-1, <u>Herellea vaginicola</u>, <u>Listeria monocytogenes</u>, type 4, <u>Mima polymorpha</u>, <u>Moraxella non-liquefaciens</u>, <u>M. osloensis</u>, <u>M. urethralis</u>, <u>Pasteurella multocida</u>, <u>Peptostreptococcus</u> sp. CDC group 3, <u>Pseudomonas acidovorans</u>, <u>P. aeruginosa</u>, <u>P. alcaligenes</u>, <u>P. diminuta</u>, <u>P. maltophilia</u>, <u>P. stutzeri</u>, <u>Propionibacterium acnes</u>, <u>Veillonella</u> species, <u>Vibrio alginolyticus</u>.</p>
Guam	<p><u>Mima polymorpha</u>, <u>Herellea vaginicola</u>, <u>Clostridium perfringens</u>, <u>Clostridium sporogenes</u>, <u>Clostridium bifermentans</u>, <u>Corynebacterium</u> species, anaerogenic <u>E. coli</u>, <u>Providencia stuartii</u>, <u>Citrobacter freundii</u>.</p>
P.R.	<p><u>Salmonellae</u>, <u>Shigellae</u>, <u>E. coli</u>, <u>Proteus</u>, <u>Staphylococcus</u>, <u>Pseudomonas</u>, <u>Enterobacter</u>.</p>

TABLES 2-1 - 2-15. FOOTNOTES

- (a) Includes 19 specimens, (9 positives) for Bordetella pertussis exams.
- (b) Includes lesion cultures also, (about 85%).
- (c) Not restricted to beta hemolytic group A.
- (d) Includes isolations from miscellaneous bacteriology.
- (e) Included with "Wounds, Lesions, and Body Fluids," Table 2-9.
- (f) 16 Bordetella pertussis positives not shown in further breakdown.
- (g) Smears submitted for N. gonorrhoeae.
- (h) Includes 6,438 AFB smears with 371 positives.
- (i) Mycobacterium tuberculosis and atypicals included together.
- (j) E. coli and Other included together.
- (k) Salmonella and Shigella included together.
- (l) Referred to CDC.
- (m) Figures included with "Miscellaneous Cultures," Table 2-15.
- (n) Totals for "Wounds, Lesions, and Body Fluids" shown under "Staphylococcus."
- (o) Figures shown under "Staphylococcus" includes "Anaerobes", "Other" and the miscellaneous category of Table 2-15.
- (p) "Staphylococcus" and "Other" included together.
- (q) "Anaerobes" and "Other" included together.
- (r) For GC only.
- (s) Performed in Branch laboratories only.
- (t) Included with Mycobacterium specimen total.
- (u) Included with Enteric culture specimen total.
- (v) Sterility packs.
- (w) Included in total examinations as follows: Enteric Bacteriology, 1,129; Mycology, 260; Special Bacteriology, 1,493; Streptococcus, 216; Tuberculosis, 365.
- (x) Turtles cultured for Salmonella.

TABLE 2-16. MYCOLOGY CULTURES

	Specimens	Exams	Positives: Dermatophytes			
			Microsporium	Trichophyton	Sporotrichum	Others
New England						
Me.	109	109	-	13	-	-
N.H.	50	209	-	-	-	22
Vt.	80	80	-	1	-	-
Mass.	314	*	4	14	-	2
R.I.	15	45	2	3	-	10
Conn.	1,331	4,007	5	82	4	13
Middle Atlantic						
N.Y.	2,251	4,511	10	106	2	8
N.J.	495	1,238	6	16	1	5
Pa.	270	*	3	16	-	2
East North Central						
Ohio	110	558	7	20	-	4
Ind.	1,617	1,617	17	212	6	232
Ill.	611	2,444	9	149	-	125
Mich.	2,630	8,245	17	236	-	28
Wisc.	2,546	2,546	9	99	2	36
West North Central						
Minn.	3,308	7,567	2	18	-	843
Ia.	326	676	1	5	-	-
Mo.	10	818	*	*	*	*
N.D.	591	1,182	-	3	-	-
S.D.	-	-	-	-	-	-
Nebr.	20	35	2	-	-	-
Kans.	676	676	11	11	1	2
South Atlantic						
Del.	20	320	1	2	-	8
Md.	1,428	1,469	9	34	4	20
D.C.	-	-	-	-	-	-
Va.	419	954	-	6	-	9
W.Va.	437	2,165	-	-	-	1
N.C.	210	2,924	1	29	-	3
S.C.	864	25,025	5	16	21	23
Ga.	1,164	1,164	32	147	1	36
Fla.	3,357	4,159	68	87	-	-
East South Central						
Ky.	162	162	*	*	*	*
Tenn.	2,438	2,438	54	5	2	-
Ala.	1,816	20,453	5	21	4	27
Miss.	1,654	1,654	9	3	-	554
West South Central						
Ark.	1,587	8,899	6	8	7	-
La.	1,960	1,960	5	33	1	222
Okla.	305	296	15	21	-	-
Tex.	1,074	2,181	-	-	4	-
Mountain						
Mont.	175	175	2	12	-	-
Ida.	831	1,843	-	3	1	-
Wyo.	-	-	-	-	-	-
Colo.	180	180	*	*	*	*
N.M.	222	222	-	-	-	-
Ariz.	1,352	3,541	-	-	-	-
Utah	62	83	*	*	*	*
Nev.	57	336	5 (a)	(a)	(a)	(a)
Pacific						
Wash.	140	529	6	15	-	5
Ore.	78	121	14	11	2	16
Cal.	142	142	-	-	2	14
Alaska	208	213	90 (a)	(a)	(a)	(a)
Hawaii	388	740	26	49	2	18
Guam	12	48	-	-	-	-
P.R.	187	164	1	4	1	2
V.I.	207	270	-	-	-	-

TABLE 2-16. MYCOLOGY CULTURES
(Continued)

	Positives: Systemic Fungi				
	Histoplasma	Cryptococcus	Blastomyces	Coccidioides	Other
New England					
Me.	-	4	-	-	200
N.H.	-	-	-	-	-
Vt.	-	-	-	1	51
Mass.	-	2	-	-	66
R.I.	-	-	-	-	-
Conn.	-	5	-	1	-
Middle Atlantic					
N.Y.	1	7	-	1	855
N.J.	-	-	-	-	78
Pa.	-	11	1	2	-
East North Central					
Ohio	7	4	2	2	4
Ind.	8	10	5	2	296
Ill.	5	14	3	3	127
Mich.	4	-	-	1	1,684
Wisc.	1	8	3	2	18
West North Central					
Minn.	1	2	2	7	(b)
Ia.	2	2	1	-	2
Mo.	*	*	*	*	4
N.D.	-	1	1	-	52
S.D.	-	-	-	-	-
Nebr.	2	1	-	-	-
Kans.	-	9	-	1	100
South Atlantic					
Del.	-	2	1	1	5
Md.	-	3	-	-	6
D.C.	-	-	-	-	-
Va.	4	3	3	2	108
W.Va.	-	-	-	-	-
N.C.	-	9	-	4	245
S.C.	10	8	4	-	453
Ga.	-	-	-	-	56
Fla.	-	-	-	-	647
East South Central					
Ky.	*	*	*	*	*
Tenn.	81	3	2	-	79
Ala.	14	17	2	1	146
Miss.	-	-	-	-	-
West South Central					
Ark.	4	11	-	15	343
La.	-	5	-	-	228
Okla.	3	-	-	1	46
Tex.	26	4	2	3	-
Mountain					
Mont.	-	-	1	1	57
Ida.	-	1	-	2	-
Wyo.	-	-	-	-	-
Colo.	*	*	*	*	*
N.M.	-	-	-	1	-
Ariz.	-	-	-	121	-
Utah	*	*	*	*	*
Nev.	-	-	-	-	-
Pacific					
Wash.	-	8	-	3	37
Ore.	4	1	1	59	-
Cal.	1	-	-	2	1
Alaska	(a)	(a)	(a)	(a)	(a)
Hawaii	-	-	-	-	49
Guam	-	-	-	-	-
P.R.	-	-	-	-	65
V.I.	-	-	-	-	175

TABLE 2-17. MYCOLOGY: REFERRED FOR IDENTIFICATION

	Specimens	Exams
New England		
Me.	287	287
N.H.	20	101
Vt.	1	1
Mass.	262	*
R.I.	10	30
Conn.	220	552
Middle Atlantic		
N.Y.	766	1,550
N.J.	(c)	1,043
Pa.	244	976
East North Central		
Ohio	674	3,370
Ind.	555	555
Ill.	306	1,224
Mich.	604	604
Wisc.	368	368
West North Central		
Minn.	225	451
Ia.	184	736
Mo.	207	4,490
N.D.	-	-
S.D.	150	450
Nebr.	15	30
Kans.	248	248
South Atlantic		
Del.	15	150
Md.	722	722
D.C.	-	-
Va.	131	607
W.Va.	-	-
N.C.	(d)	(d)
S.C.	773	(c)
Ga.	749	749
Fla.	*	*
East South Central		
Ky.	(c)	(c)
Tenn.	-	-
Ala.	425	3,400
Miss.	(c)	(c)
West South Central		
Ark.	66	(c)
La.	50	50
Okla.	72	72
Tex.	496	1,987
Mountain		
Mont.	-	-
Ida.	-	-
Wyo.	-	-
Colo.	-	-
N.M.	327	327
Ariz.	20	20
Utah	-	-
Nev.	-	-
Pacific		
Wash.	218	968
Ore.	194	463
Cal.	510	510
Alaska	-	-
Hawaii	293	293
Guam	4	4
P.R.	2	2
V.I.	-	-

TABLE 2-18. PARASITOLOGY: PARASITES

	Specimens	Exams	Positives	
			Protozoa	Helminths
New England				
Me.	102	306	2	2
N.H.	1,336	1,681	2	-
Vt.	1,014	1,014	111	15
Mass.	-	-	-	-
R.I.	1,158	3,474	70	62
Conn.	14,695	21,671	794	1,285
Middle Atlantic				
N.Y.	686	686	16	93
N.J.	3,743	11,229	878	262
Pa.	305	945	85	70
East North Central				
Ohio	879	1,985	45	70
Ind.	2,308 (e)	4,005	427	114
Ill.	1,189	1,454	196	62
Mich.	3,342	3,631	431	274
Wisc.	5,007	5,007	382	253
West North Central				
Minn.	4,967	9,779	357	137
Ia.	1,328	2,656	199	31
Mo.	502	1,734	18	2
N.D.	681	1,362	4	22
S.D.	103 (f)	1,365	-	7
Nebr.	86	168	17	2
Kans.	5,375	10,750	892	261
South Atlantic				
Del.	93	93	9	4
Md.	8,831	8,831	552	772
D.C.	609	1,112	16	42
Va.	25,124	25,124	238	2,366
W.Va.	1,952	4,892	129	158
N.C.	6,240	6,286	422	-
S.C.	24,952	29,773	4,358	3,943
Ga.	66,763	84,577	711	5,578
Fla.	80,712	80,712	5,165	4,903
East South Central				
Ky.	3,684	6,929	416	370
Tenn.	7,690	14,634	275	655
Ala.	34,680	36,462	5,334	1,873
Miss.	11,028	11,028	956	1,232
West South Central				
Ark.	1,619	3,150	184	74
La.	47,811 (g)	47,811 (g)	12,210	-
Okla.	2,052	1,973	91	59
Tex.	5,547	11,175	484	258
Mountain				
Mont.	380	380	62	22
Ida.	174	326	3	2
Wyo.	96	192	3	2
Colo.	1,310	1,310	237	28
N.M.	564	564	38	8
Ariz.	480	1,231	*	*
Utah	2,446	2,446	127	-
Nev.	68	197	5 (a)	(a)
Pacific				
Wash.	1,675	1,677	174	100
Ore.	917	1,734	102	53
Cal.	1,562	1,562	368	194
Alaska	705	774	-	60
Hawaii	3,047	3,082	95	466
Guam	1,903	1,905	-	777
P.R.	6,395	12,790	1,467	2,478
V.I.	8,160	9,861	162	838

TABLE 2-19. PARASITOLOGY: BLOOD PARASITES, MICROSCOPIC

	Specimens	Exams	Positives
New England			
Me.	-	-	-
N.H.	-	-	-
Vt.	1	2	1
Mass.	-	-	-
R.I.	3	3	1
Conn.	8	8	2
Middle Atlantic			
N.Y.	14	14	12
N.J.	9	27	1
Pa.	-	-	-
East North Central			
Ohio	-	-	-
Ind.	2	2	1
Ill.	9	18	3
Mich.	8	8	1
Wisc.	-	-	-
West North Central			
Minn.	5	7	2
Ia.	10	12	1
Mo.	645	1,484	67
N.D.	3	3	-
S.D.	-	-	-
Nebr.	1	1	-
Kans.	12	12	-
South Atlantic			
Del.	-	-	-
Md.	10	10	1
D.C.	-	-	-
Va.	-	-	-
W.Va.	-	-	-
N.C.	7	7	-
S.C.	-	-	-
Ga.	53	53	-
Fla.	12	12	1
East South Central			
Ky.	4	4	1
Tenn.	9	9	-
Ala.	18	18	-
Miss.	7	7	-
West South Central			
Ark.	10	10	-
La.	4	4	2
Okla.	3	3	1
Tex.	21	21	6
Mountain			
Mont.	2	2	-
Ida.	-	16	6
Wyo.	-	-	-
Colo.	-	-	-
N.M.	3	3	-
Ariz.	-	-	-
Utah	-	-	-
Nev.	-	-	-
Pacific			
Wash.	21	-	-
Ore.	18	18	4
Cal.	26	26	25
Alaska	10	10	2
Hawaii	-	-	-
Guam	-	-	-
P.R.	-	-	-
V.I.	4	8	-

TABLE 2-20. PARASITOLOGY: REFERRED SPECIMENS

Specimens	Examinations			
	Arthropods	Malarial	Other Protozoa	Helminths and Other Worms
New England				
Me.	2	-	-	2
N.H.	-	-	-	-
Vt.	1	-	1	-
Mass.	-	-	-	-
R.I.	45	3	5	17
Conn.	21	1	-	20
Middle Atlantic				
N.Y.	-	-	-	-
N.J.	3	1	-	2
Pa.	25	6	12	7
East North Central				
Ohio	229	229	-	4 (h)
Ind.	41	28	2	7
Ill.	14	1	(i)	1
Mich.	1	-	-	1
Wisc.	17	9	-	13
West North Central				
Minn.	39	10	-	19
Ia.	16	3	1	5
Mo.	1	10	-	-
N.D.	3	3	-	-
S.D.	-	-	-	-
Nebr.	7	1	-	6
Kans.	16	4	12	-
South Atlantic				
Del.	92	109	-	92
Md.	*	3	-	-
D.C.	-	-	-	-
Va.	4	-	4	-
W.Va.	2	-	-	2
N.C.	(d)	-	-	-
S.C.	-	-	-	-
Ga.	-	-	-	-
Fla.	40	*	*	*
East South Central				
Ky.	1	-	-	1
Tenn.	-	-	-	-
Ala.	15	2	1	4
Miss.	(j)	-	-	-
West South Central				
Ark.	-	-	-	-
La.	-	-	-	-
Okla.	-	-	-	-
Tex.	6,076	6,169	6	2
Mountain				
Mont.	1	-	1	-
Ida.	-	2	-	-
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	5	-	-	-
Ariz.	-	-	-	-
Utah	9	-	4	4
Nev.	-	-	-	-
Pacific				
Wash.	(j)	6	-	19
Ore.	27	2	18	3
Cal.	-	-	-	-
Alaska	-	-	-	-
Hawaii	7	-	-	7
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 2-21. VIROLOGY: RABIES

	Specimens	Exams	Positives	
			Microscopic	Animal Inoculation
New England				
Me.	245	735	20	-
N.H.	464	1,489	12	12
Vt.	238	309	1	-
Mass.	704	2,054	5	5
R.I.	108	324	4	4
Conn.	691	1,140	3	3
Middle Atlantic				
N.Y.	-	-	-	-
N.J.	4,515	45,948 (k)	26	(k)
Pa.	420	414	6	7
East North Central				
Ohio	3,809	5,883	30	96
Ind.	3,584	7,168	22	-
Ill.	3,299	3,245	52	-
Mich.	2,425	3,691	6	1
Wisc.	2,968	2,888	158	18
West North Central				
Minn.	1,390	2,312	54	57
Ia.	1,011	8,088	31	-
Mo.	1,518	9,920	48	2
N.D.	528	528	41	-
S.D.	113	189	29	-
Nebr.	901	918	7	-
Kans.	-	-	-	-
South Atlantic				
Del.	385	776	6	-
Md.	896	1,771	5	5
D.C.	84	106	-	-
Va.	1,221	2,769	163	1
W.Va.	661	2,295	49	35
N.C.	1,738	3,404	31	18
S.C.	934	933	7	-
Ga.	2,100	4,232	92	3
Fla.	4,023	8,046	43	-
East South Central				
Ky.	1,683	4,483	289	-
Tenn.	2,575	5,111	78	-
Ala.	2,050	2,484	32	1
Miss.	613	613	2	-
West South Central				
Ark.	1,591	3,182	59	-
La.	5,670	5,670	88	24
Okla.	2,533	2,586	126	35
Tex.	5,891	5,994	319	12
Mountain				
Mont.	- (1)	-	-	-
Ida.	125	342	-	1
Wyo.	-	-	-	-
Colo.	535	1,070	39	36
N.M.	729	729	23	11
Ariz.	-	-	-	-
Utah	135	408	*	*
Nev.	-	-	-	-
Pacific				
Wash.	360	1,386	6 (a)	(a)
Ore.	405	458	10	5
Cal.	1,230	1,246	101	2
Alaska	49 (m)	373	4	4
Hawaii	1	1	-	-
Guam	26	26	-	-
P.R.	209	357	63	-
V.I.	-	-	-	-

TABLE 2-22. VIROLOGY: TOTAL VIRAL ISOLATIONS (n)

	Total Specimens	Total Exams	Total Positives
New England			
Me.	110	437	*
N.H.	-	-	-
Vt.	279	2,396	27
Mass.	5,801	10,391	611
R.I.	-	-	-
Conn.	6,833	25,529	572
Middle Atlantic			
N.Y.	5,330	13,949	214
N.J.	5,255	66,969	217
Pa.	1,903	1,903	126
East North Central			
Ohio	2,838	5,557	57
Ind.	509	520	23
Ill.	1,421	5,721	135
Mich.	1,331	3,906	55
Wisc.	2,949	2,949	397
West North Central			
Minn.	5,971	16,625	361
Ia.	2,598	24,285	130
Mo.	543	6,801	23
N.D.	42	42	(o)
S.D.	-	-	-
Nebr.	- (p)	-	-
Kans.	668	6,680	97
South Atlantic			
Del.	283	- (q)	-
Md.	1,803	2,253	183
D.C.	530	1,820	147
Va.	584	3,414	67
W.Va.	131	792	24
N.C.	1,187	10,033	158
S.C.	336	8,200	28
Ga.	1,178	7,358	39
Fla.	1,353	2,737	27
East South Central			
Ky.	365	1,308	15
Tenn.	564	564	8
Ala.	636	2,544	10
Miss.	-	-	-
West South Central			
Ark.	52	137	4
La.	2,907	2,907	36
Okla.	757	757	74
Tex.	1,539	4,634	125
Mountain			
Mont.	255	255	16
Ida.	17	17 (r)	*
Wyo.	-	-	-
Colo.	698	698	50
N.M.	87	87	4
Ariz.	954	4,516	80
Utah	618	4,061	70
Nev.	-	-	-
Pacific			
Wash.	545	4,462	30
Ore.	1,501	2,107	192
Cal.	6,014	17,951	928
Alaska	76	76	6
Hawaii	1,167	1,309	141
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLE 2-23. VIROLOGY: HUMAN SOURCE ISOLATIONS

	Specimens	Exams	Positives
New England			
Me.	*	437	*
N.H.	-	-	-
Vt.	279	2,396	27
Mass.	1,403	4,949	89
R.I.	-	-	-
Conn.	6,833	25,529	572
Middle Atlantic			
N.Y.	2,223	10,842	187
N.J.	3,473	43,444	80
Pa.	1,571	1,571	115
East North Central			
Ohio	931	1,444	57
Ind.	508	520	23
Ill.	1,421	5,721	135
Mich.	1,331	3,906	55
Wisc.	2,949	2,949	397
West North Central			
Minn.	5,948	16,579	359
Ia.	2,347	22,261	129
Mo.	449	5,978	20
N.D.	42	42	(o)
S.D.	-	-	-
Nebr.	-	-	-
Kans.	479	4,790	87
South Atlantic			
Del.	-	-	-
Md.	1,784	2,234	183
D.C.	485	1,708	147
Va.	584	3,414	67
W.Va.	131	792	24
N.C.	1,159	9,831	156
S.C.	336 (s)	8,200 (s)	28 (s)
Ga.	1,073	7,358 (s)	38
Fla.	1,320	2,671	27
East South Central			
Ky.	365	1,308	15
Tenn.	532	532	8
Ala.	625	2,500	10
Miss.	-	-	-
West South Central			
Ark.	52	137	4
La.	275	275	6
Okla.	739	739	73
Tex.	1,474	4,514	121
Mountain			
Mont.	255	255	16
Ida.	17	17	*
Wyo.	-	-	-
Colo.	698	698	50
N.M.	87	87	4
Ariz.	954	4,516	80
Utah	617	4,061 (s)	70
Nev.	-	-	-
Pacific			
Wash.	533	4,363	27
Ore.	1,501	2,107	192
Cal.	4,108	15,695	848
Alaska	76	76	6
Hawaii	1,088	1,202	114
Guam	-	-	-
P.R.	-	-	-
V.I.	-	-	-

TABLE 2-23. VIROLOGY: HUMAN SOURCE ISOLATIONS
(Continued)

	Throat Washings			Fecal		
	Specimens	Exams	Positives	Specimens	Exams	Positives
New England						
Me.	*	174	*	*	144	*
N.H.	-	-	-	-	-	-
Vt.	*	*	*	*	*	*
Mass.	514	1,494	31	338	1,554	27
R.I.	-	-	-	-	-	-
Conn.	4,058	9,600	227	3,928	9,360	292
Middle Atlantic						
N.Y.	351	*	37	933	*	65
N.J.	162	3,240	11	1,567	15,670	57
Pa.	475	475	33	311	311	41
East North Central						
Ohio	245	417	20	168	286	7
Ind.	123	135	1	151	152	18
Ill.	409	1,881	80	487	1,825	35
Mich.	239	701	16	560	1,643	20
Wisc.	1,084	1,084	220	769	769	55
West North Central						
Minn.	1,838	5,514	133	1,265	2,530	49
Ia.	670	8,147	43	522	5,982	24
Mo.	178	1,007	14	125	2,569	5
N.D.	5	5	-	22	22	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	95	950	35	263	2,630	28
South Atlantic						
Del.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
D.C.	114	611	28	99	373	16
Va.	194	1,276	26	213	1,228	29
W.Va.	33	501	2	48	147	11
N.C.	443	3,787	69	318	2,662	53
S.C.	152	*	9	71	*	15
Ga.	375	*	12	259	*	13
Fla.	68	136	-	831	1,689	23
East South Central						
Ky.	107	602	6	107	398	7
Tenn.	165	165	1	100	100	3
Ala.	125	500	1	156	624	4
Miss.	-	-	-	-	-	-
West South Central						
Ark.	21	63	-	11	27	-
La.	54	54	-	116	116	6
Okla.	317	317	36	120	120	5
Tex.	303	933	15	794	2,504	81
Mountain						
Mont.	112	112	2	79	79	2
Ida.	16	16	*	1	1	*
Wyo.	-	-	-	-	-	-
Colo.	303	303	*	115	115	*
N.M.	30	30	3	11	11	1
Ariz.	*	*	*	*	*	*
Utah	226	*	*	145	*	*
Nev.	-	-	-	-	-	-
Pacific						
Wash.	140	1,371	6	230	1,670	16
Ore.	654	993	88	436	595	42
Cal.	747	3,060	203	970	4,365	244
Alaska	36	36	2	23	23	1
Hawaii	667	760	93	158	168	10
Ham	-	-	-	-	-	-
R.	-	-	-	-	-	-
I.	-	-	-	-	-	-

TABLE 2-23. VIROLOGY: HUMAN SOURCE ISOLATIONS
(Continued)

	CSF			Blood		
	Specimens	Exams	Positives	Specimens	Exams	Positives
New England						
Me.	*	89	*	-	-	-
N.H.	-	-	-	-	-	-
Vt.	*	*	*	*	*	*
Mass.	318	686	3	14	42	-
R.I.	-	-	-	-	-	-
Conn.	614	1,392	6	7	17	-
Middle Atlantic						
N.Y.	415	*	9	14	*	-
N.J.	802	6,416	5	61	488	-
Pa.	284	284	11	4	4	-
East North Central						
Ohio	319	542	7	17	17	-
Ind.	160	164	3	2	2	-
Ill.	268	1,192	7	6	18	-
Mich.	246	722	2	-	-	-
Wisc.	440	440	8	5	5	1
West North Central						
Minn.	713	2,139	7	283	849	-
Ia.	242	2,473	2	329	784	4
Mo.	102	1,770	1	2	9	-
N.D.	15	15	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	56	560	3	2	20	1
South Atlantic						
Del.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
D.C.	49	116	6	95	113	65
Va.	103	627	6	6	36	-
W.Va.	34	77	1	-	-	-
N.C.	140	1,160	11	18	162	-
S.C.	56	*	1	3	*	-
Ga.	229	*	11	1	*	-
Fla.	237	478	4	13	26	-
East South Central						
Ky.	94	38	2	-	-	-
Tenn.	135	135	2	-	-	-
Ala.	59	236	1	214	856	2
Miss.	-	-	-	-	-	-
West South Central						
Ark.	13	35	2	2	4	2
La.	12	12	-	3	3	-
Okla.	116	116	2	5	5	-
Tex.	131	402	4	-	-	-
Mountain						
Mont.	46	46	-	18	18	12
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	82	82	*	1	1	*
N.M.	18	18	-	3	3	-
Ariz.	*	*	*	*	*	*
Utah	51	*	*	*	*	*
Nev.	-	-	-	-	-	-
Pacific						
Wash.	105	630	1	-	-	-
Ore.	163	231	14	1	1	-
Cal.	633	2,205	84	120	384	36
Alaska	9	9	1	2	2	-
Hawaii	141	148	7	11	11	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-23. VIROLOGY: HUMAN SOURCE ISOLATIONS
(Continued)

	Tissue			Other		
	Specimens	Exams	Positives	Specimens	Exams	Positives
New England						
Me.	*	30	*	-	-	-
N.H.	-	-	-	-	-	-
Vt.	*	*	*	*	*	*
Mass.	121	583	11	98	590	17
R.I.	-	-	-	-	-	-
Conn.	361	840	3	1,923	4,320	44
Middle Atlantic						
N.Y.	510 (t)	*	76 (t)	(t)	*	(t)
N.J.	252	11,340	4	629	6,290	3
Pa.	64	64	5	433	433	25
East North Central						
Ohio	20	20	-	162	162	23
Ind.	19	17	1	53	50	-
Ill.	63	241	2	188	564	11
Mich.	95	279	-	191	561	17
Wisc.	112	112	6	539	539	107
West North Central						
Minn.	257	771	29	1,592	4,776	141
Ia.	51	801	5	533	4,074	51
Mo.	15	216	-	27	407	-
N.D.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	13	130	1	50	500	19
South Atlantic						
Del.	-	-	-	-	-	-
Md.	*	*	*	*	*	*
D.C.	21	36	-	107	459	32
Va.	30	1	-	38	246	6
W.Va.	-	-	-	16	67	10
N.C.	182	1,538	16	58	522	7
S.C.	16	*	-	38	*	3
Ga.	49	*	-	160	*	2
Fla.	132	264	-	39	78	-
East South Central						
Ky.	16	66	-	41	204	-
Tenn.	47	47	-	85	85	2
Ala.	48	192	1	23	92	1
Miss.	-	-	-	-	-	-
West South Central						
Ark.	2	4	-	3	4	-
La.	23	23	-	67	67	-
Okla.	29	29	2	152	152	28
Tex.	45	54	10	201	621	11
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	59	59	*	138	138	*
N.M.	25	25	-	-	-	-
Ariz.	*	*	*	*	*	*
Utah	42	*	*	153	*	*
Nev.	-	-	-	-	-	-
Pacific						
Wash.	58	692	4	-	-	-
Ore.	17	25	1	230	262	47
Cal.	548	2,301	105	1,090	3,380	176
Alaska	-	-	-	6	6	2
Hawaii	30	30	-	81	85	4
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-24. VIROLOGY: ANIMAL AND MISCELLANEOUS SOURCE ISOLATIONS

	Total Animal Source			Horses		
	Specimens	Exams	Positives	Specimens	Exams	Positives
New England						
Me.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	4,398	5,442	522	92	188	48
R.I.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Middle Atlantic						
N.Y.	3,107	3,107	27	49	49	1
N.J.	1,062	12,744	67	55	660	13
Pa.	332	332	11	-	-	-
East North Central						
Ohio	1,907	4,113	-	-	-	-
Ind.	1	-	-	-	-	-
Ill.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
West North Central						
Minn.	23	46	2	-	-	-
Ia.	251	2,024	1	-	-	-
Mo.	94	823	3	2	36	-
N.D.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	189	1,890	10	-	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	28	202	-	18	112	-
S.C.	(s)	-	-	-	-	-
Ga.	105	(s)	1	24	*	1
Fla.	33	66	-	-	-	-
East South Central						
Ky.	-	-	-	-	-	-
Tenn.	32	32	-	-	-	-
Ala.	11	44	-	5	20	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	-	-	-	-	-	-
La.	2,632	2,632	30	-	-	-
Okla.	11	11	-	-	-	-
Tex.	65	120	4	6	13	-
Mountain						
Mont.	- (u)	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
Ariz.	*	*	*	*	*	*
Utah	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
Pacific						
Wash.	12	99	3	-	-	-
Ore.	-	-	-	-	-	-
Cal.	1,906	2,256	80	18	36	-
Alaska	-	-	-	-	-	-
Hawaii	79	107	27	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-24. VIROLOGY: ANIMAL AND MISCELLANEOUS SOURCE ISOLATIONS
(Continued)

	Birds			Mosquito Pools (1 Pool=1 Specimen)		
	Specimens	Exams	Positives	Specimens	Exams	Positives
New England						
Me.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	257	491	117	4,030	4,744	357
R.I.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Middle Atlantic						
N.Y.	3,058 (v)	3,058 (v)	27 (v)	(v)	(v)	(v)
N.J.	5	60	1	981	11,772	46
Pa.	-	-	-	332	332	11
East North Central						
Ohio	-	-	-	1,907	4,113	-
Ind.	1	-	-	-	-	-
Ill.	-	-	-	-	-	-
Mich.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
West North Central						
Minn.	3	6	-	20	40	2
Ia.	-	-	-	251	2,024	1
Mo.	-	-	-	92	787	3
N.D.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	-	-	-	189	1,890	10
South Atlantic						
Del.	-	-	-	-	-	-
Md.	-	-	-	-	-	-
D.C.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	6	54	2	-	-	-
S.C.	-	-	-	-	-	-
Ga.	15	*	-	64	*	-
Fla.	-	-	-	33	66	-
East South Central						
Ky.	-	-	-	-	-	-
Tenn.	10	10	-	22	22	-
Ala.	4	16	-	-	-	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	-	-	-	-	-	-
La.	2,632	2,632	30	-	-	-
Okla.	-	-	-	-	-	-
Tex.	38	57	1	21	50	3
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
Ariz.	*	*	*	*	*	*
Utah	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
Pacific						
Wash.	12	99	3	-	-	-
Ore.	-	-	-	-	-	-
Cal.	15	30	2	1,688	1,820	44
Alaska	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-24. VIROLOGY: ANIMAL AND MISCELLANEOUS SOURCE ISOLATIONS
(Continued)

	Other Animal Source		Positives
	Specimens	Exams	
(States listed alphabetically)			
Ala.	2	8	-
Cal.	185 (x)	370	34
Ga.	2	*	-
Hawaii	79	107	27
Mass.	19	19	-
N.J.	21 (w)	252	7
N.C.	4	36	-
Okla.	11	11	-

TABLE 2-24. VIROLOGY: ANIMAL AND MISCELLANEOUS SOURCE ISOLATIONS
(Continued)

	Miscellaneous Source		Positives
	Specimens	Exams	
(States listed alphabetically)			
D.C.	45	112	-
Md.	19 (z)	19	-
N.J.	720 (y)	10,781	70
Okla.	7	7	1
Utah	1	*	*

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TABLES 2-16 - 2-24. FOOTNOTES

- (a) All positives included in one figure; breakdown not available.
- (b) Included with "Others" under Dermatophytes.
- (c) Included in totals under "Mycology Cultures."
- (d) Included with Referred Bacteriology, Table 2-15.
- (e) Includes 1,745 specimens which were paired fecal unpreserved and preserved (PVA).
- (f) Additional specimens counted under Enteric Cultures.
- (g) Includes occult blood, 268 specimens, 268 exams, 33 positives; and adult worms, 10.
- (h) Includes meat for trichinae, 3.
- (i) Included with Table 2-19.
- (j) Included with Table 2-18.
- (k) Examinations represent arbovirus isolation attempts. Animal inoculation positives: chicks, 15,024; suckling mice, 22,500.
- (l) Performed in Diagnostic Laboratory, Animal Health Division, Department of Livestock.
- (m) Contract with University of Alaska for March - June, 1974, to provide diagnostic rabies services for the state as part of the state laboratory program. This action was required due to the closure of the Arctic Health Research Center.
- (n) Excluding Rabies, which is in Table 2-21.
- (o) Referred to CDC.
- (p) All specimens referred to University of Nebraska Medical Center virus laboratory.
- (q) Contract with New Jersey State Department of Health for virus laboratory work.
- (r) January - June, 1974.
- (s) Human and Animal Source included together.
- (t) "Tissue" and "Other" included together.
- (u) Done at either the Rocky Mountain Laboratory in Hamilton or the Diagnostic Laboratory of the Animal Health Division in Bozeman.
- (v) "Birds," "Mosquito Pools," and "Other" included together.
- (w) Pheasants, 13 specimens, 156 exams, 7 positives; dog, cat, pig, and deer, 8 specimens, 96 exams, 0 positives.
- (x) Hamsters, mice.
- (y) Special project, 583 specimens, 10,500 exams, 4 positives; DETC isolation, 137 specimens, 281 exams, 66 positives.
- (z) Water and sludge.

TABLE 2-25. SYPHILIS SEROLOGY: BLOOD

	Total Specimens	Total Exams	Total Positives (a)	Screening	
				VDRL	
				Exams	Positives (a)
New England					
Me.	27,832	33,095	3,564	27,832	1,374
N.H.	46,027	44,271	2,998	42,094	1,144
Vt.	35,845	37,282	1,945	-	-
Mass.	258,164	258,164	21,781	-	-
R.I.	49,640	54,723	5,643	49,640	2,237
Conn.	118,320	118,320	20,602	101,010	7,792
Middle Atlantic					
N.Y.	*	111,913	67,156	80	48
N.J.	262,712	311,775	53,644	258,948	20,798
Pa.	16,551	19,145	4,546	520	463
East North Central					
Ohio	96,330	123,802	19,585	94,843	12,976
Ind.	93,338	96,981	8,225	91,571	3,643
Ill.	90,197	115,859	29,628	-	-
Mich.	340,547	386,377	65,082	332,206	24,134
Wisc.	174,766	191,974	9,428	173,098	6,531
West North Central					
Minn.	234,767	272,989	20,603	234,767	7,766
Ia.	171,719	178,809	6,927	161,760	4,962
Mo.	109,543	109,543	15,324	61,381	5,333
N.D.	51,640	53,419	1,708	51,353	1,033
S.D.	31,015	32,134	1,078	31,015	837
Nebr.	77,431	80,682	2,071	7,734	27
Kans.	111,789	121,336	12,995	111,789	5,401
South Atlantic					
Del.	35,135	42,322	6,161	37,762	2,588
Md.	206,596	251,746	59,435	-	-
D.C.	176,649	205,840	39,278	-	-
Va.	208,234	229,629	21,350	216,714	10,240
W.Va.	43,819	48,964	4,563	43,819	1,829
N.C.	305,804	347,243	42,813	305,804	16,459
S.C.	270,047	348,690	27,005	293,366	12,738
Ga.	525,198	539,469	47,813	513,166	24,475
Fla.	891,428	956,573	101,125	890,904	57,032
East South Central					
Ky.	141,230	146,695	13,506	133,314	5,920
Tenn.	447,318	456,592	19,492	445,415	9,274
Ala.	441,787	466,738	33,633	444,917	15,557
Miss.	337,848	346,620	20,043	104,678	3,394
West South Central					
Ark.	135,596	141,959	15,609	131,738	6,810
La.	202,011	202,011	16,274	191,197	8,857
Okla.	140,818	154,802	14,960	139,806	7,730
Tex.	166,336	262,995	61,071	154,055	22,709
Mountain					
Mont.	34,978	37,630	3,654	34,706	1,633
Ida.	22,166	24,289	1,982	-	-
Wyo.	13,806	14,865	768	13,806	265
Colo.	143,105	156,817	13,930	143,105	5,064
N.M.	55,330	64,390	8,020	18	12
Ariz.	49,383	57,418	8,472	46,528	4,712
Utah	63,600	76,200	5,532	-	-
Nev.	39,962	48,134	7,388	39,962	2,976
Pacific					
Wash.	39,277	52,176	9,252	38,786	5,336
Ore.	107,613	111,233	6,635	105,990	3,060
Cal.	19,882	25,281	6,114	19,882	2,236
Alaska	46,275	52,112	1,849	12,917	284
Hawaii	35,038	40,374	4,185	33,146	1,930
Guam	6,168	7,104	1,260	6,208	467
P.R.	157,504	157,504	17,033	11,646	832
V.I.	8,797	11,334	1,735	8,797	676

TABLE 2-25. SYPHILIS SEROLOGY: BLOOD
(Continued)

	Screening				Type of Test
	RPR		Other		
	Exams	Positives (a)	Exams	Positives (a)	
New England					
Me.	2,000 (b)	*	-	-	
N.H.	80	50	-	-	
Vt.	-	-	35,845	606	ART
Mass.	238,076	7,082	-	-	
R.I.	-	-	-	-	
Conn.	-	-	124	2	
Middle Atlantic					
N.Y.	80	48	72,540	29,300	ART
N.J.	-	-	-	-	
Pa.	15,184	1,521	-	-	
East North Central					
Ohio	-	-	-	-	
Ind.	-	-	-	-	
Ill.	90,197	11,184	-	-	
Mich.	8	6	-	-	
Wisc.	-	-	-	-	
West North Central					
Minn.	-	-	-	-	
Ia.	-	-	-	-	
Mo.	641	111	-	-	
N.D.	-	-	-	-	
S.D.	-	-	-	-	
Nebr.	-	-	69,777	424	USR
Kans.	-	-	-	-	
South Atlantic					
Del.	-	-	-	-	
Md.	206,596	20,759	-	-	
D.C.	-	-	176,649	17,429	USR
Va.	160	101	-	-	
W.Va.	-	-	-	-	
N.C.	-	-	-	-	
S.C.	37,791	923	-	-	
Ga.	-	-	-	-	
Fla.	-	-	-	-	
East South Central					
Ky.	-	-	1,742	45	Multiphasic
Tenn.	-	-	-	-	
Ala.	-	-	-	-	
Miss.	102,353	2,959	127,190	2,419	ART
West South Central					
Ark.	-	-	-	-	
La.	-	-	-	-	
Okla.	-	-	592	114	VDRL Tube
Tex.	58,010	47	-	-	
Mountain					
Mont.	-	-	-	-	
Ida.	-	-	21,228	557	USR
Wyo.	-	-	-	-	
Colo.	-	-	-	-	
N.M.	100	-	55,330	4,386	ART
Ariz.	4	-	-	-	
Utah	62,843	2,402	-	-	
Nev.	-	-	331	*	Supplementary
Pacific					
Wash.	926	826	-	-	
Ore.	-	-	192	84	ART
Cal.	-	-	-	-	
Alaska	35,904	703	-	-	
Hawaii	2,198	139	-	-	
Guam	-	-	-	-	
P.R.	-	-	133,924	6,693	ART
V.I.	-	-	1,478	18	ART

TABLE 2-25. SYPHILIS SEROLOGY: BLOOD
(Continued)

	Quantitative					
	VDRL		RPR		ART	
	Exams	Positives (a)	Exams	Positives (a)	Exams	Positives (a)
New England						
Me.	1,374	1,374	-	-	-	-
N.H.	1,144	1,135	80	50	-	-
Vt.	606	606	-	-	606	606
Mass.	-	-	6,847	6,847	-	-
R.I.	2,237	2,237	-	-	-	-
Conn.	3,599	7,792	-	-	-	-
Middle Atlantic						
N.Y.	80	80	80	80	29,400	28,800
N.J.	29,900	20,798	-	-	-	-
Pa.	449	402	1,685	1,597	-	-
East North Central						
Ohio	17,045	*	-	-	-	-
Ind.	3,643	3,643	-	-	-	-
Ill.	-	-	11,184	9,576	-	-
Mich.	23,941	23,941	1	-	-	-
Wisc.	10,618	*	-	-	-	-
West North Central						
Minn.	7,766	7,766	-	-	-	-
Ia.	8,663	*	-	-	-	-
Mo.	34,115	5,333	-	-	-	-
N.D.	1,033	400	-	-	-	-
S.D.	486	*	-	-	-	-
Nebr.	1,871	1,091	-	-	-	-
Kans.	5,401	5,401	-	-	-	-
South Atlantic						
Del.	2,672	2,588	-	-	-	-
Md.	-	-	20,759	20,759	-	-
D.C.	17,393	13,064	-	-	-	-
Va.	7,464	7,464	-	-	-	-
W.Va.	3,240	1,830	-	-	-	-
N.C.	19,309	16,459	-	-	-	-
S.C.	12,730	11,200	85	85	-	-
Ga.	16,158	16,088	-	-	-	-
Fla.	57,032	44,093	524	*	-	-
East South Central						
Ky.	7,448	5,414	-	-	-	-
Tenn.	9,274	9,274	-	-	-	-
Ala.	17,415	15,557	-	-	-	-
Miss.	3,394	3,394	2,959	2,959	2,419	2,419
West South Central						
Ark.	6,810	6,810	-	-	-	-
La.	2,802	2,802	-	-	-	-
Okla.	9,495	4,223	-	-	-	-
Tex.	22,709	22,709	47	47	-	-
Mountain						
Mont.	1,978	1,632	-	-	-	-
Ida.	1,620	622	1,441	427	-	-
Wyo.	462	262	-	-	-	-
Colo.	6,812	5,064	-	-	-	-
N.M.	2	2	-	-	4,393	-
Ariz.	4,735	*	-	-	-	-
Utah	9,238	2,291	-	-	-	-
Nev.	2,976	2,588	-	-	-	-
Pacific						
Wash.	4,902	*	-	-	-	-
Ore.	3,701	3,060	-	-	-	-
Cal.	2,236	2,236	-	-	-	-
Alaska	341	188	678	428	-	-
Hawaii	3,170	1,571	-	-	-	-
Guam	467	467	-	-	-	-
P.R.	969	832	-	-	7,100	6,693
V.I.	676	676	-	-	18	*

TABLE 2-25. SYPHILIS SEROLOGY: BLOOD
(Continued)

	FTA-ABS		Confirmatory		Type of Test
	Exams	Positives (a)	Exams	Positives (a)	
New England					
Me.	1,889	816	-	-	
N.H.	873	619	-	-	
Vt.	225	127	-	-	
Mass.	13,241	7,852	-	-	
R.I.	2,846	1,169	-	-	
Conn.	8,587	5,016	-	-	
Middle Atlantic					
N.Y.	9,653	8,800	-	-	
N.J.	22,927	12,048	-	-	
Pa.	1,307	563	-	-	
East North Central					
Ohio	11,914	6,609	-	-	
Ind.	1,767	939	-	-	
Ill.	12,026	7,535	2,452	1,333	MHA-TPI
Mich.	30,221	17,001	-	-	
Wisc.	8,021	2,866	237	31	MHA-TPI
West North Central					
Minn.	29,603	4,326	853	745	MHA-TPI
Ia.	8,386	1,965	-	-	
Mo.	13,334	4,545	72	2	IgM
N.D.	1,033	275	-	-	
S.D.	633	241	-	-	
Nebr.	1,300	529	-	-	
Kans.	4,146	2,193	-	-	
South Atlantic					
Del.	1,888	985	-	-	
Md.	24,391	17,917	-	-	
D.C.	11,798	8,785	-	-	
Va.	5,290	3,544	1	1	Darkfield
W.Va.	1,903	903	2	1	TPI
N.C.	22,034	9,888	96	7	FTA-ABS (IgM)
S.C.	4,672	2,058	46	1	FTA-ABS (IgM)
Ga.	10,145	7,250	-	-	
Fla.	8,113	*	-	-	
East South Central					
Ky.	4,174	2,127	17	-	TPI
Tenn.	1,903	944	-	-	
Ala.	4,406	2,519	-	-	
Miss.	3,627	2,499	-	-	
West South Central					
Ark.	3,411	1,989	-	-	
La.	8,012	4,615	-	-	
Okla.	4,909	2,893	-	-	
Tex.	28,174	15,559	-	-	
Mountain					
Mont.	946	389	-	-	
Ida.	1,221	376	-	-	
Wyo.	597	241	-	-	
Colo.	6,900	3,802	-	-	
N.M.	4,547	3,620	-	-	
Ariz.	6,151	3,760	-	-	
Utah	2,288	839	1,831 (c)	*	MHA-TPI
Nev.	4,051	1,824	814	*	Supplementary
Pacific					
Wash.	7,562	3,090	-	-	
Ore.	1,341	428	9	3	TPI
Cal.	2,918	1,571	245	71	TPI
Alaska	2,272	246	-	-	
Hawaii	1,860	545	-	-	
Guam	429	326	-	-	
P.R.	3,865	1,983	-	-	
V.I.	365	365	-	-	

TABLE 2-26. SYPHILIS SEROLOGY: SPINAL FLUID

	Total Specimens	Total Exams	Total Positives (a)	VDRL	
				Exams	Positives (a)
New England					
Me.	1,419	3,965	27	1,419	17
N.H.	964	964	2	964	2
Vt.	285	285	7	285	1
Mass.	5,972	5,972	17	5,972	17
R.I.	281	483	2	281	1
Conn.	1,868	1,868	18	1,868	18
Middle Atlantic					
N.Y.	*	4,658	150	-	-
N.J.	960	942	8	942	8
Pa.	4	4	-	4	-
East North Central					
Ohio	394	658	255	383	14
Ind.	216	216	-	216	-
Ill.	120	120	7	120	7
Mich.	782	935	25	761	9
Wisc.	503	644	41	502	11
West North Central					
Minn.	3,193	6,146	30	3,193	7
Ia.	1,288	1,289	6	1,289	6
Mo.	899	899	111	826	93
N.D.	394	394	-	394	-
S.D.	107	107	-	107	-
Nebr.	129	178	-	129	-
Kans.	338	676	104	338	2
South Atlantic					
Del.	139	139	2	139	2
Md.	1,334	1,334	195	-	-
D.C.	54	54	8	54	8
Va.	1,341	1,566	71	1,355	23
W.Va.	55	109	19	55	1
N.C.	1,198 (d)	1,438 (d)	69 (d)	1,122	17
S.C.	476	561	25	476	8
Ga.	1,329	2,607	89	1,333	10
Fla.	925	925	4	925	4
East South Central					
Ky.	109	111	6	99	3
Tenn.	692	692	5	692	5
Ala.	1,547	2,349	383	1,554	8
Miss.	3	3	-	-	-
West South Central					
Ark.	83	132	2	83	2
La.	1,441	1,441	12	1,279	12
Okla.	165	358	21	165	(e)
Tex.	822	833	22	833	22
Mountain					
Mont.	272	272	1	272	1
Ida.	272	272	-	272	-
Wyo.	-	-	-	-	-
Colo.	734	734	6	-	-
N.M.	484	484	2	484	2
Ariz.	267	478	56	267	36
Utah	659 (f)	1,296	96	637	-
Nev.	272	272	-	272	-
Pacific					
Wash.	1,454	1,633	27	1,446	3
Ore.	217	304	5	203	5
Cal.	94	308 (g)	11	94	-
Alaska	144	144	-	144	-
Hawaii	143	192	13	141	9
Guam	-	-	-	-	-
P.R.	22	22	12	-	-
V.I.	-	-	-	-	-

TABLE 2-26. SYPHILIS SEROLOGY: SPINAL FLUID
(Continued)

	Other		Type of Test
	Exams	Positives (a)	
New England			
Me.	2,546 (h)	10	Colloidal Gold (1,287 exams), Globulin (1,259 exams)
N.H.	-	-	
Vt.	*	6	FTA
Mass.	-	-	
R.I.	202	1	Kolmer
Conn.	-	-	
Middle Atlantic			
N.Y.	4,658	150	Cardiolipin CF (4,277 ex., 102 pos.); FTA (381 ex., 48 pos.)
N.J.	-	-	
Pa.	-	-	
East North Central			
Ohio	275	241	Quantitative (24 ex.); FTA-ABS (251 ex., 241 pos.)
Ind.	-	-	
Ill.	-	-	
Mich.	174	16	FTA-ABS
Wisc.	142	30	FTA
West North Central			
Minn.	2,953	23	Nonne (1,298 ex., 23 pos.); Colloidal Gold (1,655 ex.)
Ia.	-	-	
Mo.	73	18	Total Protein
N.D.	-	-	
S.D.	-	-	
Nebr.	49	*	Total Protein
Kans.	338	102	Total Protein
South Atlantic			
Del.	-	-	
Md.	1,334	195	FTA
D.C.	-	-	
Va.	211	48	FTA
W.Va.	54	18	Total Protein
N.C.	240	35	VDRL Quantitative (17 exams, 17 positives); FTA (215 exams, 18 positives); Total Protein (8).
S.C.	85	17	FTA-CSF
Ga.	1,274	79	FTA-ABS
Fla.	-	-	
East South Central			
Ky.	12	3	VDRL Quantitative (3 ex., 3 pos.); Total Protein (9)
Tenn.	-	-	
Ala.	795	375	Total Protein
Miss.	3	-	FTA-ABS
West South Central			
Ark.	49	-	Total Protein
La.	162	-	Total Protein
Okla.	193	21	FTA-ABS (39 exams, 21 positives); Total Protein (154)
Tex.	-	-	
Mountain			
Mont.	-	-	
Ida.	-	-	
Wyo.	-	-	
Colo.	-	-	
N.M.	-	-	
Ariz.	211	20	FTA
Utah	656	96	FTA-ABS
Nev.	-	-	
Pacific			
Wash.	187	24	FTA-ABS
Ore.	101	-	Total Protein
Cal.	-	-	
Alaska	-	-	
Hawaii	51	4	
Guam	-	-	
P.R.	22	12	FTA-ABS
V.I.	-	-	

TABLE 2-27. NON-SYPHILIS SEROLOGY: TOTAL SPECIMENS, EXAMINATIONS, AND POSITIVES

	Bacterial Serology			Miscellaneous Serology		
	Specimens	Exams	Positives	Specimens	Exams	Positives
New England						
Me.	*	84	3	*	684	197
N.H.	-	-	-	-	-	-
Vt.	5,310	5,310	*	1,862	1,862	*
Mass.	136 (i)	*	22	(i)	*	7
R.I.	15	29	2	23	23	7
Conn.	295	594	183	5,448	10,669	2,141
Middle Atlantic						
N.Y.	*	879	94	*	3,711	315
N.J.	*	119	2	-	-	-
Pa.	59	59	4	-	-	-
East North Central						
Ohio	411	1,269	49	1,324	2,194	726
Ind.	1,061	3,255	65	640	640	91
Ill.	1,415 (i)	1,090	111	(i)	1,314	222
Mich.	391	807	*	3,638	3,671	*
Wisc.	1,781	6,979	194	9,450	9,450	1,640
West North Central						
Minn.	8,636	8,636	738	20,030	20,030	8,549
Ia.	7,561	8,389	424	3,497	4,191	721
Mo.	2,890	2,890	69	226	226	46
N.D.	2,619	5,757	-	2,619	2,681	-
S.D.	819 (i)	1,923	2	(i)	467	29
Nebr.	1,986	5,789	314	1,427	1,590	327
Kans.	463	716	12	-	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	1,901	2,735	20	2,182	5,025	96
D.C.	-	-	-	12	12	6
Va.	10,547	13,392	1,164	5,045	6,844	1,165
W.Va.	59	69	12	48	48	4
N.C.	1,440	2,453	429	447	1,478	311
S.C.	514	2,082	77	1,585	1,889	495
Ga.	1,133	3,084	149	2,593	2,593	467
Fla.	1,897	3,287	104	621	621	49
East South Central						
Ky.	154	819	73	136	282	33
Tenn.	524	2,106	56	131	131	23
Ala.	174	379	7	-	-	-
Miss.	2,080 (i)	2,381	54	(i)	360	14
West South Central						
Ark.	566	2,486	155	203	203	12
La.	1,753	1,753	25	78	78	9
Okla.	1,833 (i)	5,500 (i)	*	(i)	(i)	*
Tex.	497	1,888	48	85	158	27
Mountain						
Mont.	62	124	7	152	152	25
Ida.	94	332	15	-	-	-
Wyo.	110	530	56	193	193	15
Colo.	123	123	15	48	48	11
N.M.	250	1,073	-	15	15	-
Ariz.	32	24	*	-	2	*
Utah	3,019 (i)	3,019	266	(i)	3,086	236
Nev.	90	209	1	44	44	-
Pacific						
Wash.	1,569	1,801	*	-	-	-
Ore.	281	277	26	955	1,133	132
Cal.	295	1,384	101	51	51	9
Alaska	150	24	3	10	10	-
Hawaii	958	1,123	40	244	251	37
Guam	88	88	41	55	55	14
P.R.	2,110	2,150	13	1,463	1,463	166
V.I.	46	46	-	53	53	-

TABLE 2-27. NON-SYPHILIS SEROLOGY: TOTAL SPECIMENS, EXAMINATIONS, AND POSITIVES
(Continued)

	Fungal Serology			Parasitological Serology		
	Specimens	Exams	Positives	Specimens	Exams	Positives
New England						
Me.	-	-	-	*	1,725	297
N.H.	-	-	-	-	-	-
Vt.	203	812	47	174	174	22
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	-	-	-	1,574	1,574	665
Middle Atlantic						
N.Y.	3,967	11,701	667	1,490	2,153	416
N.J.	-	-	-	1,413	1,376	141
Pa.	1,309	- (j)	-	180	180	26
East North Central						
Ohio	4,164	17,971	1,965	2,180	2,180	765
Ind.	1,867	5,794	617	682	672	181
Ill.	6,510	19,614	1,152	1,430	1,789	359
Mich.	4,681	18,395	800	1,006	1,006	231
Wisc.	1,502	5,602	257	3,871	6,431	1,240
West North Central						
Minn.	9,697	9,697	753	1,374	1,374	290
Ia.	1,484	5,956	211	2,634	2,817	554
Mo.	71,677	71,677	1,290	-	-	-
N.D.	-	-	-	-	-	-
S.D.	83	530	-	38	43	-
Nebr.	-	-	-	-	-	-
Kans.	1,490	5,960	221	-	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	1,755	7,650	*	5,103	6,671	*
D.C.	-	-	-	49	49	-
Va.	2,359	7,326	554	1,177	1,305	607
W.Va.	150	551	14	113	125	11
N.C.	1,352	5,408	155	1,656	1,841	257
S.C.	1,534	7,100	321	853	943	58
Ga.	1,569	6,276	243	1,108	1,107	99
Fla.	-	-	-	505	505	184
East South Central						
Ky.	3,127	11,785	1,247	533	531	146
Tenn.	3,479	6,958	1,003	- (j)	-	-
Ala.	2,274	9,106	164	799	799	56
Miss.	2,151	6,473	594	-	-	-
West South Central						
Ark.	2,436	9,542	408	157	184	38
La.	5,331	5,331	369	385	385	348
Okla.	-	-	-	-	-	-
Tex.	6,265	25,060	794	3,612	4,443	833
Mountain						
Mont.	51	- (j)	8	58	- (j)	8
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	-	-	-	-
N.M.	- (j)	-	-	- (j)	-	-
Ariz.	6,985	10,320	1,270	862	850	68
Utah	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
Pacific						
Wash.	-	-	-	-	-	-
Ore.	486	1,914	40	25,853	27,951	2,099
Cal.	6,501	19,503	2,187	3,303	3,303	918
Alaska	- (j)	-	-	- (j)	-	-
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	5	5	5	8	8	2

TABLE 2-27. NON-SYPHILIS SEROLOGY: TOTAL SPECIMENS, EXAMINATIONS, AND POSITIVES
(Continued)

	Viral and Rickettsial Serology		
	Specimens	Exams	Positives
New England			
Me.	23,406	23,406	*
N.H.	-	-	-
Vt.	5,817	9,155	4,681
Mass.	10,231	11,372	447
R.I.	17,614	35,228	28,054
Conn.	17,080	65,570	890
Middle Atlantic			
N.Y.	*	37,345	626
N.J.	113,931	1,024,731	5,501
Pa.	5,339	10,774	106
East North Central			
Ohio	8,921	25,288	9,100
Ind.	2,637	14,450	179
Ill.	7,604	35,373	620
Mich.	29,934	44,972	22,712
Wisc.	8,070	28,415	749
West North Central			
Minn.	38,235	42,670	425
Ia.	50,186	75,755	43,071
Mo.	18,178	159,923	82
N.D.	16,899	17,179	144
S.D.	13,496	12,500	19
Nebr.	-	-	-
Kans.	12,378	14,857	9,819
South Atlantic			
Del.	-	-	-
Md.	42,206	77,397	*
D.C.	1,682 (k)	2,905	1,199
Va.	2,466	4,977	1,846
W.Va.	4,029	8,150	5,779
N.C.	51,813	61,919	42,602
S.C.	59,047	65,409 (1)	51,076
Ga.	11,391	13,548	5,961
Fla.	11,174	21,352	3,156
East South Central			
Ky.	9,157	10,485	6,673
Tenn.	22,206	27,811	18,211
Ala.	23,742	39,895	18,860
Miss.	1,678	1,678	*
West South Central			
Ark.	700	1,567	330
La.	28,068	28,068	19,030
Okla.	1,331	2,554	137
Tex.	7,450	5,704	2,466
Mountain			
Mont.	19,742	20,246	16,872
Ida.	3,762	10,225	602
Wyo.	7,492	7,492	6,836
Colo.	56,214	56,214	46,809
N.M.	3,347	3,352	*
Ariz.	6,050	10,255	3,201
Utah	3,094	10,808	7,872
Nev.	331	812	131
Pacific			
Wash.	17,725	17,904	79
Ore.	48,019	51,884	36,297
Cal.	11,855	24,019 (m)	982
Alaska	8,884	9,034	7,332
Hawaii	4,365	4,365	56
Guam	-	-	-
P.R.	270	270	214
V.I.	23	23	5

TABLE 2-28. BACTERIAL SEROLOGY

	Typhoid and Paratyphoid			Brucellosis		
	Minimum Significant Titer	Exams	Positives	Minimum Significant Titer	Exams	Positives
New England						
Me.	-	-	-	1:160	48	2
N.H.	-	-	-	-	-	-
Vt.	*	5,310	*	-	-	-
Mass.	1:80	*	14	1:45	*	5
R.I.	1:80	20	1	1:80	9	1
Conn.	1:20	189	83	1:20	90	13
Middle Atlantic						
N.Y.	1:80	181	27	1:80	271	23
N.J.	-	-	-	1:80	32	1
Pa.	-	-	-	*	4	-
East North Central						
Ohio	1:80	46	3	1:80	95	9
Ind.	2+ at 1:80	678	9	1:80	688	10
Ill.	1:80	173	14	1:80	370	45
Mich.	-	-	-	1:80	148	*
Wisc.	1:160	101	6	1:160	1,655	13
West North Central						
Minn.	*	3,087	398	*	2,376	63
Ia.	1:20	47	11	1:80	7,667	309
Mo.	-	-	-	1:80	1,466	27
N.D.	1:80	2,619	-	1:80	2,619	-
S.D.	*	840	-	*	804	-
Nebr.	1:80	3,883	262	1:80	1,813	42
Kans.	-	(n)	-	1:80	253	2
South Atlantic						
Del.	-	-	-	-	-	-
Md.	-	-	-	*	348	4
D.C.	-	-	-	-	-	-
Va.	*	3,400	178	*	4,695	226
W.Va.	-	-	-	1:40	13	-
N.C.	1:160	80	26	1:160	267	13
S.C.	1:80	372	39	1:80	312	11
Ga.	1:320	714	15	1:40	747	51
Fla.	1:160	1,378	94	1:160	1,378	2
East South Central						
Ky.	1:80	558	52	1:80	132	13
Tenn.	1:40	534	30	1:40	524	6
Ala.	-	-	-	1:80	99	4
Miss.	1:160	220	13	1:160	240	2
West South Central						
Ark.	1:80	1,104	88	1:80	322	5
La.	-	-	-	*	753	6
Okla.	*	*	*	*	*	*
Tex.	(o)	179	3	(o)	221	1
Mountain						
Mont.	-	-	-	1:80	62	4
Ida.	-	-	-	*	173 (p)	9 (p)
Wyo.	1:80	210	39	1:80	109	1
Colo.	-	-	-	1:160	*	2
N.M.	*	594	-	*	213	-
Ariz.	-	-	-	*	17	*
Utah	1:80	12	-	1:80	1,088	17
Nev.	1:40	54	1	1:40	49	-
Pacific						
Wash.	*	39	*	*	142	*
Ore.	1:80	87	17	1:80	152	7
Cal.	1:80	293	66	1:80	251	23
Alaska	-	(n)	-	1:80	13	3
Hawaii	1:160	92	1	1:40	46	2
Guam	1:80	41	10	-	-	-
P.R.	1:160	20	7	1:100	20	3
V.I.	-	-	-	-	-	-

TABLE 2-28. BACTERIAL SEROLOGY
(Continued)

	Tularemia			Weil-Felix		
	Minimum Significant Titer	Exams	Positives	Minimum Significant Titer	Exams	Positives
New England						
Me.	*	10	-	*	10	1
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	1:80	*	2	1:80	*	1
R.I.	1:80	-	-	-	-	-
Conn.	1:10	16	-	-	-	-
Middle Atlantic						
N.Y.	1:80	133	4	1:320	166	3
N.J.	1:80	15	1	-	-	-
Pa.	*	8	1	*	3	1
East North Central						
Ohio	1:80	63	5	1:80	5	-
Ind.	1:80	660	13	1:80	503	1
Ill.	1:80	335	18	1:80	82	32
Mich.	1:80	56	*	-	-	-
Wisc.	1:160	878	2	-	-	-
West North Central						
Minn.	*	636	10	*	1,578	267
Ia.	1:20	55	7	1:80	-	-
Mo.	1:80	1,424	42	-	-	-
N.D.	1:80	30	-	(any titer)	25	-
S.D.	*	240	2	*	32	-
Nebr.	1:80	29	4	1:80	14	2
Kans.	1:80	253	3	-	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	*	134	16	-	-	-
D.C.	-	-	-	-	-	-
Va.	*	1,382	16	*	2,754	121
W.Va.	1:40	13	-	-	-	-
N.C.	1:160	267	17	-	-	-
S.C.	1:80	148	1	1:80	939	24
Ga.	1:40	716	21	1:80	907	62
Fla.	-	-	-	-	-	-
East South Central						
Ky.	1:80	129	8	-	-	-
Tenn.	1:40	524	12	1:40	524	8
Ala.	1:80	116	3	-	-	-
Miss.	1:80	240	1	1:160	210	38
West South Central						
Ark.	1:80	372	27	1:80	642	35
La.	*	76	11	*	751	4
Okla.	*	*	*	*	*	*
Tex.	(o)	264	1	(o)	577	8
Mountain						
Mont.	1:80	62	3	-	-	-
Ida.	*	(p)	(p)	-	-	-
Wyo.	1:80	111	8	1:80	100	8
Colo.	1:80	*	1	-	-	-
N.M.	*	24	-	*	1	-
Ariz.	-	-	-	*	3	*
Utah	1:80	1,068	13	1:80	851	-
Nev.	1:40	22	-	1:40	84	-
Pacific						
Wash.	*	29	*	*	42	*
Ore.	1:80	38	2	-	-	-
Cal.	1:80	62	1	-	-	-
Alaska	1:40	11	-	-	(n)	-
Hawaii	1:80	46	-	1:160	522	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	1:160	20	3
V.I.	-	-	-	-	-	-

TABLE 2-28. BACTERIAL SEROLOGY
(Continued)

	Antistreptolysin O			Leptospirosis		
	Minimum Significant Titer	Exams	Positives	Minimum Significant Titer	Exams	Positives
New England						
Me.	-	-	-	*	16	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	1:240	25	2	-	-	-
Middle Atlantic						
N.Y.	1:240	128	37	-	-	-
N.J.	-	-	-	(q)	72	-
Pa.	-	-	-	*	42	2
East North Central						
Ohio	-	-	-	(any)	1,060	32
Ind.	-	-	-	1:80	726	32
Ill.	-	-	-	- (r)	130	2
Mich.	1:170	207	*	1:16	222	*
Wisc.	480 Todd Units	2,915	146	1:100	1,430	27
West North Central						
Minn.	*	959	-	-	-	-
Ia.	166 Todd Units	224	77	1:40	396	20
Mo.	-	-	-	-	-	-
N.D.	200 Todd Units	464	-	-	-	-
S.D.	-	-	-	*	7	-
Nebr.	-	-	-	1:80	33	2
Kans.	-	- (n)	-	1:1	210	7
South Atlantic						
Del.	-	-	-	-	-	-
Md.	*	612	*	*	877	*
D.C.	-	-	-	-	-	-
Va.	*	921	620	*	240	3
W.Va.	166 Todd Units	33	12	*	10	-
N.C.	1:166	1,009	373	1:5	830	-
S.C.	(any)	51	-	-	260	2
Ga.	-	-	-	-	-	-
Fla.	-	-	-	-	519	8
East South Central						
Ky.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Ala.	-	-	-	-	164	-
Miss.	*	1,471	-	-	-	-
West South Central						
Ark.	*	46	-	-	-	-
La.	-	-	-	*	162	4
Okla.	*	*	*	*	*	*
Tex.	(o)	33	-	(o)	614	35
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	*	159	6
Wyo.	-	-	-	-	-	-
Colo.	350	*	12	-	-	-
N.M.	*	50	-	*	164	-
Ariz.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
Pacific						
Wash.	*	1,393	*	*	156	*
Ore.	-	-	-	-	- (s)	-
Cal.	-	-	-	- (t)	778	11
Alaska	-	-	-	-	-	-
Hawaii	-	-	-	1:100	417	37
Guam	166 Todd Units	47	31	-	-	-
P.R.	166 Todd Units	2,090	-	-	-	-
V.I.	*	46	-	-	-	-

TABLE 2-28. BACTERIAL SEROLOGY
(Continued)

	Other Bacterial Diseases	
	Exams	Positives
(States listed alphabetically)		
Ariz.	4	*
Conn.	274	85
Fla.	12	*
La.	11	-
Md.	764	*
Mich.	174	*
Nebr.	17	2
N.M.	27	-
Pa.	2	-

TABLE 2-29. MISCELLANEOUS SEROLOGY

	Infectious Mononucleosis		
	Minimum Significant Titer	Exams	Positives
New England			
Me.	*	684	197
N.H.	-	-	-
Vt.	*	1,862	*
Mass.	1:80	*	7
R.I.	1:56	23	7
Conn.	1:40	5,448	1,980
Middle Atlantic			
N.Y.	1:160	790	160
N.J.	-	-	-
Pa.	-	-	-
East North Central			
Ohio	1:40	378	143
Ind.	1:56	640	91
Ill.	(any)	1,314	222
Mich.	1:160	3,663	*
Wisc.	1:40	3,271	845
West North Central			
Minn.	*	9,540	6,658
Ia.	1:64	3,819	694
Mo.	1:1	226	46
N.D.	1:40	2,619	-
S.D.	*	467	29
Nebr.	1:56	1,590	327
Kans.	-	-	(n) -
South Atlantic			
Del.	-	-	-
Md.	*	1,208	96
D.C.	*	12	6
Va.	*	6,844	1,165
W.Va.	1:56	48	4
N.C.	1:40	469	114
S.C.	1:40	1,237	449
Ga.	1:40	2,593	467
Fla.	1:32	621	49
East South Central			
Ky.	1:56	282	33
Tenn.	1:40	131	23
Ala.	-	-	-
Miss.	1:56	360	14
West South Central			
Ark.	1:28	203	12
La.	*	78	9
Okla.	*	*	*
Tex.	(o)	158	27
Mountain			
Mont.	1:40	152	25
Ida.	-	-	-
Wyo.	- (t)	193	15
Colo.	*	*	11
N.M.	*	15	-
Ariz.	*	2	*
Utah	1:56	2,903	199
Nev.	1:80	44	-
Pacific			
Wash.	-	-	-
Ore.	*	1,133	132
Cal.	- (t)	51	9
Alaska	-	10	-
Hawaii	1:128	248	37
Guam	-	-	-
P.R.	1:112	45	17
V.I.	*	13	-

TABLE 2-29. MISCELLANEOUS SEROLOGY
(Continued)

<u>Cold Agglutinin</u>			<u>Rheumatoid Factor</u>			
<u>Minimum Significant Titer</u>	<u>Exams</u>	<u>Positives</u>	<u>Exams</u>	<u>Positives</u>		
(States listed alphabetically)			(States listed alphabetically)			
Conn.	1:64	5,221	161	Ia.	287	20
Hawaii	-	3	-	Md.	371	*
Mich.	1:10	2	*	Mich.	6	*
N.D.	*	52	-	N.Y.	272	38
Ohio	(any)	946	249	S.C.	7	-
Utah	1:32	183	37	Wisc.	2,605	173
Wisc.	1:128	1,034	140	Guam	20	1
				P.R.	1,418	149
<u>C-Reactive Protein</u>			<u>Other</u>			
<u>Exams</u>	<u>Positives</u>	<u>Exams</u>	<u>Positives</u>			
(States listed alphabetically)		(States listed alphabetically)				
Ia.	85	7	N.Y.	2,506	96	
Md.	45	*	Md.	3,401	*	
Minn.	950	-	Minn.	9,540 (u)	1,891	
N.Y.	143	21	Ohio	870 (v)	334	
N.C.	1,009	197	S.C.	637	46	
N.D.	10	-	Wisc.	1,216 (w)	331	
S.C.	8	-				
Wisc.	1,324	151				
Guam	35	13				
V.I.	40	-				

TABLE 2-30. FUNGAL SEROLOGY

	Blastomycosis		Coccidioidomycosis	
	Exams	Positives	Exams	Positives
New England				
Me.	-	-	-	-
N.H.	-	-	-	-
Vt.	203	18	203	-
Mass.	-	-	-	-
R.I.	-	-	-	-
Conn.	-	-	-	-
Middle Atlantic				
N.Y.	2,788	4	984	5
N.J.	-	-	-	-
Pa.	-	-	-	-
East North Central				
Ohio	4,163	547	1,871	19
Ind.	1,867	82	193	6
Ill.	3,963	312	3,973	23
Mich.	4,599	259	4,598	14
Wisc.	1,046	30	1,052	9
West North Central				
Minn.	2,455	143	2,332	13
Ia.	1,489	69	1,489	19
Mo.	24,865	387	6,371	13
N.D.	-	-	-	-
S.D.	186	-	147	-
Nebr.	-	-	-	-
Kans.	1,490	30	1,490	2
South Atlantic				
Del.	-	-	-	-
Md.	1,705	*	1,705	*
D.C.	-	-	-	-
Va.	1,835	68	1,835	22
W.Va.	129	5	122	1
N.C.	1,352	56	1,352	13
S.C.	1,034	58	998	-
Ga.	1,569	84	1,569	23
Fla.	-	-	-	-
East South Central				
Ky.	3,032	229	2,708	36
Tenn.	- (j)	-	- (j)	-
Ala.	2,274	49	2,274	11
Miss.	2,151	39	20	2
West South Central				
Ark.	2,311	160	2,311	9
La.	1,588	203	1,578	12
Okla.	-	-	-	-
Tex.	6,265	122	6,265	110
Mountain				
Mont.	-	-	-	-
Ida.	-	-	-	-
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	-	-	-	-
Ariz.	-	-	9,408	1,164
Utah	-	-	-	-
Nev.	-	-	-	-
Pacific				
Wash.	-	-	-	-
Ore.	476	13	486	8
Cal.	-	-	6,501	851
Alaska	-	-	-	-
Hawaii	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 2-30. FUNGAL SEROLOGY
(Continued)

	Histoplasmosis				Other	
	Mycelial		Yeast Phase		Exams	Positives
	Exams	Positives	Exams	Positives		
New England						
Me.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
Vt.	203	13	203	16	-	-
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	-	-	-	-	-	-
Middle Atlantic						
N.Y.	2,788	109	2,788	235	2,353	314
N.J.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
East North Central						
Ohio	7,774	712	4,163	687	-	-
Ind.	1,867	111	1,867	418	-	-
Ill.	5,839	248	5,839	569	-	-
Mich.	4,599	141	4,599	386	-	-
Wisc.	1,537	48	1,537	136	430	34
West North Central						
Minn.	2,456	78	2,454	519	-	-
Ia.	1,489	74	1,489	49	-	-
Mo.	13,780	147	26,661	743	-	-
N.D.	-	-	-	-	-	-
S.D.	195 (x)	-	(x)	-	2	-
Nebr.	-	-	-	-	-	-
Kans.	1,490	52	1,490	137	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	1,705	*	1,705	*	830	*
D.C.	-	-	-	-	-	-
Va.	1,828	232	1,828	232	-	-
W.Va.	150	5	150	3	-	-
N.C.	1,352	59	1,352	27	-	-
S.C.	998	210 (x)	998	(x)	3,072 (y)	53
Ga.	1,569	47	1,569	89	-	-
Fla.	-	-	-	-	-	-
East South Central						
Ky.	3,020	337	3,025	645	-	-
Tenn.	3,479	540	3,479	463	(j)	-
Ala.	2,274	49	2,274	55	10	-
Miss.	2,151	553	2,151	*	-	-
West South Central						
Ark.	2,311	74	2,311	157	298	8
La.	-	-	2,165	154	-	-
Okla.	-	-	-	-	-	-
Tex.	6,265	188	6,265	374	-	-
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
Ariz.	450	40	450	60	12	6
Utah	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
Pacific						
Wash.	-	-	-	-	-	-
Ore.	476	3	476	16	-	-
Cal.	6,501	325	6,501	1,011	-	-
Alaska	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	5	5	-	-	-	-

TABLE 2-31. PARASITOLOGICAL SEROLOGY

	Trichinosis		Toxoplasmosis		Other	
	Exams	Positives	Exams	Positives	Exams	Positives
New England						
Me.	-	-	1,725	297	-	-
N.H.	-	-	-	-	-	-
Vt.	7	-	167	22	-	-
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	85	8	1,489	657	-	-
Middle Atlantic						
N.Y.	-	-	2,153	416	-	-
N.J.	142	12	1,234	129	-	-
Pa.	44	8	50	7	86	11
East North Central						
Ohio	-	-	2,180	765	-	-
Ind.	118	-	554	181	-	-
Ill.	-	-	1,789	359	-	-
Mich.	92	*	914	231	-	-
Wisc.	-	-	6,431	1,240	-	-
West North Central						
Minn.	-	-	948	256	426	34
Ia.	39	-	2,778	554	-	-
Mo.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
S.D.	11	-	32	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	144	*	6,306	*	221	*
D.C.	-	-	49	-	-	-
Va.	305	6	1,000	601	-	-
W.Va.	12	-	113	11	-	-
N.C.	-	-	1,841	257	-	-
S.C.	-	-	943	58	-	-
Ga.	-	-	1,107	99	-	-
Fla.	-	-	505	184	-	-
East South Central						
Ky.	-	-	531	146	-	-
Tenn.	-	-	-	-	-	-
Ala.	-	-	799	56	-	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	11	3	105	33	68	2
La.	(j)	(j)	385	348	-	-
Okla.	-	-	-	-	-	-
Tex.	-	-	4,130	776	313 (z)	57
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	-	-	-	-
N.M.	-	-	-	-	-	-
Ariz.	-	-	844	68	6	-
Utah	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
Pacific						
Wash.	-	-	-	-	-	-
Ore.	28	1	27,923	2,098	-	-
Cal.	308	7	2,995	911	-	-
Alaska	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	8	2	-	-

TABLES 2-25 - 2-31. FOOTNOTES

- (a) Weakly reactive or above.
- (b) Run in comparison testing with VDRL.
- (c) Test evaluation.
- (d) Includes 76 specimens, 76 exams, and 17 positives of the Direct Fluorescent Antibody for Treponema Pallidum (DFATP) test.
- (e) Included with Blood, Screening, VDRL positives.
- (f) Includes 3 specimens, 3 exams, no positives, Lesion Smear, FADF.
- (g) Includes 214 Fluorescent Antibody Darkfield tests, 11 positives.
- (h) The exams listed in this table have mostly been discontinued.
- (i) Bacterial and Miscellaneous included together.
- (j) Referred to CDC.
- (k) Includes light microscopy, 8 exams, 3 positives, not shown in further breakdown.
- (l) Includes 571 Gimenez Stains (RMSF) not shown in further breakdown.
- (m) Tests on paired acute and convalescent specimens counted as one examination.
- (n) Discontinued.
- (o) Paired sera with fourfold titer change.
- (p) Brucellosis and Tularemia included together.
- (q) Slide agglutination test - quantitative done on all specimens giving a minimal of 25% agglutination.
- (r) Screen agglutination. Referred out for confirmation and titer.
- (s) Paired sera sent to CDC.
- (t) Qualitative only.
- (u) Hetrois.
- (v) Strep. MG agglutination.
- (w) Mycoplasma pneumoniae.
- (x) Yeast Phase included with Mycelial.
- (y) Histo - Latex, 1,227 exams; Immunodiffusion, 1,408 exams; Aspergillosis, 57 exams, 8 positives; Cryptococcus, 256 exams, 11 positives; Direct FA for Fungi, 124 exams, 34 positives.
- (z) Chagas (wildlife).

TABLE 2-32. VIRAL AND RICKETTSIAL SEROLOGY: COMPLEMENT FIXATION

	Mumps		Respiratory		Influenza A	
	Exams	Positives	Exams	Positives	Exams	Positives
New England						
Me.	3,824 (a)	*	(a)	*	(a)	*
N.H.	-	-	-	-	-	-
Vt.	284	*	1,506	*	270	*
Mass.	143	30	2,731	146	527	13
R.I.	-	-	-	-	-	-
Conn.	5,262	24	26,249	94	5,245	103
Middle Atlantic						
N.Y.	13,199 (a)	*	(a)	*	(a)	*
N.J.	4,576	8	31,528	77	6,456	27
Pa.	932	9	965	14	1,201	13
East North Central						
Ohio	2,000	777	4,675	1,443	1,389	544
Ind.	570	21	6,141	49	871	12
Ill.	2,109	39	14,653	200	3,379	28
Mich.	868	17	6,106	85	956	10
Wisc.	1,062	12	2,262	9	2,260	32
West North Central						
Minn.	915	21	2,709	86	1,251	14
Ia.	2,412	666	6,266	2,182	3,075	1,417
Mo.	424	5	3,823	9	-	-
N.D.	39	20	227	58	280	60
S.D.	6	2	7	2	28 (b)	8
Nebr.	-	-	-	-	-	-
Kans.	1,033	240	838	375	396	131
South Atlantic						
Del.	-	-	-	-	-	-
Md.	705	*	116	*	474	*
D.C.	-	-	-	-	-	-
Va.	4,184 (a)	1,273 (a)	(a)	(a)	(a)	(a)
W.Va.	93	8	64	-	37	4
N.C.	476	91	5,225	981	815	135
S.C.	501	70	1,013	295	252	71
Ga.	568	102	3,650	1,484	718	46
Fla.	1,046	249	7,075	470	1,814	644
East South Central						
Ky.	307	9	766	6	282	2
Tenn.	750	9	2,230	20	381	4
Ala.	1,806	224	5,422	465	1,490	142
Miss.	-	-	-	-	-	-
West South Central						
Ark.	107	22	686	34	-	-
La.	162	67	146	58	203	60
Okla.	257	36	168	16	-	-
Tex.	113	35	-	-	567	155
Mountain						
Mont.	37	2	327	12	190	-
Ida.	7,877 (a)	594 (a)	(a)	(a)	(a)	(a)
Wyo.	-	-	-	-	-	-
Colo.	296	16	151	2	-	-
N.M.	61	*	60	*	81	*
Ariz.	-	-	3,315	9	-	-
Utah	58	9	386	62	104	3
Nev.	-	-	-	-	-	-
Pacific						
Wash.	430	15	1,284	22	638	3
Ore.	720	81	1,845	115	605	4
Cal.	1,063	83	7,900	230	1,708	182
Alaska	-	-	-	-	-	-
Hawaii	298	10	1,100	6	300	3
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-32. VIRAL AND RICKETTSIAL SEROLOGY: COMPLEMENT FIXATION
(Continued)

	Influenza B		Arboviruses		Enteroviruses	
	Exams	Positives	Exams	Positives	Exams	Positives
New England						
Me.	(a)	*	(a)	*	(a)	*
N.H.	-	-	-	-	-	-
Vt.	270	*	530	*	318	*
Mass.	527	2	206	2	44	1
R.I.	-	-	-	-	-	-
Conn.	5,245	36	5,460	-	-	-
Middle Atlantic						
N.Y.	(a)	*	(a)	*	(a)	*
N.J.	6,424	46	6,210	3	-	-
Pa.	331	14	4,330	-	-	-
East North Central						
Ohio	1,378	317	107	-	2,759	24
Ind.	872	30	1,580	6	1,555	5
Ill.	3,419	43	4,409	1	3,205	-
Mich.	952	31	113	-	84	-
Wisc.	2,665	82	2,263	28	18	-
West North Central						
Minn.	1,257	68	369	14	-	-
Ia.	3,075	897	1,885	23	-	-
Mo.	-	-	7,772	3	1,590	-
N.D.	280	6	24	-	-	-
S.D.	-	-	1	-	8	2
Nebr.	-	-	-	-	-	-
Kans.	399	71	703	18	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	474	*	13	*	351	*
D.C.	-	-	-	-	-	-
Va.	(a)	(a)	(a)	(a)	(a)	(a)
W.Va.	37	-	278	3	42	-
N.C.	736	56	845	15	1,737	33
S.C.	271	35	410	-	222	12
Ga.	715	16	765	13	211	-
Fla.	1,772	189	567	6	403	28
East South Central						
Ky.	301	-	84	-	164	-
Tenn.	381	4	1,044	-	-	-
Ala.	1,490	15	3,456	2	706	1
Miss.	-	-	-	-	-	-
West South Central						
Ark.	-	-	185	2	18	-
La.	203	35	-	-	-	-
Okla.	-	-	128	8	84	4
Tex.	581	4	502	36	-	-
Mountain						
Mont.	190	9	192	10	-	-
Ida.	(a)	(a)	(a)	(a)	(a)	(a)
Wyo.	-	-	-	-	-	-
Colo.	-	-	265	29	78	-
N.M.	81	*	268	*	61	*
Ariz.	-	-	-	-	210	3
Utah	111	13	104	14	-	-
Nev.	-	-	-	-	-	-
Pacific						
Wash.	638	18	534	-	-	-
Ore.	604	30	219	2	631	3
Cal.	1,698	19	2,065	8	-	-
Alaska	-	-	-	-	-	-
Hawaii	300	8	-	-	60	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-32. VIRAL AND RICKETTSIAL SEROLOGY: COMPLEMENT FIXATION
(Continued)

	Measles		Other	
	Exams	Positives	Exams	Positives
New England				
Me.	(a)	*	(a)	*
N.H.	-	-	-	-
Vt.	105	*	517	*
Mass.	249	32	2,308	135
R.I.	-	-	-	-
Conn.	1,118	13	10,283	77
Middle Atlantic				
N.Y.	(a)	*	(a)	*
N.J.	2,664	30	428,334 (c)	576
Pa.	510	19	1,776	19
East North Central				
Ohio	272	144	2,603	766
Ind.	243	3	2,337	41
Ill.	-	-	314	21
Mich.	997	24	5,614	69
Wisc.	1,063	6	9,594	74
West North Central				
Minn.	-	-	2,303	25
Ia.	95	47	4,132	1,421
Mo.	32	-	2,814	9
N.D.	-	-	54	-
S.D.	4	-	85	5
Nebr.	-	-	-	-
Kans.	137	43	1,449	454
South Atlantic				
Del.	-	-	-	-
Md.	320	*	11,358	*
D.C.	-	-	1,059	493
Va.	(a)	(a)	(a)	(a)
W.Va.	-	-	45	1
N.C.	232	50	166	32
S.C.	340	107	1,616	449
Ga.	70	-	3,131	1,771
Fla.	359	124	1,958	549
East South Central				
Ky.	40	1	1,097	7
Tenn.	17	-	1,084	9
Ala.	376	82	3,293	341
Miss.	-	-	-	-
West South Central				
Ark.	289	98	-	-
La.	80	37	2,116	633
Okla.	262	5	601	43
Tex.	92	21	-	-
Mountain				
Mont.	442	133	212	10
Ida.	(a)	(a)	(a)	(a)
Wyo.	-	-	-	-
Colo.	56	2	1,423	64
N.M.	24	*	1,229	*
Ariz.	-	-	1,731	20
Utah	12	-	345	94
Nev.	-	-	-	-
Pacific				
Wash.	56	1	524	14
Ore.	441	24	3,163	321
Cal.	610	8	3,800	170
Alaska	-	-	-	-
Hawaii	306	1	1,310	16
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 2-33. VIRAL AND RICKETTSIAL SEROLOGY: HI AND/OR HADI

	Rubella		Influenza A		Influenza B	
	Exams	Positives	Exams	Positives	Exams	Positives
New England						
Me.	19,289	*	-	-	-	-
N.H.	-	-	-	-	-	-
Vt.	5,355	4,681	-	-	-	-
Mass.	3,957 (d)	26	63	11	63	2
R.I.	35,228	28,054	-	-	-	-
Conn.	2,266	55	362	99	362	24
Middle Atlantic						
N.Y.	20,197 (e)	*	(e)	*	(e)	*
N.J.	91,832	20	7,711	16	13,273	34
Pa.	437	1	12	1	12	11
East North Central						
Ohio	6,508	5,085	-	-	-	-
Ind.	263	6	-	-	-	-
Ill.	846	5	-	-	-	-
Mich.	28,722	22,457 (f)	-	-	-	-
Wisc.	3,398	20	162	8	556	57
West North Central						
Minn.	30,874	7	-	-	-	-
Ia.	43,887	34,069	-	-	-	-
Mo.	139,020	1	1,620	1	2,510	23
N.D.	16,275	*	-	-	-	-
S.D.	12,359	*	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	9,834	8,469	-	-	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	44,144	*	135	*	135	*
D.C.	516	*	228	165	237	162
Va.	793 (e)	573 (e)	(e)	(e)	(e)	(e)
W.Va.	6,835	5,712	-	-	-	-
N.C.	44,046	39,500	1,073	390	1,069	386
S.C.	59,044	49,754	36	30	103	22
Ga.	2,911	2,421	-	-	-	-
Fla.	903	675	-	-	-	-
East South Central						
Ky.	7,444	6,648	-	-	-	-
Tenn.	20,151	18,156	322	6	322	3
Ala.	21,263	17,537	-	-	-	-
Miss.	1,678	*	-	-	-	-
West South Central						
Ark.	133	90	-	-	-	-
La.	21,841	18,064	90	36	90	10
Okla.	411	*	428 (g)	13 (g)	(g)	(g)
Tex.	2,210	1,799	147	147	-	-
Mountain						
Mont.	18,278	16,688	21	-	21	8
Ida.	2,236	*	16 (g)	*	(g)	*
Wyo.	7,492	6,836	-	-	-	-
Colo.	53,352	46,643 (h)	249	28	249	16
N.M.	-	-	1,288	*	-	-
Ariz.	4,827	3,165	-	-	-	-
Utah	9,534	7,669	82	-	66	7
Nev.	812	131	-	-	-	-
Pacific						
Wash.	13,321	-	-	-	-	-
Ore.	43,094	35,618	168	7	168	18
Cal.	1,550	40	146	24	16	3
Alaska	8,579	7,321	75	-	75	-
Hawaii	244	7	182	-	182	3
Guam	-	-	-	-	-	-
P.R.	270	214	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-33. VIRAL AND RICKETTSIAL SEROLOGY: HI AND/OR HADI
(Continued)

	Measles		Other	
	Exams	Positives	Exams	Positives
New England				
Me.	-	-	-	-
N.H.	-	-	-	-
Vt.	-	-	-	-
Mass.	17	7	-	-
R.I.	-	-	-	-
Conn.	-	-	-	-
Middle Atlantic				
N.Y.	(e)	*	(e)	*
N.J.	-	-	31,234	4
Pa.	-	-	-	-
East North Central				
Ohio	-	-	3,597	-
Ind.	-	-	-	-
Ill.	444	73	315	-
Mich.	-	-	-	-
Wisc.	124	7	237	16
West North Central				
Minn.	-	-	-	-
Ia.	-	-	3,060	252
Mo.	-	-	-	-
N.D.	-	-	-	-
S.D.	-	-	-	-
Nebr.	-	-	-	-
Kans.	-	-	-	-
South Atlantic				
Del.	-	-	-	-
Md.	672	*	807	*
D.C.	85	52	600	240
Va.	(e)	(e)	(e)	(e)
W.Va.	-	-	-	-
N.C.	292	134	681	41
S.C.	78	41	121	45
Ga.	24	12	132	30
Fla.	-	-	5,189	170
East South Central				
Ky.	-	-	-	-
Tenn.	-	-	-	-
Ala.	-	-	246	3
Miss.	-	-	-	-
West South Central				
Ark.	141	84	-	-
La.	-	-	3,137 (i)	30
Okla.	-	-	215	12
Tex.	-	-	585	63
Mountain				
Mont.	-	-	-	-
Ida.	-	-	96	8
Wyo.	-	-	-	-
Colo.	95	9	-	-
N.M.	-	-	-	-
Ariz.	172	4	-	-
Utah	-	-	-	-
Nev.	-	-	-	-
Pacific				
Wash.	-	-	-	-
Ore.	-	-	-	-
Cal.	12	3	-	-
Alaska	-	-	75	2
Hawaii	-	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 2-34. VIRAL AND RICKETTSIAL SEROLOGY: NEUTRALIZATION AND FA

	Neutralization		FA	
	Exams	Positives	Exams	Positives
New England				
Me.	-	-	-	-
N.H.	-	-	-	-
Vt.	-	-	-	-
Mass.	264	21	273	19
R.I.	-	-	-	-
Conn.	352	27	-	-
Middle Atlantic				
N.Y.	3,403	*	196	*
N.J.	138,260 (j)	735	664	66
Pa.	258	*	-	-
East North Central				
Ohio	-	-	-	-
Ind.	18	6	-	-
Ill.	-	-	-	-
Mich.	320	*	-	-
Wisc.	116	15	137	70
West North Central				
Minn.	-	-	2,312	57
Ia.	7,294	2,020	-	-
Mo.	-	-	-	-
N.D.	-	-	-	-
S.D.	-	-	-	-
Nebr.	-	-	-	-
Kans.	20	10	-	-
South Atlantic				
Del.	-	-	-	-
Md.	5,073	*	981	*
D.C.	82	40	90	44
Va.	-	-	-	-
W.Va.	-	-	719	51
N.C.	4,448	729	-	-
S.C.	-	-	190	14
Ga.	8	-	-	-
Fla.	27	9	-	-
East South Central				
Ky.	-	-	-	-
Tenn.	1,129	-	-	-
Ala.	-	-	-	-
Miss.	-	-	-	-
West South Central				
Ark.	-	-	-	-
La.	-	-	-	-
Okla.	-	-	-	-
Tex.	-	-	362	135
Mountain				
Mont.	336	-	-	-
Ida.	-	-	-	-
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	-	-	-	-
Ariz.	-	-	-	-
Utah	6	1	-	-
Nev.	-	-	-	-
Pacific				
Wash.	-	-	479	6
Ore.	10	10	-	-
Cal.	1,920	72	725	38
Alaska	210	6	20	3
Hawaii	15	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 2-35. VIRAL AND RICKETTSIAL SEROLOGY: AUSTRALIA ANTIGEN

	Radioimmunoassay		Counterelectrophoresis		Agar Gel Diffusion	
	Exams	Positives	Exams	Positives	Exams	Positives
New England						
Me.	-	-	293	*	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	-	-	1,683	161	1,683	177
Middle Atlantic						
N.Y.	350	196	-	-	-	-
N.J.	61,000	1,200	-	-	1,134	324
Pa.	10	5	-	-	-	-
East North Central						
Ohio	-	-	-	-	-	-
Ind.	-	-	-	-	-	-
Ill.	2,087	185	-	-	-	-
Mich.	-	-	-	-	-	-
Wisc.	1,546	173	952	140	-	-
West North Central						
Minn.	-	-	617	71	-	-
Ia.	574	77	-	-	-	-
Mo.	-	-	160	20	-	-
N.D.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	2,603	*	2,857	*	-	-
D.C.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	78	29	-	-	-	-
S.C.	-	-	321	64	-	-
Ga.	-	-	645	66 (k)	-	-
Fla.	-	-	-	-	-	-
East South Central						
Ky.	-	-	-	-	-	-
Tenn.	-	-	-	-	-	-
Ala.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	-	-	-	-	-	-
La.	-	-	-	-	-	-
Okla.	-	-	-	-	-	-
Tex.	-	-	545	71	-	-
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	-	-	-	-
N.M.	-	-	-	-	199	*
Ariz.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
Pacific						
Wash.	-	-	-	-	-	-
Ore.	-	-	-	-	-	-
Cal.	372	36	293	32	91	24
Alaska	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	13	5	10	-

TABLE 2-35. VIRAL AND RICKETTSIAL SEROLOGY: AUSTRALIA ANTIGEN
(Continued)

	Complement Fixation		Other		Type of Test
	Exams	Positives	Exams	Positives	
New England					
Me.	-	-	-	-	
N.H.	-	-	-	-	
Vt.	-	-	-	-	
Mass.	-	-	-	-	
R.I.	-	-	-	-	
Conn.	-	-	-	-	
Middle Atlantic					
N.Y.	-	-	-	-	
N.J.	145,597	873	12,500	250	RPHA Immunelectroosmophoresis, 35,334 exams, 1,212 positives
Pa.	-	-	-	-	
East North Central					
Ohio	-	-	-	-	
Ind.	-	-	-	-	
Ill.	193	25	-	-	
Mich.	-	-	240	19	Rheophoresis
Wisc.	-	-	-	-	
West North Central					
Minn.	-	-	63	62	Immunodiffusion
Ia.	-	-	-	-	
Mo.	-	-	158	11	Immunodiffusion
N.D.	-	-	-	-	
S.D.	-	-	2	-	*
Nebr.	-	-	-	-	
Kans.	48	8	-	-	
South Atlantic					
Del.	-	-	-	-	
Md.	2,196	*	3,983 (1)	*	RPHA (Card Test)
D.C.	-	-	-	-	
Va.	-	-	-	-	
W.Va.	-	-	-	-	
N.C.	-	-	-	-	
S.C.	-	-	320	67	Immunodiffusion
Ga.	-	-	-	-	
Fla.	199	37	40	6	Counterimmunolectrophoresis
East South Central					
Ky.	-	-	-	-	
Tenn.	-	-	-	-	
Ala.	-	-	347	48	Counterimmunolectrophoresis
Miss.	-	-	-	-	
West South Central					
Ark.	8	-	-	-	
La.	-	-	-	-	
Okla.	-	-	-	-	
Tex.	-	-	-	-	
Mountain					
Mont.	-	-	- (m)	-	
Ida.	-	-	-	-	
Wyo.	-	-	-	-	
Colo.	-	-	-	-	
N.M.	-	-	-	-	
Ariz.	-	-	-	-	
Utah	-	-	-	-	
Nev.	-	-	-	-	
Pacific					
Wash.	-	-	-	-	
Ore.	-	-	216	64	Rheophoresis
Cal.	50	10	-	-	
Alaska	-	-	-	-	
Hawaii	68	2	-	-	
Guam	-	-	-	-	
P.R.	-	-	-	-	
V.I.	-	-	-	-	

TABLES 2-32 - 2-35. FOOTNOTES

- (a) Complement fixation reported as one total which is shown under "Mumps."
- (b) Includes all Influenza exams.
- (c) Includes routine diagnostics, 243,246 exams, 567 positives.
- (d) Includes Rubella, diagnostic-paired serums, 258; Rubella Immunity Tests, 3,699.
- (e) HI and/or HAdI reported as one total which is shown under "Rubella."
- (f) $\geq 1:10$.
- (g) Influenza A and B included together.
- (h) Titers $> 1:20$.
- (i) This figure includes Bird Bloods, 2,632 exams, 30 positives.
- (j) Represents routine diagnostics, 98,025 exams, 721 positives; special project, 40,235 exams, 14 positives.
- (k) Positives confirmed by immunodiffusion.
- (l) Experimental.
- (m) Referred to CDC Phoenix Station - several procedures are used, but all specimens are tested by HA.

UNIVERSITY OF ILLINOIS - URBANA - CHAMPAIGN

TABLE 2-36. HEMATOLOGY OR BLOOD BANK: TOTAL SPECIMENS AND EXAMINATIONS

	Hematology		Immunohematology		Hemoglobinopathy	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	-	-	7,479	7,479	-	-
N.H.	4,672	9,140	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	1,585	1,985	-	-	1,237	2,349
Conn.	8,097	26,886	18	40	8,814	11,069
Middle Atlantic						
N.Y.	2,264	510	2,634	8,867 (a)	-	51,525
N.J.	-	-	126 (b)	252	-	-
Pa.	289	484	71	190	-	-
East North Central						
Ohio	-	-	1,031	2,062	3,623	3,623
Ind.	-	-	-	-	-	-
Ill.	3,122	3,122	6	6	(c)	2,005
Mich.	13,736	28,809	6,448	15,587	-	-
Wisc.	236	656	16,822	18,813	411	893
West North Central						
Minn.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
N.D.	3,000	4,684	1,444	3,732	-	-
S.D.	-	-	5,863	5,863	-	-
Nebr.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
South Atlantic						
Del.	1,120	2,050	-	-	1,040	973
Md.	42,195	87,083	16,245	22,557	33,417	40,614
D.C.	17,852	53,556	3,152	7,001	6,668	6,668
Va.	-	-	13,116	13,056	47,223	47,206
W.Va.	233	700	-	-	394	788
N.C.	993	993	-	-	1,364	2,810
S.C.	40,917	64,678	14,252	20,011	40,224	52,220
Ga.	-	-	10,770	12,137	30,544	35,465
Fla.	61,813	61,813	19,387	19,387	26,631	33,255
East South Central						
Ky.	1,317	1,317	9,719	20,042	15,147	15,147
Tenn.	-	-	19,849	39,522	169 (d)	169
Ala.	-	-	10,823	11,440	68,773	85,401
Miss.	97,990 (e)	83,034	(e)	14,956	37,814	37,814
West South Central						
Ark.	20,674 (e)	19,337	(e)	5,317	11,669	11,532
La.	662	662	-	-	32,838	32,838
Okla.	80 (f)	211	3,707	6,325	14,441	18,169
Tex.	36,110	79,420	5,334	9,552	29,337	58,465
Mountain						
Mont.	-	-	-	-	-	-
Ida.	2,561	3,479	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	18,479	18,479	-	-
N.M.	-	-	3,460	3,460	233	233
Ariz.	-	-	-	-	3,557	3,961
Utah	605 (g)	1,818	-	-	-	-
Nev.	7,371	8,611	791	1,582	383	744
Pacific						
Wash.	(h)	3,697	-	-	8,428	9,011
Ore.	-	-	-	-	-	-
Cal.	48 (i)	594	-	-	-	-
Alaska	-	-	9,586	9,586	-	-
Hawaii	5	5	1,600	3,200	-	-
Guam	8,050	15,921	677	1,354	-	-
P.R.	30,317	77,617	3,959	8,325	708	708
V.I.	-	-	-	-	-	-

TABLE 2-37. HEMATOLOGY EXAMINATIONS

	Hematocrit	Hemoglobin	Cell Counts	Sedimentation Rate	Other
New England					
Me.	-	-	-	-	-
N.H.	4,464	4,558	18	81	Smears, "L-E" cells, 19
Vt.	-	-	-	-	-
Mass.	-	-	-	-	-
R.I.	462	1,519	4	-	-
Conn.	5,786	8,026	13,047	27	-
Middle Atlantic					
N.Y.	110	152	79	-	Differentials, 108; coagulation tests, 30; bone marrow, 31
N.J.	-	-	-	-	-
Pa.	132	157	195	-	-
East North Central					
Ohio	-	-	-	-	-
Ind.	-	-	-	-	-
Ill.	1,433	1,689	-	-	-
Mich.	7,333	12,713	7,597	1,166	-
Wisc.	100	99	200	24	Smears, "L-E" cells, 19; miscellaneous smears, 214
West North Central					
Minn.	-	-	-	-	-
Ia.	-	-	-	-	-
Mo.	-	-	-	-	-
N.D.	993	1,537	1,749	377	Smears, "L-E" cells, 28
S.D.	-	-	-	-	-
Nebr.	-	-	-	-	-
Kans.	-	-	-	-	-
South Atlantic					
Del.	961	967	122	-	-
Md.	34,746	32,457	14,622	1,313	Smears, "L-E" cells, 5; other, 3,940
D.C.	17,852	17,852	17,852	-	-
Va.	-	-	-	-	-
W.Va.	233	233	233	1	-
N.C.	977	16	-	-	-
S.C.	25,920	24,320	13,201	1,236	Smears, sickle cells, 1
Ga.	-	-	-	-	-
Fla.	5,295	56,333	155	10	Smears, sickle cells, 20
East South Central					
Ky.	1,317	-	-	-	-
Tenn.	-	-	-	-	-
Ala.	-	-	-	-	-
Miss.	2,076	69,719	11,239	-	-
West South Central					
Ark.	19,037	32	268	-	-
La.	-	250	300	19	PCV, 93
Okla.	75	50	86	-	-
Tex.	7,200	65,020	7,200	-	-
Mountain					
Mont.	-	-	-	-	-
Ida.	2,513	37	-	912	Smears, sickle cells, 17
Wyo.	-	-	-	-	-
Colo.	-	-	-	-	-
N.M.	-	-	-	-	-
Ariz.	-	-	-	-	-
Utah	363	363	896	196	-
Nev.	6,562	82	1,514	11	Supplementary, 442
Pacific					
Wash.	3,697	-	-	-	-
Ore.	-	-	-	-	-
Cal.	116	296	182	-	-
Alaska	-	-	-	-	-
Hawaii	-	-	5	-	-
Guam	6,936	6,248	1,257	64	Other, 1,416
P.R.	27,051	26,921	22,955	510	Smears: "L-E" cells, 140; sickle cells, 40
V.I.	-	-	-	-	-

TABLE 2-38. IMMUNOHEMATOLOGY EXAMINATIONS

	Blood Group (ABO)	Blood Type (Rh)	Other Blood Factors	Rh Antibody	Other Antibodies
New England					
Me.	-	6,832	9	-	638
N.H.	-	-	-	-	-
Vt.	-	-	-	-	-
Mass.	-	-	-	-	-
R.I.	-	-	-	-	-
Conn.	18	18	-	4	-
Middle Atlantic					
N.Y.	2,634	2,634	215	-	3,217 (j)
N.J.	126	126	-	-	-
Pa.	108	82	-	-	-
East North Central					
Ohio	1,031	1,031	1,031	-	-
Ind.	-	-	-	-	-
Ill.	-	6	-	-	-
Mich.	6,447	8,803	199	138	-
Wisc.	1,881	10,253	110	6,569	-
West North Central					
Minn.	-	-	-	-	-
Ia.	-	-	-	-	-
Mo.	-	-	-	-	-
N.D.	2,288	1,444	-	-	-
S.D.	-	5,863	-	-	-
Nebr.	-	-	-	-	-
Kans.	-	-	-	-	-
South Atlantic					
Del.	-	-	-	-	-
Md.	2,902	15,630	166	3,473	386 (k)
D.C.	3,152	3,152	222	475	-
Va.	5,634	5,634	-	962	826
W.Va.	-	-	-	-	-
N.C.	-	-	-	-	-
S.C.	2,205	17,264	-	-	542
Ga.	-	10,679	-	1,406	52
Fla.	449	17,522	1,416	-	-
East South Central					
Ky.	602	-	-	8,799	10,641 (1)
Tenn.	19,475	19,849	-	198	-
Ala.	-	10,739	-	701	-
Miss.	1,529	13,427	-	-	-
West South Central					
Ark.	2,343	2,564	238	172	-
La.	-	-	-	-	-
Okla.	2,687	3,638	-	-	-
Tex.	5,308	4,218	-	26	-
Mountain					
Mont.	-	-	-	-	-
Ida.	-	-	-	-	-
Wyo.	-	-	-	-	-
Colo.	-	18,479	-	-	-
N.M.	1,677	1,783	-	-	-
Ariz.	-	-	-	-	-
Utah	-	-	-	-	-
Nev.	791	791	-	-	-
Pacific					
Wash.	-	-	-	-	-
Ore.	-	-	-	-	-
Cal.	-	-	-	-	-
Alaska	4,281	5,305	-	-	-
Hawaii	1,600	1,600	-	-	-
Guam	677	677	-	-	-
P.R.	3,959	3,959	398	9	-
V.I.	-	-	-	-	-

TABLE 2-39. HEMOGLOBINOPATHY EXAMINATIONS

	<u>Hemoglobin Electrophoresis</u>		<u>Solubility Testing</u>		<u>Other</u>	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	1,237	1,112	-	1,112	-	125 (m)
Conn.	8,814	9,491	-	720	-	858 (n)
Middle Atlantic						
N.Y.	*	41,838	*	3,010	*	6,677 (o)
N.J.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
East North Central						
Ohio	3,453	3,453	170	170	-	-
Ind.	-	-	-	-	-	-
Ill.	1,707	1,707	298	298	-	-
Mich.	-	-	-	-	-	-
Wisc.	411 (p)	75	(p)	409	(p)	409 (q)
West North Central						
Minn.	-	-	-	-	-	-
Ia.	-	-	-	-	-	-
Mo.	-	-	-	-	-	-
N.D.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
South Atlantic						
Del.	609	542	431	431	-	-
Md.	33,417	33,417	-	4,251	-	2,946 (r)
D.C.	-	-	6,668 (s)	6,668	-	-
Va.	44,066	44,049	3,157	3,157	-	-
W.Va.	394	394	-	394	-	-
N.C.	1,364	1,676	-	1,134	-	-
S.C.	40,224	40,224	-	5,584	-	6,412 (t)
Ga.	30,544	31,583	-	3,882	-	-
Fla.	24,311	30,935	2,320 (u)	2,320	-	-
East South Central						
Ky.	11,661	11,661	1,398	1,398	2,088	2,088 (v)
Tenn.	169	169	-	-	-	-
Ala.	68,773	77,087	-	545	-	7,769 (w)
Miss.	37,814	37,814	-	-	-	-
West South Central						
Ark.	11,669	11,532	-	-	-	-
La.	32,838	32,838	-	-	-	-
Okla.	14,441	16,006	-	1,565	-	598 (x)
Tex.	28,910	57,820	427	645	-	-
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	-	-	-	-
N.M.	233	233	-	-	-	-
Ariz.	3,557	3,961	-	-	-	-
Utah	-	-	-	-	-	-
Nev.	-	-	383	383	-	361
Pacific						
Wash.	8,428	8,531	-	480	-	-
Ore.	-	-	-	-	-	-
Cal.	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	140	140	120	120	448	448 (y)
V.I.	-	-	-	-	-	-

TABLES 2-36 - 2-39. FOOTNOTES

- (a) Includes the following clinical immunology not shown in further breakdown: serum electrophoresis, 58; total protein, 64; immunoglobulins, quantitative, 45.
- (b) State police only. No diagnostic services provided.
- (c) Specimens counted under Hematology.
- (d) Preliminary stages of new program.
- (e) Hematology and Immunoematology included together.
- (f) Performed in branch laboratories only.
- (g) Utah Community Studies Project (Pesticides).
- (h) Included under Hemoglobinopathy.
- (i) The Clinical Chemistry Laboratory in the California Department of Health generally does not accept patients' specimens for analysis for diagnostic purposes, although, blood glucose testing is performed for a diabetes detection program involving certain sparsely-populated California counties which contract for public health services with the State Department of Health. Except for blood glucose, the data in these tables represents specimens analyzed and examinations performed for the following purposes: (1) Review and evaluation of State-approved proficiency testing services for licensed clinical laboratories and physicians' office laboratories; (2) monitoring of proficiency testing specimens produced by the Clinical Chemistry Laboratory for newborn PKU-testing laboratories and forensic alcohol laboratories; (3) acting as a reference laboratory for federal proficiency testing programs and proficiency testing programs conducted by other states; and (4) evaluation of breath alcohol testing instruments for use in California.
- (j) Includes antibody screening, 2,634.
- (k) Includes antibody titers, 344.
- (l) Atypical, 8,799; D^u detection, 1,842.
- (m) Hemoglobin electrophoresis confirmatory.
- (n) Citrate agar electrophoresis, hemoglobin A₂ assay.
- (o) Fetal hemoglobin, quantitative, 166; hemoglobin A₂, quantitative, 2,535; Hepatitis-associated antigen, 1,988; Hepatitis-associated antibody, 1,988.
- (p) All hemoglobinopathy specimens included together.
- (q) Smears, sickle cell.
- (r) A₂, 1,211; Hb electrophoresis (citrate agar), 1,689; other quantitation, 46.
- (s) Basic solubility testing is performed in field labs which are not supervised by central lab at this time. Specimens which were turbid (about 7% of total) submitted to central lab for repeat work.
- (t) Densitometer scan, 5,594; citrate agar, 777; alkali denaturation, 14; A₂ quantitation, 27.
- (u) Does not include specimens tested in county health department clinics.
- (v) Citrate agar electrophoresis, 1,398; densitometry, 690.
- (w) Citrate agar, 7,685; globin electrophoresis, 84.
- (x) Citrate electrophoresis.
- (y) Meta-bisulfite, 440; alkali denaturation test, 8.

TABLE 2-40. PATHOLOGIC ANATOMY

	Total Specimens	Total Exams	Cytology, Exfoliative		
			Specimens	Exams	Positives
New England					
Me.	-	-	-	-	-
N.H.	-	-	-	-	-
Vt.	-	-	-	-	-
Mass.	-	-	-	-	-
R.I.	-	-	-	-	-
Conn.	-	-	-	-	-
Middle Atlantic					
N.Y.	14,905	16,065	11,549	12,709	210
N.J.	-	-	-	-	-
Pa.	-	-	-	-	-
East North Central					
Ohio	-	-	-	-	-
Ind.	-	-	-	-	-
Ill.	-	-	-	-	-
Mich.	-	-	-	-	-
Wisc.	167,584	186,926	152,625	168,543	1,317
West North Central					
Minn.	185	1,110	-	-	-
Ia.	-	-	-	-	-
Mo.	-	-	-	-	-
N.D.	-	-	-	-	-
S.D.	-	-	-	-	-
Nebr.	-	-	-	-	-
Kans.	-	-	-	-	-
South Atlantic					
Del.	41,246	41,246	-	-	-
Md.	53,059	53,884	53,059	53,884	3,236 (a)
D.C.	52,745	52,745	52,326	52,326	160
Va.	-	-	-	-	-
W.Va.	32,169	63,111	32,169	63,111	118
N.C.	112,077	112,077	112,077	112,077	575
S.C.	58	58	-	-	-
Ga.	-	-	-	-	-
Fla.	-	-	-	-	-
East South Central					
Ky.	-	-	-	-	-
Tenn.	-	-	-	-	-
Ala.	46,694	87,791	46,694	87,791	67
Miss.	-	-	-	-	-
West South Central					
Ark.	- (b)	-	-	-	-
La.	14,479	14,479	3,951	3,951	3
Okla.	(c)	-	-	-	-
Tex.	-	-	-	-	-
Mountain					
Mont.	-	-	-	-	-
Ida.	196 (d)	230	-	-	-
Wyo.	-	-	-	-	-
Colo.	-	-	-	-	-
N.M.	-	-	-	-	-
Ariz.	-	-	-	-	-
Utah	-	-	-	-	-
Nev.	-	-	-	-	-
Pacific					
Wash.	-	-	-	-	-
Ore.	-	-	-	-	-
Cal.	-	-	-	-	-
Alaska	-	-	-	-	-
Hawaii	-	-	-	-	-
Guam	3,490	3,960	3,403	3,614	214
P.R.	-	-	-	-	-
V.I.	12	12	-	-	-

TABLE 2-40. PATHOLOGIC ANATOMY
(Continued)

(States listed in alphabetical order)

	Cytology, Chromosome		
	Specimens	Exams	Positives
Ida.	150	153	41
Minn.	185	1,110	59
S.C.	58	58	15
Wisc.	589	898	117
V.I.	12	12	2

	Tissue, Human, Micro	
	Specimens	Exams
D.C.	419	419
La.	4,858	4,858
N.Y.	2,842	2,842
Wisc.	14,292	17,407
Guam	87	346

	Tissue, Animal, Micro	
	Specimens	Exams
La.	5,670	5,670
N.Y.	514	514
Wisc.	78	78

TABLE 2-41. CLINICAL CHEMISTRY:
TOTAL SPECIMENS AND EXAMINATIONS

	Total Specimens	Total Exams
New England		
Me.	15,293	15,293
N.H.	28,413	39,881
Vt.	39,392	39,392
Mass.	124,900	765,678
R.I.	40,116	50,020
Conn.	103,542	148,513
Middle Atlantic		
N.Y.	78,958	257,644
N.J.	85,872	171,797
Pa.	57,783	59,609
East North Central		
Ohio	177,339	645,847
Ind.	-	-
Ill.	-	-
Mich.	124,136	183,984
Wisc.	126,873	155,836
West North Central		
Minn.	80	196
Ia.	3,485	3,775
Mo.	39,904	41,318
N.D.	16,463	18,794
S.D.	-	-
Nebr.	1,465	1,465
Kans.	18	18
South Atlantic		
Del.	16,360	25,226
Md.	116,020	348,753
D.C.	30,814	33,662
Va.	101,132	100,917
W.Va.	35,151	125,733
N.C.	156,543	472,553
S.C.	78,255	119,327
Ga.	76,671	76,804
Fla.	151,344	234,400
East South Central		
Ky.	40,070	41,575
Tenn.	73,235	73,235
Ala.	92,101	103,719
Miss.	168,349	168,349
West South Central		
Ark.	21,135	25,274
La.	64,714	74,320
Okla.	38,595	38,510
Tex.	24,015	24,015
Mountain		
Mont.	9,403	9,403
Ida.	14,002	14,121
Wyo.	-	-
Colo.	7,279	7,279
N.M.	15,784	15,784
Ariz.	1,711	1,711
Utah	382 (e)	7,830
Nev.	17,311	21,627
Pacific		
Wash.	18,829	18,829
Ore.	160,660	478,229
Cal.	1,894 (f)	7,449
Alaska	5,756	5,756
Hawaii	10,202	10,278
Guam	6,010	16,456
P.R.	76,019	105,994
V.I.	6,626	7,527

TABLE 2-42. CLINICAL CHEMISTRY: BLOOD

	Total Blood Specimens	Total Blood Exams	Glucose	Cholesterol
New England				
Me.	-	-	-	-
N.H.	8,363	14,572	6,613	90
Vt.	39,392	39,392	21,859	9,155
Mass.	-	-	-	-
R.I.	22,188	31,266	12,599	-
Conn.	23,340	29,723	7,445	3,355
Middle Atlantic				
N.Y.	1,593	2,469	797	105
N.J.	2,743	12,297	1,272	101
Pa.	2,074	3,455	1,304	230
East North Central				
Ohio	34,545	97,340	57,042	13,430
Ind.	-	-	-	-
Ill.	-	-	-	-
Mich.	17,259	46,986	15,764	6,123
Wisc.	54,121	82,572	24,749	15,395
West North Central				
Minn.	-	-	-	-
Ia.	-	-	-	-
Mo.	-	-	-	-
N.D.	620	620	552	-
S.D.	-	-	-	-
Nebr.	-	-	-	-
Kans.	-	-	-	-
South Atlantic				
Del.	-	-	-	-
Md.	33,901	51,963	14,254	2,903
D.C.	30,814	33,662	9,519	14,624
Va.	25,364	25,364	25,364	-
W.Va.	4,687	4,301	4,052	-
N.C.	49,026	51,485	47,132	-
S.C.	5,530	22,895	4,942	2,197
Ga.	6,822	6,813	4,161	2,652
Fla.	51,475	51,475	38,323	4,115
East South Central				
Ky.	781	1,562	1,562	-
Tenn.	9,728	9,728	9,728	-
Ala.	4,096	4,096	4,096	-
Miss.	168,349	168,349	166,633	-
West South Central				
Ark.	2,502	3,399	1,202	42
La.	-	-	-	-
Okla.	4,678	4,678	2,482	2,092
Tex.	23,578	23,578	23,578	-
Mountain				
Mont.	-	-	-	-
Ida.	-	-	-	-
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	200	200	-	-
Ariz.	1,711	1,711	-	1,711
Utah	(e)	6,971	276	461
Nev.	-	-	-	-
Pacific				
Wash.	-	-	-	-
Ore.	-	-	-	-
Cal.	362	4,656	1,080	230
Alaska	-	-	-	-
Hawaii	4,378	4,435	4,399	36
Guam	1,583	5,715	685	225
P.R.	60,600	61,655	32,675	4,169
V.I.	4,465	4,646	4,545	-

TABLE 2-42. CLINICAL CHEMISTRY: BLOOD
(Continued)

	Urea Nitrogen	Uric Acid	Transaminase	Other
New England				
Me.	-	-	-	-
N.H.	6,527	180	-	1,162
Vt.	-	4,189	-	Creatinine, 4,189
Mass.	-	-	-	-
R.I.	-	-	660	Lead, 15,979; Bilirubin, 1,320
Conn.	1,428	1,435	36	16,024
Middle Atlantic				
N.Y.	750	63	530	224
N.J.	-	113	4,721	6,090
Pa.	166	206	172	1,377
East North Central				
Ohio	13,434	13,434	-	-
Ind.	-	-	-	-
Ill.	-	-	-	-
Mich.	8,442	6,083	606	9,968
Wisc.	1,372	3,181	486	37,389
West North Central				
Minn.	-	-	-	-
Ia.	-	-	-	-
Mo.	-	-	-	-
N.D.	68	-	-	-
S.D.	-	-	-	-
Nebr.	-	-	-	-
Kans.	-	-	-	-
South Atlantic				
Del.	-	-	-	-
Md.	6,313	2,020	4,661	21,812
D.C.	9,519	-	-	-
Va.	-	-	-	-
W.Va.	-	-	-	249
N.C.	-	-	-	4,353
S.C.	3,530	2,372	4,327	Creatinine, 345; Alk. Phosphatase, 961; Potassium, 741; Total Protein, 378; Albumin, 208; Bilirubin, 494; Sodium, 659; Calcium, 131; Chloride, 617; CO ₂ , 179; Other, 814.
Ga.	-	-	-	-
Fla.	4,625	663	496	3,553
East South Central				
Ky.	-	-	-	-
Tenn.	-	-	-	-
Ala.	-	-	-	-
Miss.	1,716	-	-	-
West South Central				
Ark.	492	339	1,159	165
La.	-	-	-	-
Okla.	-	-	-	104
Tex.	-	-	-	-
Mountain				
Mont.	-	-	-	-
Ida.	-	-	-	-
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	-	-	200	-
Ariz.	-	-	-	-
Utah	460	454	802	4,518
Nev.	-	-	-	-
Pacific				
Wash.	-	-	-	-
Ore.	-	-	-	-
Cal.	366	282	-	Creatinine, 242; Bilirubin, 392; Total Protein, 280; Sodium, 330; Potassium, 330; Chloride, 284; Triglycerides, 388; Calcium, 452.
Alaska	-	-	-	-
Hawaii	-	-	-	-
Guam	359	241	1,532	2,673
P.R.	8,991	1,685	4,640	9,495
V.I.	26	-	-	78

TABLE 2-43. CLINICAL CHEMISTRY: URINE

	Total Urine Specimens	Total Urine Exams	Chemical	Microscopic
New England				
Me.	-	-	-	-
N.H.	4,122	8,359	4,386	3,973
Vt.	-	-	-	-
Mass.	54,311	271,555	271,555	-
R.I.	4,791	5,617 (g)	3,215	171
Conn.	11,591	11,747	11,722	25
Middle Atlantic				
N.Y.	11	14	11	3
N.J.	140	280	280	-
Pa.	167	212	212	-
East North Central				
Ohio	90	90	90	-
Ind.	-	-	-	-
Ill.	-	-	-	-
Mich.	8,128	38,191	32,610	5,581
Wisc.	465	977	977	-
West North Central				
Minn.	-	-	-	-
Ia.	-	-	-	-
Mo.	-	-	-	-
N.D.	2,331	4,662	2,331	2,331
S.D.	-	-	-	-
Nebr.	-	-	-	-
Kans.	-	-	-	-
South Atlantic				
Del.	1,816	10,682	8,866	1,816
Md.	20,485	37,721	20,126	17,595
D.C.	-	-	-	-
Va.	-	-	-	-
W.Va.	345	345	-	345
N.C.	6	24	24	-
S.C.	32,397	56,104	40,425	15,679
Ga.	-	-	-	-
Fla.	2,728	2,728	2,728 (h)	(h)
East South Central				
Ky.	219	943	943	-
Tenn.	-	-	-	-
Ala.	4	4	-	4
Miss.	-	-	-	-
West South Central				
Ark.	428	3,750	3,322	428
La.	9,606	19,212	9,606	9,606
Okla.	82 (i)	82	-	82
Tex.	-	-	-	-
Mountain				
Mont.	-	-	-	-
Ida.	530	588	561	27
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	-	-	-	-
Ariz.	-	-	-	-
Utah	209	686	459	227
Nev.	995	5,311	*	*
Pacific				
Wash.	-	-	-	-
Ore.	-	-	-	-
Cal.	14	120	120	-
Alaska	-	-	-	-
Hawaii	5,824	5,843	5,840	3
Guam	4,239	8,294	4,147	4,147
P.R.	13,179	39,537	26,358	13,179
V.I.	1,670	2,387	2,387	-

TABLE 2-44. CLINICAL CHEMISTRY: OTHER

	Specimens	Exams
(States listed in alphabetical order)		
Ga.	42	42
Kans.	3	3
Mich.	29	267
N.Y.	951	951
Ohio	5	5
Okla.	93	93
R.I.	657	657
Utah	173 (j)	173
Wisc.	116	116
Guam	1	19

TABLE 2-45. CLINICAL CHEMISTRY: PHENYLKETONURIA AND OTHER INBORN ERRORS

	PKU			Other Inborn Errors		
	Specimens	Exams	Positives (k)	Specimens	Exams	Positives
New England						
Me.	15,293	15,293	105	-	-	-
N.H.	15,928	16,950	2	-	-	-
Vt.	-	-	-	-	-	-
Mass.	70,589	70,589	51	70,589(1)	423,534	-
R.I.	12,431	12,431	-	49	49	-
Conn.	68,096	68,096	-	515	38,947	-
Middle Atlantic						
N.Y.	71,613	71,613	45	71,613(1)	168,227	8
N.J.	82,757	158,060	357	-	-	-
Pa.	55,450	55,758	14 (m)	92	184	-
East North Central						
Ohio	142,699	155,250	8	142,699(1)	285,722	1
Ind.	-	-	-	-	-	-
Ill.	-	-	-	-	-	-
Mich.	98,720	98,540	13	-	-	-
Wisc.	12	12	5	-	-	-
West North Central						
Minn.	80	196	14	-	-	-
Ia.	3,485	3,775	290	-	-	-
Mo.	39,904	41,318	32	-	-	-
N.D.	13,512	13,512	112	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	1,465	1,465	-	-	-	-
Kans.	15	15	11	-	-	-
South Atlantic						
Del.	14,544	14,544	16	-	-	-
Md.	61,634	61,623	14 (n)	(1)	197,446	32
D.C.	-	-	-	-	-	-
Va.	75,768	75,553	242	-	-	-
W.Va.	21,768	21,768	83	-	-	-
N.C.	80,611	79,486	3 (o)	-	1,051	-
S.C.	40,328	40,328	209	-	-	-
Ga.	69,807	69,693	449	(1)	256	33
Fla.	76,377	76,377	*	-	-	-
East South Central						
Ky.	39,070	39,070	56	-	-	-
Tenn.	63,507	63,507	171 (m)	-	-	-
Ala.	88,007	99,619	3 (o)	-	-	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	18,205	18,125	104	-	-	-
La.	55,108	55,108	64	-	-	-
Okla.	33,742	33,657	487	-	-	-
Tex.	437	437	369	-	-	-
Mountain						
Mont.	9,403	9,403	2 (o)	-	-	-
Ida.	13,152	13,152	1 (o)	320	381	-
Wyo.	-	-	-	-	-	-
Colo.	7,279	7,279	28	-	-	-
N.M.	15,584	15,584	-	-	-	-
Ariz.	-	-	-	-	-	-
Utah	-	-	-	-	-	-
Nev.	16,316	16,316	160	-	-	-
Pacific						
Wash.	18,829	18,829	3 (p)	-	-	-
Ore.	80,330	80,380	2	80,330	397,849	9
Cal.	468	1,492	746	1,050	1,181	-
Alaska	3,008	3,008	-	2,748	2,748	-
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	491	491	-	-	-	-

TABLE 2-46. CLINICAL CHEMISTRY:
MULTIPHASIC SCREENING

	Specimens	Exams
New England		
Me.	-	-
N.H.	-	-
Vt.	-	-
Mass.	-	-
R.I.	-	-
Conn.	-	-
Middle Atlantic		
N.Y.	4,790	14,370
N.J.	232	1,160
Pa.	-	-
East North Central		
Ohio	(q)	107,440
Ind.	-	-
Ill.	-	-
Mich.	-	-
Wisc.	72,159 (r)	72,159
West North Central		
Minn.	-	-
Ia.	-	-
Mo.	-	-
N.D.	-	-
S.D.	-	-
Nebr.	-	-
Kans.	-	-
South Atlantic		
Del.	-	-
Md.	-	-
D.C.	-	-
Va.	-	-
W.Va.	8,351	99,319
N.C.	26,900	340,507
S.C.	(q)	-
Ga.	-	-
Fla.	20,764	103,820
East South Central		
Ky.	-	-
Tenn.	-	-
Ala.	-	-
Miss.	-	-
West South Central		
Ark.	-	-
La.	-	-
Okla.	-	-
Tex.	-	-
Mountain		
Mont.	-	-
Ida.	-	-
Wyo.	-	-
Colo.	-	-
N.M.	-	-
Ariz.	-	-
Utah	-	-
Nev.	-	-
Pacific		
Wash.	-	-
Ore.	-	-
Cal.	-	-
Alaska	-	-
Hawaii	-	-
Guam	187	2,428
P.R.	2,240	4,802
V.I.	-	-

TABLE 2-47. SANITARY AND ENVIRONMENTAL
MICROBIOLOGY: TOTAL SPECIMENS AND EXAMINATIONS

	Total Specimens	Total Exams
New England		
Me.	27,257	28,879
N.H.	-	-
Vt.	18,847	18,847
Mass.	67	*
R.I.	4,944	12,779
Conn.	27,342	82,217
Middle Atlantic		
N.Y.	*	81,604
N.J.	18,861	32,075
Pa.	56,189	85,655
East North Central		
Ohio	69,149	75,261
Ind.	50,011	62,337
Ill.	52,730	108,172
Mich.	94,615	128,353
Wisc.	58,881	59,347
West North Central		
Minn.	65	248
Ia.	46,091	150,450
Mo.	74,097	114,336
N.D.	18,021	37,651
S.D.	16,930	30,199
Nebr.	18,289	18,307
Kans.	35,259	38,670
South Atlantic		
Del.	8,705	51,650
Md.	94,007	159,557
D.C.	3,730	10,021
Va.	74,763	102,483
W.Va.	27,779	38,785
N.C.	39,168	40,276
S.C.	70,568	114,174
Ga.	261	483
Fla.	240,495	287,414
East South Central		
Ky.	40,013	53,242
Tenn.	65,837	83,637
Ala.	97,007	219,554
Miss.	80,729	112,638
West South Central		
Ark.	43,435	48,365
La.	213,884	213,884
Okla.	57,669	78,422
Tex.	922,632	1,019,663
Mountain		
Mont.	13,127	13,722
Ida.	30,279	51,946
Wyo.	7,902	8,655
Colo.	22,123	44,441
N.M.	30,014	62,146
Ariz.	39,860	50,724
Utah	21,372	32,492
Nev.	24,208	49,593
Pacific		
Wash.	21,297	24,784
Ore.	37,310	47,492
Cal.	16,769	28,648
Alaska	11,677	11,834
Hawaii	14,804	32,745
Guam	1,265	3,409
P.R.	15,303	43,880
V.I.	3,147	6,441

TABLE 2-48. SANITARY MICROBIOLOGY: WATER

	Drinking Water				
	Total Drinking Water Specimens	Total Drinking Water Exams	Standard Plate Count (on finished water)	Finished Water Positives	
				Coliforms	Iron Bacteria
New England					
Me.	25,779	27,300	208	6,196	25
N.H.	-	-	-	-	-
Vt.	18,847	18,847	-	-	-
Mass.	-	-	-	-	-
R.I.	(s)	-	-	-	-
Conn.	5,556	6,280	-	84	7
Middle Atlantic					
N.Y.	*	58,557 (t)	-	-	-
N.J.	9,283	14,575	-	595	-
Pa.	31,220	13,660	-	-	-
East North Central					
Ohio	60,972	61,467	-	9,791	-
Ind.	32,071	32,465	-	2,535	-
Ill.	17,533	23,954	-	-	-
Mich.	69,267	73,481	-	*	*
Wisc.	51,755	51,755	201	4,812	109
West North Central					
Minn.	-	-	-	-	-
Ia.	38,359	115,077	48	6,245	455
Mo.	67,960	75,943	171	2,278	-
N.D.	6,016	6,016	*	*	10
S.D.	15,868 (t)	20,326	50	-	1
Nebr.	18,284	18,284	-	1,303	-
Kans.	30,215	30,215	-	707	-
South Atlantic					
Del.	5,889	6,627	-	-	-
Md.	33,274	38,993	*	7,023	-
D.C.	2,145	2,145	2,145	21	6
Va.	64,420	72,702	-	-	-
W.Va.	19,798	19,798	-	2,096	-
N.C.	39,168 (t)	39,818	9	4,810	20
S.C.	42,140	43,326	604	5,329	-
Ga.	-	-	-	-	-
Fla.	159,801	159,801	-	*	-
East South Central					
Ky.	28,789	28,847	-	-	-
Tenn.	40,867	40,867	-	-	-
Ala.	50,239	50,354	1,206	7,557	-
Miss.	32,372	32,372	6,370	*	*
West South Central					
Ark.	36,983	35,503	-	4,929	-
La.	48,305	48,305	-	-	-
Okla.	41,368	45,584	-	7,984	-
Tex.	898,232	980,122	-	81,890	-
Mountain					
Mont.	12,625	12,625	-	1,224	-
Ida.	22,335	25,093	-	3,500	-
Wyo.	7,530	7,906	-	376	-
Colo.	16,904	16,904	-	-	-
N.M.	20,018	28,759	10	1,158	1
Ariz.	37,134	41,415	121	750	-
Utah	14,685	14,748	8	1,734	-
Nev.	14,837	15,493	-	753	-
Pacific					
Wash.	16,336	16,958	12	*	3
Ore.	34,238	38,907	-	-	-
Cal.	16,231 (t)	26,585 (t)	-	-	-
Alaska	10,855	10,999	44	1,294	*
Hawaii	5,872	9,584	-	601	-
Guam	- (u)	-	-	-	-
P.R.	6,157	7,709	-	488	-
V.I.	2,109	2,391	-	178	-

TABLE 2-48. SANITARY MICROBIOLOGY: WATER
(Continued)

	Source of Raw Water for Treatment		Swimming Pools		Recreational Water	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	-	-	1,109	1,109	369	470
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	1,137	1,393	262	538	2,730	2,734
Middle Atlantic						
N.Y.	(t)	(t)	(t)	(t)	(t)	(t)
N.J.	-	-	370	559	1,713	3,083
Pa.	-	-	3,098	6,196	4,583	13,749
East North Central						
Ohio	-	-	320	455	3,197	3,534
Ind.	10	10	3,930	7,915	713	713
Ill.	-	-	11,202	29,307	1,279	3,921
Mich.	12,161	22,628	4,993	10,097	*	*
Wisc.	-	-	931	931	690	690
West North Central						
Minn.	-	-	-	-	-	-
Ia.	-	-	997	2,991	-	-
Mo.	-	-	1,519	1,510	-	-
N.D.	467	2,802	1,084	2,168	65	325
S.D.	-	-	-	-	(t)	296
Nebr.	-	-	-	-	-	-
Kans.	1,323	1,323	2,180	2,180	16 (v)	16
South Atlantic						
Del.	192	7,397	88	88	280 (w)	7,485
Md.	*	*	1,440	2,946	2,264	3,580
D.C.	-	-	12	12	-	-
Va.	-	-	-	-	-	-
W.Va.	798 (x)	2,370 (x)	1,659	1,659	(x)	(x)
N.C.	(t)	458 (y)	(t)	(y)	(t)	(y)
S.C.	-	-	14,197 (z)	15,517 (z)	(z)	(z)
Ga.	-	-	-	-	-	-
Fla.	23,639 (x)	47,278 (x)	32,408	32,408	(x)	(x)
East South Central						
Ky.	-	-	-	-	-	-
Tenn.	-	-	2,122	2,122	320	320
Ala.	547	546	153	153	321	858
Miss.	-	-	-	-	655	1,244
West South Central						
Ark.	-	-	1,147	1,147	-	-
La.	4,992	4,992	787	787	2,514	2,514
Okla.	213 (aa)	213	3,263	3,608	(aa)	(aa)
Tex.	6,481	4,224	782	821	2,634	2,634
Mountain						
Mont.	-	-	-	-	60	60
Ida.	-	-	-	1,424	-	-
Wyo.	372	749	-	-	-	-
Colo.	159	*	180	*	72	*
N.M.	703	969	861	1,019	897	1,305
Ariz.	-	-	121	121	-	-
Utah	-	-	2,162	4,328	-	-
Nev.	2,307 (bb)	5,230 (bb)	(bb)	(bb)	(bb)	(bb)
Pacific						
Wash.	2,485	2,967	323	646	174	348
Ore.	-	-	-	-	-	-
Cal.	(t)	(t)	(t)	(t)	(t)	(t)
Alaska	*	*	*	*	*	*
Hawaii	-	-	712	1,673	4,562	13,077
Guam	- (u)	-	193	193	- (u)	-
P.R.	212	681	52	195	31	105
V.I.	237	237	-	-	-	-

TABLE 2-49. SANITARY MICROBIOLOGY: DAIRY PRODUCTS

	Milk and Cream		Frozen Desserts		Other Dairy Products	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	(cc)	-	-	-	-	-
Conn.	10,770	56,064	1,355	2,715	866	3,008
Middle Atlantic						
N.Y.	*	23,047 (dd)	-	-	-	-
N.J.	2,351	4,702	20	40	97	194
Pa.	-	-	-	-	-	-
East North Central						
Ohio	134	462	-	-	-	-
Ind.	4,038	6,513	1,251	2,941	930	2,347
Ill.	7,490	18,650	1,960	3,920	3,740	11,368
Mich.	7,494	20,851	-	-	-	-
Wisc.	-	-	-	-	-	-
West North Central						
Minn.	-	-	-	-	-	-
Ia.	5,337	26,685	281	1,405	316	1,264
Mo.	1,194	6,271	65	455	-	-
N.D.	6,714	20,142	1,967	3,934	-	-
S.D.	1,044	3,834	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	-	-	-	-	-	-
South Atlantic						
Del.	914	3,782	270	799	-	-
Md.	12,801	26,527	2,449	4,915	420	865
D.C.	30	120	61	256	12	36
Va.	3,658	11,072	5,516	16,560	1,089	1,822
W.Va.	5,267	13,291	-	-	5	10
N.C.	-	-	-	-	-	-
S.C.	10,117	37,057	1,426	8,714	548	3,646
Ga.	-	-	-	-	-	-
Fla.	7,588	15,176	6,122	12,224	3,224	6,448
East South Central						
Ky.	10,216 (ee)	24,084 (ee)	(ee)	(ee)	(ee)	(ee)
Tenn.	14,750	29,970	2,640	5,220	-	-
Ala.	24,443	105,105	16,916	48,551	1,819	3,887
Miss.	47,281 (ee)	78,081 (ee)	(ee)	(ee)	(ee)	(ee)
West South Central						
Ark.	2,222	5,195	527	1,212	1,167	2,684
La.	135,111	135,111	2,015	2,015	5,988	5,988
Okla.	11,957	27,539	-	-	-	-
Tex.	2,203	6,609	120	240	-	-
Mountain						
Mont.	- (ff)	-	52	104	- (ff)	-
Ida.	4,523	19,524	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	3,352	22,412	129	645	-	-
N.M.	4,707	20,651	198	1,088	44	132
Ariz.	2,424 (ee)	8,730 (ee)	(ee)	(ee)	(ee)	(ee)
Utah	-	-	-	-	-	-
Nev.	3,532 (gg)	18,179 (gg)	(gg)	(gg)	1,043	5,741
Pacific						
Wash.	194	668	-	-	-	-
Ore.	2	2	-	-	1	1
Cal.	538 (ee)	2,063 (ee)	(ee)	(ee)	(ee)	(ee)
Alaska	10	23	-	-	-	-
Hawaii	1,159	3,238	1,459	2,795	344	344
Guam	-	-	424 (hh)	1,272	233	699
P.R.	3,114	5,293	320	1,138	52	157
V.I.	335	2,375	26	158	-	-

TABLE 2-50. SANITARY MICROBIOLOGY: FOODS

	Food Quality		Food-Associated Disease Outbreaks		Shellfish (or shell- fish-bearing waters)	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	67	*	-	-
R.I.	3,825	10,775	135	440	242	806
Conn.	173	386	370	1,110	1,073	2,234
Middle Atlantic						
N.Y.	-	-	-	-	-	-
N.J.	351	529	109	172	67	121
Pa.	-	-	88	450	-	-
East North Central						
Ohio	-	-	335	1,380	-	-
Ind.	1,152	1,446	186	534	56	72
Ill.	8,003	14,250	285	1,376	-	-
Mich.	-	-	156	541	-	-
Wisc.	37	37	42	42	-	-
West North Central						
Minn.	-	-	53	212	-	-
Ia.	-	-	31	248	-	-
Mo.	187	5,420	70	2,657	4	131
N.D.	-	-	6	60	-	-
S.D.	18	499	-	-	-	-
Nebr.	-	-	5	23	-	-
Kans.	171 (ii)	874 (ii)	(ii)	(ii)	(ii)	(ii)
South Atlantic						
Del.	34	67	71	710	967	24,695
Md.	653	2,238	-	-	24,619	49,410
D.C.	556	4,552	5	40	44	176
Va.	-	-	80	327	-	-
W.Va.	-	-	9	54	-	-
N.C.	-	-	-	-	-	-
S.C.	339 (jj)	1,567 (jj)	(jj)	(jj)	1,604	4,150
Ga.	-	-	261	483	-	-
Fla.	1,430	5,720	692	2,768	(kk)	(kk)
East South Central						
Ky.	251	-	17	-	-	-
Tenn.	-	-	505	505	-	-
Ala.	1,179	5,895	191	532	1,126	3,600
Miss.	-	-	31	31	390	910
West South Central						
Ark.	251	522	96	200	-	-
La.	1,335	1,335	200	200	7,640 (ll)	7,640
Okla.	255 (mm)	813 (mm)	(mm)	(mm)	-	-
Tex.	764	764	399	558	367	1,101
Mountain						
Mont.	37	500	9	89	-	-
Ida.	494 (jj)	1,788 (jj)	(jj)	(jj)	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	110	446	-	-
N.M.	633	3,105	22	154	-	-
Ariz.	181 (jj)	458 (jj)	(jj)	(jj)	-	-
Utah	-	-	74	1,281	-	-
Nev.	393 (jj)	2,854 (jj)	(jj)	(jj)	-	-
Pacific						
Wash.	22	10	222	252	1,512 (nn)	2,906 (nn)
Ore.	-	-	21	21	677	1,991
Cal.	-	-	-	-	(t)	(t)
Alaska	-	-	613	613	24	24
Hawaii	73	216	375	913	-	-
Guam	156	468	-	-	- (u)	-
P.R.	116	3,286	114	15,663	-	-
V.I.	-	-	-	-	-	-

TABLE 2-50. SANITARY MICROBIOLOGY: FOODS
(Continued)

	Beverages		Utensil Counts	
	Specimens	Exams	Specimens	Exams
New England				
Me.	-	-	-	-
N.H.	-	-	-	-
Vt.	-	-	-	-
Mass.	-	-	-	-
R.I.	8	24	258	258
Conn.	-	-	62	62
Middle Atlantic				
N.Y.	-	-	-	-
N.J.	-	-	-	-
Pa.	-	-	-	-
East North Central				
Ohio	-	-	-	-
Ind.	1,349	2,645	-	-
Ill.	892	924	156	312
Mich.	-	-	154	154
Wisc.	-	-	-	-
West North Central				
Minn.	-	-	-	-
Ia.	-	-	335	670
Mo.	2,722	19,347	121	146
N.D.	-	-	-	-
S.D.	-	-	-	-
Nebr.	-	-	-	-
Kans.	(ii)	(ii)	(ii)	(ii)
South Atlantic				
Del.	-	-	-	-
Md.	-	-	824 (oo)	1,094 (oo)
D.C.	-	-	-	-
Va.	-	-	-	-
W.Va.	-	-	26	52
N.C.	-	-	-	-
S.C.	37	37	160	160
Ga.	-	-	-	-
Fla.	(pp)	(pp)	5,591	5,591
East South Central				
Ky.	429	-	-	-
Tenn.	-	-	3,028	3,028
Ala.	-	-	-	-
Miss.	-	-	-	-
West South Central				
Ark.	430	1,290	612	612
La.	4	4	2,479	2,479
Okla.	(m)	(m)	613	665
Tex.	-	-	-	-
Mountain				
Mont.	-	-	-	-
Ida.	-	-	275	275
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	10	30	10	20
Ariz.	-	-	-	-
Utah	-	-	-	-
Nev.	-	-	-	-
Pacific				
Wash.	-	-	-	-
Ore.	-	-	-	-
Cal.	-	-	-	-
Alaska	-	-	73	73
Hawaii	1	1	64	64
Guam	259	777	-	-
P.R.	180	707	4,799	8,790
V.I.	20	20	180	540

TABLE 2-51. SANITARY AND ENVIRONMENTAL MICROBIOLOGY: ENVIRONMENTAL EXAMS AND MISCELLANEOUS

	Environmental (Rodac Plates, Air Samples, Surface Swabs, Etc.)		Miscellaneous			
	Specimens	Exams	Specimens	Exams	Type	
New England			(States listed in alphabetical order)			
Me.	-	-				
N.H.	-	-	Conn.	90	221	Meat Serology, Bovine Serum for Q Fever
Vt.	-	-				
Mass.	-	-				
R.I.	476	476				
Conn.	325	460	Ky.	311	311	Fluorides
Middle Atlantic			Md.	6,867	11,578	Sewage Effluents and Others
N.Y.	-	-				
N.J.	-	-				
Pa.	-	-				
East North Central			N.M.	312	312	Air, Water, and Agar Plates
Ohio	293	537				
Ind.	-	-				
Ill.	190 (qq)	190				
Mich.	390	601				
Wisc.	-	-				
West North Central						
Minn.	12	36				
Ia.	2	4				
Mo.	-	-				
N.D.	1,451	1,451				
S.D.	-	-				
Nebr.	-	-				
Kans.	-	-				
South Atlantic						
Del.	-	-				
Md.	(oo)	(oo)				
D.C.	-	-				
Va.	-	-				
W.Va.	-	-				
N.C.	-	-				
S.C.	-	-				
Ga.	-	-				
Fla.	*	*				
East South Central						
Ky.	-	-				
Tenn.	-	-				
Ala.	27	27				
Miss.	-	-				
West South Central						
Ark.	-	-				
La.	-	-				
Okla.	-	-				
Tex.	-	-				
Mountain						
Mont.	-	-				
Ida.	50	82				
Wyo.	-	-				
Colo.	-	-				
N.M.	588	1,602				
Ariz.	-	-				
Utah	-	-				
Nev.	-	-				
Pacific						
Wash.	29	29				
Ore.	-	-				
Cal.	-	-				
Alaska	11	11				
Hawaii	78	348				
Guam	-	-				
P.R.	156	156				
V.I.	240	720				

TABLE 2-52. SANITARY AND ENVIRONMENTAL MICROBIOLOGY: STREAM POLLUTION

	Specimens	Exams	Positives		
			Coliforms	Fecal Coliforms	Other
New England					
Me.	-	-	-	-	-
N.H.	-	-	-	-	-
Vt.	-	-	-	-	-
Mass.	-	-	-	-	-
R.I.	-	-	-	-	-
Conn.	2,573	5,012	*	*	*
Middle Atlantic					
N.Y.	(t)	(t)	-	-	-
N.J.	4,500	8,100	3,390	2,815	-
Pa.	17,200	51,600	*	*	*
East North Central					
Ohio	3,898	7,426	218	3,898	-
Ind.	4,325	4,736	414	4,313	-
Ill.	-	-	-	-	-
Mich.	*	*	*	*	*
Wisc.	5,426	5,892	393	5,493	Algae, 6
West North Central					
Minn.	-	-	-	-	-
Ia.	433	2,106	4	413	Algae, 16
Mo.	255	2,456	248	229	Fecal strep, 218
N.D.	251	753	*	*	*
S.D.	(t)	5,244	-	-	-
Nebr.	-	-	-	-	-
Kans.	1,354 (v)	4,062 (v)	*	*	*
South Atlantic					
Del.	(w)	-	-	-	-
Md.	8,396	17,411	*	*	*
D.C.	865	2,684	865	865	-
Va.	-	-	-	-	-
W.Va.	217	1,551	-	217	-
N.C.	(t)	(y)	-	-	-
S.C.	-	-	-	-	-
Ga.	-	-	-	-	-
Fla.	(rr)	(rr)	-	-	-
East South Central					
Ky.	-	-	-	-	-
Tenn.	1,605	1,605	1,605	1,605	Algae, 106
Ala.	46	46	-	4	-
Miss.	-	-	-	-	-
West South Central					
Ark.	- (ss)	-	-	-	-
La.	2,514	2,514	*	*	*
Okla.	- (tt)	-	-	-	-
Tex.	10,650	22,590	6,293	3,642	-
Mountain					
Mont.	344	344	430	252	-
Ida.	2,602	3,760	1,636	788	-
Wyo.	-	-	-	-	-
Colo.	1,217	4,034	*	*	*
N.M.	1,011	3,000	220	1,723	-
Ariz.	-	-	-	-	-
Utah	4,451	12,135	3,843	2,406	-
Nev.	2,096	2,096	1,038	877	-
Pacific					
Wash.	- (uu)	-	-	-	-
Ore.	2,371	6,570	2,291	1,908	-
Cal.	(t)	(t)	*	*	*
Alaska	91	91	-	25	-
Hawaii	105	492	105	105	-
Guam	- (u)	-	-	-	-
P.R.	-	-	-	-	-
V.I.	-	-	-	-	-

TABLES 2-40 - 2-52. FOOTNOTES

- (a) Malignant, 58; inconclusive, 3,178.
- (b) Not done in this laboratory. Cytology for the family planning programs is performed by contract with private laboratories.
- (c) Performed by the University of Oklahoma Health Science Center through contract and arrangement with the State Health Department.
- (d) Includes banding, 46 specimens, 77 exams.
- (e) Clinical Chemistry is performed for Utah Community Studies Project (Pesticides). Blood specimens recorded under Hematology.
- (f) Not performed routinely. See footnote "i", page 97.
- (g) Includes Lead, 65; Dry-Paks, 2,166.
- (h) Chemical and Microscopic included together.
- (i) Performed in Branch Laboratories only.
- (j) Stool guaiac.
- (k) 4 mg % or above.
- (l) Specimens counted in totals under PKU.
- (m) 6 mg/dl or above.
- (n) 11 newborn with levels 2-4 mg/100 ml; 3 newborn with levels over 6 mg/100 ml.
- (o) Confirmed cases.
- (p) Second test normal on all 3.
- (q) Included under Blood Chemistry.
- (r) Specimens received and analyzed by the Laboratory, but this is a program of the Division of Health, Bureau of State and Local Relations.
- (s) Tests performed by Water Supply and Pollution Control Laboratory.
- (t) All water specimens/exams, regardless of source, included together.
- (u) Tests done by Guam Environmental Protection Agency.
- (v) Stream pollution and recreational water included together. Figure under Recreational Water represents "seep".
- (w) Recreational Water includes Stream Pollution.
- (x) Source of Raw Water includes recreational waters.
- (y) All non-drinking quality water included together under Source of Raw Water for Treatment.
- (z) Swimming Pools and Recreational Water included together.
- (aa) Source of Raw Water includes recreational water and waste water.
- (bb) Source of Raw Water includes Swimming Pools and Recreational Water.
- (cc) Tests performed by Milk Laboratory of Animal and Dairy Division.
- (dd) Represents milk and food exams.
- (ee) All Dairy Products included together.
- (ff) Handled by Diagnostic Laboratories of the Department of Livestock.
- (gg) Milk and Cream and Frozen Desserts included together.

TABLES 2-40 - 2-52. FOOTNOTES
(Continued)

- (hh) Frozen and dispensed drinks.
- (ii) Figure under Food Quality represents all food specimens and exams.
- (jj) Food Quality and Food-Associated Disease Outbreaks included together.
- (kk) Included with Raw Waters and Food Quality.
- (ll) Includes shellfish, 1,218; shellfish-bearing waters, 6,243; and Vibrio parahaemolyticus, 179.
- (mm) Food Quality includes Food-Associated Disease Outbreaks and Beverages.
- (nn) Includes PSP, Shellfish Waters, and Bacteriology.
- (oo) Environmental included with Utensil Counts.
- (pp) Included with Drinking Water.
- (qq) Pollen.
- (rr) Included in Raw Waters.
- (ss) Handled by Department of Pollution Control and Ecology.
- (tt) Offered by Environmental Health Services, OSDA.
- (uu) Performed by Department of Ecology.

TABLE 2-53. SANITARY AND ENVIRONMENTAL CHEMISTRY:
TOTAL SPECIMENS AND EXAMINATIONS

	Total Specimens	Total Exams
New England		
Me.	14,200	19,400
N.H.	-	-
Vt.	3,847	21,987
Mass.	-	-
R.I.	-	-
Conn.	24,224	109,155
Middle Atlantic		
N.Y.	*	20,259
N.J.	10,350	79,499
Pa.	-	-
East North Central		
Ohio	12,053	157,949
Ind.	56,314	88,267
Ill.	47,663	60,181
Mich.	21,645	57,317
Wisc.	25,304	29,206
West North Central		
Minn.	-	-
Ia.	26,894	114,115
Mo.	6,446	19,826
N.D.	2,950	5,071
S.D.	5,281	13,255
Nebr.	891	8,963
Kans.	17,440	52,737
South Atlantic		
Del.	725	5,402
Md.	30,597	175,692
D.C.	2,445	10,004
Va.	- (c)	-
W.Va.	-	-
N.C.	10,545	86,848
S.C.	3,453	138,890
Ga.	-	-
Fla.	19,853	44,486
East South Central		
Ky.	4,619	17,341
Tenn.	2,229	26,509
Ala.	48,075	61,166
Miss.	2,001	5,086
West South Central		
Ark.	3,200	6,268
La.	10,933	59,296
Okla.	10,895	16,091
Tex.	63,983	136,180
Mountain		
Mont.	3,517	29,455
Ida.	7,635	55,671
Wyo.	220	220
Colo.	6,631	53,072
N.M.	7,488	50,256
Ariz.	2,093	15,275
Utah	7,118	129,248
Nev.	5,051	11,082
Pacific		
Wash.	3,758	62,334
Ore.	- (h)	-
Cal.	2,681	12,036
Alaska	1,024	7,126
Hawaii	4,662	15,574
Guam	- (i)	-
P.R.	7,529	27,128
V.I.	40	346

TABLE 2-54. SANITARY CHEMISTRY:
DRINKING WATER

	Total Specimens	Complete Analysis
New England		
Me.	14,200	14,200
N.H.	-	-
Vt.	3,847	*
Mass.	-	-
R.I.	- (a)	-
Conn.	9,041	44,580
Middle Atlantic		
N.Y.	*	-
N.J.	1,923	9,513
Pa.	-	-
East North Central		
Ohio	5,401	92,526
Ind.	5,429	16,658
Ill.	23,516	-
Mich.	13,668	458
Wisc.	1,806	6,807
West North Central		
Minn.	-	-
Ia.	12,449	11,820
Mo.	3,073	8,515
N.D.	2,331	115
S.D.	5,281 (b)	26
Nebr.	891	8,302
Kans.	5,640	687
South Atlantic		
Del.	725	2,701
Md.	7,625	46,931
D.C.	1,109	-
Va.	-	-
W.Va.	-	-
N.C.	*	*
S.C.	3,453	43,178
Ga.	-	-
Fla.	11,951 (d)	28,682 (d)
East South Central		
Ky.	3,834	12,382
Tenn.	141	1,688
Ala.	41,338	10,180
Miss.	956	1,434
West South Central		
Ark.	- (e)	-
La.	709	12,965
Okla.	- (f)	-
Tex.	2,888	46,446
Mountain		
Mont.	645	2,328
Ida.	1,825	-
Wyo.	220	-
Colo.	858	14,855
N.M.	7,320	17,892
Ariz.	1,387	8,625
Utah	2,932	96,851 (g)
Nev.	1,702	1,702
Pacific		
Wash.	2,417	30,488
Ore.	-	-
Cal.	*	*
Alaska	909	7,011 (g)
Hawaii	528	4,820
Guam	-	-
P.R.	2,165	223
V.I.	40	301

TABLE 2-54. SANITARY CHEMISTRY: DRINKING WATER
(Continued)

	Partial Analysis				
	Nitrate	Iron	Fluorides	Hardness	Other
New England					
Me.	-	200	5,000	-	-
N.H.	-	-	-	-	-
Vt.	*	*	*	*	*
Mass.	-	-	-	-	-
R.I.	-	-	-	-	-
Conn.	-	-	3,292	-	13,150
Middle Atlantic					
N.Y.	5,918	4,320	533	3,234	-
N.J.	245	811	149	295	3,093
Pa.	-	-	-	-	-
East North Central					
Ohio	(j)	(j)	1,105	(j)	(j)
Ind.	728	976	5,001	834	9,119
Ill.	13,282	502	8,600	586	-
Mich.	41,006 (k)	(k)	(k)	(k)	(k)
Wisc.	1,287	1,090	3,606	766	-
West North Central					
Minn.	-	-	-	-	-
Ia.	19,565	10,809	1,407	3,369	888
Mo.	506	188	1,197	174	4,709
N.D.	742	761	828	761	646
S.D.	2,372	678	2,083	816	6,095
Nebr.	143	20	420	32	46
Kans.	1,010	1,010	3,950	1,010	7,020
South Atlantic					
Del.	661	707	494	607	232
Md.	3,455	4,414	3,164	7,020	28,878
D.C.	-	-	-	-	5,402
Va.	-	-	-	-	-
W.Va.	-	-	-	-	-
N.C.	*	*	*	*	*
S.C.	-	-	-	-	-
Ga.	-	-	-	-	-
Fla.	(d)	(d)	(d)	(d)	(d)
East South Central					
Ky.	-	-	3,808	-	366
Tenn.	-	-	491	-	-
Ala.	-	-	545	-	37,196
Miss.	140	140	696	140	151
West South Central					
Ark.	-	-	-	-	-
La.	109	328	489	896	11,143
Okla.	-	-	-	-	-
Tex.	-	104	1,367	-	-
Mountain					
Mont.	78	26	302	5	204
Ida.	451	*	786	336	10,028
Wyo.	-	-	220	-	-
Colo.	216	98	412	187	917
N.M.	1,000	770	100	1,200	27,818
Ariz.	-	-	-	-	-
Utah	(g)	(g)	(g)	(g)	(g)
Nev.	-	-	-	-	-
Pacific					
Wash.	3,173	1,013	1,599	1,007	23,696
Ore.	-	-	-	-	-
Cal.	*	*	*	*	*
Alaska	(g)	(g)	(g)	(g)	(g)
Hawaii	-	-	-	-	-
Guam	-	-	-	-	-
P.R.	1,942	388	565	388	601
V.I.	19	-	-	26	-

TABLE 2-55. SANITARY CHEMISTRY: MISCELLANEOUS

	Swimming Water		Dairy Products		Food	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	-	-	-	-	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	308	710	12,723	23,327	310	1,880
Middle Atlantic						
N.Y.	-	-	-	-	-	-
N.J.	-	-	1,961	3,882	512	917
Pa.	-	-	-	-	-	-
East North Central						
Ohio	110	487	-	-	-	-
Ind.	-	-	6,719	10,401	1,011	1,395
Ill.	11,202	11,714	8,819	9,962	4,126	13,250
Mich.	-	-	-	-	-	-
Wisc.	-	-	-	-	-	-
West North Central						
Minn.	-	-	-	-	-	-
Ia.	-	-	5,637	22,548	-	-
Mo.	-	-	165	431	791	1,963
N.D.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	1,800	3,600	-	-	-	-
South Atlantic						
Del.	-	-	-	-	-	-
Md.	-	-	12,076	17,269	3,567	7,599
D.C.	-	-	56	150	1,280	4,452
Va.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	*	*	*	*	*	*
S.C.	-	-	-	-	-	-
Ga.	-	-	-	-	-	-
Fla.	(d)	(d)	7,588	15,176	134	268
East South Central						
Ky.	-	-	785 (m)	785 (m)	(m)	(m)
Tenn.	-	-	-	-	-	-
Ala.	84	84	6,653	5,461	-	-
Miss.	160	1,500	-	-	-	-
West South Central						
Ark.	-	-	3,200	6,268	- (e)	-
La.	-	-	5,019	18,480	1,189	3,165
Okla.	- (f)	-	10,419	15,248	476	843
Tex.	-	-	42,900	82,721	1,205	5,542
Mountain						
Mont.	-	-	-	-	75	329
Ida.	-	-	(n)	(n)	-	-
Wyo.	-	-	-	-	-	-
Colo.	-	-	512	512	1,786	4,526
N.M.	-	-	-	-	-	-
Ariz.	-	-	67 (m)	175 (m)	(m)	(m)
Utah	-	-	-	-	5	6
Nev.	-	-	2,675	3,585	85	267
Pacific						
Wash.	1	5	3	6	9	7
Ore.	-	-	-	-	-	-
Cal.	*	*	(n)	(n)	-	-
Alaska	-	-	2	2	-	-
Hawaii	299	1,395	2,220	5,916	1,085	1,360
Guam	-	-	-	-	-	-
P.R.	-	-	2,470	9,444	702	1,959
V.I.	-	-	-	-	-	-

TABLE 2-55. SANITARY CHEMISTRY: MISCELLANEOUS
(Continued)

	Other		Types of Tests
	Specimens	Exams	
New England			
Me.	-	-	
N.H.	-	-	
Vt.	-	-	
Mass.	-	-	
R.I.	-	-	
Conn.	264	5,999	Metals, hydrocarbons
Middle Atlantic			
N.Y.	-	-	
N.J.	532	736	
Pa.	-	-	
East North Central			
Ohio	-	-	
Ind.	-	-	
Ill.	-	2,000	
Mich.	-	-	
Wisc.	-	-	
West North Central			
Minn.	-	-	
Ia.	321	3,521	Heavy metals, limnology samples
Mo.	2,417	2,143	Beverages
N.D.	10	*	Sediment, boiler scale, grease
S.D.	-	-	
Nebr.	-	-	
Kans.	6,200	8,000	Turbidity, nitrite, nitrate, iron, hardness, solids
South Atlantic			
Del.	-	-	
Md.	1,804	11,992	Beverages, contaminants, artificial color, sweeteners, gas, and thin-layer chromatography, metals, benzoate, physical measurements, solid and industrial waste
D.C.	-	-	
Va.	-	-	
W.Va.	-	-	
N.C.	*	*	
S.C.	-	-	
Ga.	-	-	
Fla.	180	360	
East South Central			
Ky.	-	-	
Tenn.	127	1,524	
Ala.	-	7,700	Chemical
Miss.	-	-	
West South Central			
Ark.	-	-	
La.	3,821	11,526	Meat, beverages, etc.
Okla.	-	-	
Tex.	-	-	
Mountain			
Mont.	1	1	Lead in pottery
Ida.	-	-	
Wyo.	-	-	
Colo.	893	20,075	
N.M.	-	300	
Ariz.	-	-	
Utah	3	3	Mercury in chicken feed
Nev.	-	-	
Pacific			
Wash.	-	-	
Ore.	-	-	
Cal.	-	-	
Alaska	113	113	Bioassay for paralytic shellfish poison
Hawaii	-	-	
Guam	-	-	
P.R.	1,235	1,457	
V.I.	-	-	

TABLE 2-56. SANITARY AND ENVIRONMENTAL CHEMISTRY: WATER POLLUTION

	Total Specimens	Total Exams	Dissolved Oxygen	Phosphates
New England				
Me.	-	-	-	-
N.H.	-	-	-	-
Vt.	-	-	-	-
Mass.	-	-	-	-
R.I.	- (a)	-	-	-
Conn.	1,578	16,217	932	387
Middle Atlantic				
N.Y.	*	6,254	911	3,068
N.J.	5,422	59,858	2,850	4,941
Pa.	-	-	-	-
East North Central				
Ohio	6,542	63,657	*	*
Ind.	43,155	88,267	-	3,425
Ill.	-	285	-	19
Mich.	7,977	15,853	*	*
Wisc.	23,498	15,650	-	6,744
West North Central				
Minn.	-	-	-	-
Ia.	8,487	40,188	10,321	987
Mo.	-	-	-	-
N.D.	609	1,218	-	609
S.D.	(b)	1,185	-	480
Nebr.	-	-	-	-
Kans.	3,800	26,450	3,200	3,000
South Atlantic				
Del.	-	-	-	-
Md.	5,525	44,970	4,745	7,164
D.C.	-	-	-	-
Va.	-	-	-	-
W.Va.	-	-	-	-
N.C.	*	*	*	*
S.C.	*	138,890	* (o)	14,621
Ga.	-	-	-	-
Fla.	(d)	(d)	(d)	(d)
East South Central				
Ky.	-	-	-	-
Tenn.	1,961	22,806	*	*
Ala.	-	-	-	-
Miss.	885	885	-	-
West South Central				
Ark.	-	-	-	-
La.	195	195	49	45
Okla.	- (f)	-	-	-
Tex.	16,990	-	-	-
Mountain				
Mont.	2,796	26,182	86	1,498
Ida.	5,810	44,070	-	793
Wyo.	-	-	-	-
Colo.	2,582	11,274	-	59
N.M.	168	1,176	168	168
Ariz.	639	6,475	*	*
Utah	4,178	32,388	14,500	-
Nev.	589	5,528	-	-
Pacific				
Wash.	1,328	1,340	-	1,328
Ore.	-	-	-	-
Cal.	*	*	*	*
Alaska	-	-	-	-
Hawaii	532	2,083	532	532
Guam	-	-	-	-
P.R.	957	10,161	2,173	378
V.I.	-	-	-	-

TABLE 2-56. SANITARY AND ENVIRONMENTAL CHEMISTRY: WATER POLLUTION
(Continued)

	BOD	COD	Detergents	Other
New England				
Me.	-	-	-	-
N.H.	-	-	-	-
Vt.	-	-	-	-
Mass.	-	-	-	-
R.I.	-	-	-	-
Conn.	1,599	7	128	13,164
Middle Atlantic				
N.Y.	-	2,275	-	-
N.J.	10,770	1,174	3,458	36,665
Pa.	-	-	-	-
East North Central				
Ohio	*	*	*	174
Ind.	2,950	1,628	3	35,149
Ill.	-	-	266	-
Mich.	*	*	*	*
Wisc.	8,357	295	254	-
West North Central				
Minn.	-	-	-	-
Ia.	15,267	454	2	13,157
Mo.	-	-	-	-
N.D.	609	-	-	-
S.D.	705	-	-	-
Nebr.	-	-	-	-
Kans.	3,200	2,000	50	15,000
South Atlantic				
Del.	-	-	-	-
Md.	5,087	1,951	3	26,020
D.C.	-	-	-	-
Va.	-	-	-	-
W.Va.	-	-	-	-
N.C.	*	*	-	-
S.C.	* (o)	* (o)	*	*
Ga.	-	-	617	80,474
Fla.	(d)	(d)	(d)	(d)
East South Central				
Ky.	-	-	-	-
Tenn.	*	*	*	*
Ala.	-	-	-	-
Miss.	-	-	-	885
West South Central				
Ark.	-	-	-	-
La.	56	45	-	-
Okla.	-	-	-	-
Tex.	-	-	-	-
Mountain				
Mont.	224	43	-	24,331
Ida.	1,476	1,822	-	39,979
Wyo.	-	-	-	-
Colo.	2,582	390	195	8,048
N.M.	168	168	168	336
Ariz.	*	*	*	*
Utah	2,381	441	2,102	12,964
Nev.	5,528	-	-	-
Pacific				
Wash.	-	-	12	-
Ore.	-	-	-	-
Cal.	*	*	*	*
Alaska	-	-	-	-
Hawaii	100	2	10	907
Guam	-	-	-	-
P.R.	488	49	2	7,071
V.I.	-	-	-	-

TABLE 2-57. AIR POLLUTION

	Total Samples	Total Exams	Discrete Sampling	Continuous Sampling	No. of Stations
New England					
Me.	-	-	-	-	-
N.H.	-	-	-	-	-
Vt.	-	-	-	-	-
Mass.	-	-	-	-	-
R.I.	(p)	-	-	-	-
Conn.	9,913	14,667	X	X	73
Middle Atlantic					
N.Y.	*	18,208	X	X	(q)
N.J.	-	-	-	-	-
Pa.	-	-	-	-	-
East North Central					
Ohio	3,640	5,861	X	X	29 (r)
Ind.	- (s)	-	-	-	-
Ill.	-	-	-	-	-
Mich.	-	-	-	-	-
Wisc.	5,781	10,215	X	X	140
West North Central					
Minn.	-	-	-	-	-
Ia.	2,640	36,078	X	X	171
Mo.	-	-	-	-	-
N.D.	5,375	5,375	X	X	15
S.D.	164	164	X	-	-
Nebr.	-	-	-	-	-
Kans.	5,703	5,703	-	X	52
South Atlantic					
Del.	-	-	-	-	-
Md.	13,119	17,083	X	X	*
D.C.	46	46	X	-	-
Va.	(t)	-	-	-	-
W.Va.	-	-	-	-	-
N.C.	-	-	-	-	-
S.C.	- (u)	-	-	-	-
Ga.	-	-	-	-	-
Fla.	2,780 (v)	4,486 (v)	*	*	*
East South Central					
Ky.	24,000	24,000	X	-	-
Tenn.	98,211	98,211	X	X	58
Ala.	-	-	-	-	-
Miss.	-	-	-	-	-
West South Central					
Ark.	- (w)	-	-	-	-
La.	50	50	X	-	-
Okla.	- (f)	-	-	-	-
Tex.	2,600	6,125	X	-	12
Mountain					
Mont.	4,365	6,680	X	X	257
Ida.	2,872	3,470	X	X	75
Wyo.	-	-	-	-	-
Colo.	*	33,165	X	X	82
N.M.	9,708	10,572	-	X	40
Ariz.	1,467	7,896	X	-	34
Utah	373 (x)	373 (x)	X	-	-
Nev.	1,721	1,819	X	-	-
Pacific					
Wash.	- (y)	-	-	-	-
Ore.	- (h)	-	-	-	-
Cal.	4,190	20,947	X	-	-
Alaska	-	-	-	-	-
Hawaii	- (z)	-	-	-	-
Guam	- (i)	-	-	-	-
P.R.	3,431	3,431	X	-	18 (aa)
V.I.	-	-	-	-	-

TABLES 2-53 - 2-57. FOOTNOTES

- (a) Tests performed by Water Supply and Pollution Control Laboratory.
- (b) All water specimens included together.
- (c) Chemical examinations of drinking water performed by the Bureau of Environmental Science; chemical examinations of food made by the Bureau of Product Testing.
- (d) Drinking Water includes Swimming Water and Water Pollution. Does not include analyses performed by Department of Pollution Control and in city or county pollution control agencies. Complete Analysis and Partial Analysis included in the one total.
- (e) Water and Food Chemistry performed by the Division of Environmental Chemistry, Bureau of Environmental Services, Arkansas Department of Health.
- (f) Offered by Environmental Health Services, OSDH.
- (g) All drinking water exams included in one figure, not broken down further.
- (h) Performed by Department of Environmental Quality.
- (i) Handled by Guam Environmental Protection Agency.
- (j) Included with "Complete Analysis" total.
- (k) Total for partial analyses not broken down by type.
- (l) Tests performed by Milk Laboratory of Animal and Dairy Division.
- (m) Dairy Products and Food included together.
- (n) Included with "Milk and Cream," Table 2-49.
- (o) Field Lab Test - no information available.
- (p) Responsibility of Division of Air Pollution Control.
- (q) Industrial surveillance.
- (r) 26 high volume, 3 NO_x, SO₂.
- (s) Performed in Division of Sanitary Engineering, ISBH.
- (t) Air Pollution examinations made by the Bureau of Environmental Science.
- (u) Not under supervision of the State Laboratory Director.
- (v) Includes pollen counts, 1,074. Does not include analyses performed by Department of Pollution Control and in city or county pollution control agencies.
- (w) Handled by Department of Pollution Control and Ecology.
- (x) Restricted to analysis of beryllium; other examinations are made by field monitoring equipment and conducted by the Air Quality Section of the Bureau of Environmental Health.
- (y) Performed by Department of Ecology.
- (z) Handled by another branch in the Department of Health; but function transferred to central laboratories on July 1, 1974.
- (aa) 8 permanent, 10 temporary.

TABLE 2-58. OCCUPATIONAL HEALTH AND SAFETY

	Total Specimens	Total Exams	Chemical Analyses	
			Human Source	Environmental Source
New England				
Me.	-	-	-	-
N.H.	-	-	-	-
Vt.	-	-	-	-
Mass.	-	-	-	-
R.I.	- (a)	-	-	-
Conn.	988	2,344	1,952	392
Middle Atlantic				
N.Y.	-	-	-	-
N.J.	-	-	-	-
Pa.	-	-	-	-
East North Central				
Ohio	340	986	299	687
Ind.	- (b)	-	-	-
Ill.	-	-	-	-
Mich.	-	-	-	-
Wisc.	3,724	5,887	425	5,462
West North Central				
Minn.	-	-	-	-
Ia.	1,471	4,553	-	4,553
Mo.	6,938	6,859	6,850	9
N.D.	-	-	-	-
S.D.	-	-	-	-
Nebr.	-	-	-	-
Kans.	76	145	-	145
South Atlantic				
Del.	-	-	-	-
Md.	6,296	6,385	2,000	4,385
D.C.	407	407	-	407
Va.	(c)	-	-	-
W.Va.	-	-	-	-
N.C.	2,769	7,500 (d)	7,500	-
S.C.	1,384	1,384	1,384	-
Ga.	-	-	-	-
Fla.	- (e)	-	-	-
East South Central				
Ky.	2,087	7,970	-	7,970
Tenn.	2,030	4,857	-	4,857
Ala.	-	-	-	-
Miss.	-	-	-	-
West South Central				
Ark.	-	-	-	-
La.	-	-	-	-
Okla.	- (f)	-	-	-
Tex.	-	-	-	-
Mountain				
Mont.	218	442 (g)	-	330
Ida.	-	-	-	-
Wyo.	-	-	-	-
Colo.	-	-	-	-
N.M.	60	60	-	60
Ariz.	146	367	-	367
Utah	4,794	4,805	499	4,306
Nev.	-	-	-	-
Pacific				
Wash.	-	-	-	-
Ore.	- (h)	-	-	-
Cal.	1,224 (i)	2,423 (i)	172 (i)	2,251
Alaska	- (j)	-	-	-
Hawaii	- (k)	-	-	-
Guam	-	-	-	-
P.R.	-	-	-	-
V.I.	-	-	-	-

TABLE 2-59. RADIOACTIVITY

	Total Specimens	Total Exams	Air		Milk	
			Specimens	Exams	Specimens	Exams
New England						
Me.	645	794	191	192	23	45
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	929	1,878	246	257	43	253
Middle Atlantic						
N.Y.	*	7,977	*	*	*	*
N.J.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
East North Central						
Ohio	2,353	14,427	-	-	14	386
Ind.	- (b)	-	-	-	-	-
Ill.	578	978	138	202	28	58
Mich.	-	-	-	-	-	-
Wisc.	1,341	2,342	447	590	166	332
West North Central						
Minn.	-	-	-	-	-	-
Ia.	1,437	3,489	731	707	57	255
Mo.	26	- (1)	-	-	-	-
N.D.	1,227	1,227	1,032	1,032	159	159
S.D.	25	24	*	*	*	*
Nebr.	-	-	-	-	-	-
Kans.	2,336	2,336	250	250	588	588
South Atlantic						
Del.	32	64	-	-	-	-
Md.	1,167	2,489	394	805	62	327
D.C.	-	-	-	-	-	-
Va.	(c)	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	371	4,167	96	457	52	386
S.C.	- (m)	-	-	-	-	-
Ga.	-	-	-	-	-	-
Fla.	- (n)	-	-	-	-	-
East South Central						
Ky.	-	-	-	-	-	-
Tenn.	861	1,497	116	123	193	779
Ala.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	- (o)	-	-	-	-	-
La.	145	259	-	-	4	8
Okla.	- (f)	-	-	-	-	-
Tex.	701	1,402	-	-	260	520
Mountain						
Mont.	(p)	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	*	5,376	-	-	-	-
N.M.	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Utah	784	7,076	-	-	180	1,800
Nev.	-	-	-	-	-	-
Pacific						
Wash.	707	3,414	20	20	60	411
Ore.	- (q)	-	-	-	-	-
Cal.	5,217	19,021 (r)	3,397	(r)	60	(r)
Alaska	- (s)	-	-	-	-	-
Hawaii	- (t)	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-59. RADIOACTIVITY
(Continued)

	<u>Water and Rainfall</u>		<u>Atomic Energy Plant Monitoring</u>		<u>Other</u>	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	251	367	180	190	-	-
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	-	-
Conn.	283	700	32	85	325	583
Middle Atlantic						
N.Y.	*	*	*	*	*	*
N.J.	-	-	-	-	-	-
Pa.	-	-	-	-	-	-
East North Central						
Ohio	2,225	13,603	108	432	6	6
Ind.	-	-	-	-	-	-
Ill.	156	311	80	180	176	227
Mich.	-	-	-	-	-	-
Wisc.	598	1,160	-	-	130	260
West North Central						
Minn.	-	-	-	-	-	-
Ia.	188	399	-	-	461	2,128
Mo.	-	-	-	-	-	-
N.D.	36	36	-	-	-	-
S.D.	*	*	*	*	*	*
Nebr.	-	-	-	-	-	-
Kans.	1,147	1,147	-	-	351	351
South Atlantic						
Del.	32	64	-	-	-	-
Md.	680	1,326	(u)	(u)	31	31
D.C.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	223	3,324	(v)	(v)	-	-
S.C.	-	-	-	-	-	-
Ga.	-	-	-	-	-	-
Fla.	-	-	-	-	-	-
East South Central						
Ky.	-	-	-	-	-	-
Tenn.	529	572	(v)	(v)	23	23
Ala.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	-	-	-	-	-	-
La.	141	251	-	-	-	-
Okla.	-	-	-	-	-	-
Tex.	441	882	-	-	-	-
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	*	4,755	*	121	*	500
N.M.	-	-	-	-	-	-
Ariz.	-	-	-	-	-	-
Utah	357	4,763	-	-	247	513
Nev.	-	-	-	-	-	-
Pacific						
Wash.	164	587	120	1,132	343	1,264
Ore.	-	-	-	-	-	-
Cal.	257	(r)	874	(r)	629 (r)	(r)
Alaska	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-60. PESTICIDES

	Total Specimens	Total Exams	Milk		Water	
			Specimens	Exams	Specimens	Exams
New England						
Me.	140	411	-	-	5	60
N.H.	-	-	-	-	-	-
Vt.	- (w)	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	447	683	8	18	191	243
Conn.	34	2,315	*	118	*	171
Middle Atlantic						
N.Y.	*	77	*	*	*	*
N.J.	2,284	2,197	70	58	542	576
Pa.	-	-	-	-	-	-
East North Central						
Ohio	786	1,548	21	42	685	1,370
Ind.	726	1,128	634	943	8	8
Ill.	356	459	168	168	39	39
Mich.	1,423	5,273	-	-	6	24
Wisc.	231	2,162	-	-	-	-
West North Central						
Minn.	-	-	-	-	-	-
Ia.	593	1,832	-	-	567	1,728
Mo.	134	864	-	-	127	857
N.D.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	- (x)	-	-	-	-	-
Kans.	261	261	-	-	10	10
South Atlantic						
Del.	-	-	-	-	-	-
Md.	288	849	45	137	136	383
D.C.	-	-	-	-	-	-
Va.	- (y)	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	307 (z)	939 (z)	-	-	47	117
S.C.	3,000	7,024	-	-	-	-
Ga.	-	-	-	-	-	-
Fla.	912	11,090	(aa)	(aa)	(aa)	(aa)
East South Central						
Ky.	536	1,608	*	*	*	*
Tenn.	139	1,414	-	-	-	-
Ala.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	- (bb)	-	-	-	-	-
La.	289	289	53	53	8	8
Okla.	- (f)	-	-	-	-	-
Tex.	946	3,337	10	10	936	3,327
Mountain						
Mont.	15	40	-	-	1	2
Ida.	1,011	1,011	352	352	157	157
Wyo.	-	-	-	-	-	-
Colo.	646	646	407	407	-	-
N.M.	572	5,720	-	-	-	-
Ariz.	1,613	1,612	1,613 (cc)	1,543	(cc)	69
Utah	120	528	-	-	9	9
Nev.	54	432	54	432	-	-
Pacific						
Wash.	3,817	3,817	-	-	263	263
Ore.	-	-	-	-	-	-
Cal.	695	1,754	-	-	22	22
Alaska	- (s)	-	-	-	-	-
Hawaii	160	578	5	9	8	26
Guam	-	-	-	-	-	-
P.R.	10	10	-	-	10	10
V.I.	-	-	-	-	-	-

TABLE 2-60. PESTICIDES
(Continued)

	Food		Human Source		Environmental Source	
	Specimens	Exams	Specimens	Exams	Specimens	Exams
New England						
Me.	-	-	87	111	48	240
N.H.	-	-	-	-	-	-
Vt.	-	-	-	-	-	-
Mass.	-	-	-	-	-	-
R.I.	244	418	-	-	4	4
Conn.	34	655	*	24	*	1,347
Middle Atlantic						
N.Y.	*	*	*	*	*	*
N.J.	243	143	1,359	1,367	70	53
Pa.	-	-	-	-	-	-
East North Central						
Ohio	73	124	-	-	7	12
Ind.	84	177	-	-	-	-
Ill.	128	231	21	21	-	-
Mich.	-	-	1,276	4,673	141	576
Wisc.	-	-	-	-	231	2,162
West North Central						
Minn.	-	-	-	-	-	-
Ia.	-	-	-	-	26	104
Mo.	7	7	-	-	-	-
N.D.	-	-	-	-	-	-
S.D.	-	-	-	-	-	-
Nebr.	-	-	-	-	-	-
Kans.	2	2	-	-	249	249
South Atlantic						
Del.	-	-	-	-	-	-
Md.	107	329	-	-	-	-
D.C.	-	-	-	-	-	-
Va.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	-	-	258	818	2	4
S.C.	-	-	-	-	*	7,024
Ga.	-	-	-	-	-	-
Fla.	(aa)	(aa)	715	7,150	197	3,940
East South Central						
Ky.	*	*	*	*	*	*
Tenn.	-	-	-	-	139	1,414
Ala.	-	-	-	-	-	-
Miss.	-	-	-	-	-	-
West South Central						
Ark.	-	-	-	-	-	-
La.	124	124	-	-	104	104
Okla.	-	-	-	-	-	-
Tex.	-	-	-	-	-	-
Mountain						
Mont.	12	36	1	1	1	1
Ida.	-	-	-	-	502	502
Wyo.	-	-	-	-	-	-
Colo.	239	239	-	-	-	-
N.M.	-	-	-	-	572	5,720
Ariz.	-	-	-	-	-	-
Utah	5	5	94	502	12	12
Nev.	-	-	-	-	-	-
Pacific						
Wash.	-	-	3,115	3,115	439	439
Ore.	-	-	-	-	-	-
Cal.	6	6	595	1,654	72	72
Alaska	-	-	-	-	-	-
Hawaii	137	522	-	-	10	21
Guam	-	-	-	-	-	-
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 2-61. TOXICOLOGY: FORENSIC AND OTHER

	Total Specimens	Total Exams	Drug Analysis		
			Specimens	Forensic Exams	Other Exams
New England					
Me.	4,951	4,951	2,192	2,192	-
N.H.	-	-	-	-	-
Vt.	1,166	1,156	174	154	20
Mass.	30,000	30,000	-	-	-
R.I.	7,688	144,667	7,257	77,839	2,548
Conn.	21,520 (dd)	56,183	14,133	42,399	-
Middle Atlantic					
N.Y.	*	16,097	-	-	-
N.J.	-	-	-	-	-
Pa.	3,229	5,805	32	-	75
East North Central					
Ohio	1,290	1,485	31	21	10
Ind.	322	1,328	322	1,328	-
Ill.	6,128	8,646	2,874	1,364	1,510
Mich.	11,992	69,603	7,440	40,358	-
Wisc.	4,091	8,597	39	-	39
West North Central					
Minn.	-	-	-	-	-
Ia.	14,391	108,981	7,921	-	95,052
Mo.	88	106	-	-	-
N.D.	-	-	-	-	-
S.D.	-	-	-	-	-
Nebr.	4,918	15,649	4,344	15,075	-
Kans.	3,412	5,521	26	-	92
South Atlantic					
Del.	-	-	-	-	-
Md.	9,224	9,224	-	-	-
D.C.	19,132	23,693	-	-	-
Va.	(ee)	-	-	-	-
W.Va.	-	-	-	-	-
N.C.	(ff)	-	-	-	-
S.C.	17,003	22,763	2,880	-	8,640
Ga.	13,529	73,273	-	-	-
Fla.	24,857	107,628	10,338	40,668	684
East South Central					
Ky.	491	2,194	361	734	-
Tenn.	-	-	-	-	-
Ala.	-	-	-	-	-
Miss.	-	-	-	-	-
West South Central					
Ark.	- (gg)	-	-	-	-
La.	16	16	-	-	-
Okla.	- (hh)	-	-	-	-
Tex.	-	-	-	-	-
Mountain					
Mont.	2,943	2,943	81	-	81
Ida.	11,731	24,393	3,739	16,020	-
Wyo.	393	393	-	-	-
Colo.	33,704	33,704	24	24	-
N.M.	7,410	7,410	10	-	10
Ariz.	-	-	-	-	-
Utah	2,425	12,344	694	471	996
Nev.	-	-	-	-	-
Pacific					
Wash.	68	68	-	-	-
Ore.	-	-	-	-	-
Cal.	983	4,915	983	-	4,915
Alaska	10	10	10	-	10
Hawaii	25	113	18	-	105
Guam	-	-	-	-	-
P.R.	4,545	5,426	267	-	1,148
V.I.	594	594	594	-	594

TABLE 2-61. TOXICOLOGY: FORENSIC AND OTHER
(Continued)

	Tissues, Breath or Body Fluids						
	Specimens	Alcohol			Barbiturates	Lead	Other Heavy Metals
		Blood	Breath	Other			
New England							
Me.	2,759	1,219	1,087	25	110	25	12
N.H.	-	-	-	-	-	-	-
Vt.	992	798	-	-	-	110	18
Mass.	-	-	-	-	-	30,000	-
R.I.	431	5,446	-	-	3,017	-	350
Conn.	6,264	1,350	1,685	704	2,151	-	34
Middle Atlantic							
N.Y.	*	-	-	-	-	16,000	90
N.J.	-	-	-	-	-	-	-
Pa.	3,197	3,077	-	-	873	34	-
East North Central							
Ohio	1,259	503	321	21	12	515	75
Ind.	(ii)	-	-	-	-	-	-
Ill.	3,254	1,753	-	40	150	978	4
Mich.	4,552	8,208	-	892	20,145 (jj)	-	(jj)
Wisc.	4,052	1,472 (kk)	-	-	2,861	588	83
West North Central							
Minn.	-	-	-	-	-	-	-
Ia.	6,470	411	1,980	-	-	11,538	-
Mo.	88	-	-	-	-	106	-
N.D.	-	-	-	-	-	-	-
S.D.	-	-	-	-	-	-	-
Nebr.	574	229	158	187	-	-	-
Kans.	3,386	2,826	-	28	537	145	65
South Atlantic							
Del.	-	-	-	-	-	-	-
Md.	-	-	-	-	-	9,224	-
D.C.	19,132	3,072 (ll)	-	-	1,517	16,051	19
Va.	-	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-	-
N.C.	-	-	-	-	-	-	-
S.C.	14,123	-	-	-	-	13,746	-
Ga.	13,529	-	-	-	27,058	-	-
Fla.	14,519	5,484	(mm) 104	-	4,332	(e)	(e)
East South Central							
Ky.	130 (nn)	-	-	-	-	420	-
Tenn.	-	-	-	-	-	-	-
Ala.	-	-	-	-	-	-	-
Miss.	-	-	-	-	-	-	-
West South Central							
Ark.	-	-	-	-	-	-	-
La.	16	-	-	-	-	16	-
Okla.	-	-	-	-	-	-	-
Tex.	-	-	-	-	-	-	-
Mountain							
Mont.	2,862	736	951	45	(oo)	25	5
Ida.	7,992	208	4,908	1,973	15	211	239
Wyo.	393	393	-	-	-	-	-
Colo.	33,680	185	-	-	-	-	-
N.M.	7,400	150	7,000	-	10	200	40
Ariz.	-	-	-	-	-	-	-
Utah	1,731	1,442	-	-	4	-	1
Neu.	-	-	-	-	-	-	-
Pacific							
Wash.	68	-	-	-	-	68	-
Ore.	-	-	-	-	-	-	-
Cal.	-	-	-	-	-	-	-
Alaska	(j)	-	-	-	-	-	-
Hawaii	7	-	-	-	2	1	2
Guam	-	-	-	-	-	-	-
P.R.	4,278	4,198	-	-	-	50	25
V.I.	-	-	-	-	-	-	-

TABLE 2-61. TOXICOLOGY: FORENSIC AND OTHER
(Continued)

TABLE 2-62. EXAMS NOT INCLUDED ELSEWHERE

	Tissues, Breath, or Body Fluids			Specimens	Exams	Type of Test
	Narcotics	Psychotropic Agents	Others			
New England				Fla.	85	255 Bedding
Me.	42	239	-			
N.H.	-	-	-			
Vt.	-	-	56			
Mass.	-	-	-			
R.I.	51,400	1,050	3,017			
Conn.	4,458	160	706			
Middle Atlantic						
N.Y.	-	1	6			
N.J.	-	-	-			
Pa.	873	873	-			
East North Central						
Ohio	7	-	-			
Ind.	-	-	-			
Ill.	156	10	2,681			
Mich.	(jj)	(jj)	(jj)			
Wisc.	2,949	17	588			
West North Central						
Minn.	-	-	-			
Ia.	-	-	-			
Mo.	-	-	-			
N.D.	-	-	-			
S.D.	-	-	-			
Nebr.	-	-	-			
Kans.	500	746	582			
South Atlantic						
Del.	-	-	-			
Md.	-	-	-			
D.C.	1,517	-	1,517			
Va.	-	-	-			
W.Va.	-	-	-			
N.C.	-	-	-			
S.C.	-	-	377			
Ga.	27,058	13,529	5,628			
Fla.	11,070 (pp)	(pp)	45,286 (qq)			
East South Central						
Ky.	-	-	1,040 (rr)			
Tenn.	-	-	-			
Ala.	-	-	-			
Miss.	-	-	-			
West South Central						
Ark.	-	-	-			
La.	-	-	-			
Okla.	-	-	-			
Tex.	-	-	-			
Mountain						
Mont.	(oo)	-	1,100 (ss)			
Ida.	-	-	819 (tt)			
Wyo.	-	-	-			
Colo.	-	-	33,495 (uu)			
N.M.	-	-	-			
Ariz.	-	-	-			
Utah	-	-	9,430			
Nev.	-	-	-			
Pacific						
Wash.	-	-	-			
Ore.	-	-	-			
Cal.	-	-	-			
Alaska	-	-	-			
Hawaii	2	1	-			
Guam	-	-	-			
P.R.	5	-	-			
V.I.	-	-	-			

TABLES 2-58 - 2-62. FOOTNOTES

- (a) Responsibility of Division of Occupational Health.
- (b) Performed in Bureau of Engineering, ISBH.
- (c) Exams performed by the Bureau of Environmental Science.
- (d) Estimated examination totals maintained only since January 1, 1974.
- (e) Performed by Occupational Health Section.
- (f) Handled by Environmental Health Services, OSDH.
- (g) Includes 112 biological analyses, human source (cholinesterase activity).
- (h) Performed by Occupational Health Laboratory.
- (i) Includes Environmental Health and Safety, 140 specimens, 147 Human Source exams.
- (j) Services to be established in FY 1975.
- (k) Performed by Hawaii State Department of Labor.
- (l) Not performed in this laboratory.
- (m) Not under supervision of State Laboratory Director.
- (n) Performed by Radiological Health Section.
- (o) Performed by the Division of Radiological Health, Bureau of Environmental Health Services, Arkansas Department of Health.
- (p) Air and water samples referred to the EPA in Durham, N.C. and Denver, Colo., respectively; milk samples are sent to the radiological laboratory in Las Vegas, Nevada.
- (q) Performed by Radiation Health Laboratory.
- (r) Examinations broken down as follows: alpha, 1,647; beta, 4,909; low background beta, 1,288; gamma, 3,571; chemical determinations, 1,147. Calibration/Background: alpha, beta, carbon 14, 4,360; gamma, 876; low background beta, 1,223. Other specimens include sewage, 490; wipes, 103; diets, 36.
- (s) Functions transferred to Department of Environmental Conservation.
- (t) Done by another branch in the Department of Health.
- (u) Included in each of the other categories. This is pre-plant operation monitoring. Calvert Cliffs plant not yet in operation.
- (v) Included in other totals.
- (w) Planned for FY 75.
- (x) Nebraska Department of Agriculture has legal jurisdiction.
- (y) Performed by the Bureau of Product Testing.
- (z) Totals for January 1, 1974 - June 30, 1974 only.
- (aa) Milk, water, and food included with Environmental Source.
- (bb) Performed by the Division of Environmental Chemistry, Bureau of Environmental Services, Arkansas Department of Health.
- (cc) Milk and Water included together.
- (dd) Includes Criminological Examinations, 1,123 specimens, 2,536 exams.
- (ee) Exams performed by the Bureau of Forensic Science.
- (ff) These exams are performed by Medical Examiner Laboratory, Chapel Hill, N.C.

TABLES 2-58 - 2-62. FOOTNOTES
(Continued)

- (gg) Performed by the Divisions of Pharmacy and Environmental Chemistry, Bureau of Environmental Services, Arkansas Department of Health.
- (hh) Offered by the laboratories of the State Crime Bureau and Board of Unexplained Deaths in selected cases.
- (ii) Performed by Toxicology Laboratory, Indiana University School of Medicine.
- (jj) Barbiturates, Other Heavy Metals, Narcotics, Psychotropic Agents, and Others included in one figure.
- (kk) Figure includes urine exams.
- (ll) Represents all alcohol exams not specified by source of specimen.
- (mm) Performed by state and local law enforcement agencies.
- (nn) Represents cases, not specimens.
- (oo) Included with Other.
- (pp) Narcotics and Psychotropic Agents included together.
- (qq) Includes Urine Screening for Narcotics and Dangerous Drugs, 44,716.
- (rr) Represents all exams of Tissues, Breath, or Body Fluids except Lead.
- (ss) Thin-layer chromatography drug screen with confirmation by gas chromatography.
- (tt) Includes urines for methadone, 483.
- (uu) Screening (TLC).

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SECTION III

SPECIAL QUESTIONS ON DIAGNOSTIC WORKLOAD

TABLE 3-1. STATES REPORTING SCREENING FOR METABOLIC DISORDERS OTHER THAN PKU

	Methods	Disorders
<u>New England</u>		
Mass.	Guthrie (Leucine) Guthrie (Methionine) Guthrie (Tyrosine) Paigen (Galactose) Beutler (Enzyme Spot Test) Paper Chromatography	Maple Syrup Urine Disease (MSUD) Homocystinuria Tyrosinosis Galactosemia "Classical" Galactosemia Other Inborn Errors of Metabolism
R.I.	Paper Chromatography Fluorescent Spot Test Bacterial Inhibition Assay (BIA)	Amino Acid Screening Galactosemia MSUD, Homocystinuria
Conn.	Beutler and Baluda Efron and McCauley Fluorometric Enzyme Analysis (Hex A)	Galactosemia Amino Acids Tay-Sachs Disease
<u>Middle Atlantic</u>		
N.Y.	Beutler and Baluda Guthrie BIA Meuwissen, H. & Moore, E.	Galactosemia Branched Chain Ketonuria (MSUD) Adenosine Deaminase (since 8/73)
Pa.	Ames Dextrostix Screen, confirmed by AutoAnalyzer	Diabetes Mellitus
<u>East North Central</u>		
Ohio	Beutler Enzyme Guthrie BIA for Methionine	Galactosemia Homocystinuria
<u>South Atlantic</u>		
Md.	Guthrie BIA	Galactosemia, MSUD, Histidinemia, Methioninemia
W.Va.	Electrophoresis Chromatography	Hemoglobinopathies Aminoacidopathies (screening)
N.C.	Blau and Edwards	Tyrosinosis
<u>Pacific</u>		
Ore.	Guthrie BIA Beutler Enzyme Test Fluorescent Spot Test	MSUD, Homocystinuria, Tyrosinosis, Galactosemia Alpha-1 Antitrypsin Deficiency, Hereditary Angioneurotic Edema
Cal.	Beutler Spot Screening Test and Beutler Fluorometric Test (Reference analytical methodology established for a pilot study in newborn metabolic disease screening.)	Galactosemia
Alaska	BIA	MSUD
Guam	Qualitative Screening Tests on urine from NYHAN Amino Acids Metabolism and genetic variation	Mental Retardation

TABLE 3-2. STATES REPORTING ALCOHOL PROGRAMS HANDLED BY THE LABORATORY

	Sources of Specimens Tested	No. of Court Appearances	Sources of Funds for Program
<u>New England</u>			
Me.	Municipal, county, and law enforcement personnel (and a few private cases).	162	Highway Safety Project.
Vt.	All police departments (state, local, and sheriffs).	56	State.
R.I.	Medical examiner and hospital.	<10	State.
Conn.	Police departments, medical examiners, and pathologists.	24	State and U.S. Department of Transportation.
<u>Middle Atlantic</u>			
N.Y.	Specimens prepared in state laboratory and sent biannually to individuals desiring laboratory certification in blood alcohol testing (about 40 permits). Division also issues certificates to breath analysis operators who have completed an approved course of training and follow Departmental rules and regulations for breath testing (3311 permits).	-	State Department of Health.
Pa.	Specimens from victims of motor vehicle accidents are submitted by county coroners.	-	State.
<u>East North Central</u>			
Ohio	Defendants, police, sheriff departments, hospitals, coroners, trucking firms, state agencies.	28	State general fund; Federal (Title 402 DOT).
Ill.	Blood specimens from traffic safety study of fatal auto accident victims received from hospital, police; implied consent or other.	10	-
Mich.	Law enforcement agencies, medical examiners, physicians, and subjects arrested for DUIL. Lab also supervises statewide Breathalyzer Program with breath analyzed by law enforcement personnel.	132	State.
Wisc.	Traffic fatalities; implied consent and diagnostic alcohols.	10-15/yr.	Internal.
<u>West North Central</u>			
Ia.	County and state law enforcement officers.	27	Fees charged for specimen analysis and expert witness appearance.
Mo.	(Testing is not done. Bureau of Laboratory Services is charged with administering program.)	11	Federal and state funds.

TABLE 3-2. STATES REPORTING ALCOHOL PROGRAMS HANDLED BY THE LABORATORY
(Continued)

	Sources of Specimens Tested	No. of Court Appearances	Sources of Funds for Program
Nebr.	State patrol and selected local law enforcement agencies to augment locally available tests.	27	U.S. Department of Transportation (Highway Safety).
Kans.	Blood specimens only from law enforcement officers, coroners, and physicians.	60	State.
<u>South Atlantic</u>			
D.C.	Police Department, Department of Corrections, Welfare Department, courts.	(212 man-hours)	General Fund and Department of Transportation (\$40,000).
Fla.	Blood alcohol specimens are received from law enforcement agencies and medical examiner's offices. Breath alcohol testing is performed by local law enforcement technicians permitted by this agency.	-	State funds. U.S. Department of Transportation grant funds are available for special projects.
<u>East South Central</u>			
Miss.	(Lab only issues permits to law enforcement operators - no testing done.)	-	-
<u>West South Central</u>			
La.	Breath and blood specimens from suspected drunken drivers.	3	Louisiana Highway Safety Commission.
<u>Mountain</u>			
Mont.	Law enforcement officers, physicians, hospitals, and other laboratories.	28	Contract with Montana Highway Traffic Safety administrator. Department of Transportation, National Highway Safety Administration is the major contributor of funds.
Ida.	Blood and breath samples submitted by law enforcement agencies in connection with DWI arrests. Bloods submitted by coroners. Routine toxicology samples.	217	Traffic Safety Commission grant.
Wyo.	Law enforcement agencies and hospitals.	18	Highway Safety grant.
Colo.	Blood specimens from fatal auto and airplane accidents only.	95	Highway Safety.
N.M.	Police.	300	New Mexico Traffic Safety Commission.
Ariz.	The State Laboratory administers the chemical tests portion of Arizona's Implied Consent Law. No forensic specimens handled.	24/yr.	Included in State appropriation.
Utah	State Medical Examiner and law enforcement agencies.	(759 man-hours)	Is part of Bureau of Laboratories' budget. (This is a laboratory service, not a program, for blood alcohols only.)

TABLE 3-2. STATES REPORTING ALCOHOL PROGRAMS HANDLED BY THE LABORATORY
(Continued)

Sources of Specimens Tested	No. of Court Appearances	Sources of Funds for Program
<p><u>Pacific</u> Cal.</p> <p>Specimens produced by the Clinical Chemistry Laboratory proficiency test laboratories and personnel regulated by the California Department of Health; specimens related to evaluation of breath alcohol testing instruments for use in California; and specimens tested as a reference laboratory for proficiency testing programs of other states.</p>	1	State general fund.
<p>P.R.</p> <p>Drivers suspected of operating motor vehicles while intoxicated.</p>	475	Highway Traffic Safety Commission (50%).

TABLE 3-2. STATES REPORTING ALCOHOL PROGRAMS HANDLED BY THE LABORATORY
(Continued)

	Methodology	
	<u>Breath Alcohol Collection Kit Utilized:</u>	
	Mobat SM-7	Other
New England		
Me.	X	-
Vt.	-	-
R.I.	-	Breathalyzer
Conn.	-	Gas Chromatography Intoximeters
Middle Atlantic		
N.Y.	-	-
Pa.	-	-
East North Central		
Ohio	X	-
Ill.	-	-
Mich.	-	-
Wisc.	-	-
West North Central		
Ia.	-	Indium Tube Encapsulation
Mo.	-	-
Nebr.	X	-
Kans.	-	-
South Atlantic		
D.C.	-	Intoximeter
Fla.	-	-
East South Central		
Miss.	-	-
West South Central		
La.	-	-
Mountain		
Mont.	X	-
Ida.	X	Mobat SM-2
Wyo.	X	-
Colo.	-	-
N.M.	X	-
Ariz.	-	-
Utah	-	-
Pacific		
Cal.	X	Intoximeter Indium Tube Encapsulation/Kit
P.R.	-	Breathalyzer 900A.

TABLE 3-2. STATES REPORTING ALCOHOL PROGRAMS HANDLED BY THE LABORATORY
(Continued)

	Methodology			
	Test Procedures Used:			
	GC Headspace	Dichromate Reduction	Other	
New England				
Me.	-	-		GC direct injection with internal standard.
Vt.	-	-		Direct injection by gas chromatography.
R.I.	X	X		Quantitative GC; also qualitative.
Conn.	X	-		-
Middle Atlantic				
N.Y.	-	-		-
Pa.	X	-		-
East North Central				
Ohio	X	X		Enzyme.
Ill.	X	-		-
Mich.	X	X		-
Wisc.	-	-		Extraction and gas chromatography.
West North Central				
Ia.	X	-		-
Mo.	-	X		-
Nebr.	X	-		-
Kans.	X	-		-
South Atlantic				
D.C.	X	-		-
Fla.	X	-		(Breathalyzer used by most law enforcement agencies. A few use Mobat SM-7).
East South Central				
Miss.	-	-		-
West South Central				
La.	-	X		-
Mountain				
Mont.	X	-		Varian 1400 GC (thermal conductivity) for methyl alcohol, carbon monoxide, volatile solvents, and fatty acids. Direct breath on 16 Luckey Alco-Analyzers located in police stations.
Ida.	X	-		-
Wyo.	X	-		-
Colo.	X	-		-
N.M.	X	-		-
Ariz.	-	-		-
Utah	-	-		-
Pacific				
Cal.	X	X		Parker-Hine GC (direct injection with internal standard), Widmark diffusion, enzymatic.
P.R.	X	X		-

TABLE 3-3. OTHER SCREENING PROGRAMS

List of Programs	
<u>New England</u>	
Me.	Metals screening on all complete analyses (Cu, Fe); on public water supplies (Cd, Cr, Ag, Pb, Mn).
N.H.	Diabetes.
R.I.	Diabetes, lead, sickle cell anemia.
Conn.	Cooley's anemia, sickle cell anemia, lead poisoning, diabetes, cholesterol.
<u>Middle Atlantic</u>	
N.J.	Urine drug screening.
Pa.	Lead paint poisoning detection (federally funded).
<u>East North Central</u>	
Ohio	Chronic disease multiphasic screening (SMA-12). (Terminating at end of fiscal year.)
Ill.	Lead poisoning program - screening of children ages 1-6 for lead in blood; also determining environmental source of lead, such as paint.
Mich.	Regular screening: Michigan Diabetes Association, Detroit; Multiple Phasic Screening, Detroit; Kent County Screening Program; Western Upper Peninsula Screening Program; Delta-Menominee Health Department; Mobile Health Unit, Sault Ste Marie; Delta-Menominee Screening Program, Manistique. One-time screening: Mott Community College, Flint; Michigan Heart Association, Flint. Blood lead screening.
Wisc.	
<u>West North Central</u>	
Minn.	Syphilis screening (AFTA) for late latent syphilis.
Ia.	Childhood blood lead poisoning, methadone maintenance surveillance.
Mo.	Diabetes detection.
N.D.	Lead.
<u>South Atlantic</u>	
Md.	Annual diabetic screening; some lab support for a county heart disease program.
D.C.	Sickle cell anemia, multiphasic health screening, lead poisoning, venereal disease control, coronary intervention (cholesterol), cervical cancer.
N.C.	Diabetes screening, multiphasic screening, blood lead, hemoglobinopathy.
S.C.	Sickle cell and other hemoglobinopathies, blood lead for selected counties, multiphasic clinical chemistry.
Fla.	Medicaid recipients up to 21 years of age are screened for hemoglobinopathies.
<u>East South Central</u>	
Ky.	Sickle cell, cholinesterase, childhood lead.
Miss.	Diabetes.
<u>West South Central</u>	
La.	Group A beta hemolytic streptococci, GC cultures, sickle cell electrophoresis.
Okla.	Sickle cell, gonorrhea, blood chemistry (glucose, cholesterol).
Tex.	Title XIX - aid for dependent children medical screening: blood lead, total hemoglobin, abnormal hemoglobin, syphilis serology.
<u>Mountain</u>	
Mont.	Urine specimens for drugs for Southwestern Montana Drug Program and for "Lighthouse" Program.
Ida.	Methadone (not statewide).
Colo.	Methadone maintenance.
N.M.	Aminolevulinic acid (ALA).
Ariz.	Sickle cell.
<u>Pacific</u>	
Wash.	Sickle cell.
Ore.	Prenatal (rubella, PKU, and toxoplasmosis).
Cal.	The Clinical Chemistry Laboratory regulates drug urinalysis performed for state-approved methadone programs. It is anticipated that the Clinical Chemistry Laboratory will implement in 1975, legislatively mandated responsibilities to regulate testing for other genetic diseases in addition to PKU, and testing for cholinesterase activity in agricultural workers for monitoring exposure to organophosphate pesticides.
Alaska	Rubella screening of females and GC culture screening at Family Planning Clinics.
Guam	Chronic disease screening.

TABLE 3-4. ANALYTIC METHODS USED FOR DETERMINATION OF MERCURY

Methods	Purposes
<u>New England</u>	
Me.	Flameless atomic absorption.
Vt.	Atomic absorption spectrophotometry.
Mass.	Mixed color dithizone method.
R.I.	Dithizone.
Conn.	(a) Flameless atomic absorption spectrophotometry. (b) Dithizone titration.
<u>Middle Atlantic</u>	
N.J.	Cold vapor method by atomic absorption spectrophotometer.
<u>East North Central</u>	
Ohio	(a) Flameless atomic absorption (Hatch and Ott). (b) Cold vapor method with atomic absorption.
Ind.	Flameless atomic absorption.
Ill.	Cold vapor atomic absorption.
Wisc.	Flameless atomic absorption.
<u>West North Central</u>	
Ia.	Cold flame atomic absorption.
Mo.	Atomic absorption.
N.D.	Flameless atomic absorption.
Kans.	Flameless atomic absorption.
<u>South Atlantic</u>	
Md.	Flameless atomic absorption.
N.C.	Flameless atomic absorption.
S.C.	Flameless spectrophotometry.
Fla.	Flameless atomic absorption.
<u>West South Central</u>	
La.	(a) Flameless atomic absorption, after digestion with perchloric - nitric acid. (b) EPA procedure.
Tex.	Atomic absorption.
<u>Mountain</u>	
Mont.	(a) Flameless gold amalgam atomic absorption. (b) Varian mercury generator - atomic absorption method.
Ida.	Cold vapor atomic absorption spectrophotometry.
N.M.	Atomic absorption.
Ariz.	Flameless atomic absorption.
Utah	Atomic absorption spectrophotometry.
Nev.	Atomic absorption.
P.R.	Atomic absorption.

Screening public water supplies.
*

To control the amount of mercurial preservative in biologic products.
For medical examiner.
(a) Environmental studies - water, waste water, fish, and shellfish.
(b) Occupational exposure - urine.

*

(a) Blood and urine.
(b) Sewage, industrial wastes, and potable water supplies.
To determine mercury in water. To determine mercury in fish taken in rivers and streams in Indiana.
Specimens of milk, food and human sources.
*

Public water supplies, aquatic influence on wildlife, industrially related human exposure. Primarily water analysis, a few food samples.
Environmental monitoring.
Food products for contamination. Blood, urine, tissue for toxicological studies.

Water, sewage, foods, and environmental safety and health.
Water, blood, urine, etc.
Water and environmental specimens.
Analysis of urine, water, and fish specimens.

(a) Primarily seafoods.
(b) Water.
Water, sediment, and fish tissue.

(a) Air quality control.
(b) Water quality control.
Stream pollution activities and pesticides.
Water analysis.
Water analyses, food analyses, and analysis of human blood, hair, and urine.
*

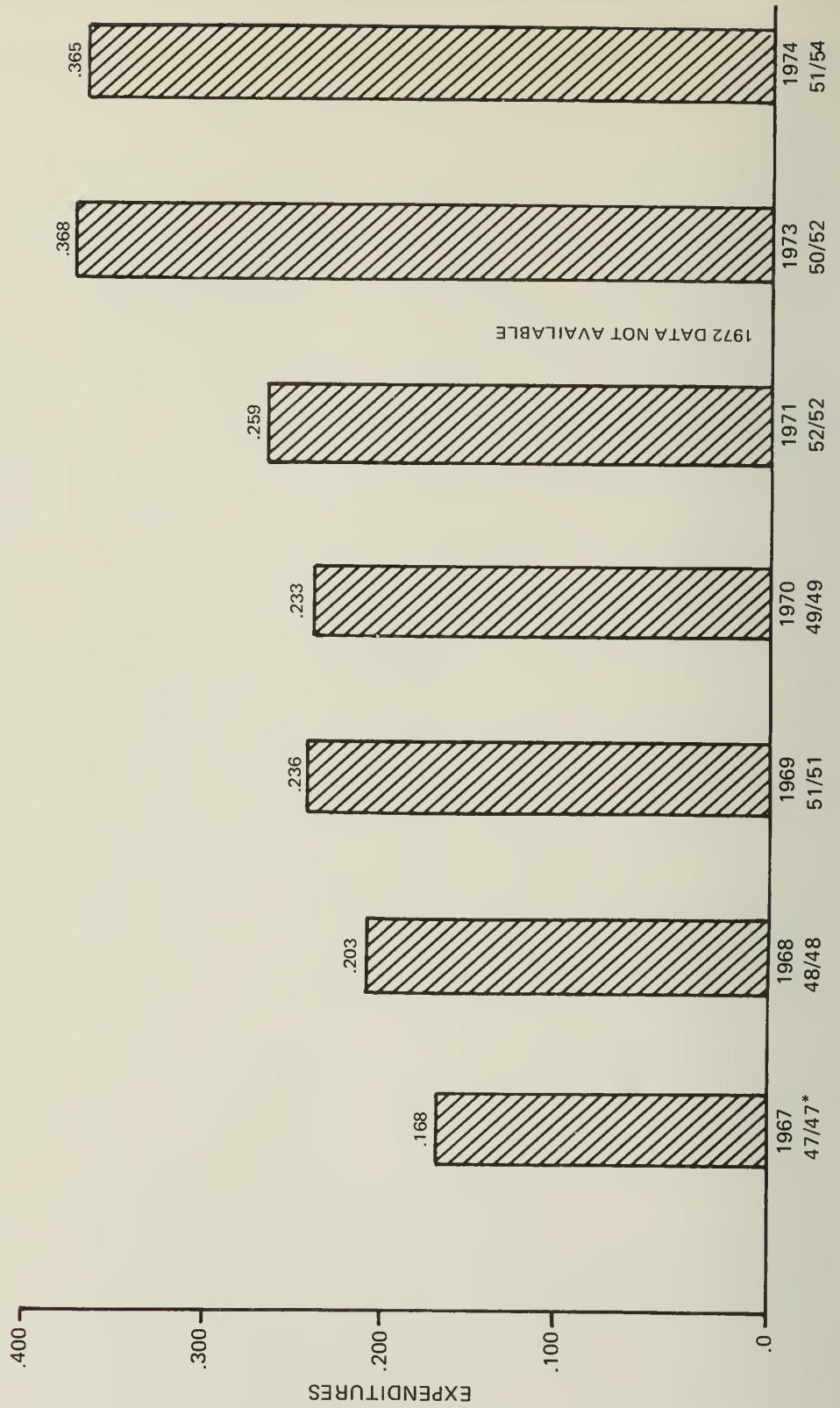
Water supplies.
Water, food, urine.

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SECTION IV

FINANCES

Figure 2
LABORATORY EXPENDITURES PER CAPITA



YEAR OF CONSOLIDATED ANNUAL REPORT

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

TABLE 4-1. LABORATORY EXPENDITURES

	Estimated Population (a)	Laboratory Expenditures (b)	Laboratory Expenditures Per Capita
New England			
Maine	1,029,000	\$ 574,976	\$ 0.559
New Hampshire	771,000	247,097	0.320
Vermont	462,000	345,920	0.749
Massachusetts	5,787,000	2,987,540	0.516
Rhode Island	968,000	1,020,000	1.054
Connecticut	3,082,000	2,345,122	0.761
Middle Atlantic			
New York	18,366,000	*	*
New Jersey	7,367,000	2,479,923	0.337
Pennsylvania	11,926,000	1,770,949	0.148
East North Central			
Ohio	10,783,000	2,252,324	0.209
Indiana	5,291,000	850,049	0.161
Illinois	11,251,000	2,097,400	0.186
Michigan	9,082,000	6,930,273	0.763
Wisconsin	4,520,000	3,163,660	0.700
West North Central			
Minnesota	3,896,000	*	*
Iowa	2,883,000	1,629,638	0.565
Missouri	4,753,000	553,879	0.116
North Dakota	632,000	281,874	0.446
South Dakota	679,000	209,596	0.309
Nebraska	1,525,000	260,400	0.171
Kansas	2,258,000	847,123	0.375
South Atlantic			
Delaware	565,000	191,088	0.338
Maryland	4,056,000	3,405,924	0.840
D.C.	748,000	1,045,127	1.397
Virginia	4,764,000	867,598	0.182
West Virginia	1,781,000	632,515	0.355
North Carolina	5,214,000	1,782,864	0.342
South Carolina	2,665,000	1,056,161	0.396
Georgia	4,720,000	2,176,693	0.461
Florida	7,259,000	2,380,808	0.328
East South Central			
Kentucky	3,299,000	676,093	0.205
Tennessee	4,031,000	1,647,625	0.409
Alabama	3,510,000	1,829,983	0.521
Mississippi	2,263,000	669,054	0.296
West South Central			
Arkansas	1,978,000	495,897	0.251
Louisiana	3,720,000	1,709,092	0.459
Oklahoma	2,634,000	535,027 (c)	0.203
Texas	11,649,000	2,493,310	0.214
Mountain			
Montana	719,000	257,995	0.359
Idaho	756,000	827,864 (d)	1.095
Wyoming	345,000	209,762	0.608
Colorado	2,357,000	977,600	0.415
New Mexico	1,065,000	987,986	0.928
Arizona	1,945,000	764,948	0.393
Utah	1,126,000	773,898	0.687
Nevada	527,000	326,834	0.620
Pacific			
Washington	3,443,000	*	*
Oregon	2,182,000	673,203	0.308
California	20,468,000	4,960,700	0.242
Alaska	325,000	683,400	2.103
Hawaii	809,000	564,543	0.698
Guam	85,000	151,792	1.786
Puerto Rico	2,712,000	832,269	0.307
Virgin Islands	62,000	157,021	2.533

TABLE 4-2. LABORATORY EXPENDITURES BY MAJOR PURPOSE

	Total Expenditures	Expenditures For Salaries	% of Total Expenditures For Salaries	Expenditures For Personnel Benefits	% of Total Expenditures For Personnel Benefits
New England					
Maine	\$ 574,976	\$ 370,116	64.4	\$ 40,713	7.1
New Hampshire	247,097	173,783	70.3	14,951	6.1
Vermont	345,920	264,802	76.5	-	-
Massachusetts	2,987,540	1,951,445	65.3	-	-
Rhode Island	1,020,000	663,000	65.0	80,000	7.8
Connecticut	2,345,122	1,945,444	83.0	27,775	1.2
Middle Atlantic					
New York	*	*	*	*	*
New Jersey	2,479,923	1,826,920	73.7	279,480	11.3
Pennsylvania	1,770,949	1,235,007	69.7	194,310	11.0
East North Central					
Ohio	2,252,324	1,258,369	55.9	418,984	18.6
Indiana	850,049	834,737	98.2 (e)	(e)	- (e)
Illinois	2,097,400	1,561,367	74.4	208,879	10.0
Michigan	6,930,273	4,442,498	64.1	781,810	11.3
Wisconsin	3,163,660	2,169,079	68.6	57,095	1.8
West North Central					
Minnesota	*	*	73.0	*	10.8
Iowa	1,629,638	960,690	59.0	136,996	8.4
Missouri	553,879	363,091	65.5	43,216	7.8
North Dakota	281,874	209,961	74.5	21,753	7.7
South Dakota	209,596	153,324	73.2	(f)	(f)
Nebraska	260,400	174,899	67.2	16,238	6.2
Kansas	847,123	581,836	68.7	72,130	8.5
South Atlantic					
Delaware	191,088	139,477	73.0	-	-
Maryland	3,405,924	2,672,073	78.5	4,368 (g)	0.1
D.C.	1,045,127	761,627	72.9	62,000	5.9
Virginia	867,598	690,548	79.6	-	-
West Virginia	632,515	425,673	67.3	25,426	4.0
North Carolina	1,782,864	1,174,948	65.9	192,572	10.8
South Carolina	1,056,161	790,066	74.8	-	-
Georgia	2,176,693	1,519,648	69.8	256,061	11.8
Florida	2,380,808	1,849,886	77.7	-	-
East South Central					
Kentucky	676,093	475,062	70.3	69,338	10.2
Tennessee	1,647,625	1,195,341	72.6	155,767	9.5
Alabama	1,829,983	1,427,931	78.0	158,387	8.7
Mississippi	669,054	390,283	58.3	49,709	7.4
West South Central					
Arkansas	495,897	365,661	73.7	52,784	10.6
Louisiana	1,709,092	1,210,010	70.8	132,663	7.8
Oklahoma	535,027	392,914	73.4	73,297	13.7
Texas	2,493,310	1,641,415	65.8	578,325	23.2
Mountain					
Montana	257,995	173,996	67.4	23,584	9.2
Idaho	827,864	494,000	59.7	93,000	11.2
Wyoming	209,762	97,164	46.3	14,575	7.0
Colorado	977,600	787,540	80.6	(f)	(f)
New Mexico	987,986	422,336	42.7	57,918	5.8
Arizona	764,948	584,521	76.4	(f)	(f)
Utah	773,898	487,361	63.0	107,219	13.8
Nevada	326,834	216,183	66.1	47,501	14.5
Pacific					
Washington	*	*	*	*	*
Oregon	673,203	495,460	73.6	-	-
California	4,960,700	3,657,000	73.7	493,700	10.0
Alaska	683,400	342,900	50.2	68,600	10.0
Hawaii	564,543	495,076	87.7	-	-
Guam	151,792	103,711	68.3	9,803	6.5
Puerto Rico	832,269	650,087	78.1	14,000	1.7
Virgin Islands	157,021	105,857	67.4	16,529	10.5

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

	Expenditures For Supplies	% of Total Expenditures For Supplies	Expenditures For Equipment	% of Total Expenditures For Equipment
New England				
Maine	\$ 112,183	19.5	\$ 25,696	4.5
New Hampshire	49,100	19.9	8,713	3.5
Vermont	44,189	12.8	11,376	3.3
Massachusetts	456,798	15.3	20,946	0.7
Rhode Island	66,000	6.5	150,000	14.7
Connecticut	255,464	10.9	44,350	1.9
Middle Atlantic				
New York	*	*	*	*
New Jersey	309,940	12.5	29,421	1.2
Pennsylvania	203,798	11.5	19,927	1.1
East North Central				
Ohio	234,940	10.4	138,526	6.2
Indiana	(e)	- (e)	(e)	- (e)
Illinois	170,582	8.1	25,000	1.2
Michigan	865,941	12.5	126,023	1.8
Wisconsin	721,713 (h)	22.8	40,000	1.3
West North Central				
Minnesota	*	15.0	*	1.0
Iowa	279,477	17.1	72,630	4.4
Missouri	124,408	22.5	16,414	3.0
North Dakota	26,086	9.3	3,410	1.2
South Dakota	26,408	12.6	4,902	2.3
Nebraska	23,291	9.0	7,450	2.9
Kansas	84,877	10.0	17,195	2.0
South Atlantic				
Delaware	29,140	15.3	5,813	3.0
Maryland	377,074	11.1	69,917	2.0
D.C.	205,000	19.6	12,000	1.2
Virginia	109,291	12.6	996	0.1
West Virginia	119,918	19.0	22,998	3.6
North Carolina	261,180	14.6	79,610	4.5
South Carolina	187,061	17.7	40,413	3.8
Georgia	331,162	15.2	51,442	2.3
Florida	392,000	16.5	68,000	2.8
East South Central				
Kentucky	121,117	17.9	7,278	1.1
Tennessee	147,043	8.9	72,770	4.4
Alabama	209,051	11.4	24,780	1.3
Mississippi	133,305	20.0	66,058	9.9
West South Central				
Arkansas	49,912	10.1	14,126	2.9
Louisiana	154,859	9.1	88,087	5.1
Oklahoma	35,587	6.7	4,488	0.8
Texas	205,920	8.3	60,000	2.4
Mountain				
Montana	51,846	20.1	4,698	1.8
Idaho	166,564	20.1	31,500	3.8
Wyoming	13,700	6.5	41,815	19.9
Colorado	178,350	18.2	3,850	0.4
New Mexico	135,003	13.7	274,298	27.8
Arizona	166,473	21.8	13,954	1.8
Utah	61,628	8.0	93,073	12.0
Nevada	57,450	17.6	1,500	0.5
Pacific				
Washington	*	*	*	*
Oregon	93,922	14.0	17,625	2.6
California	420,000	8.5	165,000	3.3
Alaska	66,100	9.7	68,000 (i)	10.0
Hawaii	53,647	9.5	15,820	2.8
Guam	19,000	12.5	8,878	5.8
Puerto Rico	75,300	9.0	62,821	7.6
Virgin Islands	14,254	9.1	12,719	8.1

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

	Expenditures For Travel	% of Total Expenditures For Travel	Other Expenditures	% of Total For Other Expenditures
New England				
Maine	\$ 8,432	1.4	\$ 17,836	3.1
New Hampshire	550	0.2	-	-
Vermont	1,472	0.4	24,081	7.0
Massachusetts	7,481	0.3	550,870	18.4
Rhode Island	4,000	0.4	57,000	5.6
Connecticut	3,373	0.1	68,716	2.9
Middle Atlantic				
New York	*	*	*	*
New Jersey	16,103	0.6	18,059	0.7
Pennsylvania	8,605	0.5	109,302	6.2
East North Central				
Ohio	7,322	0.3	194,183	8.6
Indiana	4,103	0.5	11,209	1.3
Illinois	12,250	0.6	119,322	5.7
Michigan	24,179	0.3	689,822	10.0
Wisconsin	(h)	-	175,773	5.5
West North Central				
Minnesota	*	0.2	-	-
Iowa	31,843	2.0	148,002	9.1
Missouri	6,750	1.2	-	-
North Dakota	2,813	1.0	17,851	6.3
South Dakota	3,174	1.5	21,788	10.4
Nebraska	8,708	3.3	29,814	11.4
Kansas	10,163	1.2	80,922	9.6
South Atlantic				
Delaware	1,014	0.5	15,644	8.2
Maryland	2,793	0.1	279,699	8.2
D.C.	4,500	0.4	-	-
Virginia	3,822	0.4	62,941	7.3
West Virginia	3,500	0.6	35,000	5.5
North Carolina	9,788	0.6	64,766	3.6
South Carolina	11,534	1.1	27,087	2.6
Georgia	17,030	0.8	1,350	0.1
Florida	70,922	3.0	-	-
East South Central				
Kentucky	3,278	0.5	20	-
Tennessee	10,652	0.6	66,052	4.0
Alabama	8,783	0.5	1,051	0.1
Mississippi	2,905	0.4	26,794	4.0
West South Central				
Arkansas	465	0.1	12,949	2.6
Louisiana	4,918	0.3	118,555	6.9
Oklahoma	2,452	0.5	26,289	4.9
Texas	7,650	0.3	-	-
Mountain				
Montana	3,871	1.5	-	-
Idaho	15,000	1.8	27,800	3.4
Wyoming	3,600	1.7	38,908	18.6
Colorado	7,860	0.8	-	-
New Mexico	11,822	1.2	86,609	8.8
Arizona	-	-	-	-
Utah	4,373	0.6	20,244	2.6
Nevada	2,700	0.8	1,500	0.5
Pacific				
Washington	*	*	*	*
Oregon	1,519	0.2	64,677	9.6
California	70,000	1.4	155,000	3.1
Alaska	7,600	1.1	130,200 (j)	19.0
Hawaii	-	-	-	-
Guam	400	0.3	10,000	6.6
Puerto Rico	10,000	1.2	20,061	2.4
Virgin Islands	1,422	0.9	6,240	4.0

TABLE 4-3. SOURCES OF LABORATORY FUNDS

	Expenditures	State Appropriation	Percent Appropriated by State	Federal Contributions	Percent Contributed by Federal Govt.
New England					
Maine	\$ 574,976	\$ 296,891	51.6	\$ 185,640	32.3
New Hampshire	247,097	151,297	61.2	95,800	38.8
Vermont	345,920	208,920	60.4	137,000	39.6
Massachusetts	2,987,540	2,574,378	86.2	413,162	13.8
Rhode Island	1,020,000	943,000	92.5	77,000	7.5
Connecticut	2,345,122	2,030,955	86.6	312,797	13.3
Middle Atlantic					
New York	*	*	*	*	*
New Jersey	2,479,923	1,678,348	67.7	787,971	31.8
Pennsylvania	1,770,949	1,728,944	97.6	42,005	2.4
East North Central					
Ohio	2,252,324	750,430	33.3	1,501,894	66.7
Indiana	850,049	700,659	82.4	149,390	17.6
Illinois	2,097,400	723,130	34.5	1,374,270	65.5
Michigan	6,930,273	5,854,200	84.5	1,004,062	14.5
Wisconsin	3,163,660	2,502,844	79.1	33,537	1.1
West North Central					
Minnesota	*	*	70.0	*	30.0
Iowa	1,629,638	909,295	55.8	36,688	2.2
Missouri	553,879	16,414	3.0	537,465	97.0
North Dakota	281,874	117,738	41.8	164,136	58.2
South Dakota	209,596	82,299	39.3	107,674	51.4
Nebraska	260,400	99,815	38.3	159,742	61.4
Kansas	847,123	531,186	62.7	229,697	27.1
South Atlantic					
Delaware	191,088	102,943	53.9	83,370	43.6
Maryland	3,405,924	3,332,454	97.8	73,470	2.2
D.C.	1,045,127	686,127	65.7	359,000	34.3
Virginia	867,598	867,598	100.0	-	-
West Virginia	632,515	396,456	62.7	196,059	31.0
North Carolina	1,782,864	1,149,440	64.5	325,593	18.2
South Carolina	1,056,161	819,066	77.6	139,337	13.2
Georgia	2,176,693	2,031,177	93.3	88,345	4.1
Florida	2,380,808	1,254,411	52.7	1,107,397	46.5
East South Central					
Kentucky	676,093	563,713	83.4	112,380	16.6
Tennessee	1,647,625	1,518,710	92.2	87,326	5.3
Alabama	1,829,983	726,628	39.7	969,355	53.0
Mississippi	669,054	221,207	33.1	430,711	64.4
West South Central					
Arkansas	495,897	296,425	59.8	199,422	40.2
Louisiana	1,709,092	1,610,887	94.2	25,451	1.5
Oklahoma	535,027 (c)	284,756	53.2	250,271	46.8
Texas	2,493,310	712,038	28.5	989,497	39.7
Mountain					
Montana	257,995	99,500	38.6	148,631	57.6
Idaho	827,864	476,656 (d)	57.6	305,208	36.9
Wyoming	209,762	83,804	40.0	117,458	56.0
Colorado	977,600	586,600	60.0	391,000	40.0
New Mexico	987,986	946,775	95.8	41,211	4.2
Arizona	764,948	195,012	25.5	491,970	64.3
Utah	773,898	500,071	64.6	273,827	35.4
Nevada	326,834	284,428	87.0	42,406	13.0
Pacific					
Washington	*	*	*	*	*
Oregon	673,203	505,809	75.1	132,540	19.7
California	4,960,700	4,720,700	95.2	-	-
Alaska	683,400	607,600	88.9	75,800	11.1
Hawaii	564,543	468,680	83.0	95,863	17.0
Guam	151,792	92,338	60.8	59,454	39.2
Puerto Rico	832,269	756,184	90.9	46,291	5.5
Virgin Islands	157,021	*	*	*	*

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

	Earned Income (Reimbursement For Services)	% of Total Expenditures From Earned Income	Other Sources	% of Total Expenditures From Other Sources
New England				
Maine	\$ 92,445	16.1	\$ -	-
New Hampshire	-	-	-	-
Vermont	-	-	-	-
Massachusetts	-	-	-	-
Rhode Island	-	-	-	-
Connecticut	-	-	1,370	0.1
Middle Atlantic				
New York	*	*	*	*
New Jersey	-	-	13,604	0.5
Pennsylvania	-	-	-	-
East North Central				
Ohio	-	-	-	-
Indiana	-	-	-	-
Illinois	-	-	-	-
Michigan	-	-	72,011 (k)	1.0
Wisconsin	627,279	19.8	-	-
West North Central				
Minnesota	-	-	-	-
Iowa	304,234	18.7	379,421	23.3
Missouri	-	-	-	-
North Dakota	-	-	-	-
South Dakota	1,141	0.5	18,482 (l)	8.8
Nebraska	843 (m)	0.3	-	-
Kansas	86,240	10.2	-	-
South Atlantic				
Delaware	-	-	4,775	2.5
Maryland	-	-	-	-
D.C.	-	-	-	-
Virginia	-	-	-	-
West Virginia	5,000	0.8	35,000 (n)	5.5
North Carolina	163,913	9.2	143,918	8.1
South Carolina	92,121	8.7	5,637	0.5
Georgia	57,171	2.6	-	-
Florida	19,000	0.8	-	-
East South Central				
Kentucky	-	-	-	-
Tennessee	41,589	2.5	-	-
Alabama	134,000	7.3	-	-
Mississippi	17,136	2.5	-	-
West South Central				
Arkansas	50	-	-	-
Louisiana	-	-	72,754	4.3
Oklahoma	-	-	-	-
Texas	791,775	31.8	-	-
Mountain				
Montana	4,600	1.8	5,264 (o)	2.0
Idaho	40,000	4.8	6,000	0.7
Wyoming	-	-	8,500	4.0
Colorado	-	-	-	-
New Mexico	-	-	-	-
Arizona	-	-	77,966	10.2
Utah	-	-	-	-
Nevada	-	-	-	-
Pacific				
Washington	*	*	*	*
Oregon	11,562	1.7	23,292	3.5
California	240,000	4.8	-	-
Alaska	-	-	-	-
Hawaii	-	-	-	-
Guam	-	-	-	-
Puerto Rico	29,794	3.6	-	-
Virgin Islands	*	*	*	*

SECTION IV. FOOTNOTES

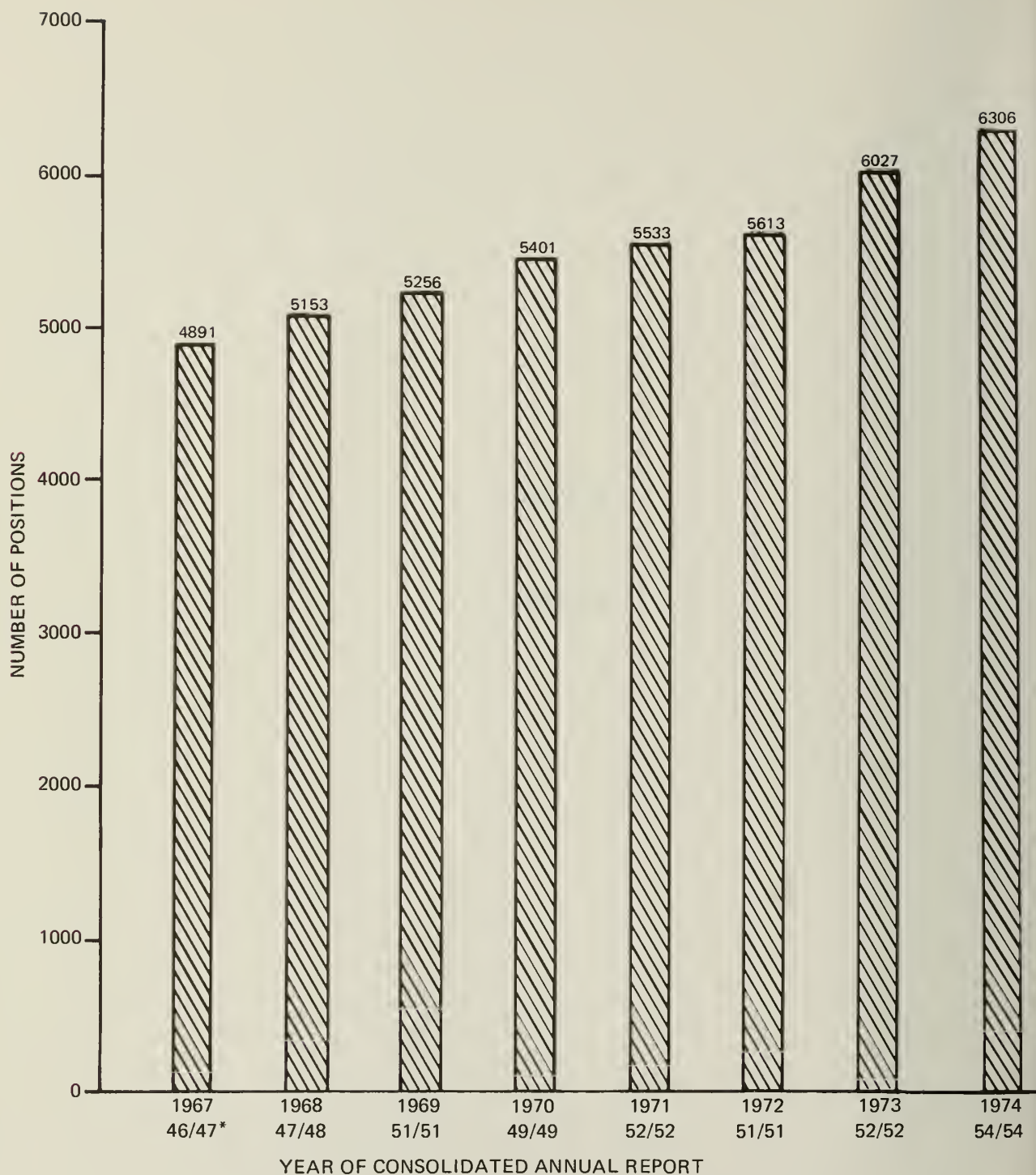
- (a) Estimated population as of July 1, 1972. Taken from Statistical Abstract of the United States: 1973. U. S. Bureau of the Census. (94th Edition) Washington, D.C., 1973, pages 13 and 792. Figures for Guam, Puerto Rico, and the Virgin Islands are as of April 1, 1970, based on census count.
- (b) Figures represent the latest complete fiscal year, July 1, 1973 - June 30, 1974, with these exceptions: New York, 4/1/73 - 3/31/74, and Texas, 9/1/73 - 8/31/74.
- (c) Does not include personnel and supplies funded by other agency departments and projects but assigned to the Laboratory Service.
- (d) State appropriation includes \$194,600 of special environmental funds.
- (e) Breakdown of expenditures for Personnel Benefits, Supplies, and Equipment is not available.
- (f) Included with Salaries.
- (g) Amount for federal employees only; state employees' benefits not funded in Laboratories Administration.
- (h) Supplies and Travel included together.
- (i) Represents contractual services: rents, utilities, phone, postage, janitorial.
- (j) Includes \$58,000 towards an OSHA laboratory.
- (k) Private aid.
- (l) Funds received from other sources to make up a deficit.
- (m) Since January 1974 only.
- (n) Spent from other program budgets (MCH - Heart) and lapsed funds, \$30,000 supplies and \$5,000 equipment.
- (o) Deficit spending.

LIBRARY OF L. URBANA - CHAMPAIGN

SECTION V

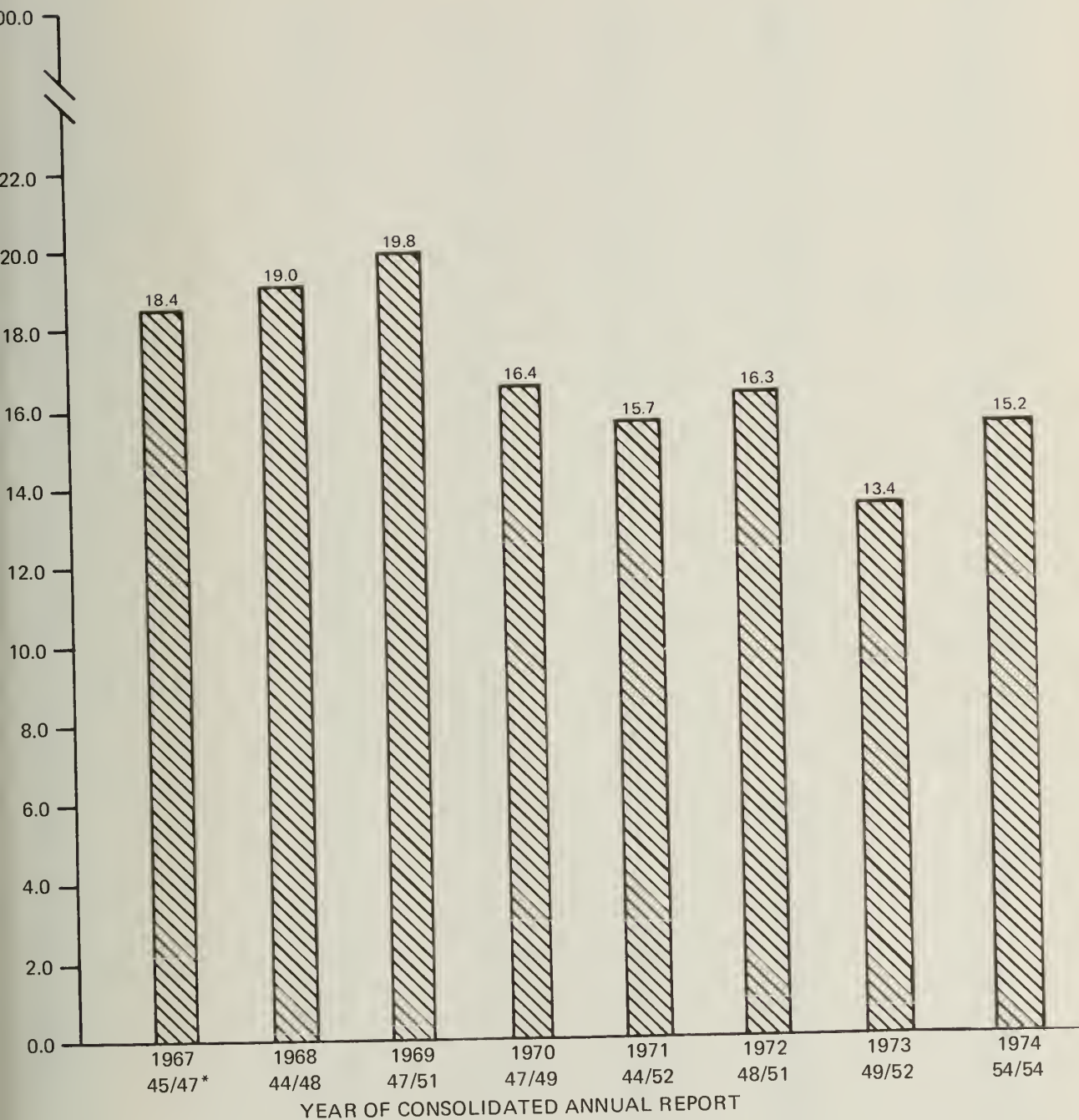
PERSONNEL

Figure 3
 POSITIONS AUTHORIZED FOR
 STATE PUBLIC HEALTH LABORATORIES



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

Figure 4
PERCENTAGE OF TURNOVER
IN ALL POSITIONS



*45/47 = INDICATES 45 LABS REPORTING THIS TYPE DATA OUT OF 47 LABS REPORTING

TABLE 5-1. LABORATORY STAFFING

	Total Budgeted Positions	Management Positions (a)	Clerical Positions (b)	Professional and Technical Positions (c)	Supportive Services Positions (d)	Maintenance Positions (e)
New England						
Me.	47	2	7	32	6	-
N.H.	22	1	4	14	3	-
Vt.	26	5	4	13	4	-
Mass.	245	15	40	98	65	27
R.I.	72	2	8	52	10	-
Conn.	225	6	34	147	37	1
Middle Atlantic						
N.Y.	803	12	114	505	88	84
N.J.	226	2	20	156	48	-
Pa.	117	7	16	81	9	4
East North Central						
Ohio	188	7	24	117	28	12
Ind.	81	6	11	52	12	-
Ill.	135	11	23	72	29	-
Mich.	419	16	34	239	86	44
Wisc.	151	16	23	87	25	-
West North Central						
Minn.	87	6	19	45	17	-
Ia.	103	9	14	64	16	-
Mo.	51	2	6	33	9	1
N.D.	29½	1	4½	19	4	1
S.D.	20	1	2	11	5	1
Nebr.	29	3	5	18	3	-
Kans.	74½	2	13	47	11½	1
South Atlantic						
Del.	33	1	4	23	5	-
Md.	278	3	35	193	39	8
D.C.	74	2	7	62	3	-
Va.	94	5	14	58	17	-
W.Va.	56	4	9	33	7	3
N.C.	127	10	16	81	19	1
S.C.	132	7	14	98	12	1
Ga.	173	8	30	97	37	1
Fla.	225	11	30	141	41	2
East South Central						
Ky.	67	5	7	41	13	1
Tenn.	133	9	21	73	30	-
Ala.	190	12	26	131	20	1
Miss.	50	1	9	32	8	-
West South Central						
Ark.	54	2	9	35	7	1
La.	154	10	37	75	32	-
Okla.	58½	2	7	37	12½	-
Tex.	196	4	19	126	47	-
Mountain						
Mont.	32½	3	4	22	3½	-
Ida.	62	2	8	46	2	4
Wyo.	11½	1	1½	7	2	-
Colo.	79	3	6	46	23	1
N.M.	56	6	14	29	6	1
Ariz.	54	2	9	36	6	1
Utah	58	3	8	40	7	-
Nev.	25	2	3	13	7	-
Pacific						
Wash.	86	9	20	44	12	1
Ore.	53	3	11	35	4	-
Cal.	289	16	40	174	59	-
Alaska	30	4	6	12	8	-
Hawaii	51	2	4	32	13	-
Guam	14	1	1	10	2	-
P.R.	149	2	18	95	18	16
V.I.	11	1	1	8	1	-

TABLE 5-2. PERSONNEL DISTRIBUTION

	PERCENT OF TOTAL				
	Management Positions %	Clerical Positions %	Professional and Technical Positions %	Supportive Services Positions %	Maintenance Positions %
New England					
Me.	4.2	14.9	68.1	12.8	-
N.H.	4.6	18.2	63.6	13.6	-
Vt.	19.2	15.4	50.0	15.4	-
Mass.	6.1	16.3	40.0	26.6	11.0
R.I.	2.8	11.1	72.2	13.9	-
Conn.	2.7	15.1	65.3	16.5	0.4
Middle Atlantic					
N.Y.	1.5	14.2	62.9	10.9	10.5
N.J.	0.9	8.9	69.0	21.2	-
Pa.	6.0	13.7	69.2	7.7	3.4
East North Central					
Ohio	3.7	12.8	62.2	14.9	6.4
Ind.	7.4	13.6	64.2	14.8	-
Ill.	8.2	17.0	53.3	21.5	-
Mich.	3.8	8.1	57.1	20.5	10.5
Wisc.	10.6	15.2	57.6	16.6	-
West North Central					
Minn.	6.9	21.8	51.7	19.6	-
Ia.	8.7	13.6	62.1	15.6	-
Mo.	3.9	11.8	64.7	17.6	2.0
N.D.	3.4	15.3	64.4	13.5	3.4
S.D.	5.0	10.0	55.0	25.0	5.0
Nebr.	10.3	17.3	62.1	10.3	-
Kans.	2.7	17.5	63.1	15.4	1.3
South Atlantic					
Del.	3.0	12.1	69.7	15.2	-
Md.	1.1	12.6	69.4	14.0	2.9
D.C.	2.7	9.5	83.8	4.0	-
Va.	5.3	14.9	61.7	18.1	-
W.Va.	7.1	16.1	58.9	12.5	5.4
N.C.	7.9	12.6	63.8	14.9	0.8
S.C.	5.3	10.6	74.2	9.1	0.8
Ga.	4.6	17.3	56.1	21.4	0.6
Fla.	4.9	13.3	62.7	18.2	0.9
East South Central					
Ky.	7.5	10.4	61.2	19.4	1.5
Tenn.	6.8	15.8	54.9	22.5	-
Ala.	6.3	13.7	69.0	10.5	0.5
Miss.	2.0	18.0	64.0	16.0	-
West South Central					
Ark.	3.7	16.7	64.8	13.0	1.8
La.	6.5	24.0	48.7	20.8	-
Okla.	3.4	12.0	63.2	21.4	-
Tex.	2.0	9.7	64.3	24.0	-
Mountain					
Mont.	9.2	12.3	67.7	10.8	-
Ida.	3.2	12.9	74.2	3.2	6.5
Wyo.	8.7	13.0	60.9	17.4	-
Colo.	3.8	7.6	58.2	29.1	1.3
N.M.	10.7	25.0	51.8	10.7	1.8
Ariz.	3.7	16.7	66.7	11.1	1.8
Utah	5.2	13.8	69.0	12.0	-
Nev.	8.0	12.0	52.0	28.0	-
Pacific					
Wash.	10.5	23.2	51.2	14.0	1.1
Ore.	5.7	20.8	66.0	7.5	-
Cal.	5.5	13.9	60.2	20.4	-
Alaska	13.3	20.0	40.0	26.7	-
Hawaii	3.9	7.9	62.7	25.5	-
Guam	7.2	7.2	71.4	14.2	-
P.R.	1.3	12.1	63.8	12.1	10.7
V.I.	9.1	9.1	72.7	9.1	-

TABLE 5-3. NEW POSITIONS ESTABLISHED DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total No. of New Positions
New England						
N.H.	-	-	1	1		2
R.I.	-	1	7	1		9
Conn.	-	-	3	-		3
Middle Atlantic						
N.J.	-	1	13	3		17
Pa.	-	2	8	-		10
East North Central						
Ohic	-	3	6	-		9
Ind.	-	1	7	-		8
Ill.	2	1	10	3		16
Mich.	-	1	20	2		23
Wisc.	-	-	2	-		2
West North Central						
Minn.	-	1	-	-		1
Ia.	-	-	1	2		3
N.D.	-	-	1	-		1
Nebr.	-	-	1	1		2
Kans.	1	-	5	-		6
South Atlantic						
Del.	-	1	1	-		2
Md.	-	-	-	2		2
D.C.	-	-	1	-		1
Va.	-	-	1	-		1
W.Va.	-	-	$\frac{1}{2}$	2		$2\frac{1}{2}$
N.C.	-	-	3	-		3
S.C.	-	7	17	1		25
Ga.	3	3	8	-		14
Fla.	-	1	10	-		11
East South Central						
Ala.	-	4	2	1		7
Miss.	-	-	2	-		2
West South Central						
Ark.	1	1	2	-		4
Okla.	-	-	7	-		7
Tex.	-	-	4	-		4
Mountain						
Mont.	-	$\frac{1}{2}$	2	-		$2\frac{1}{2}$
Ida.	-	1	2	-		3
Colo.	-	1	2	-		3
N.M.	3	-	-	1		4
Ariz.	-	-	2	-		2
Pacific						
Wash.	1	6	6	1		14
Cal.	3	-	4	-		7
Alaska	-	-	-	3		3
Guam	-	-	1	-		1
V.I.	-	1	-	-		1

NONE

TABLE 5-4. POSITIONS ABOLISHED DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total No. of Positions Abolished
New England						
Mass.	-	-	4	-		4
Middle Atlantic						
N.J.	-	1	1	2		4
Pa.	-	1	1	-		2
East North Central						
Ohio	-	-	-	1		1
Ill.	3	-	12	-		15
Mich.	-	-	5	1		6
Wisc.	-	-	3	1		4
West North Central						
Nebr.	-	-	2	1		3
South Atlantic						
Md.	-	-	-	3		3
W.Va.	-	2	$\frac{1}{2}$	-	NONE	$2\frac{1}{2}$
N.C.	-	-	1	-		1
S.C.	-	7	10	2		19
Fla.	-	-	3	2		5
West South Central						
Ark.	-	1	-	-		1
Okla.	-	-	-	$3\frac{1}{2}$		$3\frac{1}{2}$
Tex.	1	-	13	2		16
Mountain						
N.M.	-	1	-	-		1
Ariz.	-	1	-	-		1
Nev.	-	-	2	-		2
Pacific						
Cal.	3	-	11	-		14
Hawaii	1	-	1	-		2

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

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total Hired
New England						
Me.	-	-	-	1	-	1
N.H.	-	2	1	1	-	4
Vt.	-	-	3	-	-	3
Mass.	1	10	8	13	19	51
R.I.	1	3	12	1	-	17
Conn.	-	2	31	5	-	38
Middle Atlantic						
N.Y.	3	31	84	26	11	155
N.J.	-	2	19	11	-	32
Pa.	-	4	9	2	-	15
East North Central						
Ohio	-	2	20	7	-	29
Ind.	-	3	7	1	-	11
Ill.	-	5	8	5	-	18
Mich.	1	3	31	14	4	53
Wisc.	4	4	19	3	-	30
West North Central						
Minn.	-	4	4	7	-	15
Ia.	-	5	4	7	-	16
Mo.	-	-	5	1	-	6
N.D.	-	-	4	-	-	4
S.D.	-	-	-	-	-	-
Nebr.	-	-	5	1	-	6
Kans.	-	2	9	7½	-	18½
South Atlantic						
Del.	-	2	5	1	-	8
Md.	-	4	20	3	2	29
D.C.	-	-	1	-	-	1
Va.	-	3	4	1	-	8
W.Va.	-	2	8½	2	-	12½
N.C.	-	6	12	4	-	22
S.C.	1	3	22	6	-	32
Ga.	3	13	28	-	3	47
Fla.	-	10	23	9	-	42
East South Central						
Ky.	1	1	3	5	-	10
Tenn.	1	4	7	3	-	15
Ala.	-	8	17	4	-	29
Miss.	-	2	4	1	-	7
West South Central						
Ark.	-	8	10	13	-	31
La.	-	12	16	6	-	34
Okla.	-	3	4	4	-	11
Tex.	1	7	33	22	-	63
Mountain						
Mont.	1	1½	4	2	-	8½
Ida.	-	2	8	-	-	10
Wyo.	-	-	-	-	-	-
Colo.	-	2	3	6	-	11
N.M.	3	4	9	4	1	21
Ariz.	-	3	5	2	-	10
Utah	-	4	2	6	-	12
Nev.	-	-	1	1	-	2
Pacific						
Wash.	-	8½	16	5	-	29½
Ore.	1	5	8	3	-	17
Cal.	-	-	-	-	-	-
Alas.	-	2	-	6	-	8
Hawaii	-	-	-	1	-	1
Guam	-	-	2	-	-	2
P.R.	-	-	-	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-6. RESIGNATIONS AND SEPARATIONS DURING REPORTING PERIOD

	Management	Clerical	Professional and Technical	Supportive Services	Maintenance	Total Resignations and Separations
New England						3
Me.	-	1	1	1	-	2
N.H.	-	2	-	-	-	3
Vt.	-	-	3	-	-	55
Mass.	1	10	12	13	19	8
R.I.	-	2	5	1	-	29
Conn.	-	1	22	6	-	
Middle Atlantic						96
N.Y.	3	25	37	18	13	41
N.J.	-	5	21	15	-	13
Pa.	-	4	8	-	1	
East North Central						30
Ohio	1	3	18	8	-	12
Ind.	-	3	8	1	-	20
Ill.	2	2	10	6	-	52
Mich.	1	4	28	14	5	27
Wisc.	1	5	18	3	-	
West North Central						13
Minn.	1	3	4	5	-	20
Ia.	-	6	8	6	-	6
Mo.	-	-	5	1	-	2
N.D.	-	-	2	-	-	-
S.D.	-	-	-	-	-	8
Nebr.	-	-	7	1	-	16½
Kans.	-	2	6	8½	-	
South Atlantic						4
Del.	-	2	1	1	-	36
Md.	-	8	25	3	-	5
D.C.	-	-	5	-	-	8
Va.	-	3	4	1	-	7½
W.Va.	½	3	4	-	-	22
N.C.	1	6	12	3	-	14
S.C.	-	-	9	5	-	29
Ga.	-	9	18	-	2	42
Fla.	-	10	24	8	-	
East South Central						13
Ky.	1	2	4	6	-	17
Tenn.	3	4	7	3	-	22
Ala.	-	4	15	3	-	4
Miss.	-	-	3	1	-	
West South Central						25
Ark.	-	8	5	12	-	29
La.	1	8	13	7	-	12
Okla.	-	2	6	4	-	64
Tex.	-	9	32	23	-	
Mountain						6
Mont.	1	1	2	2	-	7
Ida.	-	1	6	-	-	-
Wyo.	-	-	-	-	-	11
Colo.	-	2	3	6	-	11
N.M.	-	7	2	2	-	10
Ariz.	-	3	5	2	-	12
Utah	-	4	2	6	-	2
Nev.	-	-	1	1	-	
Pacific						14½
Wash.	1	4½	6	3	-	10
Ore.	-	5	4	1	-	-
Cal.	-	-	-	-	-	8
Alaska	-	2	-	6	-	1
Hawaii	-	-	1	-	-	4
Guam	-	-	4	-	-	11
P.R.	-	-	11	-	-	-
V.I.	-	-	-	-	-	-

TABLE 5-7. NUMBER OF POSITIONS FILLED AS OF CLOSING DATE OF PERIOD COVERED BY REPORT

	(Number of Vacancies in Parentheses)					Total Filled Positions	Percent Budgeted Positions Filled
	Management	Clerical	Professional and Technical	Supportive Services	Maintenance		
New England							
Me.	2	6 (1)	30 (2)	6	-	44 (3)	93.6
N.H.	1	4	14	3	-	22	100.0
Vt.	5	4	13	4	-	26	100.0
Mass.	14 (1)	40	94 (4)	65	27	240 (5)	98.0
R.I.	2	8	50 (2)	10	-	70 (2)	97.2
Conn.	6	32 (2)	137 (10)	35 (2)	1	211 (14)	93.8
Middle Atlantic							
N.Y.	10 (2)	102 (12)	453 (52)	87 (1)	83 (1)	735 (68)	91.5
N.J.	2	19 (1)	139 (17)	46 (2)	-	206 (20)	91.2
Pa.	7	13 (3)	72 (9)	9	3 (1)	104 (13)	88.9
East North Central							
Ohio	6 (1)	20 (4)	111 (6)	27 (1)	12	176 (12)	93.6
Ind.	6	10 (1)	51 (1)	12	-	79 (2)	97.5
Ill.	11	23	72	29	-	135	100.0
Mich.	15 (1)	32 (2)	229 (10)	83 (3)	43 (1)	402 (17)	95.9
Wisc.	16	22 (1)	79 (8)	24 (1)	-	141 (10)	93.4
West North Central							
Minn.	5 (1)	19	45	17	-	86 (1)	98.9
Ia.	9	13 (1)	62 (2)	15 (1)	-	99 (4)	96.1
Mo.	2	6	32 (1)	9	1	50 (1)	98.0
N.D.	1	4½	19	4	1	29½	100.0
S.D.	1	2	11	5	1	20	100.0
Nebr.	2 (1)	5	16 (2)	3	-	26 (3)	89.7
Kans.	1 (1)	13	44 (3)	11½	1	70½ (4)	94.6
South Atlantic							
Del.	1	4	22 (1)	5	-	32 (1)	97.0
Md.	3	34 (1)	188 (5)	35 (4)	8	268 (10)	96.4
D.C.	2	7	53 (9)	3	-	65 (9)	87.8
Va.	5	14	58	17	-	94	100.0
W.Va.	3½ (½)	9	32½ (½)	7	3	55 (1)	98.2
N.C.	10	15 (1)	76 (5)	19	1	121 (6)	95.3
S.C.	7	13 (1)	88 (10)	11 (1)	- (1)	119 (13)	90.2
Ga.	8	30	95 (2)	37	1	171 (2)	98.8
Fla.	11	30	133 (8)	41	2	217 (8)	96.4
East South Central							
Ky.	5	6 (1)	40 (1)	12 (1)	1	64 (3)	95.5
Tenn.	8 (1)	21	72 (1)	30	-	131 (2)	98.5
Ala.	12	26	127 (4)	20	1	186 (4)	97.9
Miss.	1	8 (1)	29 (3)	8	-	46 (4)	92.0
West South Central							
Ark.	2	9	35	7	1	54	100.0
La.	9 (1)	37	75	31 (1)	-	152 (2)	98.7
Okla.	2	7	35 (2)	12½	-	56½ (2)	96.6
Tex.	4	17 (2)	123 (3)	46 (1)	-	190 (6)	96.9
Mountain							
Mont.	3	4	22	3½	-	32½	100.0
Ida.	2	8	46	2	4	62	100.0
Wyo.	1	1½	7	2	-	11½	100.0
Colo.	3	6	44 (2)	23	1	77 (2)	97.5
N.M.	6	13 (1)	29	6	1	55 (1)	98.2
Ariz.	2	9	36	5 (1)	1	53 (1)	98.1
Utah	3	8	40	7	-	58	100.0
Nev.	2	3	13	7	-	25	100.0
Pacific							
Wash.	8 (1)	18½ (1½)	42 (2)	12	1	81½ (4½)	94.8
Ore.	3	9 (2)	34 (1)	4	-	50 (3)	94.3
Cal.	16	40	174	59	-	289	100.0
Alaska	4	6	12	8	-	30	100.0
Hawaii	1 (1)	4	31 (1)	13	-	49 (2)	96.1
Guam	1	1	10	2	-	14	100.0
P.R.	2	18	95	18	16	149	100.0
V.I.	1	1	6 (2)	1	-	9 (2)	81.8

TABLE 5-8. PERCENT TURNOVER IN ALL POSITIONS

	Total Filled Positions	Turnover		Percent Turnover
		Resignations	Separations	
New England				
Me.	44	3	-	6.8
N.H.	22	2	-	9.1
Vt.	26	3	-	11.5
Mass.	240	55	-	22.9
R.I.	70	8	-	11.4
Conn.	211	27	2	13.7
Middle Atlantic				
N.Y.	735	81	15	13.1
N.J.	206	41	-	19.9
Pa.	104	11	2	12.5
East North Central				
Ohio	176	29	1	17.0
Ind.	79	12	-	15.2
Ill.	135	18	2	14.8
Mich.	402	51	1	12.9
Wisc.	141	23	4	19.1
West North Central				
Minn.	86	9	4	15.1
Ia.	99	19	1	20.2
Mo.	50	6	-	12.0
N.D.	29½	2	-	6.8
S.D.	20	-	-	-
Nebr.	26	8	-	30.8
Kans.	70½	12½	4	23.4
South Atlantic				
Del.	32	3	1	12.5
Md.	268	24	12	13.4
D.C.	65	5	-	7.7
Va.	94	8	-	8.5
W.Va.	55	5½	2	13.6
N.C.	121	17	5	18.2
S.C.	119	14	-	11.8
Ga.	171	27	2	17.0
Fla.	217	35	7	19.4
East South Central				
Ky.	64	12	1	20.3
Tenn.	131	17	-	13.0
Ala.	186	22	-	11.8
Miss.	46	4	-	8.7
West South Central				
Ark.	54	16	9	46.3
La.	152	27	2	19.1
Okla.	56½	10	2	21.2
Tex.	190	64	-	33.7
Mountain				
Mont.	32½	6	-	18.5
Ida.	62	7	-	11.3
Wyo.	11½	-	-	-
Colo.	77	10	1	14.3
N.M.	55	11	-	20.0
Ariz.	53	10	-	18.9
Utah	58	12	-	20.7
Nev.	25	2	-	8.0
Pacific				
Wash.	81½	14½	-	17.8
Ore.	50	10	-	20.0
Cal.	289	-	-	-
Alaska	30	8	-	26.7
Hawaii	49	1	-	2.0
Guam	14	2	2	28.6
P.R.	149	10	1	7.4
V.I.	9	-	-	-

TABLE 5-9. PERCENT TURNOVER IN PROFESSIONAL AND TECHNICAL POSITIONS

	Professional and Technical Positions Filled	Turnover		Percent Turnover
		Resignations	Separations	
New England				
Me.	30	1	-	3.3
N.H.	14	-	-	-
Vt.	13	3	-	23.1
Mass.	94	12	-	12.8
R.I.	50	5	-	10.0
Conn.	137	20	2	16.1
Middle Atlantic				
N.Y.	453	35	2	8.2
N.J.	139	21	-	15.1
Pa.	72	7	1	11.1
East North Central				
Ohio	111	17	1	10.2
Ind.	51	8	-	15.7
Ill.	72	10	-	13.9
Mich.	229	27	1	12.2
Wisc.	79	16	2	22.8
West North Central				
Minn.	45	4	-	8.9
Ia.	62	7	1	12.9
Mo.	32	5	-	15.6
N.D.	19	2	-	10.5
S.D.	11	-	-	-
Nebr.	16	7	-	43.8
Kans.	44	5	1	13.6
South Atlantic				
Del.	22	1	-	4.5
Md.	188	20	5	13.3
D.C.	53	5	-	9.4
Va.	58	4	-	6.9
W.Va.	32½	3	1	12.3
N.C.	76	12	-	15.8
S.C.	88	9	-	10.2
Ga.	95	16	2	19.0
Fla.	133	23	1	18.1
East South Central				
Ky.	40	4	-	10.0
Tenn.	72	7	-	9.7
Ala.	127	15	-	11.8
Miss.	29	3	-	10.3
West South Central				
Ark.	35	3	2	14.3
La.	75	13	-	17.3
Okla.	35	5	1	17.1
Tex.	123	32	-	26.0
Mountain				
Mont.	22	2	-	9.1
Ida.	46	6	-	13.0
Wyo.	7	-	-	-
Colo.	44	3	-	6.8
N.M.	29	2	-	6.9
Ariz.	36	5	-	13.9
Utah	40	2	-	5.0
Nev.	13	1	-	7.7
Pacific				
Wash.	42	6	-	14.3
Ore.	34	4	-	11.8
Cal.	174	-	-	-
Alaska	12	-	-	-
Hawaii	31	1	-	3.2
Guam	10	2	2	40.0
P.R.	95	10	1	11.6
V.I.	6	-	-	-

SECTION V. FOOTNOTES

- (a) Includes Laboratory Directors and Assistant Directors, and Business Managers and Management Officers who spend more than 50 percent of their time on administration and management of laboratory activities.
- (b) Includes Secretaries in the Office of the Director, office services staff, supply and procurement clerks, budget and fiscal clerks and others, other than those covered in supportive services and other categories.
- (c) Those primarily engaged in examining and testing specimens and samples including Laboratory Assistants and Laboratory Helpers who contribute directly to the performance of laboratory tests.
- (d) Includes personnel engaged in preparation of glassware, media, shipping containers, animal handling work, messengers, and supply personnel.
- (e) Includes those who install, repair, or perform preventive maintenance on equipment and maintenance of buildings including housekeeping.

LIBRARY OF L. URBANA - CHICAGO

SECTION VI

LABORATORY FIELD ACTIVITIES

TABLE 6-1. NUMBER OF FIELD INVESTIGATIONS, INSPECTIONS, OR CONSULTATIONS

	Investigations			Laboratory Inspections	Hospital Facility Inspections (Other Than Labs)	Court Appearances Or Other Legal Proceedings
	Water Pollution Control	Air Pollution Control	Occupational Health And Safety			
New England						
Maine	-	-	-	16	1	-
New Hampshire	-	-	-	4	-	-
Vermont	-	-	-	-	-	-
Massachusetts	5	-	2	210	35	-
Rhode Island	-	-	-	40	-	-
Connecticut	-	12	-	428	-	-
Middle Atlantic						
New York	748	-	-	2,057 (a)	-	2
New Jersey	-	-	-	322	-	15
Pennsylvania	-	-	-	400	-	-
East North Central						
Ohio	-	-	-	335	-	24
Indiana	6	-	-	83	-	3
Illinois	-	-	-	91	2	-
Michigan	-	-	-	424	5	-
Wisconsin	42	30	-	1,554	-	13
West North Central						
Minnesota	-	-	-	110	-	-
Iowa	-	99	56	56	56	27
Missouri	-	-	-	216	-	11
North Dakota	-	-	-	4	-	-
South Dakota	2	-	-	*	-	-
Nebraska	-	-	-	-	-	-
Kansas	-	-	-	300	-	63
South Atlantic						
Delaware	-	-	-	12	-	-
Maryland	2	93	-	321	-	3
D.C.	-	-	-	* (b)	-	* (b)
Virginia	-	-	-	-	-	-
West Virginia	-	-	-	113	-	1
North Carolina	12	-	6	275	-	2
South Carolina	- (c)	-	-	-	-	-
Georgia	-	-	-	196	-	-
Florida	-	-	-	422	-	499
East South Central						
Kentucky	-	-	-	-	-	-
Tennessee	-	-	-	18	-	-
Alabama	-	-	-	15	-	-
Mississippi	-	-	-	*	-	1
West South Central						
Arkansas	-	-	-	8	-	1
Louisiana	-	-	-	12	-	3
Oklahoma	*	*	*	*	*	*
Texas	-	-	-	-	-	1
Mountain						
Montana	2	15	-	18	-	28
Idaho	-	-	-	48	-	217
Wyoming	-	-	-	3	-	18
Colorado	4	220	-	30	35	90
New Mexico	*	*	*	*	*	*
Arizona	-	-	-	140	156	15
Utah	11	-	2	127	-	* (b)
Nevada	-	-	-	-	-	-
Pacific						
Washington	*	*	*	*	*	*
Oregon	-	-	-	1,093	-	3
California	-	265	18	1,967	-	37
Alaska	-	-	2	18	-	-
Hawaii	-	-	-	23	-	-
Guam	-	-	-	-	-	-
Puerto Rico	10	4	-	600	-	500
Virgin Islands	-	-	-	10	12	-

TABLE 6-1. NUMBER OF FIELD INVESTIGATIONS, INSPECTIONS, OR CONSULTATIONS
(Continued)

	Consultation with:					Total Field Investigations, Inspections, or Consultations
	Professional Societies	Federal Agencies	State Agencies	County Agencies	City or Local Agencies	
New England						75
Maine	6	10	26	-	16	5
New Hampshire	-	1	-	-	-	-
Vermont	-	-	-	-	-	-
Massachusetts	128	40	113	-	12	545
Rhode Island	-	-	-	-	-	40
Connecticut	11	2	8	-	-	464
Middle Atlantic						2,826
New York	1	-	1	17	-	337
New Jersey	-	-	-	-	-	400
Pennsylvania	-	-	-	-	-	-
East North Central						408
Ohio	-	7	41	-	1	92
Indiana	-	-	-	-	-	129
Illinois	9	3	9	7	8	429
Michigan	-	-	-	-	-	429
Wisconsin	-	-	-	-	-	1,639
West North Central						129
Minnesota	5	14	-	-	-	536 (d)
Iowa	61	17	94	3	21	266
Missouri	6	8	16	15	6	74
North Dakota	4	15	30	20	10	32
South Dakota	*	-	-	-	-	-
Nebraska	-	-	-	-	-	-
Kansas	-	2	14	2	13	394
South Atlantic						38
Delaware	3	6	12	2	3	524
Maryland	36	18	24	15	12	*
D.C.	-	-	-	-	-	-
Virginia	-	-	-	-	-	126
West Virginia	1	2	4	1	4	295
North Carolina	*	*	*	*	*	*
South Carolina	*	*	*	*	*	196
Georgia	-	-	-	-	-	921
Florida	* (b)	* (b)	* (b)	* (b)	* (b)	-
East South Central						-
Kentucky	-	-	-	-	-	18
Tennessee	-	-	-	-	-	57
Alabama	-	12	30	-	-	9
Mississippi	2	4	2	-	-	-
West South Central						12
Arkansas	3	-	-	-	-	15
Louisiana	-	-	-	-	-	*
Oklahoma	*	*	*	*	*	35
Texas	3	-	-	-	31	-
Mountain						69
Montana	4	1	1	-	-	265
Idaho	* (b)	-	-	-	-	21
Wyoming	-	-	-	-	-	385
Colorado	6	-	-	-	-	*
New Mexico	*	*	*	*	*	320
Arizona	5	4	(b)	(b)	(b)	140
Utah	-	* (b)	* (b)	* (b)	* (b)	-
Nevada	-	-	-	-	-	-
Pacific						* (b)
Washington	*	*	*	*	*	1,096
Oregon	-	-	-	-	-	3,108
California	133	269	334	64	21	45
Alaska	4	10	8	-	3	48
Hawaii	3	3	16	-	3	-
Guam	-	-	-	-	-	1,114
Puerto Rico	-	-	-	-	10	38
Virgin Islands	-	6	-	-	-	-

TABLE 6-2. NUMBER OF MAN-DAYS SPENT IN FIELD ACTIVITIES

	Investigations			Laboratory Inspections	Hospital Facility Inspections (Other Than Labs)	Court Appearances Or Other Legal Proceedings
	Water Pollution Control	Air Pollution Control	Occupational Health And Safety			
New England						
Maine	-	-	-	20	1	-
New Hampshire	-	-	-	4	-	-
Vermont	-	-	-	-	-	-
Massachusetts	1	-	1	129	18	-
Rhode Island	-	-	-	40	-	-
Connecticut	-	12	-	242	-	-
Middle Atlantic						107
New York	748	-	-	1,755	-	7
New Jersey	-	-	-	362	-	27
Pennsylvania	-	-	-	*	-	-
East North Central						
Ohio	-	-	-	181	-	19
Indiana	6	-	-	132	-	3
Illinois	-	-	-	89	2	-
Michigan	-	-	-	285	*	-
Wisc.	77	40	-	1,730	-	13
West North Central						
Minnesota	-	-	-	45	-	-
Iowa	-	109	86	45	45	26
Missouri	-	-	-	199	-	11
North Dakota	-	-	-	10	-	-
South Dakota	30	-	-	20	-	-
Nebraska	-	-	-	-	-	-
Kansas	-	-	-	200	-	42½
South Atlantic						
Delaware	-	-	-	24	-	-
Maryland	2	24	-	260	-	1
D.C.	-	-	-	*(b)	-	*(b)
Virginia	-	-	-	-	-	-
West Virginia	-	-	-	78	-	1
North Carolina	12	-	6	240	-	2
South Carolina	-	-	-	-	-	-
Georgia	-	-	-	990	-	-
Florida	-	-	-	*	-	-
East South Central						168
Kentucky	-	-	-	-	-	-
Tennessee	-	-	-	200	-	-
Alabama	-	-	-	10	-	-
Mississippi	-	-	-	*	-	½
West South Central						
Arkansas	-	-	-	6	-	3
Louisiana	-	-	-	12	-	*
Oklahoma	*	*	*	*	*	*
Texas	-	-	-	-	-	2
Mountain						
Montana	2	30	-	28	-	60
Idaho	-	-	-	120	-	54
Wyoming	-	-	-	5	-	22
Colorado	12	110	-	60	70	140
New Mexico	*	*	*	*	*	*
Arizona	-	-	-	330	368	6
Utah	6½	-	2	103	-	95
Nevada	-	-	-	-	-	-
Pacific						
Washington	*	*	*	*	*	*
Oregon	-	-	-	148	-	5
California	-	1,000	12	3,834	-	14
Alaska	-	-	5	60	-	-
Hawaii	-	-	-	25	-	-
Guam	-	-	-	-	-	-
Puerto Rico	1,750	120	-	*	-	*
Virgin Islands	-	-	-	10	6	-

TABLE 6-2. NUMBER OF MAN-DAYS SPENT IN FIELD ACTIVITIES
(Continued)

	Consultation with:					Total Man-Days Spent in Field Activities
	Professional Societies	Federal Agencies	State Agencies	County Agencies	City or Local Agencies	
New England					12	119
Maine	3	5	78	-	-	5
New Hampshire	-	1	-	-	-	-
Vermont	-	-	-	-	5	229
Massachusetts	12	29	34	-	-	40
Rhode Island	-	-	-	-	-	391
Connecticut	25	1	4	-	-	
Middle Atlantic				10	-	2,522
New York	1	-	1	-	-	389
New Jersey	-	-	-	-	-	*
Pennsylvania	-	-	-	-	-	
East North Central		7	20½	-	1	228½
Ohio	-	-	-	-	-	141
Indiana	-	-	-	-	-	151½
Illinois	14½	18	12	8	8	285
Michigan	-	-	-	-	-	1,860
Wisconsin	-	-	-	-	-	
West North Central		100	-	-	-	152
Minnesota	7	-	-	-	20	842 (d)
Iowa	191	53	97	-	10	253½
Missouri	6½	8	16	3	12	120
North Dakota	4	4	60	30	*	54
South Dakota	4	-	-	*	*	-
Nebraska	-	-	-	-	-	273½
Kansas	-	2	20	1	8	
South Atlantic		37	12	2	6	90
Delaware	9	-	10	2	3	373
Maryland	68	3	-	-	-	*
D.C.	-	-	-	-	-	-
Virginia	-	-	-	-	-	97
West Virginia	1	5	2	5	5	260
North Carolina	-	-	-	-	-	*
South Carolina	*	*	*	*	*	990
Georgia	-	-	-	-	-	168
Florida	* (b)	* (b)	* (b)	* (b)	* (b)	
East South Central						-
Kentucky	-	-	-	-	-	200
Tennessee	-	-	-	-	-	91
Alabama	-	36	45	-	-	4
Mississippi	½	2	1	-	-	
West South Central						21
Arkansas	12	-	-	-	-	12
Louisiana	-	-	-	-	*	*
Oklahoma	*	*	*	*	*	26
Texas	10	-	-	-	14	
Mountain		5	2	-	-	147
Montana	20	-	-	-	-	174
Idaho	* (b)	-	-	-	-	27
Wyoming	-	-	-	-	-	398
Colorado	6	-	-	-	-	*
New Mexico	*	*	*	*	*	714
Arizona	5	5	* (b)	* (b)	* (b)	206½
Utah	-	* (b)	* (b)	* (b)	* (b)	-
Nevada	-	-	-	-	-	
Pacific		*	*	*	*	* (b)
Washington	*	-	-	-	-	153
Oregon	-	-	-	34	7	5,071
California	82	53	35	-	10	118
Alaska	12	15	16	-	2	50
Hawaii	1	4	18	-	-	-
Guam	-	-	-	-	-	1,870
Puerto Rico	-	-	-	-	5	27
Virgin Islands	-	6	-	-	-	

SECTION VI. FOOTNOTES

- (a) Includes 302 inspections of laboratories using live animals.
- (b) Not documented.
- (c) Field investigations not under supervision of Laboratory Director.
- (d) Includes Travelling Workshops, 32 (75 man-days); other X-ray surveys, 17 (95 man-days).

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SECTION VII

MISCELLANEOUS INFORMATION

TABLE 7-1. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES (a)

	Lab Space Increased or Changed During FY 74	Net Gain in Space During FY 74	Planning for or Construction of New Lab Currently in Progress	If yes, current status of <u>Planning or Construction:</u> Anticipated. Definite need for space. Lab trying to establish needs. Architect has not been retained for planning.	Planning funds have been appropriated.
New England					
Mass.	X	128,000 sq. ft.	-	-	-
R.I.	X	800 sq. ft.	X	X (b)	-
Conn.	-	-	X	-	-
Middle Atlantic					
N.Y.	X	5,000 sq. ft.	X	-	-
Pa.	-	-	X	X	-
East North Central					
Ohio	-	-	X (c)	X	-
Mich.	-	-	X	-	-
Wisc.	X	8,200 sq. ft.	-	-	X
West North Central					
Mo.	X	1,415 sq. ft.	X	X	X
N.D.	X (d)	-	-	-	-
Kans.	-	-	X (e)	-	-
South Atlantic					
Md.	-	-	X	-	-
W.Va.	X	172 sq. ft.	X	X	-
N.C.	X	11,550 sq. ft. (f)	-	-	-
S.C.	-	-	X	-	-
Ga.	X	525 sq. ft. (g)	-	-	-
Fla.	-	-	X	X (h)	-
East South Central					
Tenn.	-	-	X	X	-
Ala.	-	-	X	-	X
West South Central					
Ark.	-	-	X	-	X
Mountain					
Mont.	X	400 sq. ft.	-	-	-
Ida.	- (i)	-	-	X	-
Wyo.	X	70,000 sq. ft.	-	-	-
Colo.	-	-	X	-	-
N.M.	-	-	X	-	X
Ariz.	-	-	X	-	-
Utah	-	-	X	-	X
Nev.	X	(about 25%)	X	X (j)	-
Pacific					
Ore.	-	-	X	X	X
Cal.	-	-	- (k)	-	X
Alaska	-	-	X (l)	-	X
Guam					
P.R.	-	-	X	-	X
				X	-

TABLE 7-1. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES (a)
(Continued)

	<u>Current Status of Planning or Construction:</u>			Planning by Architects and Engineers Essentially Complete	Project Has Been Advertised for Bids	Contractor Has Been Selected and Construction Began or Should Begin on or About:
	Architect Has Been Selected	Planning by Architects and Engineers is in Progress	Construction Funds Have Been Appropriated			
New England						
Mass.	-	-	-	-	-	-
R.I.	-	-	-	-	X	-
Conn.	-	-	-	-	-	-
Middle Atlantic						
N.Y.	-	-	-	-	-	1963
Pa.	-	-	-	-	-	-
East North Central						
Ohio	-	-	-	-	-	-
Mich.	X	X	-	-	-	-
Wisc.	-	-	-	-	-	-
West North Central						
Mo.	-	-	X	-	-	-
N.D.	-	-	-	X	X	-
Kans.	X	-	X	-	-	-
South Atlantic						
Md.	-	-	-	-	-	-
W.Va.	-	-	-	-	-	-
N.C.	-	-	-	-	-	-
S.C.	X	-	X	-	-	-
Ga.	-	-	-	-	-	-
Fla.	-	-	X (m)	-	-	? (m)
East South Central						
Tenn.	-	-	-	-	-	-
Ala.	-	X	-	-	-	-
West South Central						
Ark.	X	X	-	-	-	-
Mountain						
Mont.	-	-	-	-	-	-
Ida.	-	-	-	-	-	-
Wyo.	-	-	-	-	-	-
Colo.	X	X	X	X	-	3/74
N.M.	-	-	-	-	-	-
Ariz.	X	-	X	X	X	6/73
Utah	-	-	-	-	-	-
Nev.	-	-	-	-	-	-
Pacific						
Ore.	-	-	-	-	-	-
Cal.	-	X	-	-	-	-
Alaska	-	X	X	-	-	-
Guam						
P.R.	-	X	-	-	-	-

TABLE 7-1. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES (a)
(Continued)

	<u>Current Status:</u> Estimated Date of Completion of Construction	Estimated Costs for Construction of Facilities	Estimated Gross Sq. Ft. to be Constructed (Sq. Ft.)	Estimated Net Space in Building (Sq. Ft.)
New England				
Mass.	-	\$ -	-	-
R.I.	-	-	54,000	?
Conn.	6/76	5,500,000	40,000	36,000
Middle Atlantic				
N.Y.	1975	48,000,000	488,000	242,000
Pa.	-	-	44,000	?
East North Central				
Ohio	-	300,000	-	-
Mich.	7/1/76	700,000	11,100	*
Wisc.	-	-	-	-
West North Central				
Mo.	3/77	2,850,000	32,768	25,413
N.D.	-	-	-	-
Kans.	-	925,000	-	-
South Atlantic				
Md.	12/15/74	15,000,000 (n)	160,000	80,000
W.Va.	-	650,000	20,000	10,000
N.C.	-	-	-	-
S.C.	7/77	4,500,000	80,000	52,000
Ga.	-	-	-	-
Fla.	11/75 (m)	2,000,000 (m)	15,000 (m)	12,000 (m)
East South Central				
Tenn.	-	-	-	-
Ala.	12/76	3,000,000	30,000	?
West South Central				
Ark.	1977	-	?	?
Mountain				
Mont.	-	-	-	-
Ida.	-	-	-	-
Wyo.	-	-	-	-
Colo.	12/75	380,000	6,800	5,700
N.M.	6/75	3,360,000	67,565 (o)	39,929
Ariz.	4/76	2,395,000	29,591	19,247
Utah	11/74	1,951,695	36,570	32,900
Nev.	-	800,000	8,500	7,500
Pacific				
Ore.	-	-	-	-
Cal.	-	450,000	-	-
Alaska	5/75	90,000	-	-
Guam				
P.R.	-	3,500,000	60,000	55,000

TABLE 7-1. STATUS OF PLANNING FOR NEW LABORATORY FACILITIES (a)
(Continued)

	Lab to be a Separate Building	Planned Building will:		If new construction is an expansion to existing labs, will substantial alterations be made to existing building?
		Replace Present Laboratory	Be in Addition to Present Lab	
New England	-	-	-	-
Mass.	-	-	-	-
R.I.	X	X	-	-
Conn.	-	-	X	-
Middle Atlantic				
N.Y.	X	X	-	-
Pa.	X	X	-	-
East North Central				
Ohio	-	-	-	X
Mich.	-	X	-	X (p)
Wisc.	-	-	-	-
West North Central				
Mo.	X	X	-	-
N.D.	-	-	-	-
Kans.	-	X	-	-
South Atlantic				
Md.	X	X	-	-
W.Va.	-	-	X	-
N.C.	-	-	-	-
S.C.	X	X	-	-
Ga.	-	-	-	-
Fla.	X (m)	X (m)	-	-
East South Central				
Tenn.	-	-	-	-
Ala.	X	-	X	X
West South Central				
Ark.	X	-	X	-
Mountain				
Mont.	-	-	-	-
Ida.	-	-	-	-
Wyo.	-	-	X	-
Colo.	-	-	-	-
N.M.	X	X	-	-
Ariz.	X	X	-	-
Utah	X	X	-	-
Nev.	X	X	-	-
Pacific				
Ore.	-	-	-	X
Cal.	-	-	-	-
Alaska	-	-	-	-
Guam	X	-	X	-
P.R.	X	X	-	-

TABLE 7-2. CHANGES DURING THE REPORTING YEAR AFFECTING RELATIONSHIPS OF LABORATORY WITH OTHER UNITS OF GOVERNMENT (a)

West North Central Mo.	The laboratory was changed from the Section of Medical Care to the Section of Epidemiology and Disease Surveillance; however, this did not impose differences in intra-departmental transactions.
East South Central Tenn.	Laboratory licensing has been moved to the Board of Licensing; laboratory maintains technical advisory status.
West South Central La.	Government Ethics Commission.
Mountain N.M.	The New Mexico Scientific Laboratory System was established within the Health and Social Services Department in August 1973, in order to consolidate functions of the former Health Laboratory, and the former Environmental Improvement Agency Laboratories in Albuquerque, Clovis, and Farmington into a single organization or system.
Ariz.	In March 1974, the Arizona State Department of Health became the Arizona State Department of Health Services, along with the State Hospital, the Crippled Childrens Hospital, the Pioneers Home, Community Health Services, etc. New administration, policies, and goals could affect the relationship of the laboratory with other governmental units.

TABLE 7-3. ENACTMENT OF NEW LABORATORY LICENSURE LAWS OR LABORATORY PERSONNEL LICENSURE LAWS (a)

	Effective Date of Law	Remarks
East North Central Mich.	7/15/73	Coverage for blood banks and directors.
South Atlantic Md.	7/1/73	Requires physicians to participate in an approved proficiency survey program and report results to State laboratory for monitoring. No authority for inspection of the office labs.
Mountain Nev.	8/5/74	Rules and regulations covering independent clinical labs, hospital labs, group practice labs, doctors' office labs, and state public health labs; directors, supervisors, technologists, and technicians.

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TABLE 7-4. LABORATORY NEWSLETTERS (a)

Title of Laboratory's Newsletter	Frequency of Publication	
New England Me. Mass. Conn.	Lab Gab Lab-News Connecticut Clinical Laboratory Newsletter	Quarterly 4 or 5 times per year Bimonthly
Middle Atlantic N.Y. Pa.	Clinical Laboratory Center Newsletter Public Health Laboratory Circular	As material necessitates 5-8 times per year
East North Central Mich. Wisc.	Michigan Lab Letter Laboratory Newsletter	Quarterly to annually Monthly
West North Central Minn. Ia.	Medical Laboratory Forum Lab HOTLINE	Quarterly Monthly
South Atlantic Va. W.Va. S.C.	Labscope - NEWSLETTER	4 times per year - Monthly
West South Central Tex.	Lab Notes	Monthly to quarterly
Mountain Mont. Ida. Ariz. Utah	Laboratory Bulletin Laboratory Incubator LAB BULL Laboratory News	8 times per year 4 times per year * Bimonthly
Pacific Wash.	IN THE WASH	4 times per year

TABLE 7-4. LABORATORY NEWSLETTERS (a)
(Continued)

	Year Newsletter Started	Laboratory Newsletter Distributed to:
New England		
Me.	1972	In Maine all pathologists and hospital laboratory supervisors; state health laboratories and miscellaneous interested people.
Mass.	1971	All laboratory directors in Massachusetts and others who have asked to be put on mailing list.
Conn.	1970	All laboratory directors and section chiefs; other state directors.
Middle Atlantic		
N.Y.	1950	Permit laboratories, health departments.
Pa.	1970	All Pennsylvania licensed laboratories; all state public health labs, selected federal agencies.
East North Central		
Mich.	1971	Licensed laboratories and health departments.
Wisc.	1962	Other state laboratories, physicians, hospitals, clinics and laboratories in Wisconsin, resource management and health agencies.
West North Central		
Minn.	1974	350 hospital and clinical laboratories in the state.
Ia.	1964	Hospitals, laboratories, physicians, other state laboratories, public health agencies, libraries, appropriate laymen.
South Atlantic		
Va.	1973	Employees.
S.C.	1970	County health departments, allied agencies, private, county, and hospital laboratories.
West South Central		
Tex.	1969	Regional laboratory directors.
Mountain		
Mont.	1967	State lab directors, all registered laboratories in Montana (130), pathologists, other interested persons.
Ida.	1971	Hospital and private clinical laboratories.
Ariz.	1967	Private laboratories, hospital laboratories and administrators, PH service hospitals and administrators, county health departments and officers; other interested individuals and/or agencies.
Utah	1969	CDC, state public health laboratories, local laboratories, state medical professional societies.
Pacific		
Wash.	1974	All registered laboratories, certain offices in the department and some surrounding states.

TABLE 7-5. CHARGES FOR LABORATORY SERVICES (a)

	Laboratory Services with a Fee	Charge per Unit
New England		
Me.	Private water supplies, potability	\$ 2.00 service charge
	Public water supplies	Cost charge
	Chemistry-Toxicology	10.00 per hour
Mass.	Certificate of approval	5.00 fee at time of renewal
East North Central		
Ind.	Premarital blood test	2.50
	Bacteriological exam on private well water	4.50
	Public water (commercial)	10.00 per year
Wisc.	Rabies and water bacteriology	1.00 per sample (to private sector only)
	All others	1.50 per specimen (private sector only)
West North Central		
Ia.	Total coliform - drinking water	2.00 per sample
	Iron bacteria, iron, pH, hardness, or nitrate - drinking water	2.00 per parameter
	Blood or breath alcohol	30.00 per sample
	Effluent quality analysis program	5.00 per sample
	Milk - SPC	2.00 per sample
	Various chemical and physical water quality parameters	Varies from 5.00 - 50.00 per sample
S.D.	Water chemistries	Varies from \$1.00 - 15.00
	Water bacteriology	1.00 per sample
Nebr.	<u>Private water samples:</u>	
	Bacteriological test ("purity")	3.00
	Chemical analysis for nitrate ion	2.00
	Chemical analysis for fluoride ion	2.00
	Chemical analysis for total hardness	3.00
	Chemical analysis for each other specified inorganic element (or compound)	3.00
	Routine chemical analyses for twelve usual parameters	15.00
	Chemical tests for heavy metals	5.00
	<u>Water used for agricultural or industrial purposes:</u>	
	Bacteriological examination by membrane filter methods (1-4 parameters)	5.00 - 12.00
	Routine chemical analyses	15.00
	Chemical oxygen demand	15.00
	Biochemical oxygen demand	15.00
	Settleable solids, total solids, etc.	5.00 ea.
	Organic compounds	20.00 ea.
	Blood or breath alcohol	8.00
	Body fluid screening test for drugs	5.00
Kans.	Bacteriological examination of water (private water supplies)	2.00 per sample
	Bacteriological examination of water	Water utilities pay on sliding fee schedule based on number of samples processed per month
South Atlantic		
N.C.	Private water - bacteriological analysis	5.00
	Private water - chemical analysis	5.00

TABLE 7-5. CHARGES FOR LABORATORY SERVICES (a)
(Continued)

	Estimate of Total Annual Receipts from Charges	Disposition of Funds
New England		
Me.	\$ 150,000	Support activities for which serviced.
Mass.	1,520	Checks made out to "Commonwealth of Massachusetts" and sent to Administrative Office, Department of Public Health.
East North Central		
Ind.	34,284	State general funds.
Wisc.	518,521	Salaries and laboratory supplies.
West North Central		
Ia.	243,000	Rebudgeted back into laboratory general operating expense accounts.
S.D.	1,141	General fund.
Nebr.	18,000 (Estimated annual receipts when operational.)	Appropriated to laboratory use.
Kans.	90,000	Deposited in state water and sewage fee fund.
South Atlantic		
N.C.	163,913	State appropriation is reduced by the amount of estimated receipts. If receipts exceed this amount budget revisions are required to spend the excess.
S.C.	144,000 (Six-month period)	To support laboratory activities (salaries, operating expenses, etc.)
Fla.	12,250	Partial payment of salaries and expenses required for urine screening program.
West South Central		
Ark.	19,000	Committed by law to payment of the building construction bonds.
Mountain		
Mont.	27,681	Water receipts deposited in state general fund. Alcohol and drugs credited to specific budgets.
Ida.	40,000	Put back in lab - current expense category. \$40,000 of receipts to appropriation is approved by legislature as part of laboratory operation budget.
Ariz.	24,710 (Three-month period)	Deposited into state general fund. (Projected annual receipts of \$100,000).
Pacific		
Ore.	4,068	Management Services Section.
Alaska	1,500	Returned to laboratory for purchase of expendable supplies.

TABLE 7-5. CHARGES FOR LABORATORY SERVICES (a)
(Continued)

Laboratory Services with a Fee		Charge per Unit	
S.C.	Syphilis Serology	\$ 1.00	
	Rh Factor, Rubella	2.00 ea.	
	Febrile agglutination, FTA-ABS, Infectious Mononucleosis, Toxoplasmosis	3.00 ea.	
	Drug qualitative	8.00	
	Drug quantitative	15.00	
	Chromosome	100.00	
Fla.	Urine screening for dangerous drugs (If qualitative test for alcohol included)	1.75 per specimen (.50 per specimen)	
	West South Central Ark.	Premarital blood tests	1.00 per certificate issued
Mountain Mont.	Water bacteriology (public water supplies under contract)	4.00 per sample 10.00 per sample	
	MPN		
	Individual chemical constituents in water	2.00 and 5.00	
	Water - standard chemical analysis	15.00 per sample	
	Alcohol content of blood or urine	6.00 per specimen	
	Drug screen on urine (Fee schedule being established for OSHA specimens)	6.00 per specimen	
	Ida.	*	*
Ariz.	Premarital syphilis serology	(Prices effective 1/1/74) 2.00 per specimen (no charge for prenatal specimens)	
	Fungal serology	2.00 per specimen	
	Toxoplasmosis (IHA)	2.00 per specimen	
	Bacterial serology	2.00 per specimen	
	Viral serology (CF or HI)	10.00 per specimen (or 2.00 per antigen if 4 or less)	
	Rubella	2.00 per specimen	
	Parasitology (intestinal or blood)	5.00	
	Bacteriology culture (includes enteric, gonococcus, tuberculosis, anaerobic, throat, blood and spinal fluid (Routine throat cultures for Streptococcus identification and grouping not available)	5.00 per culture	
	Mycology (microscopic and culture)	5.00	
	Virology (isolation and ID) (Rabies - no charge)	10.00	
	Environmental Health:		
	<u>Water</u>		
	Total coliform	.75	
	Routine chemistry	22.00	
	Individual chemistry	1.00	
	<u>Milk</u>		
	Routine exams (SPC, coliform, etc.)	10.00	
	Pesticide determination	10.00	
	Pacific Ore.	Water bacteria for U. S. Forest Service	2.00 per sample.
	Alaska	Chemical analysis of water for Federal agencies	2.00 - 10.00 per test; 35.00 for a complete chemical

TABLE 7-6. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)

	Program	Service	Man-Years	Costs
New England				
Me.	Pesticide Surveillance	Lab Analyses	3	\$ 30,000
	Racing Commission	Toxicology	1.5	20,000
	Law Enforcement Agencies	Drug identification	6	115,000
Mass.	Clinical Laboratory Improvement in Mass. Metabolic Disorders	Laboratory improvement Screening newborns for metabolic disorders	5 16	59,900 159,320
	Cooperative Agreement with Department of Microbiology of University of Mass. at Amherst	To examine for Group A beta hemolytic streptococci - specimens received from physicians in the four western counties of Mass.	3	33,482
	Cooperative agreement with Worcester City Health Department	To examine for Group A beta hemolytic streptococci - specimens received from physicians in certain areas of central Mass.	1	9,500
R.I.	Gonorrhea Screening Program - Women	Culture tests	*	14,000
Conn.	Consumer Protection - Federal Meat and Poultry Inspection Program	Analyzed meat and poultry for chlorinated hydrocarbon pesticides and diethylstilbestrol residue.	1	15,000/yr.
	Highway Safety	Blood, urine, and breath alcohol determinations.	2.5	25,000/yr.
	Lead Poisoning	Lead determinations on bloods, paints, etc.	2.5	25,000/yr.
	Medicare	Inspection of Medicare licensed clinical laboratories	1.6	23,271/yr.
Middle Atlantic				
N.Y.	Sickle Cell Anemia Evaluation of the Safety and Effectiveness of a Vaccine to Serum Hepatitis	Hemoglobin screening Hepatitis testing	10 3	150,000 81,500/yr.
N.J.	Venereal Disease Project	HSM grant	*	68,825
	SLEPA	-	3	33,149
	Nara	HSM grant	-	499
	Expansion of Narcotic Treatment Services	HSM grant	-	1,890
	Hepatitis	FDA grant	-	117,807
	Food Inspection Program	FDA grant	-	938
	Community Narcotic Programs	HSM grant	-	18,072
	Emergency Employment Act	-	*	35,554
	Gonorrhea Study Project	HSM grant	-	2,095
	Virology Lab Service - Delaware	Virology services	1	13,613
	Delaware River Basin Commission (Department of Environmental Protection)	-	3	20,000
	Department of Environmental Protection	Water pollution and potable water	*	239,000
	Department of Labor and Industry	Occupational Health and Safety Program	*	25,464

TABLE 7-6. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)
(Continued)

	Program	Service	Man-Years	Costs
Pa.	Lead Paint Poisoning Detection	Blood lead analyses	*	*
	PKU Detection in Newborn (contracted service)	Guthrie Screening Procedure	*	\$ 25,500
East North Central Ohio	Ohio Environmental Protection Agency	Laboratory Services	48	600,000
	Department of Industrial Relations (State)	Laboratory Services	5.5	89,000 (6 months)
Mich.	Biologic Products (Blood Derivatives)	Isolate clinically useful bovine factor VIII	4 FT, 3 PT	251,744
	Biologic Products (Blood Derivatives)	Preparation and testing of albumin, IGG and IGM as by-products of preparation of C'esterase inhibitor	2	33,000
	Biologic Products (Blood Derivatives)	Preparation and clinical trials of intravenous gamma globulin	2	121,347
	Biologic Products	Produce Anthrax Vaccine for distribution to woolen manufacturers	1	16,256
	Biologic Products	Development of an improved method for inactivation of rabies virus	1	28,460
	Cancer Research	Testing of antibiotic beers and purified preparations by tissue culture assay	4	54,166
	Forensic Services	Establish regional crime laboratories	8	133,200
	Pesticides	Community studies of pesticides exposure on workers for EPA	11.2	255,470
	Laboratory Diagnosis	Laboratory services to Kent Co.	3	49,900
	Laboratory Diagnosis	Study of actinomycetes and nutrients for Department of Natural Resources	1.5	44,450
	Laboratory Diagnosis	Venereal disease control	3	43,024
Wisc.	Laboratory Evaluation and Multiphasic Screening	Laboratory support	*	45,000
	Environmental Sanitation	Laboratory support	*	40,000
West North Central Minn.	University of Minnesota Area Health Education Center Program	Continuing education	2.5	28,964
Ia.	Childhood Blood Lead Screening Programs	Screening children ages 1-6 in Des Moines and Burlington, Iowa for lead poisoning	1.5	23,893
	Gonorrhea Culture Program	Provision of culture service to physicians to detect asymptomatic patients	1	23,666
	Drug Abuse Control	Urine screening for treatment facilities providing methadone therapy; analysis of "street drugs"	2	39,562

TABLE 7-6. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)
(Continued)

	Program	Service	Man-Years	Costs
	Rubella Screening	Screening of prenatal sera for rubella-susceptible mothers	2.5	37,721
	Water Quality	Provision of laboratory services for water quality surveillance to the Iowa Department of Environmental Quality	5	76,241
	Air Quality	Provision of laboratory services for air quality monitoring to the Iowa Department of Environmental Quality	5	69,703
	Medicare	Surveys of hospital laboratories to insure compliance with Medicare standards	1.5	28,571
	Industrial Hygiene	Provision of laboratory services to the Iowa Bureau of Labor	2.5	58,420
	Buffalo Bill Watershed Study	Water load allocation study during periods of runoff	3.5	19,302
	Statewide Internal Stream Waste Load Allocation Study	Water load allocation study during periods of runoff	2	10,036
Mo.	Milk Board	Testing milk samples.	*	Reimbursed with supplies
	FDA	Bakery and food warehouse contract	*	10,796
	FDA	Turtle testing	*	12,605
South Atlantic Del.	Sanitary Bacteriology	Drinking and shellfish water analysis	5	*
	FDA Contract	Filth analysis	5	3,000
Md.	Rubella Immunization Grant (Terminated 6/30/74)	Laboratory salary and fringe benefits	1	7,832
	Federal Air Pollution Control Grant	Laboratory salary and fringe benefits (2 employees)	1	33,335
	Maryland Occupational Safety and Health Contract with State Department of Labor and Industry	Furnish laboratory support services to program (2 personnel, supplies, and equipment)	1	32,303
	Childhood Lead-Based Paint, Federal Grant	Laboratory support (2 personnel, supplies, and equipment)	1	19,156
N.C.	N.C. Drug Authority	Hepatitis testing	.5	8,400
	Medicaid	Multiphasic screening	.1	(Lab receives .50 per Medicaid patient seen in local health departments regardless of lab tests performed.)
	Medicaid	Blood lead screening	1	
	Medicaid	Sickle cell testing	.5	
S.C.	COBRA	Sickle cell	.25	10,000
	EPA	Adult tissues	2	41,000
	EPA	Pediatric tissue	1.5	19,000

TABLE 7-6. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)
(Continued)

	Program	Service	Man-Years	Costs	
Fla.	VD Control (Federal)	Gonorrhea culturing, syphilis serology	18 positions	\$ *	
	VD Control (Federal)	Gonorrhea culturing of cases under treatment	7 positions	*	
	Medicaid Screening (Federal)	Hemoglobinopathy testing, parasitology, PKU, etc.	3 positions	*	
	LEAA (Federal)	Criminalistics (narcotics identification)	3 positions	*	
	Laboratory Improvement (Federal Medicare)	Certification of independent and non-accredited hospital laboratories	4 positions	*	
	Implied Consent (Federal - DOT)	Permitting of breath and blood alcohol technicians and chemists; certification of equipment	6 positions	*	
	Food Sanitation (Federal)	Food testing associated with Interstate Travel Sanitation Program	-	Supplies only	
	Waste Disposal Research - University of Florida (Federal)	Bacteriological testing of liquid digested sludge	-	Supplies only	
	Drug Addiction Control (Federal, State, Local)	Urine screening for dangerous drugs	2 positions	*	
	Agreement with Medical Examiners Office, City of Jacksonville, Florida	Toxicological and narcotic analyses for local law enforcement and Medical Examiner	1 position	*	
	Agreement with Florida Department of Pollution Control and with Dade County Air and Water Pollution Control Authority	Bacteriological examination of water samples submitted for coliform and fecal coliform tests	1 position	*	
	Agreement with Florida Department of Agriculture and Consumer Services	Tests for sanitary quality of dairy products submitted by inspectors	-	*	
	Agreement with Florida Department of Agriculture Animal Disease Diagnostic Laboratory	Examination of animals for rabies and encephalitis viruses	-	*	
	Florida Division of Retardation	Joint operation of state mental retardation hospital and public health laboratory	*	*	
	Florida Division of Health, Bureau of Tuberculosis Control	Joint operation of state TB hospital and public health laboratory	*	*	
	Agreement with USPHS	Certification of water and milk testing laboratories	2 positions	*	
	East South Central Miss.	TB Hospital	Cultures	1	15,000
		Mental Hospital	Cultures	.25	5,000
		FDA	Food microbiology	.5	20,000
		Air and Water Pollution Control Commission	Bacteriology	.25	5,000
Reservoir Commission		Bacteriology and chemistry	.5	10,000	
West South Central Tex.	Texas Water Quality Board	Pollution control - water analysis - streams	12	200,000	
	Texas Water Development Board	Pollution control - water analysis - wells	8	75,000	

TABLE 7-6. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS
WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)
(Continued)

	Program	Service	Man-Years	Costs
Mountain Mont.	Lead Poisoning Prevention (With CDC - started July 1, 1974) Department of Institutions	Establish capability in State Laboratory and screen EPSDT children	2	\$ 30,000
	a. S.W. Montana Drug Project	Urine drug screen	0.4	2,500
	b. "Lighthouse Project" Drug Rehabilitation Center	Urine drug screen	0.2	2,000
	Highway Safety Division - (Money comes from Federal Department of Transportation) "Implied Consent"	Alcohol determinations in blood, breath, and urine. Training of operators and quality control on 16 Alco-Analyzers located in the field. Expert testimony in court. Public relations (education)	2.4	46,386
	Department of Labor and Industry, Workmen's Compensation Division, Safety and Health Bureau	Working on arrangement to test state OSHA specimens for Occupational health on a fee-for-service basis.	-	-
Ida.	Regional Medical Program	Improvement of physician office labs	.5	6,372
	Traffic Safety Commission	Lab support for alcohol control. Testing of DWI cases	6	83,800
	Alcohol Safety Action Program	Roadside surveys	.25	5,000
	Law Enforcement Planning Commission	Drug identification	4	51,000
	Law Enforcement Planning Commission	Field test identification (training in use of kits)	.5	9,000
	U. S. Forest Service, Idaho Fish and Game Department, Idaho Water Resources Board.	Contractual agreements for service on charge per test basis	*	\$194,000 of Laboratory budget based on Stream and Air Pollution
Colo.	Highway Safety Program	Alcohol test program	1	18,500
N.M.	Traffic Safety Program	Breath and blood alcohol analyses; training of local law officers; court appearances (witnesses)	4	41,211
Ariz.	VD Grant	*	*	15,992
	Medicare	*	*	8,365
	Air Pollution	*	*	16,057
	Water Pollution	*	*	16,057
	FDA Grant	*	*	15,992
Pacific Ore.	Crippled Childrens Division (Federal)	Metabolic disorders	*	23,292
Cal.	(Too extensive to provide information)	*	*	*

TABLE 7-6. GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS
 WITH OTHER DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)
 (Continued)

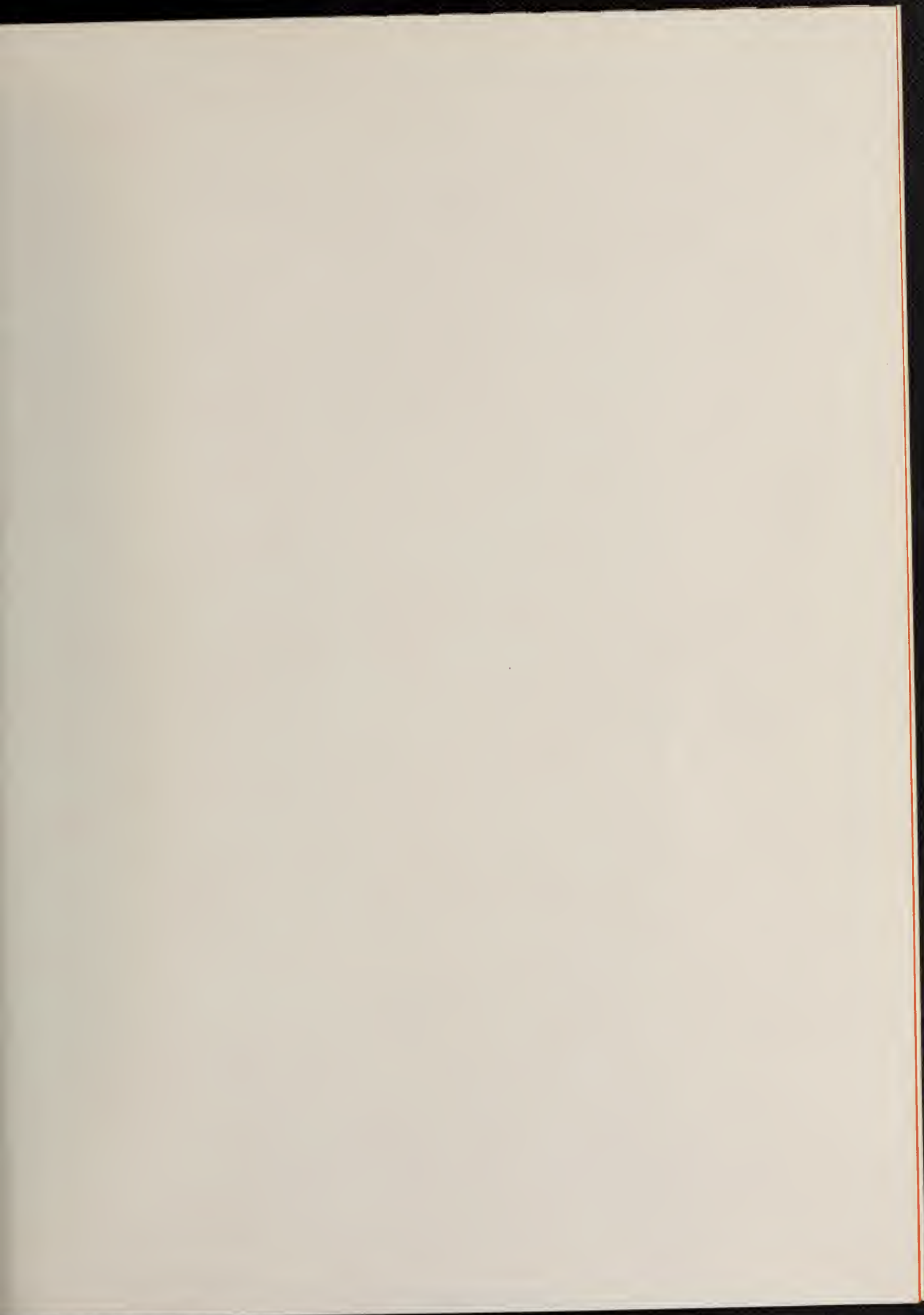
	Program	Service	Man-Years	Costs
Alaska	TB Control (Alaska Native Health Service)	Diagnostic lab for TB	2.5	\$ 14,000
	Office of Environmental Health	Water chemistry	1	2,000
		GC culture	2.5	35,000
	VD Control			

SECTION VII. FOOTNOTES

- (a) This table omits states having no information to report on this subject.
- (b) Referendum being submitted to voters in November 1974.
- (c) Completion of fifth floor.
- (d) Branch laboratory, Grand Forks.
- (e) Construction consists of renovation of an existing hospital structure (built in 1954) into laboratory space utilizing all of the third floor and approximately one-half of the second floor.
- (f) New building occupied September 1973.
- (g) Office converted to laboratory.
- (h) Addition to central laboratory, Jacksonville: estimated costs for construction are \$2,034,000; estimated gross square feet to be constructed are 15,000; estimated net space, 12,000; substantial alterations will not be made to existing building.
- (i) Information in table pertains to central laboratory only. New laboratory in Coeur d'Alene completed in March 1974. This is part of a local health complex; laboratory space is approximately 1,800 sq. ft.

New laboratory quarters in Twin Falls. This is located in South Central District Health Department. This move was completed in May 1974. The current laboratory space is about 1,536 sq. ft. The 1974 legislature approved the transfer of \$89,000 which was previously approved for construction of a branch laboratory in Idaho Falls to Pocatello. This will be part of a new local health department located in that city. An architect has been selected and preliminary plans have been prepared. The target date for groundbreaking is April 1975, with completion date in June 1976. The laboratory will have about 2,170 sq. ft. available.

- (j) Information in table refers to central laboratory, Reno. Information for branch laboratory at Las Vegas: planning funds have been appropriated; architect selected; planning by architects and engineers in progress and essentially complete; project has been advertised for bids; estimated date of completion is August 1975; estimated costs, \$300,000; estimated gross sq. ft., 2,000; estimated net sq. ft., 1,800; laboratory will not be a separate building and will replace the present laboratory.
- (k) Renovation of office space.
- (l) Moving of the northern regional laboratory from the state court building to basement of Arctic Health Research Center Building, Fairbanks. This will expand space from 2,000 sq. ft. to 3,000 sq. ft. Major costs will be moving and other installation requirements. In FY 75, the Section of Laboratories will acquire the Virology Laboratory in the Arctic Health Research Center Bldg. which will add 1,800 sq. ft. The laboratory is completely equipped. Initial support funding of \$43,000 through CDC.
- (m) Miami laboratory.
- (n) Part of a \$32,000,000 state laboratory and office complex. Five top floors of one nine-story tower devoted to health laboratories. Ground and first floor levels communicate with adjoining office complex. The second and third floors are for future laboratory expansion.
- (o) Includes unfinished areas in basement and first floor.
- (p) New second story and 2-storied wing addition.



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