

# **CONSOLIDATED ANNUAL REPORT**

**on**

# **State and Territorial Public Health Laboratories**

# **Fiscal Year 1983**

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

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**FEBRUARY 1985**

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

**ASSOCIATION OF STATE AND TERRITORIAL  
PUBLIC HEALTH LABORATORY DIRECTORS**

**1983-1984**

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# Preface

## To Readers of the Consolidated Annual Report

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

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

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

John Blosser  
Chairman, CAR Committee

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## INTRODUCTION

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

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

Forty-three of the fifty-four member laboratories provided data for this edition. Colorado, the District of Columbia, Maine, Montana, Nebraska, Nevada, New York, Virginia, Wyoming, Guam, and the Virgin Islands did not report to the CAR for fiscal year 1983. Therefore, national totals found in this edition represent only forty-three state and territorial public health laboratories.

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

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

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

To assure complete coverage of laboratory activities the questionnaire for the 1983 CAR was composed of four sections: (1) financial, (2) personnel, (3) workload reporting, and (4) special questions. The Financial Section requested data in three areas: (1) expenditure, (2) source of funds, and (3) allocations of expenditure data into workload categories. The Personnel Section requested the type and number of budgeted positions in five categories and defined these categories by turnover, vacancies and workload area. All budgeted positions are defined in terms of (FTE) full-time equivalent or man-year equivalent



because the standard work week differs among reporting laboratories in terms of number of hours worked. The Workload Reporting Section requested specific data concerning routine laboratory procedures and the number of specimens/samples tested under each procedure. The Special Questions Section requested information on a variety of topics of current interest.

This issue of the CAR marks the beginning of automated compilation. Software has been developed for the production of future reports which will permit more timely response, while providing the ability to establish a CAR database for research, statistical comparisons, forecasting, and trend analysis.

#### NOTE: DATA COMPARISONS

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

#### USE OF SYMBOLS AND TERMS

Basically, the data display format is the same as that of the FY 1982 CAR. The following matrix identifies the symbols found in this edition.

: SYMBOL :	MEANING AND PURPOSE	:
:	:	:
: (Blank) :	A report with no activity for that particular item	:
: X :	A positive response	:
:	:	:

The term "specimen" indicates an animal or human source, while "sample" indicates an environmental source; however, in Tables 1-5 through 1-8 the term "specimens" refers to both human sources and environmental samples. Average is the total divided by the number of participating laboratories reporting activity in a given category or sub-category.

## PUBLICATION

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

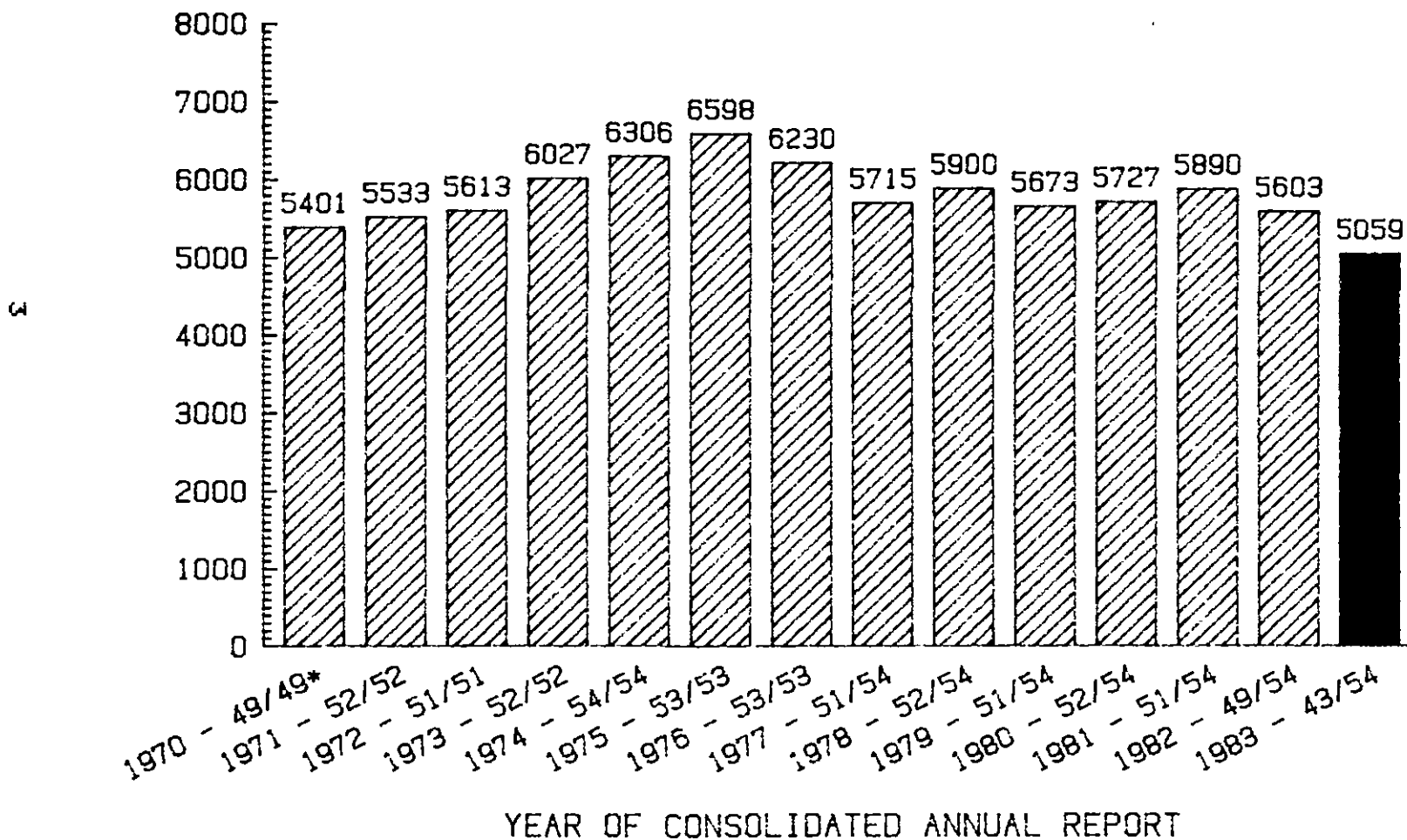
The Consolidated Annual Report is a joint activity of ASTPHLD and CDC, Laboratory Program Office. Because it is compiled by CDC personnel all comments, suggestions, and correspondence on its contents should be forwarded to:

Division of Management Development  
and Consultation, LPO  
Attn: CAR Editor  
Building 6, Room 210  
Centers for Disease Control  
Atlanta, Georgia 30333

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

TABLE 1-1. BUDGETED POSITIONS FOR STATE AND TERRITORIAL PUBLIC HEALTH LABORATORIES

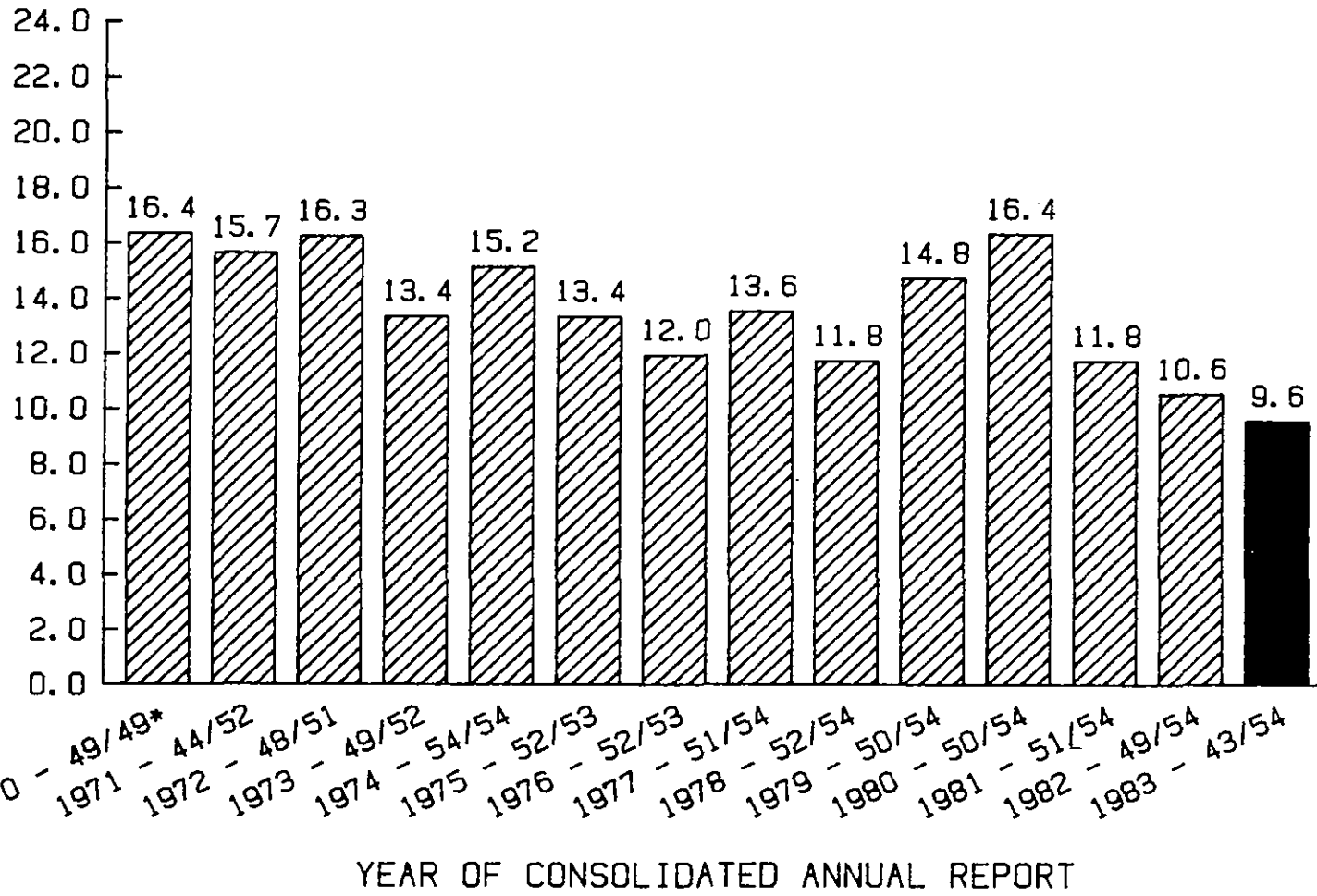
NUMBER OF POSITIONS



\*49/49=INDICATES 49 LABS REPORTED THIS TYPE DATA OUT OF A UNIVERSE OF 49 LABS.

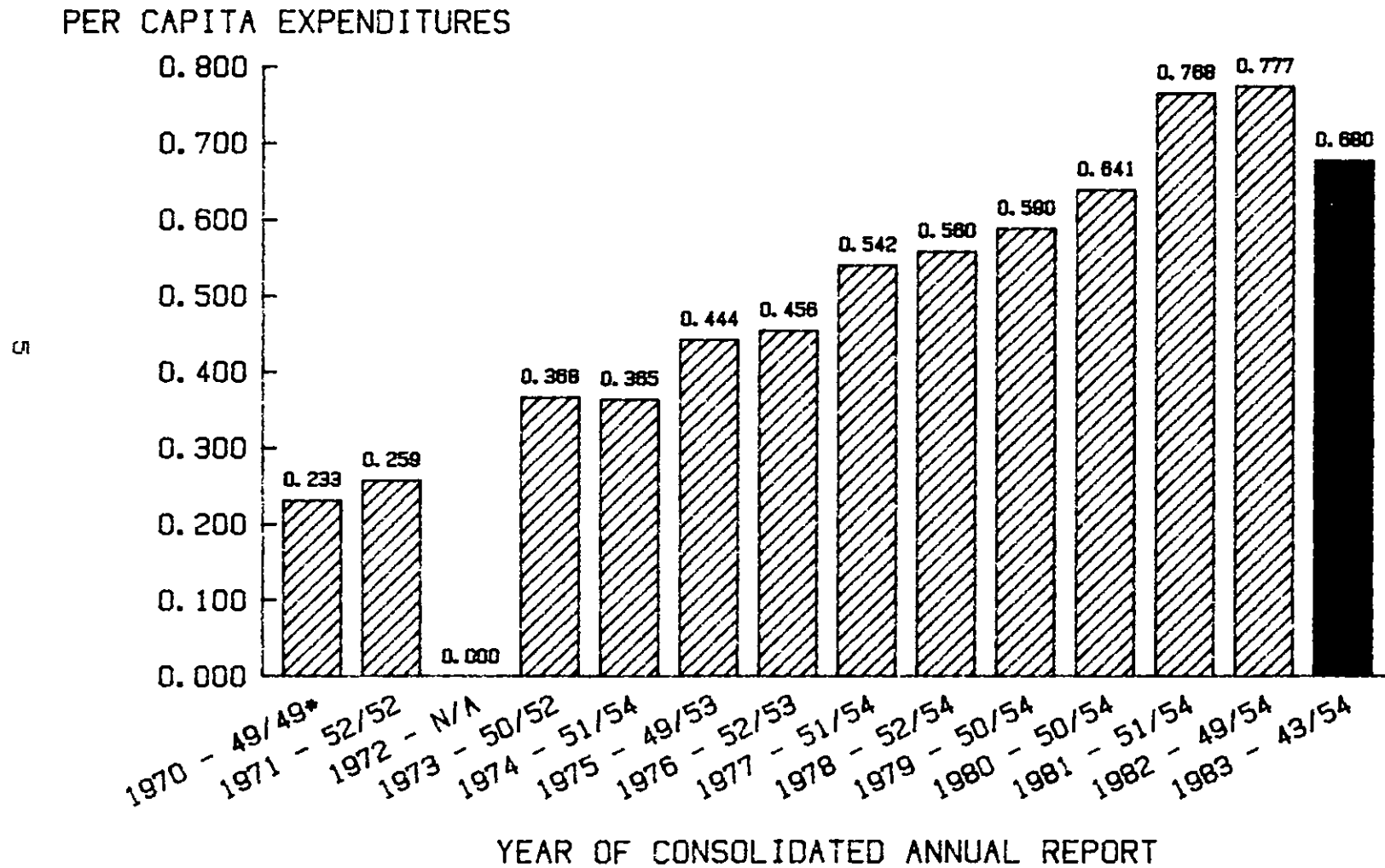
TABLE 1-2.  
PERCENTAGE OF TURNOVER IN ALL POSITIONS

PERCENTAGE OF TURNOVER



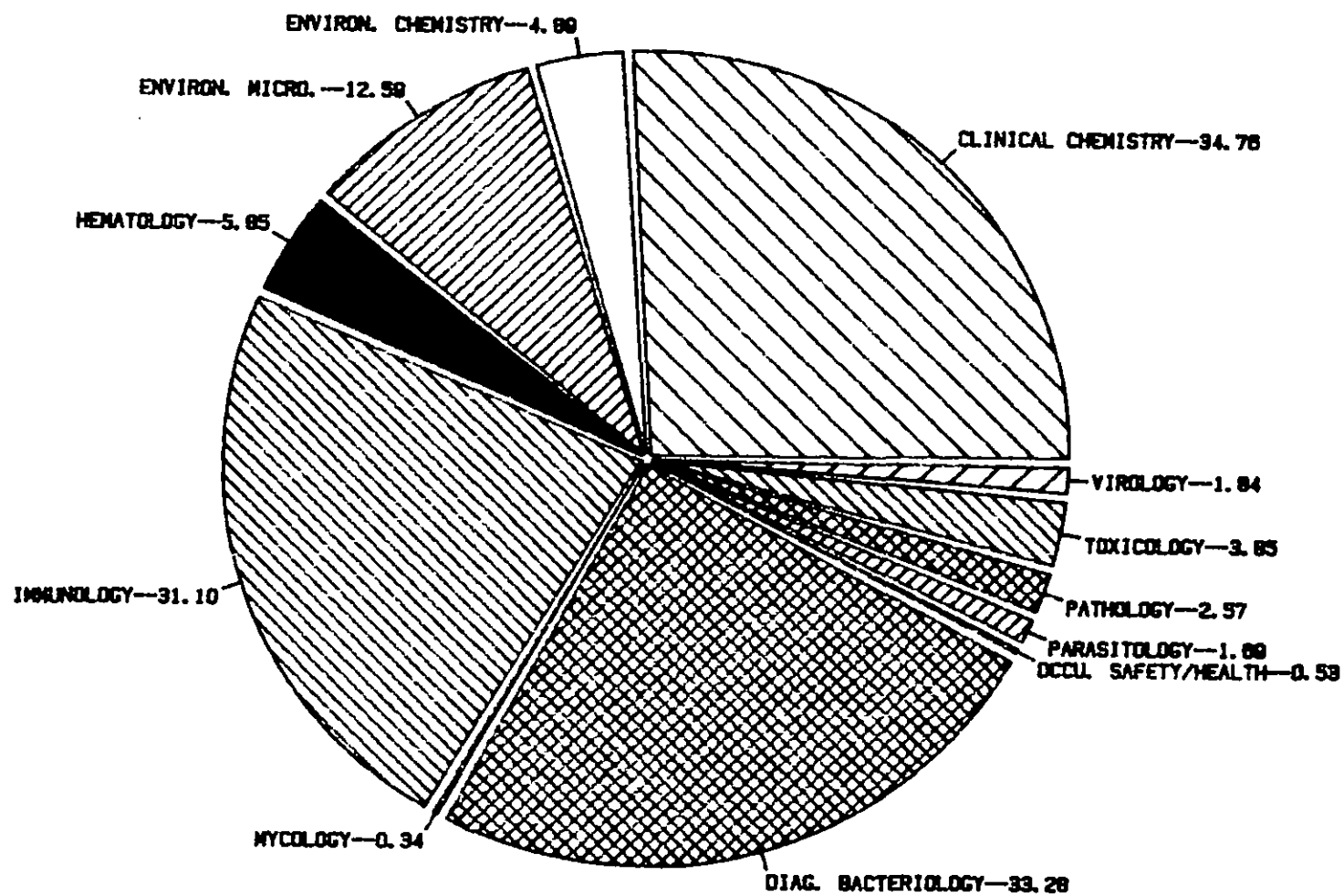
\*49/49=INDICATES 49 LABS REPORTED THIS TYPE DATA OUT OF A UNIVERSE OF 49 LABS.

TABLE 1-3. LABORATORY EXPENDITURES PER CAPITA



\*49/49=INDICATES 49 LABS REPORTED THIS TYPE DATA OUT OF A UNIVERSE OF 49 LABS.

TABLE 1-4  
SPECIMENS/SAMPLES RECEIVED BY THE STATE AND  
TERRITORIAL PUBLIC HEALTH LABORATORIES



1983













**SECTION II**

**PERSONNEL**



TABLE 2-2  
TURNOVER

Lab & Region	Total Filled Pos.	Total # Resig. & Sep.	% Turnover Filled Pos.	Number of Resignations & Separations by Categories						
				Management	Clerical	Prof. & Tech. Positions		Supportive Services	Mainten- ance	
						# Budgeted Pos.	Resig & Sep.	% Turn- over		
TOTAL*	4,787.88	460.50	9.62	18.00	81.00	3,190.75	270.50	0.08	80.00	11.00
Average*	114.00	10.96		0.43	1.93	75.97	6.44		1.90	0.26
NEW ENGLAND*	468.50	46.00	9.82	4.00	7.00	332.00	19.00	0.06	15.00	1.00
Conn.	202.00	10.00	4.95	1.00	2.00	152.00	3.00	0.02	4.00	
Mass.	128.00	23.00	17.97	2.00	3.00	83.00	8.00	0.10	9.00	1.00
Me.										
N.H.	19.50	3.00	15.38	1.00	1.00	13.00	1.00	0.08		
R.I.	90.00	8.00	8.89		1.00	65.00	5.00	0.08	2.00	
Vt.	29.00	2.00	6.90			19.00	2.00	0.11		
MIDDLE ATLANTIC*	269.00	3.00	1.12	0.00	2.00	173.00	1.00	0.01	0.00	0.00
N.J.	201.00	0.00	0.00			143.00		0.00		
N.Y.										
Pa.	68.00	3.00	4.41		2.00	30.00	1.00	0.03		
EAST NORTH CENTRAL*	874.50	80.50	9.21	3.50	9.00	546.50	51.00	0.09	14.00	3.00
Ill.	124.00	9.00	7.26		2.00	76.00	5.00	0.07	2.00	
Ind.	80.00	7.00	8.75			66.00	6.00	0.09	1.00	
Mich.	324.00	27.00	8.33	1.00	1.00	174.00	13.00	0.07	10.00	2.00
Ohio	141.00	19.00	13.48		2.00	93.00	16.00	0.17		1.00
Wisc.	205.50	18.50	9.00	2.50	4.00	137.50	11.00	0.08	1.00	
WEST NORTH CENTRAL*	380.00	38.00	10.00	1.00	7.00	243.00	25.00	0.10	5.00	0.00
Ia.	106.00	15.00	14.15	1.00	2.00	75.00	10.00	0.13	2.00	
Kans.	68.00	7.00	10.29		3.00	44.00	3.00	0.07	1.00	
Minn.	65.00	3.00	4.62		1.00	34.00	2.00	0.06		
Mo.	74.00	2.00	2.70			47.00	2.00	0.04		
Nebr.										
N.D.	34.00	8.00	23.53			21.00	8.00	0.38		
S.D.	33.00	3.00	9.09		1.00	22.00		0.00	2.00	
SOUTH ATLANTIC*	1,004.00	117.00	11.65	4.00	23.00	678.00	72.00	0.11	17.00	1.00
Del.	33.00	4.00	12.12			23.00	3.00	0.13	1.00	
D.C.										
Fla.	261.00	47.00	18.01	3.00	10.00	179.00	27.00	0.15	7.00	
Ga.	111.00	15.00	13.51		6.00	58.00	6.00	0.10	3.00	
Md.	278.00	12.00	4.32		2.00	203.00	8.00	0.04	2.00	
N.C.	156.00	21.00	13.46	1.00	3.00	109.00	14.00	0.13	3.00	
S.C.	112.00	8.00	7.14		1.00	77.00	7.00	0.09		
Va.										
W.Va.	53.00	10.00	18.87		1.00	29.00	7.00	0.24	1.00	1.00
EAST SOUTH CENTRAL*	409.50	35.00	8.55	1.50	4.00	262.00	22.50	0.09	7.00	0.00
Ala.	134.00	6.00	4.48		1.00	92.00	5.00	0.05		
Ky.	58.50	8.00	13.68	0.50	1.00	41.00	4.50	0.11	2.00	
Miss.	45.00	4.00	8.89			25.00	3.00	0.12	1.00	
Tenn.	172.00	17.00	9.88	1.00	2.00	104.00	10.00	0.10	4.00	
WEST SOUTH CENTRAL*	467.00	58.00	12.42	2.00	13.00	305.00	32.00	0.10	11.00	0.00
Ark.	77.00	5.00	6.49		1.00	40.00	3.00	0.08	1.00	
La.	153.00	19.00	12.42		1.00	96.00	13.00	0.14	5.00	
Okla.	51.00	2.00	3.92		1.00	40.00		0.00	1.00	
Tex.	186.00	32.00	17.20	2.00	10.00	129.00	16.00	0.12	4.00	
MOUNTAIN*	271.88	46.00	16.92	1.00	7.00	181.00	29.00	0.16	3.00	6.00
Ariz.	64.00	5.00	7.81		2.00	45.00	3.00	0.07		
Colo.										
Ida.	60.38	13.00	21.53		1.00	38.50	5.00	0.13	1.00	6.00
Mont.										
Nev.										
N.M.	89.00	20.00	22.47	1.00	4.00	58.00	14.00	0.24	1.00	
Utah	58.50	8.00	13.68			39.50	7.00	0.18	1.00	
Wyo.										
PACIFIC*	555.50	37.00	6.66	1.00	9.00	378.25	19.00	0.05	8.00	0.00
Alaska	42.00	11.00	26.19		4.00	25.00	5.00	0.20	2.00	
Cal.	417.00	15.00	3.60	1.00	2.00	284.00	8.00	0.03	4.00	
Hawaii	53.50	5.00	9.35			39.50	4.00	0.10	1.00	
Ore.	43.00	6.00	13.95		3.00	29.75	2.00	0.07	1.00	
Wash.										
TERRITORIES*	88.00	0.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00	0.00
Guam										
P.R.	88.00	0.00	0.00			92.00		0.00		
V.I.										

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

Lab A Region	I Diagnostic Bacteriology	II Mycology	III Parasitology	IV Virology	V Immunology	VI Hematology	VII Clinical Chemistry	VIII Pathology								
TOTAL*	484.33	-35.17	66.22	-2.15	52.92	-3.21	244.87	-12.19	241.29	1.95	56.70	-1.00	239.45	1.15	68.00	-0.60
Average*																
NEW ENGLAND*	57.70	-2.50	4.20	0.25	8.10	0.50	12.20	0.00	21.70	-1.50	2.00	0.00	23.00	-3.50	0.00	0.00
Conn.	15.00	-3.00	1.00		4.00		4.00		14.00	-1.00	2.00		2.00		14.00	-3.00
Mass.	27.00		2.00		1.00		7.00						4.00			
N.H.	4.70	0.50	0.20		0.10		0.20		0.80				1.00	-0.50		
R.I.	8.00		0.50		1.00		0.50		4.00				4.00			
Vt.	5.00		0.50	0.25	2.00	0.50	0.50		2.90	-0.50						
MIDDLE ATLANTIC*	24.00	1.00	6.00	-4.00	1.00	0.00	29.00	3.00	9.00	0.00	4.00	0.00	11.00	1.00	0.00	0.00
N.J.	24.00	1.00	1.00	-1.00	1.00		20.00	1.00	9.00				11.00	1.00		
N.Y.																
Pa.		II	5.00	-3.00	II		9.00	2.00	IV		4.00		VI			
EAST NORTH CENTRAL*	94.00	-7.50	8.00	1.00	8.00	0.00	66.00	-3.00	43.00	3.00	0.50	-2.00	40.50	-3.50	17.50	1.50
Ill.	17.00		1.00		1.00		4.00	-2.00	5.00				8.00			
Ind.	12.00		2.00		2.00		4.00		5.00							
Mich.	30.00	-5.50	1.00		1.00		17.00		14.00	2.00	0.50	-2.00	8.50	-1.50		
Ohio	27.00	-2.00	1.00		1.00		6.00	-1.00	7.00				9.00	-2.00		
Wisc.	8.00		3.00	1.00	3.00		15.00		12.00	1.00			19.00		17.50	1.50
WEST NORTH CENTRAL*	36.40	-1.55	11.60	-0.45	7.50	0.05	24.50	-1.00	23.80	-0.15	0.50	0.00	17.00	-0.35	1.00	0.00
Ia.	8.00	-0.55	1.00	-0.45	1.00	0.05	8.00	-1.00	4.00	-0.15			5.00	-0.35		
Kans.	10.00	-1.00	1.00		3.00		4.00		2.00				2.00			
Minn.	9.00		1.00		1.00		4.00		8.00				4.00		1.00	
Mo.	8.00		1.00		1.50		5.50		7.00				5.00			
Nebr.																
N.D.			8.00				1.00		1.80		0.50		1.00			
S.D.	1.40		0.10		1.00		2.00		1.00							
SOUTH ATLANTIC*	96.15	-5.85	9.80	-0.75	7.70	-1.00	50.70	0.00	37.10	-2.50	33.70	-0.50	47.45	3.50	43.00	-1.00
Del.	4.00		0.05		0.40		3.95		0.65		0.70		0.45		5.00	
D.C.																
Fla.																
Ga.	19.15	-4.60	1.50		3.25	-1.00	5.25		11.25	-0.50	4.00	-1.50	10.00	2.00		
MD.	40.00		1.00		1.00		26.00		5.00		8.00		19.00		14.00	
N.C.	8.00	-0.25	1.25	-0.25	1.75		7.50		9.50	-2.00	5.00	1.00	12.00	2.00	21.00	
S.C.	19.00		3.00		1.30		6.00		8.70		16.00		VI			
Va.																
W.Va.	6.00	-1.00	3.00	-0.50	I		I		2.00		I		8.00	-0.50	3.00	-1.00
EAST SOUTH CENTRAL*	71.00	2.00	3.00	0.00	5.00	0.50	11.00	0.00	30.00	5.50	3.00	-0.50	23.00	2.00	0.00	-2.00
Ala.	24.00	-1.00	2.00		3.00		5.00		19.00	4.00	2.00		7.00			-2.00
Ky.	4.00				1.00	0.50	2.00		5.00	-1.50	1.00	-0.50	12.00	1.00		
Miss.																
Tenn.	43.00	3.00	1.00		1.00		4.00		6.00	3.00			4.00	1.00		
WEST SOUTH CENTRAL*	42.00	-2.00	4.00	-1.00	9.00	0.00	20.00	-1.00	34.00	-1.00	9.00	2.00	29.00	-1.00	0.00	0.00
Ark.	9.00	-4.00	1.00		1.00		1.00		4.00	-1.00	1.00		4.00	-2.00		
La.	11.00		1.00		1.00		2.00		11.00	1.00	2.00	1.00	7.00	2.00		
Okie.	10.00	2.00			3.00		3.00	-1.00	3.00	-1.00	4.00	1.00	3.00	-1.00		
Tex.	12.00		2.00	-1.00	7.00		14.00		16.00		2.00		15.00			
MOUNTAIN*	21.95	-9.90	5.75	1.80	1.00	0.00	10.50	-0.50	12.00	0.00	0.00	0.00	8.00	0.00	6.50	0.90
Ariz.	4.00		2.00				1.00		4.00							
Colo.																
Ida.	8.95	-5.50	0.25		0.50		2.50	-0.50							3.00	
Mont.																
Nev.																
N.M.	7.00	-2.40	2.50	1.80	I		4.00		5.00		V		4.00		3.50	0.90
Utah	2.00	-2.00	1.00		0.50		3.00		3.00				4.00			
Wyo.																
PACIFIC*	37.13	-6.87	14.87	1.00	3.62	-3.26	35.97	-9.89	26.68	-1.40	0.00	0.00	35.50	3.00	0.00	0.00
Alaska	10.63	-2.37	0.12		1.62	-0.28	3.97	-0.29	3.19	2.10						
Cal.	12.00	-6.50	8.50	1.00		-3.00	26.00	-9.40	13.50	-3.50			28.00	3.00		
Hawaii	14.50		0.50		2.00		2.00		2.00				0.50			
Ore.			7.75		II		2.00		8.00				7.00			
Wash.																
TERRITORIES*	4.00	0.00	1.00	0.00	2.00	0.00	5.00	0.00	4.00	0.00	4.00	0.00	5.00	0.00	0.00	0.00
Guam																
P.R.	4.00		1.00		2.00		5.00		4.00		4.00		5.00			
V.I.																





**SECTION III**

**FINANCE**



TABLE 3-2  
SOURCES OF LABORATORY FUNDS

Lab & Region	Total Laboratory Budget	State Funds				Federal Funds		Earned Funds		Other Funds	
		Direct Funds		Indirect Or Reimburs.		Amount	% of Total Exp.	Amount	% of Total Exp.	Amount	% of Total Exp.
		Amount	% of Total Exp.	Amount	% of Total Exp.						
TOTAL*	158,354,853	121,328,144	76.6	7,301,992	4.6	13,537,096	8.5	12,309,033	7.8	3,878,588	2.4
Average*	3,682,671	2,821,585		189,814		314,816		286,257		90,200	
NEW ENGLAND*	16,368,878	14,879,952	90.9	159,223	1.0	913,803	5.6	0	0.0	416,000	2.5
Conn.	6,690,318	6,483,407	96.6	100,111	1.5	128,800	1.9	0	0.0	0	0.0
Mass.	5,568,000	4,967,000	87.4	0	0.0	283,000	5.1	0	0.0	416,000	7.5
R.I.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
N.H.	524,374	434,560	82.9	59,112	11.3	30,702	5.9	0	0.0	0	0.0
Vt.	2,875,847	2,603,301	90.5	0	0.0	272,546	9.5	0	0.0	0	0.0
MIDDLE ATLANTIC*	9,482,063	7,574,047	79.9	550,000	5.8	531,565	5.6	826,451	8.7	0	0.0
N.J.	6,314,868	4,932,047	78.1	550,000	8.7	144,565	2.3	588,256	10.9	0	0.0
N.Y.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
Pa.	3,167,195	2,642,000	83.4	0	0.0	387,000	12.2	138,195	4.4	0	0.0
EAST NORTH CENTRAL*	29,759,328	19,669,215	66.1	844,194	2.8	3,524,005	11.8	4,540,633	15.3	1,181,280	4.0
Ill.	3,406,000	2,998,600	88.0	0	0.0	407,400	12.0	0	0.0	0	0.0
Ind.	2,187,325	1,774,060	81.1	279,511	12.9	113,824	5.3	0	0.0	0	0.0
Mich.	12,285,304	11,171,138	90.9	5,310	0.0	92,999	0.8	747,326	6.1	268,529	2.2
Ohio	4,578,419	349,265	7.6	39,425	0.9	1,870,396	40.9	1,406,562	30.7	912,751	19.9
Wisc.	7,322,210	3,376,153	46.1	519,948	7.1	1,039,366	14.2	2,388,723	32.6	0	0.0
WEST NORTH CENTRAL*	10,965,237	7,481,187	68.3	1,014,167	9.2	1,290,777	11.4	1,136,872	10.4	72,254	0.7
Ia.	3,631,937	2,028,946	55.9	600,636	16.5	64,145	1.8	938,208	25.8	0	0.0
Kans.	1,831,686	1,645,269	89.8	186,397	10.2	0	0.0	0	0.0	0	0.0
Minn.	1,801,878	1,404,988	78.0	15,135	0.9	342,285	19.0	38,470	2.1	0	0.0
Mo.	1,772,026	1,007,467	56.9	0	0.0	682,305	38.1	0	0.0	72,254	4.1
Nebr.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
N.D.	912,993	701,828	76.9	127,565	14.0	0	0.0	83,500	9.1	0	0.0
S.D.	1,014,737	702,567	69.2	83,434	8.2	152,042	15.0	78,894	7.8	0	0.0
SOUTH ATLANTIC*	28,380,408	21,313,582	80.8	168,136	0.8	1,988,521	7.5	2,099,649	8.0	812,538	3.1
Del.	786,163	622,295	78.2	0	0.0	163,868	20.8	0	0.0	0	0.0
D.C.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
Fla.	7,162,181	5,948,409	83.1	0	0.0	229,198	3.2	838,751	11.7	145,823	2.0
Ga.	3,542,973	3,204,372	90.4	0	0.0	183,601	4.8	175,000	4.9	0	0.0
MD.	6,228,419	5,850,272	90.8	166,138	2.7	378,369	6.1	17,161	0.3	8,479	0.1
N.C.	3,970,939	2,594,043	65.3	0	0.0	801,166	20.2	575,730	14.5	0	0.0
S.C.	3,663,301	2,459,739	67.1	0	0.0	52,319	1.4	493,007	13.5	658,236	18.0
Va.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
W.Va.	1,028,432	826,432	80.5	0	0.0	200,000	19.5	0	0.0	0	0.0
EAST SOUTH CENTRAL*	11,203,653	7,649,770	68.3	57,620	0.5	1,281,925	11.4	817,622	7.3	1,396,516	12.5
Ala.	4,150,890	3,410,277	82.2	57,620	1.4	683,093	16.5	0	0.0	0	0.0
Ky.	1,882,072	1,564,260	83.1	0	0.0	0	0.0	317,792	16.9	0	0.0
Miss.	1,285,897	462,823	36.0	0	0.0	475,782	37.0	347,192	27.0	0	0.0
Tenn.	3,884,684	2,212,280	56.9	0	0.0	123,050	3.2	152,636	3.9	1,396,516	35.9
WEST SOUTH CENTRAL*	15,319,365	11,802,459	77.0	1,014,400	6.6	1,588,283	10.4	914,224	6.0	0	0.0
Ark.	1,742,593	1,559,548	89.5	0	0.0	175,297	10.1	7,748	0.4	0	0.0
La.	4,251,976	2,812,214	66.1	0	0.0	533,286	12.5	906,476	21.3	0	0.0
Okla.	1,455,097	1,455,097	100.0	0	0.0	0	0.0	0	0.0	0	0.0
Tex.	7,669,700	5,975,600	75.9	1,014,400	12.9	879,700	11.2	0	0.0	0	0.0
MOUNTAIN*	8,927,370	6,823,587	16.4	388,215	4.3	147,348	1.7	1,004,814	11.3	0	0.0
Ariz.	1,833,282	1,460,390	79.7	0	0.0	147,348	8.0	225,554	12.3	0	0.0
Colo.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
Ida.	1,874,575	1,335,323	71.2	0	0.0	279,252	14.9	280,000	13.9	0	0.0
Mont.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
Nev.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
N.M.	3,093,068	2,890,989	87.0	148,776	4.8	118,609	3.8	136,714	4.4	0	0.0
Utah	2,126,435	1,436,865	67.6	239,439	11.3	67,585	3.2	382,546	18.0	0	0.0
Wyo.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
PACIFIC*	28,792,263	22,933,902	79.7	3,108,035	10.8	1,781,758	6.2	968,568	3.4	0	0.0
Alaska	1,970,800	1,828,700	92.8	42,100	2.1	0	0.0	0	0.0	0	0.0
Cal.	20,997,141	16,428,050	78.2	3,065,935	14.6	1,503,156	7.2	0	0.0	0	0.0
Hawaii	1,210,871	1,210,871	100.0	0	0.0	0	0.0	0	0.0	0	0.0
Ore.	1,975,531	1,327,837	67.2	0	0.0	103,334	5.2	544,360	27.6	0	0.0
Wash.	2,637,920	2,038,444	77.3	0	0.0	175,268	6.6	424,208	16.1	0	0.0
TERRITORIES*	1,156,187	1,090,482	94.3	0	0.0	65,685	5.7	0	0.0	0	0.0
Guam	0	0	NA	0	0.0	0	NA	0	0.0	0	NA
P.R.	1,156,187	1,090,482	94.3	0	0.0	65,685	5.7	0	0.0	0	0.0
V.I.	0	0	NA	0	0.0	0	NA	0	0.0	0	NA





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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
AL	FEDERAL			
	Medicaid--Pinworms (Microscopic examination of tape slide preparation for the detection of pinworms)	Micro. III Lab. Tech. II Clk. Typist II	0.02 0.3 0.1	Pers. 6,228 TOTAL 6,228
	Medicaid--Intestinal Parasites (Microscopic examination of formalized specimens for the detection of helminths and protozoa)	Micro. III Micro. II Lab. Tech. II Clk. Typist II	0.04 0.3 0.1 0.1	Pers. 10,019 TOTAL 10,019
	Medicaid--Sickle Cell (Electrophoretic separation of filter paper blood specimens for the detection of abnormal hemoglobins)	Micro. III Micro. II Clk. Typist II	0.14 0.4 0.1	Pers. 13,033 TOTAL 13,033
	Medicaid--VDRL (Non-treponemal blood test for syphilis screening)	Micro. III Micro. I Clk. Typist II	0.04 0.25 0.1	Pers. 6,861 TOTAL 6,861
	Medicaid--GC (Statewide program for the detection of gonorrhea by cultural methods)	Micro. III	0.03	Pers. 599 TOTAL 599
	Block Grant (Branch laboratory salaries)	Micro. V Micro. IV Micro. III Micro. II Micro. I Lab. Tech. III Lab. Tech. II	2.0 2.0 6.0 10.0 3.0 2.0 5.0	Pers. 625,135 TOTAL 625,135
	STATE			
	MCH (Performance of VDRL, Rubella, and Rh on specimens submitted)	Micro. IV Lab. Tech. III Micro. I	1.0 1.0 0.66	Pers. 57,620 TOTAL 57,620

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
AZ	FEDERAL			
	EPA--Water Pollution Grant (Analysis of water samples for State Bureau of Water Quality Env. Lab. certification)	Chem. III Lab. Cert. Consultant	0.37 : 0.08	Pers. 17,827 : TOTAL 17,827
	EPA--Safe Drinking Water (Analysis of water samples for Environmental Lab. cert.)	Chem. III Lab. Cert. Consultant	0.25 : 0.92	Pers. 32,517 Supp. 950 TOTAL 33,467
	EPA--Air Pollution Grant (Analysis of air samples)	Chem. III	1.0	Pers. 29,064 TOTAL 29,064
	EPA--Wastewater Treatment Construction Grant (Analysis of water samples)	Chem. III	0.38	Pers. 6,480 TOTAL 6,480
	Corps of Engineers (Analysis of water samples)	Chem. III	0.1	Supp. 5,445 TOTAL 5,445
	FDA--Food Inspection Grant (Analysis of food samples)	Micro. III	0.1	Supp. 1,800 TOTAL 1,800
	HIB--Medicare (Certification of labs for Bur. of Health Facilities Licensure)	Lab. Cert. Consultant Typist II	1.0 0.5	Pers. 34,630 Supp. 100 Other 3,900 TOTAL 38,630
	STATE			
	Arizona Dairy Commissioner (Interagency contract to analyze dairy products for pesticides/ aflatoxin and microbiological quality)	Lab. Tech. II Chem. III Chem. II	4.0 1.0 1.0	Pers. 117,230 Supp. 16,570 Equip. 5,227 TOTAL 139,027



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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Governor's Office of Highway Safety (Interagency contract in blood alcohol regulatory program, certifying equipment, analysts, and breath testing machine operators)	Chem. III Typist II	1.0 1.0	Pers. 50,773 Supp. 2,049 Other 4,098 TOTAL 56,920
	Industrial Comm./Occupational Safety & Health (Interagency contract to analyze samples submitted)	Chem. III	1.0	Pers. 30,549 Supp. 6,817 Equip. 6,876 TOTAL 44,242
AR	FEDERAL Fluoride Grant (Public Water Supply Testing)	Lab. Tech. II	1.0	Pers. 12,949 Supp. 1,397 TOTAL 14,346
	Safe Drinking Water Act (Public Water Supply Testing)	Chem. I Lab Tech. II Micro. II Micro. I	1.0 2.0 1.0 1.0	Pers. 86,708 Supp. 13,063 Other 203 TOTAL 99,974
	STATE UAMSC--Library and Pharmacy (Toxicology Service)			Other 63,156 TOTAL 63,156
CA	FEDERAL National Institutes of Health (NIAID) (Interaction of CMV with Host Cells)	Res. Spec. II P.H. Micro. II Gen. Lab. Supp.	0.75 0.8 0.45	Pers. 69,775 Supp. 2,225 Other 22,764 TOTAL 94,764

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

Lab :	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
:	:	:	:	:
:	National Institutes of Health	Res. Spec. II	0.5	Pers. 92,102
:	(NIAID)	P.H. Micro. II	0.8	Supp. 3,247
:	(Characterization and Detection	Gen. Lab. Supp.	1.4	Equip. 1,200
:	of Viruses and Antibodies	:	:	Other 28,062
:	:	:	:	:
:	:	:	:	TOTAL 124,611
:	:	:	:	:
:	NIH, National Institute of	P.H. Micro. II	0.8	Pers. 28,779
:	Neurological and Communicative	Gen. Lab. Supp.	1.0	Other 9,900
:	Disorders and Stroke (NINCDS)	:	:	:
:	(Study of Lymphocyte Antibody	:	:	TOTAL 38,679
:	Traffic in the Central Nervous	:	:	:
:	System)	:	:	:
:	:	:	:	:
:	:	:	:	:
:	U.S. Army Medical Research and	Res. Spec. III	1.0	Pers. 11,732
:	Development Command	:	:	Other 4,502
:	(Development of Psoralen Photo-	:	:	:
:	inactivated Alphavirus and	:	:	TOTAL 16,234
:	Arenavirus Vaccines)	:	:	:
:	:	:	:	:
:	:	:	:	:
:	NIH, Procurement Branch/National	Animal Tech.	3.5	Pers. 112,256
:	Cancer Institute (NCI)	Gen. Lab. Supp.	2.3	Supp. 4,815
:	(NCI Collaborative Cancer Virus	:	:	Other 33,697
:	Studies)	:	:	:
:	:	:	:	TOTAL 150,768
:	:	:	:	:
:	:	:	:	:
:	National Science Foundation	Res. Spec. II	1.0	Pers. 54,730
:	(Studies on the Cytopathogen of	Gen. Lab. Supp.	0.2	Supp. 1,806
:	the Genus Naegleria)	:	:	Other 18,464
:	:	:	:	:
:	:	:	:	TOTAL 75,000
:	:	:	:	:
:	:	:	:	:
:	NIH, National Heart, Lung and	Res. Spec. II	0.5	Pers. 68,949
:	Blood Institute	Gen. Lab. Supp.	2.45	Supp. 4,500
:	(Coxsackieviruses in Chronic	:	:	Other 22,692
:	Disease: Role in Antigenic	:	:	:
:	Variation	:	:	TOTAL 96,141
:	:	:	:	:

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

Source of Funds	Staff Utilized	FTE	Costs
Lab : Programs Served and Services Provided	:	:	:
Environmental Protection Agency	P.H. Micro. II	1.0	Pers. 58,532
(Water Virology Lab. Unit. Develop and evaluate procedures for virus concentration and removal from water. Develop laboratory techniques for virus assay of water samples, evaluation of wastewater treatment systems, and health significance of viruses in water environment. Services are part of the support for Sanitary Engineering Sect.)	Gen. Lab. Supp.	1.0	Other 20,135
			TOTAL 78,667
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EPA	Res. Spec. III	0.5	Pers. 66,164
(Evaluate sampling and analytical problems in air pollution monitoring)	Air Poll. Res. Spec.	0.5	Supp. 9,208
	Off. Asst. II	0.5	Equip. 1,260
	Stud. Asst.	0.3	Other 24,759
			TOTAL 101,391
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EPA	Res. Spec. III	0.5	Pers. 29,927
(Validate samplers for inhaled particles)	Air Poll. Res. Spec.	0.3	Supp. 5,812
	Stud. Asst.	0.2	Equip. 3,630
			Other 12,741
			TOTAL 52,110
<hr/>			
EPA	Env. Biochem.	0.5	Pers. 70,203
(Analysis of environmental mixtures by short-term bioassays)			Supp. 13,703
			Other 52,738
			TOTAL 136,644
<hr/>			
National Science Foundation	Res. Spec. III	0.3	Pers. 25,932
(Fundamental and applied studies of particle-surface interactions)	Air Poll. Res. Spec.	0.3	Supp. 4,708
			Other 10,021
			TOTAL 40,661

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
STATE				
	California Air Resources Board (CARB) (Particulate concentrations in ambient air)	Res. Sci. III Air. Poll. Res. Spec.	0.4 0.4	Pers. 39,163 Supp. 7,000 Equip. 77,939 Other 15,719
				TOTAL 139,821
CARB				
	(Particulate matter analysis by electron microscopy)	P.H. Chem. II	0.5	Pers. 16,866 Supp. 1,500 Equip. 75,484 Other 6,150
				TOTAL 100,000
CARB				
	(Carcinogens and mutagens in ambient air particulate matter)	P.H. Chem. II P.H. Chem. I Res. Tech. Grad.Stu. Asst.	1.0 0.5 1.0 0.4	Pers. 76,405 Supp. 7,000 Equip. 26,000 Other 40,595
				TOTAL 150,000
CARB				
	(Determination of acidity in ambient air)	Res. Sci. III Air Poll. Res. Spec. P.H. Chem. II Stu. Asst. Off. Asst.	0.5 0.6 0.4 0.5 0.2	Pers. 87,891 Supp. 7,000 Equip. 22,800 Other 32,743
				TOTAL 150,434
CARB				
	(Monitor mutagens and carcino- gens in community air)	P.H. Chem. II	0.5	Pers. 15,516 Supp. 1,769 Other 5,365
				TOTAL 22,650
CARB				
	(Visibility reduction as related to aerosol constituents)	Res. Spec. III Air Poll. Res. Spec. P.H. Chem. II	0.5 0.5 0.7	Pers. 54,822 Supp. 3,982 Other 22,330
				TOTAL 81,134

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	CARB (Assessment of gaseous and particulate dry acid deposition in California)	Res. Spec. III Air Poll. Res. Spec. Off. Asst. II Stud. Asst.	0.3 0.4 0.5 0.1	Pers. 45,730 Supp. 8,062 Equip. 4,498 Other 17,207 TOTAL 75,497
GT	FEDERAL Medicare (Laboratory Improvement)	Med. Examiner	1.0	Pers. 22,000 TOTAL 22,000
	Safe Drinking Water Act (Laboratory Standards)	Chemist Lab. Helper	1.0 1.0	Pers. 26,410 TOTAL 26,410
	STATE Dept. of Environmental Protection (Water Quality Assurance Laboratory Tests)	Pr. Env. Chem. Sr. Env. Chem. Chemist	1.0 2.0 1.0	Pers. 78,390 TOTAL 78,390
FL	LOCAL South West Waste Water Treatment Plant, St. Petersburg, Florida (Research in waste water treatment)	Bio. Adm. I Lab. Tech. II Lab. Helper Bio. Sci. II	1.0 1.0 1.0 1.0	Pers. 34,517 Equip. 10,736 Other 1,142 TOTAL 46,395
	Central Florida Research (Research to determine the prevalence of Naegleria in Central Florida lakes)	Bio. Sup. I Bio. Sci. I Lab. Tech. I Bio. Sci. II	1.0 1.0 1.0 1.0	Pers. 61,437 Equip. 15,597 Other 4,581 TOTAL 81,615
GA	FEDERAL Sexually Transmitted Disease Unit (Gonorrhea Culture Screening)	Lab. Sci. Sr. Lab. Tech. Sr. Clerical	1.0 3.0 2.0	Supp. 110,101 TOTAL 110,101

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

Lab :	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Stroke and Heart Attack Preven- tion Program (Hypertension Program)	Lab. Sci.	1.0	Supp. 17,000 TOTAL 17,000
	State DFACS (Refugee Program) (Health Screening for Refugees)	4 Lab. areas		Supp. 36,500 TOTAL 36,500
ID :	FEDERAL			
	CDC Laboratory Training (Lab. Improvement telelecture training grant)			Supp. 2,406 TOTAL 2,406
	EPA Water Pollution Control (Chemistry support of water pollution control program)	Clerical Supervisor Lab. Asst. Chemist	0.25 0.65 1.07 5.33	Pers. 58,000 Supp. 12,200 TOTAL 70,200
	Water Systems Supervision (Approval of private labs for performance of tests on public water supplies)	Chemist Clerical	0.43 0.15	Pers. 19,448 Supp. 1,600 TOTAL 21,048
	Title XVIII Certification, Lab. Improvement Section (Medicare lab. inspection)	Supervisor Surveyor	0.4 0.1	Pers. 18,242 Supp. 1,636 TOTAL 19,878
	MCH Block Grant—Genetics Pro- gram (Support of genetics program)	Micro. Med. Tech.	1.0 0.5	Pers. 42,529 Supp. 1,500 TOTAL 44,029
	Genetics Services Improvement, Genetics Program (Extend genetics services and improve access to them)	Clerical Supervisor	0.5 0.4	Pers. 22,464 Supp. 1,920 TOTAL 24,384

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Oregon Contract, Genetics Program (Subgrant for genetic outreach and education in Idaho)	Supervisor Clerical	0.62 0.7	Pers. 19,531 TOTAL 19,531
	ADAMH Block Grant, Forensic Program (Drug and alcohol programs)	Criminalists Supervisor	2.8 0.2	Pers. 44,000 TOTAL 44,000
	Office of Highway Safety, Breath Testing Forensic Program (Breath alcohol testing)	Clerical Criminalists Supervisor	0.5 1.25 0.2	Pers. 20,397 Supp. 1,662 Equip. 1,100 Other 2,425 TOTAL 25,584
	Air Pollution (Monitoring of air samples)	Chemists Supervisor	0.9 0.2	Pers. 12,000 Supp. 4,000 TOTAL 16,000
IL	FEDERAL			
	Sexually Transmitted Diseases (Statewide monitoring of sexual- ly transmitted diseases)	Lab. Helper Micro. II Lab. Tech. I	1.0 1.0 1.0	Pers. 51,000 Supp. 29,800 TOTAL 80,800
	Pesticides (Use residues for pesticides analyses under FIFRA)	Chem. I Lab. Tech. I	1.0 1.0	Pers. 34,920 Supp. 2,780 TOTAL 37,700
	Toxic Substances	Chem. I	1.0	Pers. 16,400 Supp. 9,200 Other 100 TOTAL 25,700

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Metabolic Diseases	Micro. I	1.0	Pers. 16,100 Supp. 3,100 TOTAL 19,200
	Block Grant			Pers. 244,000 TOTAL 244,000
	Safe Drinking Water (Non-community water supply analysis for chemical/micro- biological contamination)	Chem. II Lab. Tech. I	1.0 1.0	Pers. 35,778 TOTAL 35,778
	Pediatric Lead (Lab. service for support of blood lead program--3 months)	Chem. I	1.0	Pers. 3,585 TOTAL 3,585
IA	FEDERAL			
	USDA Soil Conservation Services (Provide lab. and field services for water quality monitoring for USDA Soil Conservation Services Yellow River Study)		0.42	Pers. 8,840 Supp. 990 Other 1,671 TOTAL 11,501
	USGS (Provide lab. services for USGS raw water monitoring program)			Supp. 780 Other 133 TOTAL 913
	U. S. Army (Research on stability of m-Amyl Ketone)		0.27	Pers. 6,142 Supp. 1,264 Equip. 5,107 Other 2,814 TOTAL 15,327



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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	U. S. Army Corps of Engineers (Provide water quality lab. services for Illinois River Project)		0.26	Pers. 6,735 Supp. 575 Other 1,243 TOTAL 8,553
	EPA SDWA Water Supply (SDWA Consultation services)		0.67	Pers. 12,909 Supp. 5,204 Other 8,561 TOTAL 26,674
	EPA Radium Removal Project (Provide lab. services)		0.02	Pers. 383 Supp. 302 Equip. 369 Other 123 TOTAL 1,177
	STATE			
	Industrial Hygiene (Provision of lab. services for Iowa Bureau of Labor)		3.33	Pers. 70,924 Supp. 12,261 Equip. 3,002 Other 14,170 TOTAL 100,357
	Gonorrhea Screening (ISDH) (Provision of culture services to detect asymptomatic patients)		0.91	Pers. 25,868 Other 6,967 TOTAL 32,835
	Medicare (ISDH) (Surveys of hospital labs. to insure compliance with Medicare standards)		1.0	Pers. 32,675 Supp. 3,416 Other 6,136 TOTAL 42,227

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

Source of Funds Lab : Programs Served and Services : Provided	Staff Utilized	FTE	Costs
Iowa DEQ (Provide lab. and field services for water quality monitoring, including data transmittal)		5.7	Pers. 128,507 Supp. 44,181 Equip. 878 Other 29,482 TOTAL 203,048
Iowa DEQ (Provide lab. and field services for air quality monitoring)		5.61	Pers. 127,989 Supp. 47,729 Equip. 300 Other 29,578 TOTAL 205,596
Iowa Conservation Commission (Provide lab. and field services for water quality monitoring)		0.2	Pers. 4,927 Supp. 2,732 Other 1,386 TOTAL 9,045
Iowa State University (Underground injection well study)		0.17	Pers. 5,872 Supp. 562 Other 1,094 TOTAL 7,528
PRIVATE			
Environmental Chemistry (Provision of field and lab. services to private industries)		4.35	Pers. 100,060 Supp. 28,911 Equip. 5,809 Other 23,679 TOTAL 158,459
Internal Programs (Provision of continuing educa- tion and metabolic screening support)		2.08	Pers. 48,009 Supp. 33,942 Equip. 8,304 TOTAL 90,255

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

Lab :	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
KS :	FEDERAL			
	Department of Transportation, Highway Safety Fund (Statewide training in the use of breath alcohol instruments as required under equipment pur- chase grant)	Lab. Improve. Specialist	1.0	Equip. 26,442 TOTAL 26,442
	Medicare Title XVIII (Clinical lab. surveys for Medi- care certification purposes)	Lab. Improve. Specialist Supervisor	0.5 0.2	Pers. 9,508 TOTAL 9,508
	EPA Air Quality Fund (Perform metal and non-metal analyses in support of statewide ambient air monitoring program)	Chem. II	1.0	Pers. 22,955 TOTAL 22,955
	Preventive Health and Health Services Block Grant (Public health lab. support for disease prevention)	Micro. I Micro. II Chem. I Chem. II	1.0 1.0 1.0 1.0	Pers. 11,998 Supp. 55,017 TOTAL 67,015
	EPA Water Pollution Control Fund (Lab. analyses in support of environmental monitoring pro- grams)	Chem. II Chem. I Micro. II PHLT I	0.5 1.0 0.4 1.0	Pers. 36,952 Supp. 18,972 TOTAL 55,924
	Water Supply Fund (Lab. analyses for monitoring public drinking water supplies in the State)	Chem. III Chem. II Chem. I Lab. Tech. I Micro. II	1.5 1.0 2.0 1.0 1.0	Supp. 1,159 TOTAL 1,159
	Maternal and Child Health Block Grant (Neonatal screening for genetic diseases-PKU and Hypothyroidism)	Chem. III Chem. I PHLT II Micro. II	0.3 1.0 1.0 0.5	Pers. 39,209 Supp. 21,120 TOTAL 60,329

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
<hr/>				
KY	FEDERAL			
	T & A Funds from Department of Labor Contract (Analysis of occupational health: samples)	Chemist	4.0	Pers. 90,000 Supp. 13,750 Other 21,250
				TOTAL 125,000
<hr/>				
	T & A Funds from Justice Dept. (Additional costs in providing Toxicology Services for Medical Examiner Program)	Chemist	2.0	Pers. 12,258 Supp. 1,809 Other 6,028
				TOTAL 20,095
<hr/>				
	STATE			
	Div. of Maternal and Child Health (PKU, Galactosemia, and T4 screening; Rh testing)	Micro. Clerical Lab. Aide	4.5 1.0 1.5	Pers. 135,163 Supp. 59,992
				TOTAL 195,155
<hr/>				
LA	FEDERAL AND STATE			
	Sea Grant Program (Ecological and Epidemiological Study of <u>Vibrio vulnificus</u> )			Pers. 655 Supp. 8,924 Other 771
				TOTAL 10,350
<hr/>				
MD	FEDERAL			
	Crippled Childrens--Title V (Testing for inborn errors of metabolism in newborns)			Supp. 60,000
				TOTAL 60,000
<hr/>				
	Venereal Disease Control (Screening program for gonorrhea and syphilis)			Supp. 72,734
				TOTAL 72,734
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	Gonorrhea Testing (Testing of specimens for gonorrhea in Cheverly Branch Lab.)	Lab. Scientist	1.0	Pers. 11,667 Other 2,300
				TOTAL 13,967

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Air Pollution Control Act (Monitoring of Air Quality Lab. throughout State of Md., in search of pollutants)	Lab. Scientist Lab. Asst.	1.0 1.0	Pers. 10,785 Supp. 7,188 Other 13,654 TOTAL 31,627
	Certification, Training and Field Services SSA--Title XVIII (Licensure and inspection of clinical labs in Md. for State and Medicare requirements)	Physician Lab. Scientist	0.5 0.5	Pers. 35,000 Other 1,313 TOTAL 36,313
	Blood Lead Screening Program (Lab. testing of blood samples for traces of lead)	Chemist Lab. Asst.	1.0 1.0	Pers. 25,000 TOTAL 25,000
	Sickle Cell Screening Program (Lab. testing of specimens for hereditary disorders)	Lab. Asst. Typist Clerk	1.0 1.0	Pers. 22,137 Other 375 TOTAL 22,512
	Gonorrhea Screening and Report- ing Program (Lab. testing of specimens and supplying necessary data for epidemiological follow-up)	Micro. Lab. Asst. Typist Clerk	2.0 1.0 2.0	Pers. 73,000 TOTAL 73,000
	Pregnancy Testing (Drawing of blood and analyzing specimens for positive pregnancy tests in Cheverly Branch Lab.)	Lab. Asst.	1.0	Pers. 9,324 Other 1,535 TOTAL 10,859
	Immunization Program (Screening specimens for rubella and rubeola)			Supp. 3,000 TOTAL 3,000

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Safe Drinking Water Program (Testing of public drinking water for contaminants)	Lab. Scientist	1.0	Pers. 10,306 Supp. 13,219 TOTAL 23,525
	Resource Conservation and Recovery Act (Testing of suspected toxic and hazardous waste samples)	Lab. Scientist	3.0	Pers. 43,717 Supp. 2,000 Equip. 118,238 TOTAL 163,955
	PCB/Asbestos Control Program (Testing of suspected hazardous waste samples for PCB and/or asbestos)	Lab. Asst.	1.0	Pers. 1,779 Equip. 7,000 TOTAL 8,779
	Water Pollution Control (Testing of suspected toxic and hazardous waste samples)	Chemist	3.0	Pers. 45,786 Supp. 4,000 TOTAL 49,786
	<b>FEDERAL AND STATE</b>			
	Occupational Safety and Health Act—Division of Labor and Industry (Lab. testing of samples sub- mitted by MOSHA Program)	Lab. Scientist Lab. Asst.	4.0 3.0	Pers. 120,847 Supp. 12,653 Other 32,638 TOTAL 166,138
	<b>STATE</b>			
	Neonatal Screening Contract— State of Delaware (Inborn errors of metabolism testing for Maryland residents who live in Delaware)			Supp. 17,161 TOTAL 17,161
	<b>COUNTY</b>			
	Montgomery County Public Health (Testing of specimens and hand- ling of paper work in Rockville Branch Laboratory)	Lab. Scientist Lab. Asst. Secretary	2.0 1.0 1.0	Pers. 70,000 TOTAL 70,000

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
MA	FEDERAL			
	(Kidney Transplant-Associated CMV Infection Prevention)	Professor R.N. Res. Tech.	1.0 1.0 2.0	Pers. 81,593 Supp. 3,580 Equip. 6,098 Other 647
				TOTAL 91,918
	(GC identification service)	Sr. Bact. Jr. Bact.	1.0 2.0	Pers. 67,241 Supp. 1,200 Other 2,000
				TOTAL 70,441
	(Galactosemia Study)		3.5	Pers. 72,727 Other 27,273
				TOTAL 100,000
	STATE			
	Div. of Tuberculosis Control (TB lab. training and consulta- tion)	Asst. Bact.	1.0	Pers. 23,933
				TOTAL 23,933
	N. E. States (Neonatal Screening)		10.5	Pers. 155,767 Supp. 6,593
				TOTAL 162,360
	PRIVATE			
	Mass. Health Research Inst. (Virology Project)	Res. Tech.	0.2	Pers. 2,482
				TOTAL 2,482

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Mass. Health Research Inst. Plasma Fractionation (Fractionation of blood plasma into special plasma derivatives for human use, including VZIG, Normal Serum Albumin, ISG, and other special products)	Director Asst. Dir. Asst. Chem. Jr. Chem. Jr. Bact. Lab. Tech. Lab. Asst. Engineer Maintenance Head Clerk Janitor Adm. Asst.	0.33 1.5 2.6 3.0 4.5 3.5 6.2 1.0 1.3 1.0 1.0 1.5	Pers. 591,442 Supp. 94,671 Equip. 220,023 Other 10,700 TOTAL 916,836
	(Efficacy of Hepatitis B vaccine in health care personnel)	Professor Res. Asst.	1.0 1.0	Pers. 34,531 Supp. 4,018 Equip. 795 Other 354 TOTAL 39,698
MI	FEDERAL			
	Brucellosis Contract (Development of effective brucellosis vaccine)	Lab. Tech. IVB Lab. Asst. IIIB Personal Serv. Emp.	0.8 0.2  0.5	Pers. 50,544 Supp. 4,445 Equip. 153 TOTAL 55,142
	Legionella Contract (Production and laboratory evaluation of <u>Legionella</u> <u>pneumophila</u> skin test antigen)	Lab. Asst. III Micro. VII	0.3 1.0	Pers. 36,406 Supp. 1,451 TOTAL 37,857
	STATE			
	Galactosemia Screening Agreement (Screening for galactosemia in newborns)	Lab. Asst. II	0.2	Pers. 3,067 Supp. 2,243 TOTAL 5,310



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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
: LOCAL				
	Kent County Agreement (Provide certain local laborat- ory services for county)	Micro. VII Micro. VIB Lab. Tech. IV	1.0 1.0 1.0	Pers. 97,901 Supp. 175 Equip. 983
				TOTAL 99,059
: OTHER				
	Red Cross Agreement (Research to develop or improve blood fractions)	Clin. Health Scientist VII Lab. Sci. VIB Lab. Asst. IIIB	1.0 1.0 1.0	Pers. 90,465 Supp. 42,771 Equip. 5,822 Other 134
				TOTAL 139,192
	Interferon Contract (Production of clinically use- ful Interferon)	Lab. Asst. III	1.0	Pers. 21,601 Supp. 8,677
				TOTAL 30,278
MN	STATE			
	University of Minnesota (Tuberculosis examinations)	Microbiologist	1.0	Pers. 21,600 Supp. 11,027
				TOTAL 32,627
MO	FEDERAL			
	FDA (Performance of laboratory tests on food samples)		0.3	
	STATE			
	State Milk Board (Laboratory inspection, approv- al, and testing)		0.5	

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Department of Natural Resources (Public water supply testing and laboratory inspection; bacterio- logical and chemical testing)	Micro. IV Micro. III Micro. II Med. Lab. Tech. Chem. IV Chem. III Chem. II Typist	8.0 (total)	
	Division of Highway Safety (Breath alcohol maintenance)	Chem. IV Chem. III Chem. II Clerk Typist	4.0 (total)	
NH	FEDERAL (Gonococcus culturing)	Lab. Scientist	1.0	Pers. 15,702 Supp. 15,000 TOTAL 30,702
	STATE Fish & Game Agency (Shellfish monitoring for PSP)	Lab. Scientist	0.1	Supp. 4,000 TOTAL 4,000
	Department of Safety (Expert Witness Program--Blood and Breath Alcohols)	Lab. Scientist	2.0	Pers. 43,980 Supp. 2,829 Other 3,303 TOTAL 50,112
	Division of Mental Health (Clinical bacteriology and sero- logy for hospital patients)	Lab. Scientist	0.5	Supp. 5,000 TOTAL 5,000

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
NJ	FEDERAL			
	Sexually Transmitted Disease			Pers. 110,328
				TOTAL 110,328
	Maternal & Child Health Block			Pers. 12,154
				TOTAL 12,154
	Immunization Project			Pers. 22,083
				TOTAL 22,083
	STATE			
	Department of Environmental Protection			Pers. 550,000
				TOTAL 550,000
NM	STATE			
	N.M. Dept. of Agriculture (Analysis of specimens submitted by Veterinary Service)			TOTAL 26,900
	SWDA through N.M. Environmental Improvement Division (Bacteriological water analysis)			TOTAL 53,900
	N.M. Health Services Division (Licensing and certification of laboratories which perform analyses reimbursed under Medi- care/Medicaid)			TOTAL 13,000
	Traffic Safety Bureau (NHTSA Funding) (Breath and blood analysis, training, and repair of alcohol equipment)			TOTAL 24,000

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
NC	FEDERAL			
	OSHA Program (RCC 2201) (Analytical laboratory support to field engineers investigating OSHA complaints)	Anal. Chem. I Lab. Tech.	1.0 1.0	Pers. 36,022 Supp. 2,929 Equip. 4,199 Other 5,863
				TOTAL 49,013
	Highway Safety Program (Support the preparation and distribution of ethyl alcohol standard solution for Breathaly- zer calibration)	Anal. Chem. II Anal. Chem. I Chem. Anal. I Lab. Tech.	0.05 0.05 0.05 0.1	Supp. 3,652 Other 1,954 TOTAL 5,606
	OSHA-DOL 7C1 (RCC 4114) (Analytical lab. and clerical support to field engineers in- vestigating OSHA complaints)	Chem. Anal. Clerk-Typist II	1.0 1.0	Pers. 20,553 Other 4,327 TOTAL 24,880
	Centers for Disease Control (Development of Model State Lab. Computer Program for WANG System)	Systems Anal. Other	0.5 0.25	Pers. 24,470 Other 1,855 TOTAL 26,325
	CDC Fluoridation Program (Water analyses for fluoride concentration to School Water Fluoridation Program in N.C. Dental Health Section)	Lab. Tech.	1.0	Pers. 13,408 Other 2,806 TOTAL 16,214
	Safe Drinking Water Act (Coliform, chemical and radiolo- gical analyses for public water systems; certification of water laboratories)	Lab. Cert. Eval. Stock Clerk I Med. Lab. Tech. II Med. Lab. Tech. I Clerk-Typist II	2.0 1.0 1.0 1.0 1.0	Pers. 101,070 Supp. 548 Equip. 423 Other 28,187 TOTAL 130,228

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Hazardous Waste Project (Identification of Toxic Chemical Wastes)	Anal. Chem. II Anal. Chem. I Chem. Anal. I	1.0 1.0 1.0	Pers. 81,753 Other 15,600 TOTAL 97,353
	PCB Project (Analyses of materials for polychlorinated biphenyls)	Anal. Chem. II Anal. Chem. I Chem. Anal. I	0.25 0.25 0.25	Equip. 14,897 TOTAL 14,897
	FEDERAL AND STATE VD Control Project (Gonorrhea Lab. Advisor who provides training and PT to participating local health depts.)	Lab. Imp. Cons.	0.75	Pers. 10,666 Other 1,290 TOTAL 11,956
	STATE Hemoglobin A1C Project (Pilot program to determine feasibility of providing hemoglobin A1C screening for patients)	Med. Lab. Tech. II	1.0	Pers. 6,029 Supp. 2,823 Equip. 1,494 Other 2,500 TOTAL 12,846
	Hypothyroid Screening (Diagnosis of neonatal hypothyroidism)	Med. Lab. Technol. I Med. Lab. Tech. II Clerk-Typist IV	2.0 1.0 2.0	Pers. 69,820 Supp. 89,543 Equip. 5,974 Other 7,564 TOTAL 172,901
	Perinatal Screening (Provides project patients blood typing/grouping and antibody screening)	Med. Lab. Tech.	1.0	Supp. 15,775 TOTAL 15,775

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

Source of Funds	Staff Utilized	FTE	Costs
Lab : Programs Served and Services Provided			
<hr/>			
ND : STATE			
: Dairy Department	: Micro. III	: 0.2	: Pers. 23,000
: (Milk analysis)	: Micro. I	: 0.3	: Supp. 6,000
:	: Tech.	: 1.3	: Other 1,000
:	:	:	:
:	:	:	:
:	:	:	: TOTAL 30,000
<hr/>			
OH : FEDERAL AND STATE			
: Environmental Protection Agency	: Chem.Lab.Supv.2:	: 1.0	: Pers. 686,969
: (Water, air, soil and misc.	: Chem.Lab.Supv.1:	: 2.25	: Supp. 60,996
: other tests)	: Chem. 3	: 4.0	: Equip. 29,654
:	: Chem. 2	: 7.5	: Other 9,569
:	: Chem. 1	: 2.0	:
:	: Micro.Supv. 1	: 1.0	: TOTAL 787,188
:	: Micro. 3	: 1.0	:
:	: Micro. 2	: 1.5	:
:	: Micro. 1	: 0.83	:
:	: Lab. Tech.	: 2.5	:
:	: Tech. 1	: 1.0	:
:	: Lab. Asst.	: 0.75	:
:	: Secy. 1	: 0.75	:
:	: Tech. Typist	: 0.5	:
:	: Typist 2	: 0.75	:
:	: Acct. 1	: 0.25	:
<hr/>			
STATE			
: Ohio Dept. of Highway Safety	: S/H Insp.Supv.1:	: 1.0	: Pers. 114,000
: (Toxicology--Breathalyzer Test-	: S/H Insp.	: 3.0	: Supp. 16,000
: ing and Training)	:	:	:
:	:	:	: TOTAL 130,000
<hr/>			
: Natural Resources			: Supp. 10,416
:			:
:			: TOTAL 10,416
<hr/>			
: Reclamation			: Supp. 10,505
:			:
:			: TOTAL 10,505
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Table 3-4  
GRANTS, CONTRACTS, OR SPECIAL SERVICE AGREEMENTS WITH OTHER  
DEPARTMENTS OR AGENCIES (PRIVATE, FEDERAL, STATE, OR LOCAL)  
(Continued)

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Industrial Commission			Supp. 3,007
				TOTAL 3,007
RI	FEDERAL			
	Environmental Protection Agency (Air Pollution Testing)	Chem. Lab. Aide	6.0 1.0	Pers. 182,506 Supp. 22,550 Equip. 12,300 Other 28,190
				TOTAL 245,546
	EPA (Water Pollution Testing)			Equip. 27,000 TOTAL 27,000
SC	FEDERAL			
	U. S. Department of Labor (Testing occupational health and related hazards)	Chem.	2.0	Pers. 42,582 Supp. 8,575 Other 1,162
				TOTAL 52,319
SD	FEDERAL			
	Department of Agriculture-- FIFRA (Pesticide Analysis)		0.3	Pers. 19,259 Supp. 32,948
				TOTAL 52,207
	Department of Public Safety (Blood and Breath Alcohol Prog- ram and Drug Tests)	Chem. II	0.3	Pers. 5,233 Supp. 5,479
				TOTAL 10,712
	FEDERAL AND STATE			
	Department of Water and Natural Resources (Environmental Chemistry and Microbiology)	Lab. Tech. II Chem. Lab. Dir. Secy. II	0.5 1.5 0.2 0.3	Pers. 64,130 Supp. 15,870 TOTAL 80,000

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	LOCAL			
	Fee Recovery (Environmental Chemistry and Microbiology)	Chem. Micro. II Lab. Tech. II Lab. Dir. Secy. II	0.1 1.0 0.5 0.2 0.6	Pers. 62,226 Supp. 16,251 Other 1,873 TOTAL 80,350
TN	STATE			
	State of Mississippi (Genetic Screening Program)	Lab. Tech. II	0.87	Pers. 9,339 TOTAL 9,339
TX	FEDERAL			
	Safe Drinking Water Grant (Chemical and bacteriological analysis of drinking water)	Chem. Micro. Tech. Clerical	6.0 1.0 8.0 1.0	Pers. 298,600 Supp. 66,900 Other 85,800 TOTAL 451,300
	Cooperative Meat Inspection Program	Chem. Support	1.0 1.0	Pers. 43,100 Other 12,400 TOTAL 55,500
	Solid Waste Program	Chem.	1.0	Pers. 34,500 Equip. 138,800 Other 9,900 TOTAL 183,200
	STATE			
	Texas Department of Water Resources	Micro. Chem. Tech. Support Clerical	1.0 7.0 2.0 3.0 1.0	Pers. 286,900 Supp. 37,000 Other 82,400 TOTAL 406,300



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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	EPSDT	Chem.	3.0	Pers. 227,200
		Med. Tech.	2.0	Supp. 86,900
		Tech.	2.0	Equip. 20,000
		Clerical	2.0	Other 65,300
		Support	1.0	
				TOTAL 399,400
UT	FEDERAL			
	U.S. Forest Service, Bureau of Reclamation (Analyze water samples)			Pers. 12,576 Supp. 3,144
				TOTAL 15,720
	STATE			
	Asian Refugee Division of Community Health Services (Screening of IndoChina refugees: for tuberculosis)			Pers. 3,024 Supp. 756
				TOTAL 3,780
	Industrial Commission Occupa- tional Health (Analyze occupational health samples)			Pers. 21,900 Supp. 5,475
				TOTAL 27,375
	Division of Corrections (Perform urine drug screens)			Pers. 5,243 Supp. 1,311
				TOTAL 6,554
	Department of Public Safety Crime Laboratory (Analyze samples)			Pers. 101,080 Supp. 25,270
				TOTAL 126,350
	Division of Environmental Health: Lab. Hazardous Waste (Analyze hazardous waste samples)			Pers. 13,440 TOTAL 13,440

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Division of Environmental Health: Environmental Health Contract (Analyze water samples)			Pers. 43,400 Supp. 10,850 TOTAL 54,250
	Div. of Environmental Health--- Deer Creek (Analyze water samples)			Pers. 4,142 TOTAL 4,142
	Div. of Environmental Health--- Panguitch/Schofield (Analyze water samples)			Pers. 4,532 Supp. 1,133 TOTAL 5,665
VT	FEDERAL OSHA--23g (Analysis of chemicals and particulates from the workplace):		2.0	Pers. 28,621 TOTAL 28,621
	Venereal Disease Grant (Gonorrhea Testing)		1.0	Pers. 12,800 TOTAL 12,800
	EPA--Safe Drinking Water Act (Microbiological and chemical testing of public water supply)		4.0	Pers. 98,500 Supp. 21,500 TOTAL 120,000
	Preventive Block Grant (Rubella Screening Program)		1.0	Pers. 16,000 Supp. 10,703 TOTAL 26,703
	State Court Administrator (Travel for Court Appearance-- DWI)		3.0	Other 2,000 TOTAL 2,000

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
WI	FEDERAL			
	Wasteload Allocation (Environmental Water Analysis)	Various	0.1	Pers. 1,668 TOTAL 1,668
	Oak Ridge National Labs. (Drinking Water and Health Study)	Various	2.0	Pers. 45,836 TOTAL 45,836
	MCH Lead Poisoning Prev. (Proficiency Testing Program)	Various	1.5	Pers. 35,712 Supp. 6,000 TOTAL 41,712
	Controlled Substance Analysis (Alcohol and Drug Analysis in Drivers)	Various	2.5	Pers. 45,490 Supp. 36,746 TOTAL 82,236
	OSHA (Occupational Health Sample Analysis--Voluntary)	Various	16.5	Pers. 375,000 Supp. 230,000 Equip. 143,000 TOTAL 748,000
	STATE			
	Bureau Research Water Analysis (Environmental Water Analysis)	Various	0.1	Pers. 656 Supp. 5,773 TOTAL 6,429
	Inland Lakes Renewal-LKS (Environmental Water Analysis)	Various	0.3	Pers. 5,682 Supp. 702 TOTAL 6,384
	Galena River Watershed (Environmental Water Analysis)	Various	1.0	Pers. 20,639 TOTAL 20,639

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Phos. and High Flow (Environmental Water Analysis)	Various	0.3	Pers. 6,035 TOTAL 6,035
	Analysis High Volume Filters (Environmental Air Analysis)	Various	1.0	Pers. 17,634 TOTAL 17,634
	Solid-Hazardous Waste (Environmental Organics Anal.)	Various	2.0	Pers. 44,492 Supp. 7,456 TOTAL 51,948
	Non-Comm. D.W. Nitr. SDWA (Environmental Water Analysis)	Various	0.5	Pers. 9,225 Supp. 326 TOTAL 9,551
	SDWA Analysis--Comm. Samples (Environmental Water Analysis)	Various	1.0	Pers. 23,612 TOTAL 23,612
	National Urban Runoff (Environmental Water Analysis)	Various	0.5	Pers. 11,764 Supp. 866 TOTAL 12,630
	Coastal Zone Management (Fish and Effluent Study)	Various	1.0	Pers. 14,058 TOTAL 14,058
	Chlor. Organics Upper Wisc. (Environmental Organics Anal.)	Various	0.5	Pers. 13,514 TOTAL 13,514
	Organic Compounds--Priority Pol. (Environmental Organics Anal.)	Various	3.0	Pers. 71,707 Supp. 458 TOTAL 72,165

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

Lab	Source of Funds Programs Served and Services Provided	Staff Utilized	FTE	Costs
	Office for Highway Safety (Alcohol Testing and Testimony)	Various	1.0	Pers. 20,000
				TOTAL 20,000
	Radiation Monitoring (Radiation Analysis)	Various	2.0	Pers. 44,000 Supp. 20,000 Equip. 20,000
				TOTAL 84,000
	Lab. Certification (Lab. Proficiency Testing)	Various	2.0	Pers. 65,000 Supp. 60,000
				TOTAL 125,000

Table 3-5  
STATES REPORTING CHARGES FOR LABORATORY SERVICES

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
AL	Pinworms	4.20	Test	43,460	Turned over to H.D.
	Intestinal Parasites	8.75	Test		
	Sickle Cell	1.45	Test		
	Rubella	10.00	Test		
	VDRL	1.65	Test		
	GC	1.40	Test		
CT	Environmental Chemistry (Water analyses for private companies)	3.99	R.V.	621,160	State General Fund.
	Strept Mailers	1.50	Mailer & Culture		
	Strept Office Kits	.60	Kit		
	VDRL Antigen and Saline	5.00	Set		
	Premarital Syphilis	2.00	Test		
	Premarital Rubella	4.00	Test		
	Syphilis--VDRL	2.00	Test		
	Gonorrhoea	2.00	Culture		
	Pinworms	2.00	Exam		
	Strept Conjugate	20.00	Vial		
	GC Culture Media	Varies	Outfit		
	Kit Program-Dispensers	2.25	Dispenser		
	Kit Program-Cartridges	2.25	Cartridge		
	PKU, Galactosemia, Hypothy.	6.00	Set		
	Biochemistry (Occupational)	3.99	R.V.		
FL	Safe Drinking Water Analyses	184.00	32 Para-meters		Used in Lab. budget
GA	Bacterial Culture	8.00	Specimen	175,000	To State Gen. Funds to reimburse for budget.
	Brucellosis Serology	8.00	Specimen		
	Chlamydia Serology	8.00	Specimen		
	Chlamydia Isolation	8.00	Specimen		
	Fungus Culture	8.00	Specimen		
	Fungus Serology Battery	8.00	Specimen		
	Herpes Simplex Isolation	8.00	Specimen		
	Mycobacteria Cultures for ID	8.00	Specimen		
	Mycoplasma Pneumonia Serology	8.00	Specimen		
	PVA preserved fecal specimens	8.00	Specimen		
	Pertussis, Smears for FA	8.00	Specimen		
	Rocky Mtn. Spotted Fever and Murine Typhus Serology	8.00	Specimen		
	Shigella Typing	8.00	Specimen		
	Streptococcus Group A, Throat Culture	4.00	Specimen		
	Syphilis Serology, Reagin	1.00	Specimen		
	Syphilis Serology, FTA	4.00	Specimen		

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

Lab :	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
GA :	Toxoplasmosis Serology	8.00	Specimen		
Cont.:	Tularemia Serology	8.00	Specimen		
	Virus, Isolation	8.00	Specimen		
	Virus, IF, Herpes, Varicella	8.00	Specimen		
	Virus Serology (1-4 agents)	8.00	Specimen		
	Quality Control Cultures, Bacterial or Fungal	8.00	Specimen		
	Acid Fast Smears for QC	8.00	Dozen		
	PVA Smears for QC	8.00	Dozen		
ID :	Bacteriological Water Quality:			257,658	Returned to
	Total Coliform	8.50	Test		budget as
	Fecal Coliform	8.50	Test		receipts to
	Fecal Strep	12.50	Test		appropria-
	Most Probable Number Tests	10.00	Test		tion.
	Total Aerobic Plate Count	7.00	Test		
	Miscellaneous Chemistry Tests:				
	Alkalinity	7.00	Test		
	Alpha and Beta Activity	16.00	Test		
	Ammonia	13.00	Test		
	Ash Free Dry Weight	18.00	Test		
	Bicarbonate Alkalinity	7.00	Test		
	BOD	17.00	Test		
	Boron	11.00	Test		
	Calcium	8.50	Test		
	Carbonate Alkalinity	7.00	Test		
	Chloride	7.00	Test		
	Chlorophyll a,b,Pheophyton	24.00	Test		
	COD	16.00	Test		
	Color	5.00	Test		
	Cyanide	31.50	Test		
	Dissolved Oxygen	12.00	Test		
	Fluoride (Electrode)	7.00	Test		
	Fluoride (Distillation)	18.50	Test		
	Formaldehyde	30.00	Test		
	Hardness	7.00	Test		
	Hydrogen Sulfide	11.50	Test		
	Nitrogen				
	Kjeldahl (Block Digest)	13.50	Test		
	Nitrate	12.00	Test		
	Nitrite	6.00	Test		
	Odor	11.50	Test		
	Oil and Grease	20.00	Test		
	Phenols	23.50	Test		
	pH	3.50	Test		
	Phosphorus				
	Inorganic	11.50	Test		
	Ortho-phosphate	8.50	Test		
	Total	11.50	Test		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
ID	Residue				
Cont.:	Settleable	6.50	Test		
	Suspended	7.00	Test		
	Total	8.00	Test		
	Total Dissolved	8.00	Test		
	Volatile Solids	10.50	Test		
	Vol. Suspended Solids	13.50	Test		
	Silica	12.00	Test		
	Specific Conductance	5.00	Test		
	Sulfate	10.00	Test		
	Surfactants	20.00	Test		
	Turbidity	5.50	Test		
	Tannin and Lignin	25.00	Test		
	TOC	30.00	Test		
	Volatile Petroleum Prod.	60.00	Test		
	Elemental Analysis Performed				
	by Atomic Absorption Spectro.				
	Flame Technique				
	Aluminum, Barium	12.50	Each		
	Beryllium, Chromium, Copper,				
	Iron, Lead, Magnesium, Man-				
	ganese, Nickel, Potassium,				
	Sodium, Zinc	10.50	Each		
	Molybdenum	11.50	Test		
	Vanadium	17.00	Test		
	Furnace Technique				
	Antimony, Arsenic, Selenium	17.50	Each		
	Cadmium	12.50	Test		
	Chromium	15.00	Test		
	Lead	20.00	Test		
	Silver	11.00	Test		
	Cold Vapor Technique				
	Mercury	16.00	Test		
	Mercury & Other Heavy Metals				
	(Tissue, Urine, Blood, Foods)	25.00	Test		
	Lead				
	Tissue, Urine, Blood, Foods	17.00	Test		
	Pottery	8.00	Test		
	Milk Tests				
	Standard Plate Count	6.00	Test		
	Coliform	6.00	Test		
	Inhibitory Substances	6.00	Test		
	Added Water	4.00	Test		
	Wisconsin Mastitis Test	3.00	Test		
	DMSCC	6.00	Test		
	Brucellosis	3.00	Test		



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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
ID :	Misc. Tests	:	:	:	:
Cont.:	Salmonella in Food	15.00	Test	:	:
:	Coliform in Food	10.00	Test	:	:
:	Medical Tests	:	:	:	:
:	Herpes Culture	25.00	Specimen	:	:
:	Throat Culture (Strep)	9.00	Specimen	:	:
:	Syphilis Serology	8.00	Specimen	:	:
:	Rubella Serology	9.00	Specimen	:	:
:	Rabies (Inappropriate Req.)	25.00	Specimen	:	:
:	EPSDT	:	:	:	:
:	Urine Culture	10.00	Specimen	:	:
:	Hematocrit	3.00	Specimen	:	:
:	Microstix	1.00	Specimen	:	:
:	Cytogenetic Tests	:	:	:	:
:	Chromosome Analysis	:	:	:	:
:	Full Study-Peripheral	:	:	:	:
:	Blood	125.00	Specimen	:	:
:	High Resolution-Elongated	:	:	:	:
:	Peripheral Blood	150.00	Specimen	:	:
:	Bone Marrow	150.00	Specimen	:	:
:	Amniotic Fluid	250.00	Specimen	:	:
:	Tissue Biopsy	250.00	Specimen	:	:
:	Forensic Tests	:	:	:	:
:	Solid Dose Drug	20.00	Specimen	:	:
:	Leaf Material (Marijuana)	10.00	Specimen	:	:
:	Urine Toxicology	25.00	Specimen	:	:
:	Confirmation	15.00	Specimen	:	:
:	Blood Alcohol (with Tox.)	10.00	Specimen	:	:
:	Quantitation	10.00	Specimen	:	:
:	Blood & Breath Alcohol	15.00	Specimen	:	:
:	Proficiency Testing	:	:	:	:
:	Urinalysis	60.00	:	:	:
:	Pregnancy Testing	15.00	:	:	:
:	Throat Culture Screen (In-	60.00	:	:	:
:	cludes QC at N/C)	:	:	:	:
:	Chemistry (BUN, Uric Acid,	:	:	:	:
:	Glucose, & Cholesterol)	60.00	:	:	:
:	Urine Culture Screens (In-	40.00	:	:	:
:	cludes QC at N/C)	:	:	:	:
:	Syphilis Serology	36.00	:	:	:
:	Rubella Testing	20.00	:	:	:
:	Hematology	80.00	:	:	:
:	Gonorrhea Cultures	30.00	:	:	:
:	Parasitology	20.00	:	:	:
:	Quality Control	:	:	:	:
:	Urinalysis Control (Includes:	60.00	:	:	:
:	Pregnancy)	:	:	:	:

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
ID	Hematology Control (Monthly)	228.00			
Cont.	Throat Culture Screens (Group A, Non-Group A, Alpha Strep)	15.00			
	Urine Culture Screens ( <u>E. coli</u> , <u>Staph. aureus</u> , <u>Pseudomonas aer.</u> )	15.00			
	Organic Analyses				
	Water (Organochlorine)	80.00	Test		
	Water (EPA)	110.00	Test		
	Milk (Mills Method for Organochlorines)	110.00	Test		
	Tissue (Mills Method for Organochlorines)	110.00	Test		
	Blood (Organochlorines)	65.00	Test		
	Urine (Single Metabolite or Residue)	110.00	Test		
	Soil (Organochlorines)	110.00	Test		
	Vegetation (Organochlorines)	110.00	Test		
	Oils (PCB's)	50.00	Test		
IL	Toxicology Analysis	125.00	Specimen	57,000	
				(5 Mo.1983)	
IN	Private Water Bact./Chem.	5.00+	Test		To State
			Postage		Treas. Gen.
	Public Water Bact.	25.00	Year		Fund except
	Premarital Syphilis Serology	2.50	Specimen		postage and
					handling
					fees for
					private
					water bact.
					sample bot-
					tles, (up to
					\$4.00). Such
					fees remain
					in Board of
					Health re-
					volving
					fund.
IA	MPN Potable Water	4.00	Sample	700,000	Est. recpts
	Nitrate	8.00	Sample		built into
	BOD Effluent	14.00	Sample		gen.operat-
	Trace Metals	10-18.00	Sample		ing budget.
	Radiation	20-90.00	Sample		

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

Lab :	Services Performed	Charge Per Unit :	Estimated Annual Receipts :	Disposition of Funds :
IA Cont.:	Pesticides	48.00-		
	Genetic Disease (4)	12.00	Sample	
	RCRA Parameters	290.00	Sample	
KS	Indoor Swim Pools--Total Coli-form	100.00	Season	379,107 : State Gen. Fund.
	Outdoor Swim Pools--Total Coliform	100.00	Season	
	Asbestos Identification	25.00	Sample	
	Environmental Lab. Certification:			
	Chemistry & Hazardous Waste Microbiology	20.00	Parameter: Lab.	
	Complete Chemical Analysis (Calcium, Magnesium, Sodium, Potassium, Total Hardness, Carbonate Hardness, Non-Carbonate Hardness, Total Alkalinity, Bicarbonate Alkalinity, Chloride, Sulfate, Nitrate, Fluoride, pH, Turbidity, Specific Conductance, Total Dissolved Solids, Phosphate, Silica, Iron, Manganese)	45.00	Analysis	
	Complete Heavy Metals (Iron, Manganese, Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Selenium, Silver, Zinc)	40.00	Analysis	
	Partial Chemical Analysis (Calcium, Magnesium, Sodium, Total Alkalinity, Chloride, Sulfate, Total Hardness, Nitrate, Fluoride, Iron, Manganese)	30.00	Analysis	
	Total Hardness--Calcium and Magnesium	7.00	Test	
	Complete Solids (Total Solids, Total Fixed Solids, Total Volatile Solids, Total Suspended Solids, Fixed Suspended Solids, Volatile Suspended Solids, Fixed Dissolved Solids, Total Dissolved Solids, Volatile Dissolved Solids)	25.00	Analysis	

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
KS	Individual Analysis				
Cont.	Total Suspended Solids				
	(Fixed and Volatile)	5.50	Test		
	Alkalinity & Chloride	5.50	Test		
	Iron	6.50	Test		
	Manganese	6.50	Test		
	Sodium	5.50	Test		
	Sulfate	6.00	Test		
	Total Phosphate	5.00	Test		
	Ortho-Phosphate	5.00	Test		
	Nitrate	4.50	Test		
	Fluoride	4.50	Test		
	Five-day BOD	15.00	Test		
	Chemical Oxygen Demand	7.50	Test		
	Phenol	30.00	Test		
	pH	4.00	Test		
	Ammonia Nitrogen	5.00	Test		
	Mercury	10.00	Test		
	Arsenic	7.50	Test		
	Lead	7.50	Test		
	Selenium	7.50	Test		
	Other Heavy Metals	6.50	Each		
	Extractions	10.00	Test		
	Organic Chemistry Screen for				
	Pesticides & Herbicides	175.00	Analysis		
	Trihalomethane Analysis	30.00	Analysis		
	Coliform Analysis of Drink-				
	ing Water	7.00	Analysis		
KY	Metabolic Screening Tests			169,050	Put into
	PKU	2.25	Test	(6 Months)	Lab. budget
	Galactosemia	2.00	Test		for perf-
	Hypothyroid	5.75	Test		orming
					these tests
MD	PKU, MSUD, BCK, T3, T4, Meth-			240,000	Fees from
	ionine, Galactosemia	3.25	Specimen		Clin. Lab.
	Alpha-fetoprotein	5.30	Specimen		Services to
	Aplastic Anemia	17.25	Specimen		gen. fund.
	Hepatitis Screen	26.25	Specimen		Others to
	Parasites	12.50	Specimen		offset cost
	Urinalysis				of supplies
	Routine, Complete	4.10	Specimen		& reagents.
	Routine, Chem. Qualitative	10.50	Specimen		
	Routine, Microscopic	3.26	Specimen		
	Chemistry				
	Albumin, Blood	2.90	Specimen		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
MD.	Bilirubin, Total Blood	2.90	Specimen		
Cont.	Bilirubin, Total & Direct	5.80	Specimen		
	Blood, feces, occult, screen:	2.46	Specimen		
	Calcium, Total Blood	6.53	Specimen		
	Chlorides, Blood	2.18	Specimen		
	Cholesterol, Total Blood	2.17	Specimen		
	Creatinine, Blood	2.18	Specimen		
	Creatine, Urine	5.45	Specimen		
	Cycloserine, Blood	21.76	Specimen		
	FEP	4.35	Specimen		
	Glucose, Blood	1.81	Specimen		
	Glucose Tolerance-2 hour	3.62	Test		
	Glucose Tolerance-3 hour	5.43	Test		
	Glucose Tolerance-6 hour	13.68	Test		
	Gonadotropin, chorionic,				
	pregnancy test, immunologic:				
	technic, qualitative, blood:				
	or urine	1.81	Specimen		
	Iron, Total Blood	3.63	Specimen		
	Iron, Total and Iron Binding:				
	Capacity, Blood	4.35	Specimen		
	Lactic Dehydrogenase, Blood	2.18	Specimen		
	Lead, Blood	8.70	Specimen		
	Lithium, Blood	2.90	Specimen		
	Phosphatase, Alkaline, Blood:	.94	Specimen		
	Phosphorus, Inorganic, Blood:	2.90	Specimen		
	Potassium, Blood	1.89	Specimen		
	Pregnancy Test	1.81	Specimen		
	Protein, Total, Serum, Spin-				
	al Fluid or Urine	2.18	Specimen		
	Protein, Total and A/G Ratio:	4.35	Specimen		
	Protein, Total Spinal Fluid				
	or Urine-24 hr. Specimen	2.20	Specimen		
	Sodium, Blood	1.81	Specimen		
	Transaminase, glutamic oxal-				
	acetic (SGOT), Blood	2.18	Specimen		
	Transaminase, glutamic pyru-				
	vic (SGPT), Blood	1.81	Specimen		
	Triglycerides, Blood	2.61	Specimen		
	Urea Nitrogen, Blood	1.23	Specimen		
	Urea Nitrogen, Urine	1.23	Specimen		
	Uric Acid, Blood	2.18	Specimen		
	Uric Acid, Urine	2.18	Specimen		
	Cancer Cytology				
	Pap Smear	8.21	Specimen		
	Sputum and Other Body Fluids:	24.62	Specimen		

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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
MD. :	Hematology :	:	:	:	:
Cont. :	Complete Blood Count :	2.05 :	Specimen :	:	:
:	Red Blood Count :	1.64 :	Specimen :	:	:
:	White Blood Count :	2.46 :	Specimen :	:	:
:	Differential :	4.10 :	Specimen :	:	:
:	Hemoglobin :	4.10 :	Specimen :	:	:
:	Hematocrit :	4.10 :	Specimen :	:	:
:	Hemogram Indices :	1.64 :	Specimen :	:	:
:	Eosinophile Count :	8.21 :	Specimen :	:	:
:	Platelet Count :	8.21 :	Specimen :	:	:
:	Reticulocyte Count :	9.85 :	Specimen :	:	:
:	Sedimentation Rate :	4.10 :	Specimen :	:	:
:	Immunology :	:	:	:	:
:	Antibody Screening Test :	3.18 :	Specimen :	:	:
:	Antibody Titer :	19.14 :	Specimen :	:	:
:	Antibody ID Panel Cells :	38.23 :	Specimen :	:	:
:	ABO Blood Grouping :	1.91 :	Specimen :	:	:
:	Rh Typing, Blood :	3.18 :	Specimen :	:	:
:	ABO Grouping & Rh Typing :	6.40 :	Specimen :	:	:
:	Rheumatoid Factor, Latex :	:	:	:	:
:	Slide :	7.67 :	Specimen :	:	:
:	Thyroglobulin Autoanti- :	:	:	:	:
:	bodies and Others :	6.43 :	Specimen :	:	:
:	Anti Nuclear Antibody :	9.54 :	Specimen :	:	:
:	Dilantin :	11.60 :	Specimen :	:	:
:	Digoxin :	12.00 :	Specimen :	:	:
:	Gamma Glutamyl Transpepti- :	:	:	:	:
:	dase :	14.75 :	Specimen :	:	:
:	Phenobarbitol :	11.58 :	Specimen :	:	:
:	Tegretol (Carbamazepine) :	11.60 :	Specimen :	:	:
:	Theophylline :	11.60 :	Specimen :	:	:
:	T3 Uptake :	12.00 :	Specimen :	:	:
:	Thyroxine (T4) :	13.50 :	Specimen :	:	:
:	Thyroxine Index, Free :	18.75 :	Specimen :	:	:
:	Thyroid Stimulating Hormone :	32.50 :	Specimen :	:	:
:	Valproate Sodium (Depakene) :	12.50 :	Specimen :	:	:
:	Primidone (Mysoline) :	11.60 :	Specimen :	:	:
MA :	Space Rental :	16.00 :	Sq. Ft. :	461,000 :	Funds from
:	DTP Vaccine :	1.75 :	Vial :	:	biologic
:	Typhoid Vaccine :	1.45 :	Vial :	:	products to
:	Biologic Reagents for :	:	:	:	revenue
:	Research :	:	:	:	acct. and
:	Tetanus Toxoid, Concentrated :	50.00 :	10 ml. :	:	spent with
:	Tetanus Toxoid, Chromato- :	:	:	:	legislative
:	graphically Purified (or :	100.00 :	1 mg pro- :	:	approval.
:	Tetanus Toxin) :	:	tein :	:	Rental rev.
:	:	375.00 :	5 mg :	:	to general
:	:	1250.00 :	25 mg :	:	fund.

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
MA	Diphtheria Toxoid, Concen.	75.00	10 ml		Training
Cont	Diphtheria Toxoid, Purified	150.00	10 ml		funds ret-
	Pertussis Vaccine	2.00	ml		urned to
	<u>Clostridium tetani</u> Cultures	200.00	Vial		MHRI.
	<u>Corynebacterium diphtheriae</u>	200.00	Vial		
	<u>Bordetella pertussis</u>	200.00	Vial		
	Special Testing-Tetanus				
	Presence of Min.Prot.Level	50.00	One Serum		
	Endpoint Titration	100.00	One Serum		
	Special Testing-Diphtheria				
	Presence of Min.Prot.Level	75.00	One Serum		
	Endpoint Titration	100.00	One Serum		
	Antibodies - Tetanus Anti-				
	toxin, Concentrated	25.00	ml		
	Diphtheria Antitoxin,				
	Concentrated	25.00	ml		
	Workshops and Seminars	10-50.00	Day		
	Blood Filter Paper				
	Hypothyroid	1.35	Screen		
	Metabolic	1.90	Screen		
	Urine Filter Paper-Chroma-				
	tography	10.00	Screen		
MN	Handling Fee	5.00	Specimen	635,500	
MS	Medicare/Medicaid Patients	Medicaid:	Specimen	475,000	Re-budgeted
		Rate			in Lab.
	Group A Strep Supplies	2.00	Kit		
	Sickle Cell Tests	1.50	Specimen		
	"Prepaid" RPR Slips	1.00	Data Slip		
	TB Cultures(St. Mental Hosp.)	3600.00	Year		
	Family Planning Patients:				
	RPR	.59	Specimen		
	GC	.81	Specimen		
	Coulter	1.03	Specimen		
	Rubella	3.72	Specimen		
MO	Syphilis Serology	3.00	Specimen	60,000	Gen.Revenue
	General Serology	3.00	Specimen	Beg.4/1/83:	
	Virology	3.00	Specimen		
	Private Water	3.00	Sample		
	General Bacteriology	3.00	Specimen		
	General Chemistry	3.00	Specimen		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
NH	Clinical Specimens, Chemistry:			120,000	General
	: Arsenic, Urine	25.00	: Test		: Fund
	: Barbiturates	20.00	: Test		
	: Blood Alcohol	10.00	: Test		
	: Blood Lead	7.50	: Test		
	: Cadmium, Urine	20.00	: Test		
	: Carbon Monoxide	10.00	: Test		
	: Copper, Serum	7.50	: Test		
	: Copper, Urine	15.00	: Test		
	: Drug Screening, Blood, Urine, or Gastric	(10.00)	: (Min.)		
	: Drug Screening, Organs	20.00	: Hour		
		(50.00)	: (Min.)		
	: Iron, Urine	15.00	: Test		
	: Lead, Urine	15.00	: Test		
	: Mercury, Urine	15.00	: Test		
	: Miscellaneous Analysis	10.00	: Hour		
		(10.00)	: (Min.)		
	: Neonatal Screening	3.00	: Test		
	: Zinc, Serum	7.50	: Test		
	: Zinc Protoporphyrin for Lead Toxicity	5.00	: Test		
	: Zinc, Urine	15.00	: Test		
	Clin. Specimens, Microbiology:				
	: Enteric Isolate for ID	10.00	: Test		
	: Enteric Screening (Salmonella/Shigella)	5.00	: Test		
	: Enteric Screening (Salmonella/Shigella/Yersinia/Campylobacter)	10.00	: Test		
	: FTA, Direct	10.00	: Test		
	: FTA, Indirect	15.00	: Test		
	: Fungus Culture and ID	10.00	: Specimen		
	: Gonorrhoea Culture, Confirm.	1.10	: Test		
	: Gonorrhoea, Direct Smear	1.10	: Test		
	: Hemagglutination Inhibition	20.00	: Test		
	: Hepatitis A	20.00	: Test		
	: Hepatitis B, Each Marker	15.00	: Test		
	: ID of Unknown Bacterial Isolate	25.00	: Specimen		
	: Legionella Culture	15.00	: Test		
	: Pertussis Culture	15.00	: Test		
	: Pertussis Screening	5.00	: Test		
	: Rabies	5.00	: Test		
	: Rotavirus	10.00	: Test		
	: Serodiagnosis by Enzyme Immunoassay	20.00	: Test		



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

Lab :	Services Performed	: Charge : : Per : : Unit :	: Unit :	: Estimated : : Annual : : Receipts :	:Disposition : : of : : Funds :
NH :	Serogrouping	: 10.00 :	Test :	:	:
Cont.:	Serotyping (Salmonella)	: 25.00 :	Test :	:	:
:	Syphilis	:	:	:	:
:	VDRL, Serum and CSF	: 3.00 :	Test :	:	:
:	MHA-TP	: 5.00 :	Test :	:	:
:	FTA-ABS	: 15.00 :	Test :	:	:
:	DFATP	: 15.00 :	Test :	:	:
:	Tissue Cultures	: 35.00 :	Test :	:	:
:	TORCH Screen	: 20.00 :	Specimen :	:	:
:	TB, Culture and Stain	: 10.00 :	Specimen :	:	:
:	TB, Drug Sensitivity	: 15.00 :	Specimen :	:	:
:	Industrial Samples	:	:	:	:
:	Alcohol	: 10.00 :	Sample :	:	:
:	Asbestos	: 25.00 :	Sample :	:	:
:	Compressed Air	: 20.00 :	Sample :	:	:
:	Formaldehyde	: 10.00 :	Sample :	:	:
:	Lead or Cadmium	: 5.00 :	Sample :	:	:
:	Membrane Filter Analysis for:	:	:	:	:
:	Metals	: 15.00 :	Sample :	:	:
:	Silica	: 25.00 :	Sample :	:	:
:	Consumer Protection Samples	:	:	:	:
:	Beef, Fat Content (Quant.)	: 15.00 :	Sample :	:	:
:	(Qualitative)	: 2.00 :	Sample :	:	:
:	Cheese, Fat Content (Qual.)	: 2.00 :	Sample :	:	:
:	Food, Complete Analysis	: 25.00 :	Sample :	:	:
:	Food, Partial Analysis	: 10.00 :	Sample :	:	:
:	Macroscopic and Microscopic	:	:	:	:
:	Examination for Filth	: 10.00 :	Sample :	:	:
:	Milk or Cream, Butterfat	:	:	:	:
:	Content	: 10.00 :	Sample :	:	:
:	Milk or Cream Complete Anal.	: 15.00 :	Sample :	:	:
:	Shellfish, Bacterial Anal.	: 15.00 :	Sample :	:	:
:	Shellfish, Anal. for PSP	: 25.00 :	Sample :	:	:
NJ :	Syphilis Serology - RPR	: 3.00 :	Serum :	479,329	:Divisional
:	Syphilis Serology - HATTS	: 3.00 :	Serum :	:	:Revolving
:	Rubella Screening	: 4.00 :	Serum :	:	: Fund.
:	Galactosemia	: 4.00 :	Specimen :	:	:
:	Blood Lead	: 6.00 :	Serum :	:	:
:	Toxoplasmosis	: 6.00 :	Serum :	:	:
:	Non-Public Water Bact.	: 9.00 :	Specimen :	:	:
NM :	Various Analytical Services	: 3.35 :	RVU :	33,000	:Credited to
:	:	:	:	:	:SLD as bud-
:	:	:	:	:	:geted or
:	:	:	:	:	:unbudgeted
:	:	:	:	:	:revenue.

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

Lab :	Services Performed	: Charge : : Per : : Unit :	: Unit :	: Estimated : : Annual : : Receipts :	:Disposition : : of : : Funds :
NC	: Coliform Test - Water	: 8.00	: Test	: 575,730	:Becomes
	: Inorg. Chem.-Water(13 Param.)	: 120.00	: Sample		:part of op-
	: Org.Chemicals-Water(6 Param.)	: 120.00	: Sample		:erating
	: Radiological Analyses - Water	: 50.00	: Sample		:budget.
	: Sale of specimen collection	:	:		:Receipts
	: outfits and biological prod-	:	:		:from Water
	: ucts	: Varies:	:		:Act used to
	:	:	:		:fund posi-
	:	:	:		:tions, buy
	:	:	:		:supplies,
	:	:	:		:etc. for
	:	:	:		:services.
ND	: Culture	: 5.00	:Specimen	: 300,00	:150,00 to
	: Culture & Sensitivity	: 7.00	:Specimen		:Gen. Fund.
	: Stool Parasitology	: 5.00	:Specimen		:Contract
	: Syphilis Serology	: 2.00	:Specimen		:fees in
	: Virus Serology	:	:		:H.D.Budget-
	: Single Antigen	: 7.00	:Spec.Pair:		:150,000.
	: Multiple Antigen	: 14.00	:Spec.Pair:		:
	: Legionnaires'	: 10.00	:Spec.Pair:		:
	: Sterility	: 3.00	:Specimen		:
	: Throat Culture	: 2.00	:Specimen		:
OH	: Microbiology (Various)	: 6.00	:Specimen	: 1,297,400	:Personnel,
	: Metabolic-Newborn Screening	: 6.00	: Sample		:supplies,
	: Chemistry (Various)	: Varies	: Test		:maint-
	: Water Bacteriology	: 5.00	: Sample		:enance,
	: Biochemistry/Toxicology	: Varies	: Test		:equipment.
	: Workshops	: 4.00	:Hr./Stud.:		:
	: Seminars	: 2.00	:Hr./Stud.:		:
OR	: Newborn Screening	: 3.75	:Specimen	: 600,000	:Offsets lab
	: Congenital Toxoplasmosis	: .80	:Specimen		:cost of op-
	: Virus Serology	: 25.00	:Specimen		:eration.
	: Viral Serology	: 15.00	:Specimen		:
	: Reference Cultures	: 30.00	:Specimen		:
	: Mycology Serology	: 15.00	:Specimen		:
	: Mycology Culture	: 15.00	:Specimen		:
PA	: Licensure-Certification	: 50.00	:	: 96,000	:Support the
	:	:	:		:budget.

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

Lab :	Services Performed :	Charge Per Unit :	: Specimen Unit :	Estimated Annual Receipts :	Disposition of Funds :
SC	Amebiasis Serology	6.00	Specimen	493,007	Budgeted
	Anticonvulsants	10.00	Specimen		for person-
	Blood Alcohol	10.00	Specimen		nel and op-
	Blood Lead (Erythrotopor.)	5.00	Specimen		erating ex-
	Blood Lead (Pb)	7.00	Specimen		penditures.
	Drug Abuse Screen	12.00	Specimen		:
	Drug Abuse (Quantitative)	25.00	Specimen		:
	Enteric Culture	30.00	Specimen		:
	Fluorescent Treponemal Anti.	10.00	Specimen		:
	Fungal Susceptibility	30.00	Specimen		:
	Gonorrhea Culture	2.00	Specimen		:
	Hemoglobin Electrophoresis	4.00	Specimen		:
	Hepatitis Serology	10.00	Specimen		:
	Infectious Mononucleosis	10.00	Specimen		:
	PKU/Hypothyroid	5.00	Specimen		:
	Rh Typing	5.00	Specimen		:
	Rubella	5.00	Specimen		:
	Syphilis Serology	2.00	Specimen		:
	Throat Culture	7.00	Specimen		:
	Ticks (RMSF)	15.00	Specimen		:
	Toxoplasmosis	14.00	Specimen		:
	Asbestos	10.00	Specimen		:
	Condyloma Vaccine	50.00	Specimen		:
SD	Environmental Chemistry	3.00	WTU	283,736	\$152,042
	Medical Microbiology	2.00	Test		spent as
					Fed. Author-
					ity; 76,694
					as other
					authority;
					55,000 to
					Gen. Fund.
UT	Newborn Metabolic Screening			400,570	To offset
	(PKU, Galactosemia, T4, TSH)	8.00	Test		cost of
	Environmental Chemistry				services
	Inorganics				provided.
	Drinking Water	100.00	Test		:
	Surface Water	125.00	Test		:
	(Ammonia, Arsenic, Barium,				:
	Boron, Cadmium, Calcium,				:
	Chromium, Copper, Total and				:
	Soluble Iron, Lead, Magnes-				:
	ium, Manganese, Mercury,				:
	Nickel, Potassium, Selenium,				:
	Silver, Sodium, Zinc, Turbi-				:
	dity, Specific Conductivity,				:

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
UT Cont.	Bicarbonate, Carbon Dioxide, Carbonate, Chloride, Carbonate Solids, Total Alkalinity, Total Hardness, Chemical Balance, Sulfate, Silica, Hydroxide, Nitrate, Nitrite, Phosphorus, Orthophosphorus, Total Dissolved Solids, Fluoride)				
	Partial Chemistry (Sodium, Potassium, Calcium, Magnesium, Carbonate, Sulfate, Chloride, Hydroxide, Bicarbonate, Carbon Dioxide, Total Alkalinity, Total Hardness, Turbidity, Specific Conductance, Total Dissolved Solids, Total Suspended Solids, Carbonate Solids, Chemical Balance)	45.00	Test		
	Heavy Metals - Water/Lakes (Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc)	40.00	Test		
	Heavy Metals - Saline Samples/ Sediment or Sludge	100.00	Test		
	Heavy Metals - Tissues	160.00	Test		
	Nutrients				
	Type 1 - Nitrate-sulfate	10.00	Test		
	Type 2 - Ammonia, Nitrite, Nitrate, Total Kjeldahl Nitrogen, Chemical Oxygen Demand, Total Phosphorus, Total Organic Carbon	25.00	Test		
	Type 3 - Ammonia, Nitrite, Nitrate, Total Kjeldahl Nitrogen, Total Phosphorus, Orthophosphate	20.00	Test		
	Type 4 - Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Phosphorus	15.00	Test		
	Type 5 - Ammonia, Nitrate, Nitrite, Orthophosphate	14.00	Test		

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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
UT :	Biochemical Oxygen Demand :	:	:	:	:
Cont.:	Type 1 - Total Suspended Solids :	5.00 :	Test :	:	:
:	Type 2 - BOD5, pH, Total Suspended Solids, Chlorine Residual :	15.00 :	Test :	:	:
:	Type 3 - Total BOD5, Soluble BOD5, pH, Total Suspended Solids, Chlorine Residual :	25.00 :	Test :	:	:
:	Miscellaneous :	:	:	:	:
:	Oil and Grease :	14.00 :	Test :	:	:
:	Cyanide :	25.00 :	Test :	:	:
:	Phenols :	25.00 :	Test :	:	:
:	Sulfides :	15.00 :	Test :	:	:
:	Organics :	:	:	:	:
:	Pesticides :	:	:	:	:
:	Type 1 - Endrin, Lindane, Methoxychlor 2,4,5-TP, Silver, Toxaphene, Trihalomethanes :	65.00 :	Test :	:	:
:	Type 2 - Trihalomethanes :	25.00 :	Test :	:	:
:	Type 3 - Chlorinated Hydrocarbons, Organophosphate, Chlorophenoxy and Triazine Herbicides, Carbonates, PCB Screens :	125.00 :	Test :	:	:
:	Type 4 - Group Screens as requested: Initial Screen :	45.00 :	Test :	:	:
:	Each Additional Screen (Chlorinated Hydrocarbons, Organophosphates, Chlorophenoxy Herbicides, Triazine Herbicides, Carbamates, PCB's) :	20.00 :	Test :	:	:
:	Miscellaneous :	:	:	:	:
:	Blood Lead :	15.00 :	Test :	:	:
:	Cholinesterase in Plasma :	20.00 :	Test :	:	:
:	EP Toxicity Test :	:	:	:	:
:	Water Samples :	200.00 :	Test :	:	:
:	Oil, Sludge, or Soil :	225.00 :	Test :	:	:
:	Radiochemistry: :	:	:	:	:
:	Gross Alpha or Beta :	25.00 :	Test :	:	:
:	Gross Alpha and Beta :	35.00 :	Test :	:	:
:	226 Radium (Deemanation) :	65.00 :	Test :	:	:
:	226 Radium (Direct Count) and 228 Radium (Barium ppt): :	125.00 :	Test :	:	:

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
UT	228 Radium (ppt/separation)	100.00	Test		
Cont.	89 Strontium	225.00	Test		
	90 Strontium	50.00	Test		
	Tritium	15.00	Test		
	Uranium	25.00	Test		
	Forensic Chemistry				
	Blood Alcohol	30.00	Test		
	Blood Drug Screen	75.00	Test		
	Drug Preparations	30.00	Test		
	Expert Testimony	25.00	Test		
	Marijuana Identification	30.00	Test		
	Research and Consultation	25.00	Hour		
	Urine Drug Screen	35.00	Test		
	Microbiology				
	Enteric Pathogens	6.00	Test		
	Heterophile	6.00	Test		
	Parasites	12.00	Test		
	Rubella Antibody Test	9.00	Test		
	Swimming Pools (MF & SPC)	9.00	Test		
	Syphilis Serology (RPR)	3.00	Test		
	TORCH	36.00	Test		
	Toxoplasma Antibody	15.00	Test		
	Water Bacteriology	5.00	Test		
WI	Bacteriology			2,415,000	Used to
	Aerobic Bacteria				offset cost
	Culture, Primary (Isolation:				of doing
	and ID, Kirby-Bauer Anti-				tests.
	microbial Susceptibility)	3.50	Specimen		
	Culture, Referred (ID)	3.50	Culture		
	Anaerobic Bacteria				
	Culture, Primary (Isolation:				
	and ID)	3.50	Specimen		
	Culture, Referred (ID)	3.50	Culture		
	Antimicrobial Assay				
	Enzyme Immunoassay-genta-				
	micin, tobramycin, others)	7.00	Specimen		
	Bioassay-other antibiotics	7.00	Specimen		
	Antimicrobial Susceptibility:				
	Testing (Kirby-Bauer Disk				
	Diffusion, Broth Disc Meth-				
	od, Min. Inhibitory Concen-				
	tration & Min. Bactericidal:				
	Concentration, Serum Bact-				
	ericidal Titer)	3.50	Each		
	Synergy Studies (Aerobic)	14.00	Test		
	Mycobacteria (TB, etc.)	7.00	Specimen		

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

Lab :	Services Performed	: Charge : : Per : : Unit :	: Unit :	: Estimated : : Annual : : Receipts :	: Disposition : : of : : Funds :
WI :	Beta Lactamase	: 3.50	:Specimen	:	:
Cont.:	Blood for Culture	: 3.50	:Specimen	:	:
:	Botulism	:	:	:	:
:	Culture and Toxin Detection:	10.50	:Specimen	:	:
:	Toxin Detection Only, Serum:	7.00	:Specimen	:	:
:	<u>Clostridium difficile</u> (Cul-	:	:	:	:
:	ture and Toxin Assay)	10.50	:Specimen	:	:
:	Food Poisoning, Bacterial	: 3.50	:Specimen	:	:
:	Gonococcus, Culture or Male	:	:	:	:
:	Urethral Smear	: 3.50	:Specimen	:	:
:	Legionella	:	:	:	:
:	Culture & Direct FA	: 3.50	:Specimen	:	:
:	Indirect FA, acute & con-	:	:	:	:
:	valescent sera	: 3.50	: Pair	:	:
:	Water Sample	: 10.50	: Sample	:	:
:	Lyme Disease - Acute and 2	:	:	:	:
:	convalescent sera	: 3.50	: Serum	:	:
:	Mycobacteria	:	:	:	:
:	Culture, Primary	: 7.00	:Specimen	:	:
:	Referred Culture	: 7.00	:Specimen	:	:
:	Stock Cultures, Bacterial	:	:	:	:
:	and Fungal	: 3.50	: Each	:	:
:	Vincent's Organisms, Smear	: 3.50	:Specimen	:	:
:	Clinical Chemistry	:	:	:	:
:	Albumin	: 3.50	: Test	:	:
:	Alkaline Phosphatase	: 3.50	: Test	:	:
:	ALT (SGPT, Transaminase)	: 3.50	: Test	:	:
:	Amylase	: 3.50	: Test	:	:
:	AST (SGOT, Transaminase)	: 3.50	: Test	:	:
:	Bilirubin, Total	: 3.50	: Test	:	:
:	Bilirubin, Total & Direct	: 7.00	: Test	:	:
:	BUN	: 3.50	: Test	:	:
:	Calcium, Serum or 24 H.Urine:	3.50	: Test	:	:
:	Catecholamines	: 40.00	: Test	:	:
:	Chloride, Serum or Spinal Fl:	3.50	: Test	:	:
:	Cholesterol, Total	: 3.50	: Test	:	:
:	Cholesterol, HDL	: 3.50	: Test	:	:
:	Cortisol	: 7.00	: Test	:	:
:	Creatine, Serum or Urine	: 3.50	: Test	:	:
:	Creatine, Clearance	: 7.00	: Test	:	:
:	Digoxin	: 7.00	: Test	:	:
:	Ferritin	: 7.00	: Test	:	:
:	Folic Acid (Folate)	: 7.00	: Test	:	:
:	Formaldehyde (Air Sample)	: 35.00	: Test	:	:
:	Gamma Glutamyl Transpep-	:	:	:	:
:	tidase (GGT)	: 3.50	: Test	:	:
:	Glucose	: 3.50	: Test	:	:

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
WI	5-Hydroxy-3-Indoleacetic				
Cont.	Acid, 24 H. Urine	7.00	Test		
	17-Hydroxycorticosteroids	7.00	Test		
	Hydroxyproline, Total	25.00	Test		
	Iron, Serum, Total	3.50	Test		
	Iron Binding Capacity	3.50	Test		
	Total Iron Binding Capacity	7.00	Test		
	17-Ketosteroids	7.00	Test		
	17-Ketogenic Steroids	7.00	Test		
	Lactate Dehydrogenase	3.50	Test		
	Lipid Phenotyping	7.00	Specimen		
	HDL Lipid Profile	7.00	Test		
	Lithium	3.50	Test		
	Magnesium, Serum or Urine	3.50	Test		
	3-Methoxy-4-Hydroxymandelic				
	Acid	7.00	Test		
	Newborn Screening (PKU,MSUD,				
	Hypothyroidism,Galactosemia)	12.00	Test		
	Phenylalanine, Serum	3.50	Test		
	Phosphorus, Inorganic	3.50	Test		
	Potassium, Serum or Urine	3.50	Test		
	Protein, Total Serum	3.50	Test		
	Protein with Electrophoresis	7.00	Test		
	Protein, 24 H. Urine	3.50	Test		
	Sodium, Serum or Urine	3.50	Test		
	Stones, Kidney, etc.	3.50	Test		
	Thyroid Function Testing				
	T-4 RIA	7.00	Test		
	Thyroid Panel	10.50	Test		
	Thyroid Stimulating Hormone	7.00	Test		
	T-3 RIA	7.00	Test		
	Triglycerides	3.50	Test		
	Uric Acid, Serum or Urine	3.50	Test		
	Vitamin B12	7.00	Test		
	Cytogenetics				
	Buccal Smear for Sex Chrom-				
	atin	10.00	Test		
	Chromosome Analysis from				
	Blood, incl. Buccal Smear	175.00	Specimen		
	Chromosome Analysis on Blood:				
	and/or Bone Marrow for				
	Leukemia	175.00	Specimen		
	Prenatal Studies Using Am-				
	niotic Fluid for Chromosome:				
	Analysis and AFP Determ.	225.00	Specimen		
	Chromosome Analysis Using				
	Skin or Other Tissues	225.00	Specimen		
	Culture of Tissues & Mailing:				
	for Enzyme Studies	225.00	Specimen		



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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
WI	Cytology				
Cont.	Gynecologic Smear (Cervical, Endocervical, Vaginal Smear)	3.00	Test		
	Non-Gynecologic Cytology (Sputum, Bronchoscopy Brushings and Washings, Breast Discharge, Body Fluids, Endoscopy Brushings and Washings, Needle Aspiration Biopsies, Other Scrapings)	10.00	Each		
	Environmental Sciences				
	Iron Bacteria	7.00	Sample		
	Water (1, 2, or 3 tests may be done on one sample)				
	Bacteriology	4.00	Sample		
	Fluoride	4.00	Sample		
	Nitrate	4.00	Sample		
	Water, Asbestos	95.00	Sample		
	Special tests available to Wisconsin public and private health professionals, industrial hygienists and private citizens at cost (to State) in: Radiation Studies, Inorganic Chemistry, Air Analysis, Water Microbiology, and Organic Chemistry.				
	Immunology				
	Acetyl Cholinesterase	30.00	Specimen		
	Alpha Fetoprotein	10.00	Specimen		
	Alpha Fetoprotein, Tumor Marker	10.00	Test		
	Alpha 1 Antitrypsin	3.50	Test		
	Antinuclear Antibody	3.50	Test		
	Antithyroid Antibody	3.50	Test		
	Atypical Blood Factor Antibody	3.50	Test		
	Blastomycosis, CF Antibody	3.50	Test		
	B Chorionic Gonadotropin	7.50	Test		
	Brucellosis, Agglutination	3.50	Test		
	Carcinoembryonic Antigen	10.00	Test		
	Coccidioidomycosis, CF	3.50	Test		
	Cold Agglutinins	3.50	Test		
	C-Reactive Protein	3.50	Test		
	Cryptococcosis Antibody	3.50	Test		
	Cryptococcosis Antigen	3.50	Test		
	Fetal Hemoglobin	10.00	Specimen		

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

Lab :	Services Performed	: Charge : : Per : : Unit :	: Unit :	: Estimated : : Annual : : Receipts :	:Disposition : : of : : Funds :
WI :	Genotype	: 3.50 :	Test :	:	:
Cont.:	Haptoglobin	: 3.50 :	Test :	:	:
:	Herpes Simplex 1 and 2	: 7.00 :	Specimen :	:	:
:	Histoplasmosis, Mycelial and:	:	:	:	:
:	Yeast Antibody	: 3.50 :	Specimen :	:	:
:	Human T-cell Lymphoma Virus	: 7.50 :	Test :	:	:
:	Infectious Mononucleosis	: 3.50 :	Test :	:	:
:	Lysozyme	: 5.00 :	Test :	:	:
:	Mycoplasma hominis Culture	: 3.50 :	Test :	:	:
:	Mycoplasma pneumoniae Cult.	: 3.50 :	Test :	:	:
:	Mycoplasma pneumoniae, CF	: 3.50 :	Test :	:	:
:	Prostatic Acid Phosphatase	: 7.50 :	Test :	:	:
:	Rh Factor	: 3.50 :	Test :	:	:
:	Rheumatoid Factor	: 3.50 :	Test :	:	:
:	Rubella, Immune Status	: 3.50 :	Test :	:	:
:	Salmonellosis, Antibody	: 3.50 :	Test :	:	:
:	Syphilis (FTA-ABS - Serum,	:	:	:	:
:	FTA - Spinal Fluid, FTA-ABS/:	:	:	:	:
:	IgM, FTA-ABS/Darkfield, TP-	:	:	:	:
:	MHA, VDRL - Serum or Spinal	:	:	:	:
:	Fluid)	: 3.50 :	Each :	:	:
:	Toxoplasmosis, IFA	: 3.50 :	Test :	:	:
:	Toxoplasmosis, Isolation	: 14.00 :	Specimen :	:	:
:	Toxoplasmosis, CF	: 3.50 :	Test :	:	:
:	Toxoplasmosis, IFA/IgM	: 3.50 :	Test :	:	:
:	Tularemia, Agglutination	: 3.50 :	Test :	:	:
:	Ureaplasma Urealyticum, Cult.:	: 3.50 :	Test :	:	:
:	AIDS Related Complex (24	:	:	:	:
:	Test Panel)	: 98.00 :	Specimen :	:	:
:	Antistreptolysin O and Anti	:	:	:	:
:	DNase B	: 3.50 :	Specimen :	:	:
:	<u>Chlamydia trachomatis</u> , Anti-	:	:	:	:
:	body and Culture	: 7.00 :	Specimen :	:	:
:	Complement Profile	: 7.00 :	Specimen :	:	:
:	Epstein-Barr Virus Panel	: 20.00 :	Specimen :	:	:
:	Epstein-Barr Virus Adjunct	: 10.00 :	Specimen :	:	:
:	Hepatitis Serodiagnosis	: 10.00 :	Specimen :	:	:
:	Hepatitis B Adjunct Panel	: 20.00 :	Specimen :	:	:
:	Hepatitis B "e"	: 10.00 :	Specimen :	:	:
:	Hepatitis B Immune Status	: 10.00 :	Specimen :	:	:
:	Hepatitis, Non A, Non B	: 30.00 :	Specimen :	:	:
:	Hepatitis B Serodiagnosis	: 15.00 :	Specimen :	:	:
:	Fungal Serology	: 7.00 :	Specimen :	:	:
:	Immunoglobulin Quantitation	: 7.00 :	Specimen :	:	:
:	IM Syndrome (Paired Sera)	: 30.00 :	Specimen :	:	:
:	Prenatal Screen	: 15.00 :	Specimen :	:	:
:	Sexually Transmitted Disease:	:	:	:	:
:	(Serology & Cultures)	: 15.00 :	Specimen :	:	:
:	TORCH Screen	: 7.00 :	Specimen :	:	:

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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
WI :	Mycology :	:	:	:	:
Cont.:	Antimicrobial Susceptibility:	7.00 :	Specimen :	:	:
:	Culture, Primary :	3.50 :	Specimen :	:	:
:	Referred Culture ID :	7.00 :	Specimen :	:	:
:	Occupational Health :	:	:	:	:
:	Asbestos :	:	:	:	:
:	Counting :	10.00 :	Sample :	:	:
:	Bulk ID X-ray :	40.00 :	Sample :	:	:
:	Bulk ID IR :	28.00 :	Sample :	:	:
:	Bulk ID Optical Staining :	10.00 :	Sample :	:	:
:	SEM (2 Hour Min.) :	30.00 :	Sample :	:	:
:	Isocyanates - TDI,MDI,HDI :	22.00 :	Sample :	:	:
:	Phenol :	10.00 :	Sample :	:	:
:	Amines Aliphatic & Aromatic :	25.00 :	Sample :	:	:
:	Free Silica :	35.00 :	Sample :	:	:
:	General Solvents-First Comp.:	23.40 :	Sample :	:	:
:	Each Additional Compound :	8.50 :	Each :	:	:
:	Metals on Atom-Comp. :	12.50 :	First :	:	:
:	Each Additional Metal :	3.00 :	Each :	:	:
:	Ion Chromatography :	:	:	:	:
:	Cl,NO2,NO3,PO4,S04,Br :	15.00 :	Sample :	:	:
:	Acetate :	15.00 :	Sample :	:	:
:	S02 :	15.00 :	Sample :	:	:
:	Na,K,NH3 :	15.00 :	Sample :	:	:
:	Ion Selective Electrode F or:	:	:	:	:
:	Cyanide :	11.00 :	Sample :	:	:
:	Formaldehyde Colorimetric :	15.00 :	First :	:	:
:	Each Additional Sample :	5.00 :	Each :	:	:
:	Formaldehyde Polaragraphic :	15.00 :	Sample :	:	:
:	Hexavalent Chromium :	15.00 :	First :	:	:
:	Each Additional Sample :	6.00 :	Each :	:	:
:	PAH & CTPV :	60.00 :	First :	:	:
:	Each Additional Sample :	30.00 :	Each :	:	:
:	Mercury :	20.00 :	First :	:	:
:	Each Additional Sample :	8.00 :	Each :	:	:
:	Total Weight :	5.50 :	Sample :	:	:
:	Pesticides :	60.00 :	Sample :	:	:
:	PCB :	60.00 :	Sample :	:	:
:	GC/MS - Set-up :	120.00 :	First :	:	:
:	Each Additional Sample :	40.00 :	Each :	:	:
:	GC/MS Confirmation of Sol-	:	:	:	:
:	vents from GC :	25.00 :	First :	:	:
:	Each Additional Comp. :	10.00 :	Each :	:	:
:	Flash Point :	15.00 :	Sample :	:	:
:	:Other analyses and discounts :	:	:	:	:
:	:for quantity by arrangement. :	:	:	:	:

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

Lab :	Services Performed	Charge Per Unit	Disposition of Funds
WI :	Parasitology	:	:
Cont.:	Fecal Exam., PVA/Formalin	7.00	Specimen
:	Pinworms	3.50	Specimen
:	Worms, Arthropods, etc.-ID	3.50	Specimen
:	Malaria Blood Films	7.00	Specimen
:	Microfilaria Blood Parasites	7.00	Specimen
:	Toxicology	:	:
:	Alcohols/Volatiles	3.50	Sample
:	Therapeutic Drug Monitoring	3.50	Test
:	Comprehensive Drug Screening	3.50	Sample
:	Drugs of Abuse	3.50	Sample
:	Drug ID, Marijuana, Pills, etc.	3.50	Sample
:	Toxic Metals, Blood or Urine	3.50	Test
:	Virology	:	:
:	Isolation Specimen	3.50	Specimen
:	Serology - Acute & Convales.	3.50	Pair
:	Rabies	3.50	Specimen
:	Rabies Container for Ship-	:	:
:	ment (Optional)	9.00	Each

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

## DIAGNOSTIC WORKLOAD SECTION

THE FOLLOWING DEFINITIONS APPLY TO CATEGORIES I THROUGH XII:

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

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

### SPECIMEN/SAMPLE

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

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

Lab & Region	Total Diagnostic Bacteriology Specimens	A Nasopharyngeal Specimens	B Mycobacterial Specimens	C Enteric Specimens	D Gonococcus Specimens	E Anaerobic Specimens	F Other Bacteriology Specimens
TOTAL*	5,480,278	518,578	433,322	159,800	4,195,323	8,777	164,478
Average*	133,665	14,841	11,111	3,898	102,325	237	4,217
NEW ENGLAND*	419,635	172,187	40,868	22,462	173,754	298	10,066
Conn.	84,719	33,093	6,189	7,701	32,414	150	5,172
Mass.	174,395	79,991	30,363	11,451	49,835		2,755
Me.	0						
N.H.	24,908	28	1,248	231	21,875	7	1,519
R.I.	123,046	58,967	1,881	1,767	59,897	30	504
Vt.	12,567	108	1,187	1,312	9,733	111	116
MIDDLE ATLANTIC*	242,895	1,853	14,404	8,805	216,605	40	1,188
N.J.	236,168	1,744	12,268	5,091	216,590	28	447
N.Y.	0						
Pa.	6,727	109	2,136	3,714	15	12	741
EAST NORTH CENTRAL*	275,922	20,701	27,073	24,099	189,151	1,060	13,838
Ill.	74,510	1,827	5,328	8,357	56,971	114	1,913
Ind.	10,084	186	2,173	1,941	4,921	15	848
Mich.	109,974	2,031	12,228	7,990	81,707	132	5,886
Ohio	43,305	10,047	2,442	1,192	28,469	392	763
Wisc.	38,049	6,610	4,902	4,619	17,083	407	4,428
WEST NORTH CENTRAL*	374,783	63,031	26,766	16,465	255,548	987	11,986
Ia.	95,587	29,560	1,689	989	57,829	161	5,359
Kans.	52,494	2,930	5,506	8,071	33,389	391	2,207
Minn.	133,329	1,529	13,308	2,675	115,613	109	95
Mo.	45,001	4,421		2,130	38,327	123	
Nebr.	0						
N.D.	25,696	14,142	2,293	1,387	4,917	163	2,794
S.D.	22,676	10,449	3,970	1,213	5,473	40	1,531
SOUTH ATLANTIC*	1,656,492	132,478	107,189	43,127	1,330,406	2,275	41,017
Del.	86,424	52,186		455	32,600		1,183
D.C.	0						
Fla.	621,273	20,520	42,830	24,952	526,928	269	5,774
Ga.	231,967	8,227	17,858	3,603	198,565	120	3,594
Md.	440,080	30,236	13,746	8,704	364,198	228	22,968
N.C.	24,431	1,205	16,776	3,797	413	977	1,263
S.C.	168,662	848	10,271	1,140	150,518	616	5,269
Va.	0						
W.Va.	83,655	19,256	5,708	476	57,184	65	966
EAST SOUTH CENTRAL*	867,375	48,961	74,520	9,653	729,805	1,137	3,299
Ala.	329,812	85	28,711	3,770	297,121	97	28
Ky.	17,109	1,280	12,360	871	2,329		269
Miss.	215,643	20,788	15,270	3,305	173,278		3,002
Tenn.	304,811	26,808	18,179	1,707	257,077	1,040	
WEST SOUTH CENTRAL*	1,239,398	35,419	102,945	18,623	1,012,903	1,558	67,950
Ark.	114,787	12,642	24,168	1,664	75,993	120	200
La.	185,914	2,648	7,544	4,699	168,283	796	1,944
Okla.	236,328	14,367	10,700	2,150	208,441	53	617
Tex.	702,369	5,762	60,533	10,110	560,186	589	65,189
MOUNTAIN*	132,060	3,602	12,954	6,760	101,412	387	6,945
Ariz.	5,163	177	2,501	1,901	71	98	415
Colo.	0						
Ida.	36,514	2,494	2,036	1,304	29,643	233	804
Mont.	0						
Nev.	0						
N.M.	68,739	906	6,590	2,262	53,444	43	5,494
Utah	21,644	25	1,827	1,293	18,254	13	232
Wyo.	0						
PACIFIC*	271,718	40,346	26,603	9,806	185,739	1,035	8,189
Alaska	99,892	28,009	8,729	1,467	59,834	53	1,800
Cal.	0						
Hawaii	132,264	10,907	8,090	3,950	103,241	932	5,144
Ore.	5,726	114	2,818	1,699	397	6	692
Wash.	33,836	1,316	6,966	2,690	22,267	44	553
TERRITORIES*	0	0	0	0	0	0	0
Guam	0						
P.R.	0						
V.I.	0						

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

Lab & Region	Number of Specimens	1. Streptococcus Beta Hemolytic, Group A					Other
		Culture	FA	Sero-grouping	Sero-typing	Bacitracin Disc	
TOTAL*	488,665						
Average*	13,574						
NEW ENGLAND*	171,385						
Conn.	32,435	X	X	X		X	
Mass.	79,972	X	X				
N.H.	28	X	X	X			
R.I.	58,907	X	X				
Vt.	43	X	X	X			
MIDDLE ATLANTIC*	15						
N.J.							
N.Y.							
Pa.	15	X		X		X	
EAST NORTH CENTRAL*	14,305						
Ill.	433	X					
Ind.							
Mich.	1,819	X				X	
Ohio	5,669	X	X	X			
Wisc.	6,384	X	X	X		X	
WEST NORTH CENTRAL*	60,369						
Ia.	29,461	X	X	X			
Kans.	2,857	X	X			X	
Minn.		X		X			
Mo.	4,421	X	X				
Nebr.							
N.D.	14,097		X				
S.D.	9,533	X	X				
SOUTH ATLANTIC*	118,449						
Del.	52,186	X					Phadebact
D.C.							
Fla.	10,086	X				X	
Ga.	7,783	X	X				
Md.	27,625	X		X		X	
N.C.	738	X	X	X			
S.C.	817	X	X	X		X	
Va.							
W.Va.	19,216	X	X				
EAST SOUTH CENTRAL*	48,244						
Ala.							
Ky.	1,219	X	X	X			
Miss.	20,503	X	X				
Tenn.	26,522		X				
WEST SOUTH CENTRAL*	33,212						
Ark.	12,516	X	X	X	X	X	
La.	2,179	X	X	X			
Okla.	13,817	X	X	X			
Tex.	4,700	X	X	X	X	X	
MOUNTAIN*	3,530						
Ariz.	177	X					Biochemicals
Colo.							
Ida.	2,443	X	X	X		X	
Mont.							
Nev.							
N.M.	897	X	X	X		X	
Utah	13	X				X	Latex agglutination for grouping
Wyo.							
PACIFIC*	39,156						
Alaska	27,869	X	X	X		X	
Cal.							
Hawaii	10,599	X	X	X	X		
Ore.							
Wash.	688	X	X				
TERRITORIES*	0						
Guam							
P.R.							
V.I.							



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

Lab & Region	Number of Specimens	2. Diphtheria			
		Direct Smear	Culture	Confirm. Sugars	Toxogenicity
TOTAL*	11,480				
Average*	425				
NEW ENGLAND*	18				
Conn.	4	X	X	X	X
Mass.	5	X	X	X	X
Me.					
N.H.					
R.I.	5	X	X	X	X
Vt.	4	X	X	X	X
MIDDLE ATLANTIC*	0				
N.J.					
N.Y.					
Pa.					
EAST NORTH CENTRAL*	50				
Ill.	30		X		
Ind.					
Mich.	16		X	X	X
Ohio					
Wisc.	4		X	X	X
WEST NORTH CENTRAL*	913				
Ia.	7	X	X	X	X
Kans.					
Minn.	2		X	X	X
Mo.					
Nebr.					
N.D.	15		X	X	X
S.D.	889	X	X	X	
SOUTH ATLANTIC*	10,095				
Del.					
D.C.					
Fla.	10,086		X	X	X
Ga.					
Md.					
N.C.					
S.C.	9	X	X		X
Va.					
W.Va.					
EAST SOUTH CENTRAL*	64				
Ala.	48	X	X		X
Ky.	4	X	X		X
Miss.					
Tenn.	12	X	X	X	X
WEST SOUTH CENTRAL*	34				
Ark.	5	X	X	X	
La.	9	X	X	X	
Okla.	3	X	X	X	X
Tex.	17	X	X	X	X
MOUNTAIN*	19				
Ariz.					
Colo.					
Ida.	5	X	X	X	X
Mont.					
Nev.					
N.M.	9	X	X	X	X
Utah	5	X	X	X	X
Wyo.					
PACIFIC*	287				
Alaska	9	X	X	X	
Cal.					
Hawaii	36	X	X	X	X
Ore.	12	X	X	X	X
Wash.	230	X	X	X	X
TERRITORIES*	0				
Guam					
P.R.					
V.I.					

TABLE 4-4  
I. DIAGNOSTIC BACTERIOLOGY  
A. Nasopharyngeal Specimens

Lab & Region	Number of Specimens	3. Pertussis			
		Procedures Used			
		Culture	FA	Serological	Biochemicals
TOTAL*	7,230				
Average*	219				
NEW ENGLAND*	143				
Conn.	77	X	X		X
Mass.					
Me.					
N.H.					
R.I.	5	X	X		X
Vt.	61	X	X		
MIDDLE ATLANTIC*	94				
N.J.					
N.Y.					
Pa.	94	X			X
EAST NORTH CENTRAL*	2,301				
Ill.	1,364	X	X		
Ind.	186	X	X		
Mich.	187	X	X		X
Ohio	342	X	X		X
Wisc.	222	X	X		X
WEST NORTH CENTRAL*	277				
Ia.	42	X	X		X
Kans.	73		X		
Minn.	105	X	X	X	X
Mo.					
Nebr.					
N.D.	30	X	X		
S.D.	27	X	X		
SOUTH ATLANTIC*	1,826				
Del.					
D.C.					
Fla.	348		X		
Ga.	444	X	X		
Md.	525	X			
N.C.	469	X	X		X
S.C.					
Va.					
W.Va.	40		X		
EAST SOUTH CENTRAL*	639				
Ala.	37	X	X		X
Ky.	57		X		
Miss.	271	X	X		X
Tenn.	274	X	X	X	X
WEST SOUTH CENTRAL*	1,332				
Ark.	15	X	X		X
La.	385	X	X		
Okla.	522	X	X		X
Tex.	410	X	X	X	X
MOUNTAIN*	53				
Ariz.					
Colo.					
Ida.	46	X	X	X	X
Mont.					
Nev.					
N.M.					
Utah	7	X	X		X
Wyo.					
PACIFIC*	565				
Alaska	56	X	X		X
Cal.					
Hawaii	62	X	X		X
Ore.	49	X	X		
Wash.	398	X	X		
TERRITORIES*	0				
Guam					
P.R.					
V.I.					

TABLE 4-5  
I. DIAGNOSTIC BACTERIOLOGY  
A. Nasopharyngeal Specimens

		4. Other Nasopharyngeal Specimens	
Lab & Region	Number of Specimens	Disease -- Procedures Used	
TOTAL*	11,203		
Average*	622		
NEW ENGLAND*	641		
Conn.	577	Legionnaires' Disease - FA; Vincent's Infection - smear, Speciation, biochemicals	
Mass.	14	Meningitis - culture, biochemical, serological	
Me.			
N.H.			
R.I.	50	Gonococcus - culture, biochemicals, FA	
Vt.			
MIDDLE ATLANTIC*	1,744		
N.J.	1,744	Legionella, C. perfringens, S. aureus, C. jejuni-FA, culture, selective isolation and ID	
N.Y.			
Pa.			
EAST NORTH CENTRAL*	4,045		
Ill.			
Ind.			
Mich.	9	Vincent's angina - slide; Botulism - toxin test	
Ohio	4,036	Staphylococcus, aerobic	
Wisc.			
WEST NORTH CENTRAL*	1,472		
Ia.	50	Vincent's angina - direct examination; Staphylococcus - culture; Lancefield group strept - capillary precipitin test	
Kans.		Referred culture for identification - smear, biochemicals, serological, animal pathology, toxin	
Minn.	1,422		
Mo.			
Nebr.			
N.D.			
S.D.			
SOUTH ATLANTIC*	2,108		
Del.			
D.C.			
Fla.			
Ga.		Bacteria, bacterial - culture	
Md.	2,086	Staphylococcus, streptococcus - non Beta hemolytic, haemophilis	
N.C.			
S.C.	22		
Va.			
W.Va.			
EAST SOUTH CENTRAL*	14		
Ala.			
Ky.			
Miss.	14		
Tenn.			
WEST SOUTH CENTRAL*	841	Legionella, Tularemia, Brucella - culture, microscopic, FA	
Ark.	106		
La.	75	Misc. isolates for ID - culture, serotyping	
Okla.	25		
Tex.	635		
MOUNTAIN*	0		
Ariz.			
Colo.			
Ida.			
Mont.			
Nev.			
N.M.			
Utah			
Wyo.			
PACIFIC*	338		
Alaska	75	Meningitidis, influenza, S. Pneumoniae, staphylococcus - culture and biochemicals	
Cal.			
Hawaii	210	Meningococcus, Staph, H. influenzae-culture, ID	
Ore.	53	Misc. URI cultures	
Wash.		Legionnaires', N. meningitidis, S. aureus - all culture and ID methods	
TERRITORIES*	0		
Guam			
P.R.			
V.I.			

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

Lab & Region	Number of Specimens	Procedures Used						Species Ident.	Other
		Direct Smear	Concentrate Smear	Culture	Direct Suscept. # of Drugs	Indirect Suscept. # of Drugs	# of Biochemicals		
TOTAL*	433,322								
Average*	11,111								
NEW ENGLAND*	40,868								
Conn.	6,189		X	X		9	19	X	
Mass.	30,363		X	X	9	9	9	X	Reference culture, Smear, identification & drug use testing
Me.									
N.H.	1,248	X		X					
R.I.	1,881		X	X		7	12	X	
Vt.	1,187		X	X	6	6	2		
MIDDLE ATLANTIC*	14,404								
N.J.	12,268		X	X	4-8	4-8	12	X	
N.Y.									
Pa.	2,136				5	5-9	3-12	X	Performed by contract laboratory
EAST NORTH CENTRAL*	27,073								
Ill.	5,328		X	X		5	9	X	
Ind.	2,173	X	X	X	6	6	6	X	
Mich.	12,228		X	X		9	11	X	
Ohio	2,442		X	X	10	10	10	X	
Wisc.	4,902	X	X	X	7	7	13	X	
WEST NORTH CENTRAL*	26,766								
Ia.	1,689	X	X	X	8	8	14	X	
Kans.	5,506		X	X	9	9	18	X	
Minn.	13,308		X		3		15	X	
Mo.									
Nebr.									
N.D.	2,293		X	X	5	5	8	X	
S.D.	3,970	X	X	X	4	4	3	X	
SOUTH ATLANTIC*	107,189								
Del.									
D.C.									
Fla.	42,830		X	X		7	12	X	
Ga.	17,858	X	X	X	5	9	12	X	
Md.	13,746	X	X	X	4	9	3-12	X	
N.C.	16,776		X	X	4	4	10	X	
S.C.	10,271	X	X	X	7	7	8	X	
Va.									
W.Va.	5,708		X	X	9	9	7	X	
EAST SOUTH CENTRAL*	74,520								
Ala.	28,711		X	X	8	8	21	X	Serotyping atypical mycobacteria
Ky.	12,360		X	X	8	8	9	X	Fluorochrome smear
Miss.	15,270		X	X		7	6	X	
Tenn.	18,179		X	X		6	3	X	
WEST SOUTH CENTRAL*	102,945								
Ark.	24,168		X	X	6	6	7	X	
La.	7,544	X	X	X		4	14	X	
Okl.	10,700		X	X		5	8	X	
Tex.	60,533	X	X	X	3	8	8	X	
MOUNTAIN*	12,954								
Ariz.	2,501	X	X	X	7	7	12	X	
Colo.									
Ida.	2,036	X	X	X	5	5	13	X	
Mont.									
Nev.									
N.M.	6,590		X	X				X	
Utah	1,827	X	X	X	7	10	15	X	
Wyo.									
PACIFIC*	25,603								
Alaska	8,729	X	X	X		4-6	5-8	X	
Cal.									
Hawaii	8,090	X	X	X	5	5	10		
Ore.	2,818	X	X				13	X	
Wash.	6,966		X	X	5	5	10	X	
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

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

Lab & Region	Number of Specimens	Procedures Used							Other
		Primary Plating	Enrichment Plating	Bio-chemicals	FA	Sero-grouping	Sero-typing	Phage Typing, S. typhi	
TOTAL*	159,800								
Average*	3,898								
NEW ENGLAND*	22,462								
Conn.	7,701	X	X	X		X	X		
Mass.	11,451	X	X	X		X	X		
Me.									
N.H.	231	X	X	X		X			
R.I.	1,767	X	X	X		X	X		
Vt.	1,312	X	X	X	X	X	X		
MIDDLE ATLANTIC*	8,805								
N.J.	5,091	X	X	X		X	X		
N.Y.									
Pa.	3,714	X	X	X		X	X	X	
EAST NORTH CENTRAL*	24,099								
Ill.	8,357	X	X	X		X	X	X	
Ind.	1,941								
Mich.	7,990	X	X	X		X	X		
Ohio	1,192	X	X	X		X	X		Special feces
Wisc.	4,619	X	X	X		X	X		
WEST NORTH CENTRAL*	16,465								
Ia.	989	X	X	X		X	X		
Kans.	8,071	X	X	X		X	X		
Minn.	2,675	X	X	X		X	X	X	
Mo.	2,130	X	X	X		X	X		
Nebr.									
N.D.	1,387	X	X	X		X	X		
S.D.	1,213	X	X	X		X	X		
SOUTH ATLANTIC*	43,127								
Del.	455	X	X	X		X	X		
D.C.									
Fla.	24,952	X	X	X	X	X	X		
Ga.	3,603	X	X	X		X	X	X	
Md.	8,704	X	X	X		X	X		
N.C.	3,797	X	X	X		X	X		
S.C.	1,140	X	X	X		X	X		
Va.									
W.Va.	476	X	X	X		X	X		
EAST SOUTH CENTRAL*	9,653								
Ala.	3,770	X	X	X		X	X		
Ky.	871	X	X	X	X	X	X	X	
Miss.	3,305	X	X	X		X	X		Subculture
Tenn.	1,707	X	X	X		X	X		
WEST SOUTH CENTRAL*	18,623								
Ark.	1,664	X	X	X		X	X		
La.	4,699	X	X	X		X	X	X	
Okla.	2,150	X	X	X		X	X		
Tex.	10,110	X	X	X	X	X	X	X	
MOUNTAIN*	6,760								
Ariz.	1,901	X	X	X	X	X	X		
Colo.									
Ida.	1,304	X	X	X		X	X		
Mont.									
Nev.									
N.M.	2,262	X	X	X		X	X		
Utah	1,293	X	X	X		X	X		
Wyo.									
PACIFIC*	9,806								
Alaska	1,467	X	X	X	X	X	X		API
Cal.									
Hawaii	3,950	X	X	X	X	X	X	X	
Ore.	1,699	X	X	X		X	X		
Wash.	2,690	X	X	X		X			
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

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

Lab & Region	Number of Specimens	Procedures Used						Other
		Smear	Culture	Oxidase Reaction	FA	Bio-chemical	Beta-lactamase	
TOTAL*	4,195,323							
Average*	102,325							
NEW ENGLAND*	173,754							
Conn.	32,414	X	X	X	X	X	X	
Mass.	49,835							
Me.								
N.H.	21,875	X	X	X	X	X	X	
R.I.	59,897	X	X	X	X	X	X	
Vt.	9,733	X	X	X	X	X	X	Spectinomycin susceptibility
MIDDLE ATLANTIC*	216,605							
N.J.	216,590		X	X		X	X	Coagglutination
N.Y.								
Pa.	15	X	X	X		X	X	
EAST NORTH CENTRAL*	189,151							
Ill.	56,971	X	X	X		X	X	
Ind.	4,921	X	X	X	X	X	X	Spectinomycin resistance
Mich.	81,707	X	X	X		X	X	
Ohio	28,469	X	X	X	X	X	X	
Wisc.	17,083		X	X		X	X	Coagglutination
WEST NORTH CENTRAL*	255,548							
Ia.	57,829	X	X	X	X	X	X	
Kans.	33,389	X	X	X	X	X	X	Antibiotic susceptibility testing
Minn.	115,613	X	X	X	X	X	X	Catalase, gram stain
Mo.	38,327	X	X	X	X	X	X	Gram stain
Nebr.								
N.D.	4,917	X	X	X	X	X	X	
S.D.	5,473	X	X	X	X	X	X	
SOUTH ATLANTIC*	1,330,406							
Del.	32,600	X	X	X		X	X	
D.C.								
Fla.	526,928	X	X	X		X	X	Coagglutination
Ga.	198,565	X	X	X		X	X	Coagglutination
Md.	364,198	X	X	X	X	X	X	
N.C.	413	X	X	X		X	X	
S.C.	150,518	X	X	X	X	X	X	
Va.								
W.Va.	57,184	X	X	X	X	X	X	
EAST SOUTH CENTRAL*	729,805							
Ala.	297,121	X	X	X	X	X	X	
Ky.	2,329	X	X	X	X	X	X	
Miss.	173,278	X	X	X	X	X	X	Gram stain, Drug susceptibility
Tenn.	257,077	X	X	X	X	X	X	
WEST SOUTH CENTRAL*	1,012,903							
Ark.	75,993	X	X	X	X	X	X	
La.	168,283	X	X	X		X	X	Gram stain
Okla.	208,441	X	X	X		X	X	Phadebact coagglutination
Tex.	560,186	X	X	X	X	X	X	Gonozyme
MOUNTAIN*	101,412							
Ariz.	71	X	X	X	X	X		
Colo.								
Ida.	29,643	X	X	X	X	X	X	Gonogen, Gonozyme, Padac
Mont.								
Nev.								
N.M.	53,444	X	X	X	X	X	X	
Utah	18,254	X	X	X	X	X	X	
Wyo.								
PACIFIC*	185,739							
Alaska	59,834	X	X	X	X	X	X	
Cal.								
Hawaii	103,241	X	X	X	X	X	X	
Ore.	397	X	X	X	X	X	X	
Wash.	22,267	X	X	X	X	X	X	
TERRITORIES*	0							
Guam								
P.R.								
V.I.								

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

Lab & Region	Number of Specimens	Techniques Used			Procedures Used						
		Pre-reduced Media	Gas Chromatography	Gram Stain	Plating	Sub-Culture	Bio-chemical	FA	GLC	Other	
TOTAL*	8,777										
Average*	237										
NEW ENGLAND*	298										
Conn.	150		X	X	X	X	X	X	X	X	
Mass.											
Me.											
N.H.	7	X		X	X	X	X				
R.I.	30	X		X	X	X	X				
Vt.	111	X	X	X	X	X	X	X	X	X	Susceptibility discs
MIDDLE ATLANTIC*	40										
N.J.	28	X	X	X	X	X	X			X	Botulinal culture and toxin testing
N.Y.											
Pa.	12			X	X	X	X				
EAST NORTH CENTRAL*	1,060										
Ill.	114		X	X	X	X	X			X	
Ind.	15		X	X	X	X	X				Toxin studies
Mich.	132	X	X	X	X	X	X			X	
Ohio	392	X	X	X	X	X	X			X	Botulism testing
Wisc.	407	X	X	X	X	X	X			X	Actinomyces israelii, A. naeslundii - FA, Botulism - toxin and culture assay
WEST NORTH CENTRAL*	987										
Ia.	161	X	X	X	X	X	X			X	
Kans.	391	X		X	X	X	X				
Minn.	109		X	X	X	X	X			X	Animal toxicology, serology
Mo.	123	X	X	X	X	X	X	X	X	X	
Nebr.											
N.D.	163	X		X	X	X	X	X	X		
S.D.	40	X		X	X	X	X				
SOUTH ATLANTIC*	2,275										
Del.											
D.C.											
Fla.	269	X	X	X	X	X	X	X	X	X	
Ga.	120		X	X	X	X	X			X	
Md.	228	X	X	X	X	X	X			X	
N.C.	977	X	X	X	X	X	X	X	X	X	
S.C.	616	X	X		X	X	X	X	X	X	
Va.											
W.Va.	65	X		X	X	X	X				
EAST SOUTH CENTRAL*	1,137										
Ala.	97	X		X	X	X	X				
Ky.											
Miss.				X	X	X	X				
Tenn.	1,040		X	X	X	X	X	X	X	X	
WEST SOUTH CENTRAL*	1,558										
Ark.	120		X	X	X	X	X			X	
La.	796	X	X	X	X	X	X			X	Animal inoculation
Okla.	53	X		X	X	X	X				
Tex.	589	X	X	X	X	X	X	X	X	X	
MOUNTAIN*	387										
Ariz.	98	X	X	X	X	X	X	X	X	X	
Colo.											
Ida.	233			X	X	X	X				
Mont.											
Nev.											
N.M.	43	X	X	X	X	X	X	X	X	X	
Utah	13	X		X	X	X	X				Mouse inoculation for toxicity/typing for botulism
Wyo.											
PACIFIC*	1,035										
Alaska	53	X									
Cal.											
Hawaii	932	X	X	X	X	X	X	X	X	X	
Ore.	6		X	X	X	X	X			X	
Wash.	44	X	X	X	X	X	X			X	
TERRITORIES*	0										
Guam											
P.R.											
V.I.											

TABLE 4-10  
I. DIAGNOSTIC BACTERIOLOGY  
F. Other Bacteriology Specimens

Lab & Region	Number of Specimens	Disease -- Procedures Used
TOTAL*	164,478	
Average*	4,217	
NEW ENGLAND*	10,066	
Conn.	5,172	Genital smears (Not GC) - smears; nosocomial infections - phage typing; clinical cultures; referred cultures
Mass.	2,755	Misc. Microscopic, cultural, biochemical, Botulism, Legionnaires' biotyping, serological, FA, Meningitis, bacteremia, animal inoculation, and referred cultures
Me.		
N.H.	1,519	Misc. clinical specimens, reference bacteriology - culture and sensitivity, identification
R.I.	504	Misc. reference cultures - culture and biochemicals
Vt.	116	Legionella - culture, FA
MIDDLE ATLANTIC*	1,188	
N.J.	447	Referred cultures - determinative: stains, biochemicals, selective media
N.Y.		
Pa.	741	Legionellosis, Botulism, infant misc. - culture, DFA toxin assay standard techniques
EAST NORTH CENTRAL*	13,838	
Ill.	1,913	Syphilis - Fontana; Vincent's angina-smear; staphylococcus infections, bacteriophage typing; miscellaneous infections - culture
Ind.	848	Aerobic reference cultures - staining; Staphylococcus Phage typing - biochemical, serology
Mich.	5,886	Culture for identification, transudate & exudates, urine, misc. - culture; Staphylococcal - bacteriophage typing
Ohio	763	Mycoplasma, ureaplasma, Legionnaires', leptospirosis
Wisc.	4,428	Misc. cultures, referred cultures, Legionnaires', foodborne diseases, Toxic shock syndrome - culture, FA, ID, IFA, DFA, serology
WEST NORTH CENTRAL*	11,986	
Ia.	5,359	Legionella - DFA, culture & id; Misc. culture activities, Reference bacteriology - culture and id
Kans.	2,207	Food bacteriology - FDA; Staphylococcus - phage typing; Reference
Minn.	95	Leptospirosis, blood, CSF, tissues, food poisoning, Legionnaires', bacterium - microscopic, culture, serology, pathology, toxins
Mo.		
Nebr.		
N.D.	2,794	Urinary tract, URI, bacteremia, spinal fluid, misc. - culture, smear, biochemicals; would culture, legionnaires', referred and misc. cultures
S.D.	1,531	
SOUTH ATLANTIC*	41,017	
Del.	1,183	Urine cultures - primary plating; reference cultures - enrichment plating; miscellaneous cultures - biochemicals, Kirby-Bauer
D.C.		
Fla.	5,774	Primary culture - smear, culture; sensitivity test - disc test; rheumatic fever prophylaxis - bacterial inhibition, penicillin, sensitivity
Ga.	3,594	Meningitis, pneumonia, bacteremia, osteomyelitis, wounds, abscesses, urine, etc. - standard procedures
Md.	22,968	
N.C.	1,263	Legionellosis, reference, clinical, environmental & human specimens - culture, FA, smear, biochemicals, BAM techniques, standard techniques
S.C.	5,269	Urinary infections, Meningitis, drug susceptibility - quantitative count, biochemicals, culture, Kirby-Bauer
Va.		
W.Va.	966	General cultures
EAST SOUTH CENTRAL*	3,299	
Ala.	28	Legionella-culture, biochemical, FA
Ky.	269	Staphylococcus bacteriophage - smear, coagulase, phage typing; Misc. cultures - smear, biochemicals, coagulase, serogrouping
Miss.	3,002	Misc. waters, spinal fluid; blood, urine, Misc. - primary plating, biochemicals, serotyping, subculture, serogrouping, gram stain, agglutination, sensitivity testing
Tenn.		



TABLE 4-10  
I. DIAGNOSTIC BACTERIOLOGY  
F. Other Bacteriology Specimens-Continued

Lab & Region	Number of Specimens	Disease -- Procedures Used
WEST SOUTH CENTRAL*	67,950	
Ark. ....	200	Reference cultures - microscopic, culture, FA, serotyping
La. ....	1,944	Referred culture for id, Food poisoning & food quality, Neisseria meningitidis - stain, cultures, biochemicals, serogroup
Okla. ....	617	Misc. isolates for ID - culture, serotyping
Tex. ....	65,189	
MOUNTAIN*	6,945	
Ariz. ....	415	Miscellaneous - culture, isolation, biopsy, biochemicals
Colo. ....		
Ida. ....	804	Reference bacteria - Weaver-King system
Mont. ....		
Nev. ....		
N.M. ....	5,494	Antibiotic sensitivity, phage typing, sterility spore test, cultures for medical investigation, misc. cultures
Utah ....	232	Misc. cultures, medical examiner specimens, Legionnaires, pneumonia, tularemia, plague - culture and ID
Wyo. ....		
PACIFIC*	8,189	
Alaska ....	1,800	Blood and aerobic FUO cultures
Cal. ....		
Hawaii ....	5,144	Staphylococcal phage typing; antibiotic sensitivity - Kirby-Bauer; Non-human enteric; Leptospirosis - culture ID; reference - culture ID
Ore. ....	692	Misc. specimens-culture and ID
Wash. ....	553	Legionnaires, N. meningitidis, reference culture-stains, plating, serogrouping, subculture
TERRITORIES*	0	
Guam ....		
P.R. ....		
V.I. ....		

TABLE 4-11  
II. MYCOLOGY

Lab & Region	Number of Specimens	Procedures Used							Other
		Micro. Wet Mounts	Micro. Stains	Culture	FA	Bio-chemicals	Animal Inoculation		
TOTAL*	55,246								
Average*	1,493								
NEW ENGLAND*	2,928								
Conn.	1,759	X	X	X		X			Differentiation media
Mass.	435	X	X	X		X			
Me.									
N.H.	112		X	X		X			
R.I.	368	X	X	X		X			
Vt.	254	X	X	X		X			
MIDDLE ATLANTIC*	1,136								
N.J.	1,011	X	X	X		X			
N.Y.									
Pa.	125	X	X	X		X			Slide culture, morphology agar
EAST NORTH CENTRAL*	8,682								
Ill.	940	X	X	X		X	X		
Ind.	646	X	X	X		X	X		Exoantigen test
Mich.	1,389	X	X	X		X	X		
Ohio	932	X	X	X		X	X		
Wisc.	4,775	X	X	X		X	X		Sensitivities, bioassays - SFC
WEST NORTH CENTRAL*	6,329								
Ia.	1,411	X	X	X		X			Immunodiffusion, Exoantigen
Kans.	1,153	X	X	X		X			Immunodiffusion
Minn.	2,991	X	X	X		X	X		Assimilation, Exoantigen test
Mo.	421	X	X	X		X	X		
Nebr.									
N.D.	353	X	X	X		X			
S.D.									
SOUTH ATLANTIC*	10,666								
Del.									
D.C.									
Fla.	3,827	X	X	X	X	X			
Ge.	1,092	X	X	X		X			Temperature tolerance, in-vitro hair test
Md.	2,419	X	X	X		X			
N.C.	1,189	X	X	X		X			
S.C.	1,815	X	X	X		X	X		MIC, exoantigen preparation, Lysozyme tests
Va.									
W.Va.	324	X	X	X		X	X		
EAST SOUTH CENTRAL*	8,192								
Ala.	3,609	X	X	X		X	X		
Ky.									
Miss.	2,435	X	X	X		X			Hair culture
Tenn.	2,148	X		X		X			
WEST SOUTH CENTRAL*	13,371								
Ark.	2,185	X	X	X		X			
La.	1,685	X	X	X		X			Immunodiffusion for fungi
Okla.	743	X	X	X		X	X		Exoantigen
Tex.	8,758	X	X	X	X	X	X		Immunologic
MOUNTAIN*	2,784								
Ariz.	978	X	X	X		X			In-vitro conversion
Colo.									
Ida.	530	X	X	X	X	X			Exoantigen, crypto LA
Mont.									
Nev.									
N.M.	1,069	X	X	X		X	X		
Utah	207	X	X	X		X	X		Slide cultures
Wyo.									
PACIFIC*	1,158								
Alaska	311	X	X	X		X			
Cal.									
Hawaii	664	X	X	X		X	X		
Ore.									
Wash.	183		X	X		X			
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

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

Lab & Region	Total Parasitology Specimens	A		B	
		Intestinal Specimens	Other Specimens		
TOTAL*	278,071	266,464	11,607		
Average*	6,621	6,344	341		
NEW ENGLAND*	16,138	15,339	799		
Conn.	8,511	7,782	729		
Mass.	90	34	56		
Me.	0				
N.H.	45	45			
R.I.	5,287	5,284	3		
Vt.	2,205	2,194	11		
MIDDLE ATLANTIC*	1,131	1,092	39		
N.J.	1,002	976	26		
N.Y.	0				
Pa.	129	116	13		
EAST NORTH CENTRAL*	20,525	20,452	73		
Ill.	4,790	4,766	24		
Ind.	2,134	2,113	21		
Mich.	5,296	5,295	1		
Ohio	1,393	1,387	6		
Wisc.	6,912	6,891	21		
WEST NORTH CENTRAL*	26,892	26,515	377		
Ia.	3,926	3,891	35		
Kans.	10,061	10,035	26		
Minn.	5,801	5,704	97		
Mo.	3,023	3,023			
Nebr.	0				
N.D.	2,589	2,370	219		
S.D.	1,492	1,492			
SOUTH ATLANTIC*	115,344	110,056	5,288		
Del.	330	330			
D.C.	0				
Fla.	64,669	64,600	69		
Ga.	19,876	19,841	35		
Md.	9,785	9,748	37		
N.C.	6,120	5,965	155		
S.C.	11,587	6,609	4,978		
Va.	0				
W.Va.	2,977	2,963	14		
EAST SOUTH CENTRAL*	33,419	33,344	75		
Ala.	14,947	14,877	70		
Ky.	4,891	4,891			
Miss.	8,234	8,232	2		
Tenn.	5,347	5,344	3		
WEST SOUTH CENTRAL*	32,685	29,323	3,362		
Ark.	2,447	2,446	1		
La.	14,808	13,753	1,055		
Okla.	3,654	3,602	52		
Tex.	11,776	9,522	2,254		
MOUNTAIN*	6,330	4,820	1,510		
Ariz.	118	118			
Colo.	0				
Ida.	3,110	1,604	1,506		
Mont.	0				
Nev.	0				
N.M.	1,392	1,392			
Utah	1,710	1,706	4		
Wyo.	0				
PACIFIC*	18,470	18,386	84		
Alaska	3,181	3,179	2		
Cal.	0				
Hawaii	5,503	5,469	34		
Ore.	2,776	2,773	3		
Wash.	7,010	6,965	45		
TERRITORIES*	7,137	7,137	0		
Guam	0				
P.R.	7,137	7,137			
V.I.	0				

TABLE 4-13  
 III. PARASITOLOGY  
 A. Intestinal Specimens

Lab & Region	Number of Specimens	Procedures Used					Other
		Gross	Direct (Incl. Pinworms)	Concentration Smear	Stained Smear		
TOTAL*	266,464						
Average*	6,344						
NEW ENGLAND*	15,339						
Conn.	7,782	X	X	X	X		
Mass.	34	X	X	X	X		
Me.							
N.H.	45	X	X	X	X		
R.I.	5,284	X	X	X	X		
Vt.	2,194	X	X	X	X		
MIDDLE ATLANTIC*	1,092						
N.J.	976	X	X	X	X		
N.Y.							
Pa.	116	X	X	X	X		Identification of adult helminths
EAST NORTH CENTRAL*	20,452						
Ill.	4,766	X	X	X	X		
Ind.	2,113		X	X	X		
Mich.	5,295	X	X	X	X		
Ohio	1,387	X	X				
Wisc.	6,891		X	X	X		
WEST NORTH CENTRAL*	26,515						
Ia.	3,891	X	X	X	X		Environmental & potable water filtration
Kans.	10,035	X	X	X	X		
Minn.	5,704	X	X	X	X		
Mo.	3,023	X	X	X	X		Isolation of Naegleria
Nebr.							
N.D.	2,370	X	X	X	X		
S.D.	1,492	X	X	X	X		
SOUTH ATLANTIC*	110,056						
Del.	330	X	X	X	X		
D.C.							
Fla.	64,600	X	X	X	X		
Ga.	19,841		X	X	X		Worm identification
Md.	9,748	X	X	X	X		
N.C.	5,965	X	X	X	X		Mounted, stained worm specimens
S.C.	6,609	X	X	X	X		Occult blood
Va.							
W.Va.	2,963	X	X	X	X		
EAST SOUTH CENTRAL*	33,344						
Ala.	14,877		X	X			
Ky.	4,891	X	X	X	X		
Miss.	8,232		X	X	X		
Tenn.	5,344		X	X			
WEST SOUTH CENTRAL*	29,323						
Ark.	2,446	X	X	X	X		
La.	13,753	X	X	X	X		
Okla.	3,602	X	X	X	X		
Tex.	9,522	X	X	X	X		
MOUNTAIN*	4,820						
Ariz.	118		X	X	X		
Colo.							
Ida.	1,604	X	X	X	X		
Mont.							
Nev.							
N.M.	1,392	X	X	X	X		
Utah	1,706	X	X	X	X		
Wyo.							
PACIFIC*	18,386						
Alaska	3,179	X	X	X	X		
Cal.							
Hawaii	5,469	X	X	X	X		
Ore.	2,773	X	X	X	X		
Wash.	6,965	X	X	X	X		
TERRITORIES*	7,137						
Guam							
P.R.	7,137		X	X			
V.I.							

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

Lab & Region	Number of Specimens	Types of Specimens				Other (Disease Entity-Procedures Used)
		Malaria	Trichi-nosis	Toxo-plasmosis		
TOTAL*	11,607					
Average*	341					
NEW ENGLAND*	799					
Conn.	729	X	X			Material for identification
Mass.	56	X				Arthropods, Protozoa
Me.						
N.H.						
R.I.	3	X				
Vt.	11	X	X			
MIDDLE ATLANTIC*	39					
N.J.	26	X	X			Pneumocystis carinii
N.Y.						
Pa.	13	X	X			Arthropod ID, water for protozoa
EAST NORTH CENTRAL*	73					
Ill.	24	X				Fly larvae, worms
Ind.	21	X				Environmental, Arthropods
Mich.	1	X				
Ohio	6	X	X			
Wisc.	21	X				
WEST NORTH CENTRAL*	377					
Ia.	35	X	X			Microfilaria, Arthropods
Kans.	26	X				Arthropods
Minn.	97	X	X			
Mo.						
Nebr.						
N.D.	219	X		X		
S.D.						
SOUTH ATLANTIC*	5,288					
Del.						
D.C.						
Fla.	69	X				
Ga.	35	X				
Md.	37	X				
N.C.	155	X				Arthropod ID, water-Giardia
S.C.	4,978	X				
Va.						
W.Va.	14					Insect ID
EAST SOUTH CENTRAL*	75					
Ala.	70	X				
Ky.						
Miss.	2	X				
Tenn.	3	X				
WEST SOUTH CENTRAL*	3,362					
Ark.	1	X			X	
La.	1,055	X	X			Lice, Nit ID, Food - insects, Water - Giardia - free living Nematodes
Okla.	52	X	X			Arthropod ID
Tex.	2,254	X	X	X		
MOUNTAIN*	1,510					
Ariz.						
Colo.						
Ida.	1,506	X	X	X		Stool counts, cercariae and giardia in water, Anasakis in fish, trichomonas
Mont.						
Nev.						
N.M.						
Utah	4	X				Other blood parasites, ID of arthropods, fly larvae, misc.
Wyo.						
PACIFIC*	84					
Alaska	2	X				
Cal.						
Hawaii	34	X	X	X		
Ore.	3	X				
Wash.	45	X				Ectoparasites
TERRITORIES*	0					
Guam						Microfilariae, Urines
P.R.						
V.I.						

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

Lab & Region	Total Virology Specimens	A Rabies Specimens	B Viral Isolations	C Rickettsial Ident. Isolations	D Other
TOTAL*	302,375	73,604	152,740	13,188	62,843
Average*	7,199	1,795	4,128	1,319	3,928
NEW ENGLAND*	14,742	1,547	13,195	0	0
Conn.	10,310	376	9,934		
Mass.	3,906	707	3,199		
Me.	0				
N.H.	198	198			
R.I.	98	98			
Vt.	230	168	62		
MIDDLE ATLANTIC*	15,250	2,441	9,293	44	3,472
N.J.	13,698	1,952	8,230	44	3,472
N.Y.	0				
Pa.	1,552	489	1,063		
EAST NORTH CENTRAL*	68,028	13,500	42,530	2,871	9,127
Ill.	14,018	3,710	1,866		8,442
Ind.	3,541	2,511	1,030		
Mich.	7,909	1,765	6,086		58
Ohio	29,715	3,362	22,855	2,871	627
Wisc.	12,845	2,152	10,693		
WEST NORTH CENTRAL*	40,105	6,007	17,084	46	16,968
Ia.	10,934	1,061	9,873		
Kans.	2,283		1,415		868
Minn.	5,677	1,809	3,868		
Mo.	3,840	2,697	1,143		
Nebr.	0				
N.D.	16,583	339	129	15	16,100
S.D.	788	101	656	31	
SOUTH ATLANTIC*	50,987	15,205	31,056	233	4,493
Del.	2,014	177	1,564		273
D.C.	0				
Fla.	7,732	4,627	3,105		
Ga.	5,410	2,018	2,816	14	562
Md.	15,019	3,774	11,204	41	
N.C.	8,086	1,908	4,967		1,211
S.C.	11,771	1,746	7,400	178	2,447
Va.	0				
W.Va.	955	955			
EAST SOUTH CENTRAL*	10,998	8,497	2,476	0	25
Ala.	3,195	3,185	10		
Ky.	2,284	1,859	400		25
Miss.	793	793			
Tenn.	4,726	2,660	2,066		
WEST SOUTH CENTRAL*	55,115	21,436	15,674	9,985	8,020
Ark.	2,193	2,174	8	11	
La.	2,430	2,412	18		
Okla.	5,110	3,396	1,614		100
Tex.	45,382	13,454	14,034	9,974	7,920
MOUNTAIN*	31,481	3,700	11,653	0	16,128
Ariz.	6,675	1,940	4,735		
Colo.	0				
Ida.	2,774	284	2,490		
Mont.	0				
Nev.	0				
N.M.	17,772	1,190	1,079		15,503
Utah	4,260	286	3,349		625
Wyo.	0				
PACIFIC*	10,588	800	9,779	9	0
Alaska	5,775	316	5,459		
Cal.	0				
Hawaii	2,549	16	2,533		
Dre.	1,470	133	1,337		
Wash.	794	335	450	9	
TERRITORIES*	5,081	471	0	0	4,610
Guam	0				
P.R.	5,081	471			4,610
V.I.	0				

TABLE 4-16  
IV. VIROLOGY  
A. Rabies Specimens

Lab & Region	Number of Specimens	Procedures Used			
		Stained Smear	FRA	Animal Inoculation	Other
TOTAL*	73,604				
Average*	1,795				
NEW ENGLAND*	1,547				
Conn.	376		X	X	
Mass.	707		X		
Me.					
N.H.	198		X	X	
R.I.	98		X	X	
Vt.	168		X	X	
MIDDLE ATLANTIC*	2,441				
N.J.	1,952		X	X	
N.Y.					
Pa.	489		X	X	
EAST NORTH CENTRAL*	13,500				
Ill.	3,710		X		
Ind.	2,511	X	X	X	
Mich.	1,765		X	X	
Ohio	3,362		X		
Wisc.	2,152		X	X	
WEST NORTH CENTRAL*	6,007				
Ia.	1,061		X	X	
Kans.					
Minn.	1,809		X	X	
Mo.	2,697	X	X	X	
Nebr.					
N.D.	339		X		
S.D.	101		X		
SOUTH ATLANTIC*	15,205				
Del.	177		X		
D.C.					
Fla.	4,627	X	X		
Ga.	2,018		X		
Md.	3,774	X	X	X	Mouse neutralization test for antibody
N.C.	1,908		X	X	
S.C.	1,746	X	X	X	
Va.					
W.Va.	955		X	X	
EAST SOUTH CENTRAL*	8,497				
Ala.	3,185	X	X		
Ky.	1,859	X	X	X	
Miss.	793	X	X		
Tenn.	2,660	X	X	X	
WEST SOUTH CENTRAL*	21,436				
Ark.	2,174	X	X		
La.	2,412		X	X	
Okla.	3,396		X	X	
Tex.	13,454	X	X	X	
MOUNTAIN*	3,700				
Ariz.	1,940		X	X	
Colo.					
Ida.	284		X		
Mont.					
Neav.					
N.M.	1,190		X	X	
Utah	286	X	X	X	
Wyo.					
PACIFIC*	800				
Alaska	316	X	X	X	
Cal.					
Hawaii	16	X	X		
Ore.	133	X	X	X	
Wash.	335		X	X	
TERRITORIES*	471				
Guam					
P.R.	471		X		
V.I.					

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

Lab & Region	Number of Specimens	Types of Specimens						Other
		Enteric	Arbo-virus Human Origin	Arbo-virus Non-human Origin	Respi-ratory	Exan-them		
TOTAL*	152,740							
Average*	4,128							
NEW ENGLAND*	13,195							
Conn.	9,934	X			X	X	X	CSF, urine, autopsy, biopsy CNS
Mass.	3,199		X		X	X	X	
Me.								
N.H.								
R.I.								
Vt.	62				X			
MIDDLE ATLANTIC*	9,293							
N.J.	8,230	X	X		X	X	X	Urine, genital, CSF
N.Y.								
Pa.	1,063	X	X		X	X	X	
EAST NORTH CENTRAL*	42,530							
Ill.	1,866	X			X	X	X	
Ind.	1,030	X			X	X	X	
Mich.	6,086	X			X	X	X	
Ohio	22,855	X	X		X	X	X	Genital, biopsy, autopsy-tissue
Wisc.	10,693	X	X		X	X	X	
WEST NORTH CENTRAL*	17,084							
Ia.	9,873	X	X		X	X	X	Mosquito pools arbovirus isolation
Kans.	1,415	X			X	X	X	Biopsies, CSF
Minn.	3,868	X			X	X	X	
Mo.	1,143	X	X		X	X	X	
Nebr.								
N.D.	129	X	X		X	X		
S.D.	656	X	X		X	X	X	
SOUTH ATLANTIC*	31,056							
Del.	1,564	X	X		X			
D.C.								
Fla.	3,105	X	X		X	X	X	CMV, HSV, zoster, chlamydia
Ga.	2,816	X			X	X	X	Venereal, Ocular, Urinary
Md.	11,204	X	X		X	X	X	Congenital, CNS Neurotropic
N.C.	4,967	X	X		X	X	X	
S.C.	7,400	X	X		X	X	X	
Va.								
W.Va.								
EAST SOUTH CENTRAL*	2,476							
Ala.	10				X			Autopsy material
Ky.	400	X	X		X		X	
Miss.								
Tenn.	2,066	X			X		X	
WEST SOUTH CENTRAL*	15,674							
Ark.	8							
La.	18	X			X	X		Spinal fluid, urine, autopsy
Okla.	1,614	X			X	X	X	
Tex.	14,034	X	X		X	X	X	
MOUNTAIN*	11,653							
Ariz.	4,735	X	X		X		X	Central nervous system
Colo.								
Ida.	2,490				X		X	
Mont.								
Nev.								Autopsy, biopsy, herpes culture
N.M.	1,079	X			X		X	CMV, Herpes
Utah	3,349	X	X		X		X	
Wyo.								
PACIFIC*	9,779							
Alaska	5,459	X	X		X		X	Herpes Tissue, fluids, exudates, misc. Chlamydia-psittacosis (birds)
Cal.								
Hawaii	2,533	X			X		X	
Ore.	1,337	X			X		X	
Wash.	450	X	X		X		X	
TERRITORIES*	0							
Guam								
P.R.								
V.I.								



TABLE 4-17  
IV. VIROLOGY  
B. Viral Isolation Specimens-Continued

Lab & Region	Number of Specimens	Procedures Used										
		Tissue Culture Hosts	Eggs	Animal Hosts	HI/HA	CF	Neutralization Tests	FA-Drig. Spec.	FA-Other	HAd/HAd	Other	
TOTAL*	152,740											
Average*	4,120											
NEW ENGLAND*	13,195											
Conn.	9,934	X	X	X	X	X	X	X	X	X	X	ELISA direct, PAP
Mass.	3,199											
Me.												
N.H.												
R.I.												
Vt.	62											
MIDDLE ATLANTIC*	9,293											
N.J.	8,230	X	X	X	X	X	X	X	X	X	X	Interference/interference inhibition
N.Y.												
Pa.	1,063	X	X	X	X	X	X	X	X	X	X	
EAST NORTH CENTRAL*	42,530											
Ill.	1,866	X			X							
Ind.	1,030	X			X	X	X	X				
Mich.	6,086	X	X	X	X	X	X	X	X	X	X	
Ohio	22,855	X	X	X	X	X	X	X	X	X	X	
Wis.	10,683	X	X	X	X	X	X	X	X	X	X	EIA
WEST NORTH CENTRAL*	17,084											
Ia.	9,873	X	X	X	X	X	X	X	X	X	X	EIA Rotavirus
Kans.	1,415	X	X	X	X	X	X	X				ELISA
Minn.	3,868	X			X		X				X	
Mo.	1,143	X	X	X	X	X	X	X	X	X	X	
Nebr.												
N.D.	129	X	X		X	X	X	X	X	X		
S.D.	656	X	X	X	X	X	X	X	X	X	X	
SOUTH ATLANTIC*	31,058											
Del.	1,564	X	X	X	X	X	X	X	X	X	X	
D.C.												
Fla.	3,105	X	X	X	X	X	X	X	X	X	X	Direct electron and immunoelectron microscopy
Ge.	2,816	X	X		X	X	X	X	X	X	X	ELISA
Md.	11,204	X	X	X	X	X	X	X	X	X	X	Mycoplasma (Bi-phasic media)
N.C.	4,957	X	X	X	X	X	X	X	X	X	X	
S.C.	7,400	X	X	X	X	X	X	X	X	X	X	
Va.												
W.Va.												
EAST SOUTH CENTRAL*	2,476											
Ala.	10											
Ky.	400	X			X	X	X	X				
Miss.		X		X	X	X	X		X		X	
Tenn.	2,056	X	X	X	X	X	X				X	
WEST SOUTH CENTRAL*	15,874											
Ark.	8								X			
La.	18		X	X	X	X					X	Electron microscopy
Okl.	1,614	X	X	X	X	X	X	X	X	X	X	
Tex.	14,034	X	X	X	X	X	X	X	X	X	X	
MOUNTAIN*	11,853											
Ariz.	4,735	X	X					X				
Colo.												
Ida.	2,490	X	X		X	X						
Mont.												
Nev.												
N.M.	1,079	X		X	X	X	X	X	X	X	X	
Utah	3,345	X	X	X	X	X	X	X	X	X	X	
Wyo.												
PACIFIC*	9,779											
Alaska	5,459	X	X	X	X	X	X	X	X	X	X	
Cal.												
Hawaii	2,533	X	X		X	X	X	X	X	X	X	Maccniavello's stain
Ore.	1,337	X	X	X	X	X	X	X	X	X	X	
Wash.	450	X	X	X	X	X	X	X	X	X	X	
TERRITORIES*	0											
Cum.												
P.R.												
V.I.												

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

Lab & Region	Number of Specimens	Type of Specimens			Procedures Used		
		Tick	Other	Hemo-lymph	FA	Other	
TOTAL*	13,188						
Average*	1,319						
NEW ENGLAND*	0						
Conn.							
Mass.							
Me.							
N.H.							
R.I.							
Vt.							
MIDDLE ATLANTIC*	44						
N.J.	44	X	X	X	X	Egg, Guinea Pig - inoculations, Gimenez stain	
N.Y.							
Pa.							
EAST NORTH CENTRAL*	2,871						
Ill.							
Ind.							
Mich.							
Ohio	2,871	X		X	X		
Wisc.							
WEST NORTH CENTRAL*	46						
Ia.							
Kans.							
Minn.							
Mo.							
Nebr.							
N.D.	15		X				
S.D.	31		X		X	CF	
SOUTH ATLANTIC*	233						
Del.							
D.C.							
Fla.							
Ga.	14	X				Tick identification (species)	
Md.	41	X	X	X	X	Encephalitis, ELISA	
N.C.							
S.C.	178	X		X	X		
Va.							
W.Va.							
EAST SOUTH CENTRAL*	0						
Ala.							
Ky.							
Miss.							
Tenn.							
WEST SOUTH CENTRAL*	9,985						
Ark.	11	X		X			
La.							
Okla.							
Tex.	9,974	X	X	X	X		
MOUNTAIN*	0						
Ariz.							
Colo.							
Ida.							
Mont.							
Nev.							
N.M.							
Utah							
Wyo.							
PACIFIC*	9						
Alaska							
Cal.							
Hawaii							
Ore.							
Wash.	9	X	X				
TERRITORIES*	0						
Guam							
P.R.							
V.I.							

TABLE 4-19  
IV. VIROLOGY  
D. Other Virology Specimens

Lab & Region	Number of Specimens	Disease Entity -- Procedures Used
TOTAL*	62,843	
Average*	3,928	
NEW ENGLAND*	0	
Conn.		
Mass.		
Me.		
N.H.		
R.I.		
Vt.		
MIDDLE ATLANTIC*	3,472	
N.J.	3,472	Hepatitis, Rotavirus - EIA/RIA
N.Y.		
Pa.		
EAST NORTH CENTRAL*	9,127	
Ill.	8,442	Respiratory & central nervous system - CF; measles, rubella, arbovirus, arbovirus-avian serology - HAI
Ind.		
Mich.	58	Referred viruses - culture, serology
Ohio	627	Arthropods
Wisc.		
WEST NORTH CENTRAL*	16,968	
Ia.		
Kans.	868	Hepatitis B, ELISA surface Ag
Minn.		
Mo.		
Nebr.		
N.D.	16,100	Rubella, Herpes, Cytomegalovirus, Influenza, WEE, misc. Rubazyme, IFA, EIA, CF, HAI
S.D.		
SOUTH ATLANTIC*	4,493	
Del.	273	Chlamydia - FA; Rotavirus - EIA; Herpes - FA
D.C.		
Fla.		
Ga.	562	Herpes - FA, Chlamydia - Gimenez
Md.		
N.C.	1,211	Chlamydia - tissue culture
S.C.	2,447	Herpes - direct FA on prepared slides
Va.		
W.Va.		
EAST SOUTH CENTRAL*	25	
Ala.		
Ky.	25	Herpes - direct FA
Miss.		
Tenn.		
WEST SOUTH CENTRAL*	8,020	
Ark.		
La.		
Okla.	100	Influenza - HI
Tex.	7,920	Chlamydia - culture, staining
MOUNTAIN*	16,128	
Ariz.		
Colo.		
Ida.		
Mont.		
Nev.		
N.M.	15,503	Rubella-enzyme immunoassay, hepatitis A&B-radioimmunoassay
Utah	625	NGU-chlamydia trachomatis-TC, FA, icidine, psittacosis-mice, TC, Geimsa
Wyo.		
PACIFIC*	0	
Alaska		
Cal.		
Hawaii		
Dre.		
Wash.		
TERRITORIES*	4,610	
Guam		
P.R.	4,610	Rubella
V.I.		

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

Lab & Region	Total Immunology Specimens	A Syphilis Serology	B Bacterial Serology	C Fungal Serology	D Parasitic Serology	E Viral and Rickettsial Serology	F Other
TOTAL*	5,121,431	3,841,356	58,189	71,106	119,151	1,017,347	14,282
Average*	124,913	93,692	1,455	2,452	3,972	25,434	1,587
NEW ENGLAND*	315,158	249,395	20,986	1,454	4,267	38,352	704
Conn.	70,303	44,242	3,261	882	1,759	19,999	160
Mass.	142,113	131,701	160	522	2,060	7,650	
Me.	0						
N.H.	5,649	5,649					
R.I.	70,784	52,830	17,484		34	436	
Vt.	26,309	14,973	81	50	394	10,267	544
MIDDLE ATLANTIC*	192,062	148,847	1,332	1,872	1,972	38,039	0
N.J.	188,473	148,721	189	1,721	1,714	36,128	
N.Y.	0						
Pa.	3,589	126	1,143	151	258	1,911	
EAST NORTH CENTRAL*	506,404	266,045	9,521	20,390	23,205	165,938	1,305
Ill.	69,179	56,208	55	11,746	956	214	
Ind.	36,049	23,778	663	2,095	952	8,561	
Mich.	204,636	128,587	5,278	2,541	4,323	63,907	
Ohio	53,332	23,193	159	1,341	1,687	25,647	1,305
Wisc.	143,206	34,279	3,366	2,667	15,287	87,609	
WEST NORTH CENTRAL*	335,200	194,748	9,714	12,683	6,506	110,411	1,138
Ia.	95,286	33,457	6,002	5,757	4,029	46,041	
Kans.	61,042	42,582	433	834		17,193	
Minn.	57,714	36,917	928	3,251	1,378	15,240	
Mo.	58,932	45,110	2,092	2,763	1,099	7,868	
Nebr.	0						
N.D.	42,342	24,967	137			16,100	1,138
S.D.	19,884	11,715	122	78		7,969	
SOUTH ATLANTIC*	1,643,713	1,262,069	7,811	7,113	24,462	336,506	5,752
Del.	28,443	22,189	214			937	5,103
D.C.	0						
Fla.	554,822	480,428	2,535		1,186	70,673	
Ga.	333,102	277,383	110	1,002	1,549	53,058	
Md.	352,766	211,767	3,018	2,310	17,427	117,595	649
N.C.	206,355	146,901	1,303	2,302	2,934	52,915	
S.C.	126,178	96,543	509	1,308	921	26,897	
Va.	0						
W.Va.	42,047	26,858	122	191	445	14,431	
EAST SOUTH CENTRAL*	710,037	602,077	1,455	8,197	1,775	95,585	948
Ala.	260,116	236,364	705	5,766	958	16,323	
Ky.	57,216	34,461	252		817	21,686	
Miss.	221,124	196,773	416	1,386		22,549	
Tenn.	171,581	134,479	82	1,045		35,027	948
WEST SOUTH CENTRAL*	1,077,695	891,707	4,981	14,599	11,581	150,447	4,380
Ark.	93,237	89,603	534	2,112	179	809	
La.	192,444	127,545	598	1,490	4,301	58,510	
Okla.	81,468	77,546	803			3,119	
Tex.	710,546	597,013	3,046	10,997	7,101	88,009	4,380
MOUNTAIN*	133,891	109,018	1,457	4,565	1,304	17,492	55
Ariz.	42,043	26,013	20	4,469	469	11,072	
Colo.	0						
Ida.	9,888	8,012	142		248	1,486	
Mont.	0						
Nev.	0						
N.M.	63,964	58,696	1,173	96	480	3,464	55
Utah	17,996	16,297	122		107	1,470	
Wyo.	0						
PACIFIC*	207,271	117,450	932	233	44,079	44,577	0
Alaska	62,620	37,724	181			24,715	
Cal.	0						
Hawaii	31,308	23,029	244			8,035	
Ore.	85,884	32,467	450	233	44,079	8,655	
Wash.	27,459	24,230	57			3,172	
TERRITORIES*	0	0	0	0	0	0	0
Guam	0						
P.R.	0						
V.I.	0						

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

Lab & Region	Number of Specimens	Procedures Used												
		VORL	RPR	ART	USR	RST	FTA-ABS	AFTA-ABS	FTA-ABS (IgM)	DFATP	PHA-TP	Dark-Field	Other	
TOTAL*	3,841,358													
Average*	93,692													
NEW ENGLAND*	249,395													
Conn.	44,242	X	X	X			X	X				X		
Mass.	131,701	X	X					X						
Me.	5,849	X						X					X	
N.H.	52,830	X	X					X						
R.I.	14,973	X	X	X				X			X		X	
Vt.														
MIDDLE ATLANTIC*	148,847													
N.J.	148,721	X	X					X				X		HATTIS
N.Y.														
Pa.	128	X	X					X						
EAST NORTH CENTRAL*	286,045													
Ill.	58,208	X	X					X				X		
Ind.	23,776	X	X					X						
Mich.	128,587	X						X			X			HATTIS
Ohio	23,193	X	X					X			X	X		
Wis.	34,279	X						X			X	X	X	
WEST NORTH CENTRAL*	194,748													
Ill.	33,457	X	X		X			X			X			HATTIS, spinal fluid
Kans.	42,582	X						X			X			
Minn.	36,917	X	X		X			X			X			
Mo.	45,110	X	X					X			X			
Nebr.														
N.D.	24,987	X	X					X				X		
S.D.	11,715	X	X									X		
SOUTH ATLANTIC*	1,262,069													
Del.	22,199	X	X					X				X		
D.C.														
Fla.	480,429	X	X					X			X			
Ga.	277,383	X	X					X						
Ms.	211,787	X	X					X			X		X	
N.C.	148,901	X						X			X			
S.C.	96,543	X	X					X			X			
Va.														
W.Va.	28,858	X	X					X				X		
EAST SOUTH CENTRAL*	602,077													
Ala.	236,364	X	X					X			X			
Ky.	34,481	X	X					X						
Miss.	196,773	X	X					X						
Tenn.	134,479		X					X			X			
WEST SOUTH CENTRAL*	891,707													
Ark.	89,603	X						X			X			
La.	127,545	X						X			X			
Okla.	77,546	X	X					X						
Tex.	597,013	X	X					X			X	X		
MOUNTAIN*	109,018													
Ariz.	26,013	X						X				X		
Colo.														
Ida.	8,012	X	X		X			X				X		Rubacell screens
Mont.														
Nev.														
N.M.	58,896	X	X					X						
Utah	18,297	X	X					X						
Wyo.														
PACIFIC*	117,450													
Alaska	37,724	X	X					X			X	X		
Cal.														
Hawaii	23,029	X	X					X					X	
Ore.	32,467	X	X		X			X			X		X	
Wash.	24,230	X	X						X				X	
TERRITORIES*	0													
Guam														
P.R.														
V.I.														

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

Lab & Region	Number of Specimens	Types of Specimens						Other
		Brucel- losis	Tularemia	Strept. Anti- bodies	Lepto- spirosis	Salmo- nellosis		
TOTAL*	58,189							
Average*	1,455							
NEW ENGLAND*	20,986							
Conn.	3,261	X	X	X	X	X	Legionella pneumophila, Bordetella pertussis, (leptospirosis to CDC)	
Mass.	160	X	X					
Me.								
N.H.								
R.I.	17,484	X				X		
Vt.	81	X	X			X	Febriles, Legionnaires'	
MIDDLE ATLANTIC*	1,332							
N.J.	189	X	X		X			
N.Y.								
Pa.	1,143	X	X		X		Legionellosis	
EAST NORTH CENTRAL*	9,521							
Ill.	55	X	X					
Ind.	663	X	X		X	X		
Mich.	5,278	X	X		X			
Ohio	159	X	X		X		Legionellosis, Pertussis	
Wisc.	3,366	X	X	X		X		
WEST NORTH CENTRAL*	9,714							
Ia.	6,002	X	X	X	X			
Kans.	433	X	X		X			
Minn.	928	X	X		X		Legionnaires'	
Mo.	2,092	X	X				Weil-Felix	
Nebr.							Legionnaires', cryptococcus, amebiasis	
N.D.	137	X	X	X		X		
S.D.	122	X	X			X		
SOUTH ATLANTIC*	7,811							
Del.	214					X		
D.C.								
Fla.	2,535	X			X			
Ga.	110	X	X				Legionella	
Md.	3,018	X	X	X	X	X		
N.C.	1,303	X	X	X			Pertussis, Pasteurella multocida, Tetanus antitoxin, Diphtheria antitoxin, Legionella	
S.C.	509	X	X		X			
Va.								
W.Va.	122						Legionella	
EAST SOUTH CENTRAL*	1,455							
Ala.	705	X	X					
Ky.	252	X	X			X	Legionella pneumophila	
Miss.	416	X	X	X			Typhoid O, H, Vi; Legionnaires'	
Tenn.	82	X	X					
WEST SOUTH CENTRAL*	4,981							
Ark.	534	X	X		X	X		
La.	598	X	X		X		Legionella	
Okla.	803	X	X				Legionella	
Tex.	3,046	X	X		X		Legionella	
MOUNTAIN*	1,457							
Ariz.	20	X	X					
Colo.								
Ida.	142	X	X					
Mont.								
Nev.								
N.M.	1,173	X	X		X			
Utah	122	X	X				Plague, Legionella IFA, vibrio fetus	
Wyo.							Legionella	
PACIFIC*	932							
Alaska	181	X	X		X	X		
Cal.								
Hawaii	244	X	X		X			
Ore.	450	X	X		X			
Wash.	57	X	X		X			
TERRITORIES*	0							
Guam								
P.R.								
V.I.								

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

Lab & Region	Number of Specimens	Types of Specimens							Other
		Blasto- mycosis	Cocci- dioido- mycosis	Histo- plasmosis	Crypto- coccosis	Asper- gillosis	Candi- diasis		
TOTAL*	71,106								
Average*	2,452								
NEW ENGLAND*	1,454								
Conn.	882	X	X	X	X	X	X	X	(Others referred to CDC)
Mass.	522					X	X		
Me.									
N.H.									
R.I.									
Vt.	50	X	X	X					
MIDDLE ATLANTIC*	1,872								
N.J.	1,721	X	X	X	X	X	X	X	
N.Y.									
Pa.	151	X	X	X	X	X	X	X	
EAST NORTH CENTRAL*	20,390								
Ill.	11,746	X	X	X					
Ind.	2,095	X	X	X	X	X	X	X	
Mich.	2,541	X	X	X					
Ohio	1,341	X	X	X	X	X	X		
Wisc.	2,667	X	X	X	X	X			
WEST NORTH CENTRAL*	12,683								
Ia.	5,757	X	X	X	X				
Kans.	834	X	X	X					
Minn.	3,251	X	X	X	X	X	X	X	Sporotrichosis, exoantigen
Mo.	2,763	X	X	X	X				
Nebr.									
N.D.									
S.D.	78	X	X	X	X				
SOUTH ATLANTIC*	7,113								
Del.									
D.C.									
Fla.									
Ga.	1,002	X	X	X					
Md.	2,310	X	X	X	X	X	X	X	
N.C.	2,302	X	X	X	X	X	X	X	
S.C.	1,308	X	X	X	X	X	X	X	Sporotrichosis
Va.									
W.Va.	191	X	X	X	X	X	X	X	
EAST SOUTH CENTRAL*	8,197								
Ala.	5,766	X	X	X			X		
Ky.									
Miss.	1,386	X	X	X					
Tenn.	1,045			X					
WEST SOUTH CENTRAL*	14,599								
Ark.	2,112	X	X	X	X	X	X		
La.	1,490	X	X	X	X				
Okla.									
Tex.	10,997	X	X	X	X	X			
MOUNTAIN*	4,565								
Ariz.	4,469		X						
Colo.									
Ida.									
Mont.									
Nev.									
N.M.	96	X	X	X	X	X	X	X	Fungal immunodiffusion procedure
Utah									
Wyo.									
PACIFIC*	233								
Alaska									
Cal.									
Hawaii									
Ore.	233	X	X	X					Sporotrichosis, candidiasis
Wash.									
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

TABLE 4-24  
 V. IMMUNOLOGY  
 D. Parasitic Serology Specimens

Lab & Region	Number of Specimens	Types of Specimens						Other
		Trichi- nosis	Toxoplas- mosis	Amebi- asis	Echino- coccosis	Trypano- somi- asis		
TOTAL*	119,151							
Average*	3,972							
NEW ENGLAND*	4,267							
Conn.	1,759	X	X	X	X	X	(Others referred to CDC)	
Mass.	2,080	X	X	X	X	X	Toxocara canis, Schistosomiasis, Cystocercosis Babesiosis, Pneumocystosis	
Me.								
N.H.								
R.I.	34		X					
Vt.	394	X	X					
MIDDLE ATLANTIC*	1,972							
N.J.	1,714	X	X	X				
N.Y.								
Pa.	258	X	X	X	X	X		
EAST NORTH CENTRAL*	23,205							
Ill.	956		X					
Ind.	952	X	X	X				
Mich.	4,323		X					
Ohio	1,687		X	X				
Wisc.	15,287		X					
WEST NORTH CENTRAL*	6,506							
Ia.	4,029	X	X	X				
Kans.								
Minn.	1,378		X					
Mo.	1,099		X					
Nebr.								
N.D.								
S.D.								
SOUTH ATLANTIC*	24,462							
Del.								
D.C.								
Fla.	1,186		X					
Ga.	1,549		X					
Md.	17,427	X	X	X	X		Immunoglobulins (IFA)	
N.C.	2,934		X	X				
S.C.	921		X	X				
Va.								
W.Va.	445		X					
EAST SOUTH CENTRAL*	1,775							
Ala.	958		X					
Ky.	817		X					
Miss.								
Tenn.								
WEST SOUTH CENTRAL*	11,581							
Ark.	179	X	X	X	X	X		
La.	4,301		X	X				
Okla.								
Tex.	7,101		X	X				
MOUNTAIN*	1,304							
Ariz.	469		X					
Colo.								
Ida.	248		X					
Mont.								
Nev.								
N.M.	480		X	X			Heartworm (animal)	
Utah	107		X					
Wyo.								
PACIFIC*	44,079							
Alaska								
Cal.								
Hawaii								
Ore.	44,079		X					
Wash.								
TERRITORIES*	0							
Guam								
P.R.								
V.I.								



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

Lab & Region	Number of Specimens	Procedures Used									
		CF	HI	HAdi	Immuno-diffusion (Agar Gel)	Neut. (Tissue Cul.)	Neut. Rabies	FA	Radio-immuno-assay	Passive Hemagglutination	
TOTAL*	1,017,347										
Average*	25,434										
NEW ENGLAND*	38,352										
Conn.	19,999	X	X	X		X		X	X	X	
Mass.	7,650	X	X			X		X		X	
Me.											
N.H.											
R.I.	436		X	X							
Vt.	10,267	X	X	X							
MIDDLE ATLANTIC*	38,039										
N.J.	36,128	X	X				X		X		
N.Y.											
Pa.	1,911	X	X		X			X			
EAST NORTH CENTRAL*	185,938										
Ill.	214	X									
Ind.	8,561									X	
Mich.	63,907	X	X			X			X		
Ohio	25,647	X	X			X		X			
Wisc.	87,609	X	X			X		X	X	X	
WEST NORTH CENTRAL*	110,411										
Ia.	46,041	X	X			X			X		
Kans.	17,193	X	X			X		X			
Minn.	15,240										
Mo.	7,868	X	X	X	X	X		X	X	X	
Nebr.											
N.D.	16,100	X	X					X			
S.D.	7,969	X	X				X	X			
SOUTH ATLANTIC*	336,506										
Del.	937	X	X								
D.C.											
Fla.	70,673	X	X			X					
Ga.	53,058	X	X			X		X			
Md.	117,595	X	X	X	X	X	X	X	X	X	
N.C.	52,915	X	X	X	X	X		X			
S.C.	26,897	X	X	X	X				X		
Va.											
W.Va.	14,431	X						X			
EAST SOUTH CENTRAL*	95,585										
Ala.	16,323	X	X								
Ky.	21,686	X	X								
Miss.	22,549										
Tenn.	35,027	X	X								
WEST SOUTH CENTRAL*	150,447										
Ark.	809	X	X					X	X		
La.	58,510	X	X							X	
Okla.	3,119	X									
Tex.	88,009	X	X	X				X	X	X	
MOUNTAIN*	17,492										
Ariz.	11,072	X	X								
Colo.											
Ida.	1,486	X	X	X	X					X	
Mont.											
Nev.											
N.M.	3,464	X	X	X		X		X	X		
Utah	1,470	X	X					X			
Wyo.											
PACIFIC*	44,577										
Alaska	24,715	X	X	X	X	X	X				
Cal.											
Hawaii	8,035	X	X	X	X	X		X		X	
Ore.	8,655	X	X	X	X	X	X		X		
Wash.	3,172	X	X								
TERRITORIES*	0										
Guam											
P.R.											
V.I.											

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

Lab & Region	Number of Specimens	Procedures Used					Other
		Reverse Passive Hemagglutination	OX-Cell Hemolysin	Slide Agglutination	Heterophile Tests		
TOTAL*	1,017,347						
Average*	25,434						
NEW ENGLAND*	38,352						
Conn.	19,999	X	X				ELISA
Mass.	7,650		X				Latex agglutination
Me.							
N.H.							
R.I.	436			X		X	ELISA
Vt.	10,267						
MIDDLE ATLANTIC*	38,039						
N.J.	36,128					X	ELISA
N.Y.							
Pa.	1,911						
EAST NORTH CENTRAL*	185,938						
Ill.	214						
Ind.	8,561		X				
Mich.	63,907		X				Immune adherence hemagglutination
Ohio	25,647		X	X		X	IFA
Wisc.	87,609		X				EIA, RFFIT (rabies), cold agglutinins
WEST NORTH CENTRAL*	110,411						
Ia.	46,041						ELISA
Kans.	17,193			X			Rubella-ELISA (IGG), Microtube agglutination
Minn.	15,240		X				Rubella EIA
Mo.	7,868		X	X		X	
Nebr.							
N.D.	16,100		X	X		X	Rubazyme
S.D.	7,969						ELISA
SOUTH ATLANTIC*	336,506						
Del.	937						
D.C.							
Fla.	70,673						
Ga.	53,058			X			ELISA
Md.	117,595	X	X	X		X	
N.C.	52,915		X				
S.C.	26,897		X	X		X	Enzyme immunoassay
Va.							
W.Va.	14,431						ELISA
EAST SOUTH CENTRAL*	95,585						
Ala.	16,323						Rubella EIA
Ky.	21,686			X		X	
Miss.	22,549			X			ELISA
Tenn.	35,027						Latex agglutination, Enzyme immunoassay
WEST SOUTH CENTRAL*	150,447						
Ark.	809			X		X	
La.	58,510						HI - Encephalitis; Enzyme Immunoassay
Okla.	3,119						Rickettsia-indirect FA, RMSF-latex
Tex.	88,009	X		X			
MOUNTAIN*	17,492						
Ariz.	11,072						Rubella-PHA, hepatitis
Colo.							
Ida.	1,486						
Mont.							
Nev.							
N.M.	3,464						Enzyme immunoassay, culture
Utah	1,470			X		X	Latex and tube agglutination
Wyo.							
PACIFIC*	44,577						
Alaska	24,715			X			Rubazyme-IGG, Rubazyme-IGM, Hepatitis-IRA, ELISA
Cal.							
Hawaii	8,035	X					
Ore.	8,655			X		X	ELISA
Wash.	3,172						
TERRITORIES*	0						
Guam							
P.R.							
V.I.							

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

Lab & Region	Number of Specimens	Disease Entity -- Procedures Used
TOTAL*	14,282	
Average*	1,587	
NEW ENGLAND*	704	
Conn.	160	(Specimens referred elsewhere)
Mass.		
Me.		
N.H.		
R.I.		
Vt.	544	Legionellosis - IFA
MIDDLE ATLANTIC*	0	
N.J.		
N.Y.		
Pa.		
EAST NORTH CENTRAL*	1,305	
Ill.		
Ind.		
Mich.		
Ohio	1,305	Legionnaires <sup>1</sup> - IFA
Wisc.		
WEST NORTH CENTRAL*	1,138	
Ia.		
Kans.		
Minn.		
Mo.		
Nebr.		
N.D.	1,138	
S.D.		
SOUTH ATLANTIC*	5,752	
Del.	5,103	Rubella - Rubascan
D.C.		
Fla.		
Ge.		
Md.	649	Complement, Autoimmune disease
N.C.		
S.C.		
Va.		
W.Va.		
EAST SOUTH CENTRAL*	948	
Ala.		
Ky.		
Miss.		
Tenn.	948	Legionnaires <sup>1</sup> - IFA
WEST SOUTH CENTRAL*	4,380	
Ark.		
La.		
Okla.		
Tex.	4,380	
MOUNTAIN*	55	
Ariz.		
Colo.		
Ida.		
Mont.		
Nev.		
N.M.	55	More pregnancy-condition not disease
Utah		Encephalitis in horses and cattle-CF test
Wyo.		
PACIFIC*	0	
Alaska		
Cal.		
Hawaii		
Ore.		
Wash.		
TERRITORIES*	0	
Guam		
P.R.		
V.I.		

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

Lab & Region	Total Hematology Specimens	A Hematology Specimens	B Immuno-hematology Specimens	C Hemoglobinopathy Specimens
TOTAL*	963,503	289,323	199,001	475,179
Average*	38,540	18,083	10,474	26,399
NEW ENGLAND*	6,595	2,450	0	4,145
Conn.	5,772	2,450		3,322
Mass.	0			
Me.	0			
N.H.	0			
R.I.	823			823
Vt.	0			
MIDDLE ATLANTIC*	771	739	8	24
N.J.	0			
N.Y.	0			
Pa.	771	739	8	24
EAST NORTH CENTRAL*	46,112	1,321	44,224	567
Ill.	0			
Ind.	0			
Mich.	1,321	1,321		
Ohio	567			567
Wisc.	44,224		44,224	
WEST NORTH CENTRAL*	20,341	0	7,837	12,504
Ia.	0			
Kans.	0			
Minn.	0			
Mo.	15,513		3,009	12,504
Nebr.	0			
N.D.	4,828		4,828	
S.D.	0			
SOUTH ATLANTIC*	428,736	156,542	58,177	214,017
Del.	2,657	84		2,573
D.C.	0			
Fla.	134,768	59,715	17,825	57,228
Ga.	91,824	790	13,864	77,170
Md.	78,739	45,516	10,524	22,699
N.C.	55,737	2,107	9,834	43,796
S.C.	64,060	48,206	6,130	9,724
Va.	0			
W.Va.	951	124		827
EAST SOUTH CENTRAL*	147,238	26,233	34,722	86,283
Ala.	58,672		13,285	45,387
Ky.	6,705		6,705	
Miss.	81,861	26,233	14,732	40,896
Tenn.	0			
WEST SOUTH CENTRAL*	264,781	62,084	45,575	157,122
Ark.	15,817	3,041	4,366	8,410
La.	83,802		4,778	79,024
Okla.	4,362	6	4,356	
Tex.	160,800	59,037	32,075	69,688
MOUNTAIN*	8,359	3,963	3,879	517
Ariz.	0			
Colo.	0			
Ida.	5,643	3,963	1,680	
Mont.	0			
Nev.	0			
N.M.	2,716		2,199	517
Utah	0			
Wyo.	0			
PACIFIC*	0	0	0	0
Alaska	0			
Cal.	0			
Hawaii	0			
Ore.	0			
Wash.	0			
TERRITORIES*	40,570	35,991	4,579	0
Guam	0			
P.R.	40,570	35,991	4,579	
V.I.	0			

TABLE 4-28  
VI. HEMATOLOGY  
A. Hematology Specimens

Lab & Region	Number of Specimens	Hematocrit	Hemoglobin	Cell Count	Sed. Rate	Reticulo-cyte Count	Differ-entia	Pro-thrombin Time	Platelet Count	Other
TOTAL*	289,323									
Average*	18,083									
NEW ENGLAND*	2,450									
Conn.	2,450	X	X	X	X	X	X		X	CBC-Coulter 7 parameters
Mass.										
Me.										
N.H.										
R.I.										
Vt.										
MIDDLE ATLANTIC*	739									
N.J.										
N.Y.										
Pa.	739	X	X	X	X	X	X	X	X	
EAST NORTH CENTRAL*	1,321									
Ill.										
Ind.										
Mich.	1,321	X	X	X	X	X	X	X	X	
Ohio										
Wisc.										
WEST NORTH CENTRAL*	0									
Ia.										
Kans.										
Minn.										
Mo.										
Nebr.										
N.D.										
S.D.										
SOUTH ATLANTIC*	156,542									
Del.	84	X	X	X			X			
D.C.										
Fla.	59,715	X	X	X			X			
Ga.	790	X	X	X			X			
Md.	45,516	X	X	X	X	X	X	X	X	L. E. Prep, Spinal fluid WBC
N.C.	2,107	X	X	X			X			
S.C.	48,206	X	X	X	X	X	X	X	X	
Va.										
W.Va.	124	X	X	X			X			
EAST SOUTH CENTRAL*	26,233									
Ala.										
Ky.										
Miss.	26,233	X	X	X						MCV, MCH, MCHC
Tenn.										
WEST SOUTH CENTRAL*	62,064									
Ark.	3,041	X		X			X			
La.										
Okla.	6	X		X	X		X		X	
Tex.	59,037		X							
MOUNTAIN*	3,963									
Ariz.										
Colo.										
Ida.	3,963	X	X	X	X					
Mont.										
Nev.										
N.M.										
Utah										
Wyo.										
PACIFIC*	0									
Alaska										
Cal.										
Hawaii										
Ore.										
Wash.										
TERRITORIES*	35,991									
Guam										
P.R.	35,991	X	X	X	X	X	X	X	X	L.E. cell preparation, ANA
V.I.										

TABLE 4-29  
VI. HEMATOLOGY  
B. Immunohematology Specimens

Lab & Region	Number of Specimens	Blood Grouping	Blood Typing	Other Tests
TOTAL*	199,001			
Average*	10,474			
NEW ENGLAND*	0			
Conn.				
Mass.				
Me.				
N.H.				
R.I.				
Vt.				
MIDDLE ATLANTIC*	8			
N.J.				
N.Y.				
Pa.	8	X	X	
EAST NORTH CENTRAL*	44,224			
Ill.				
Ind.				
Mich.				
Ohio				
Wisc.	44,224	X	X	
WEST NORTH CENTRAL*	7,837			
Ia.				
Kans.				
Minn.				
Mo.	3,009	X	X	
Nebr.				
N.D.	4,828			
S.D.				
SOUTH ATLANTIC*	58,177			
Del.				
D.C.				
Fla.	17,825		X	X
Ge.	13,864		X	
Md.	10,524	X	X	
N.C.	9,834	X	X	X
S.C.	6,130			X
Va.				
W.Va.				
EAST SOUTH CENTRAL*	34,722			Rh antibody and titer
Ala.	13,285			Antibody identification; Indirect coombs identification and titration
Ky.	6,705		X	
Miss.	14,732	X	X	
Tenn.				Rh antibody and titer
WEST SOUTH CENTRAL*	45,575			
Ark.	4,366	X	X	Screening only - Lewis antibodies
La.	4,778		X	
Okl.	4,356	X	X	
Tex.	32,075	X	X	
MOUNTAIN*	3,879			
Ariz.				Grouping & typing of body fluids - Lewis typing, Lattes A-1, A-3 (ABO & RH), PGM, etc.
Colo.				
Ida.	1,680	X	X	
Mont.				Antibody screening tests
Nev.				
N.M.	2,199	X	X	
Utah				
Wyo.				
PACIFIC*	0			
Alaska				
Cal.				
Hawaii				
Ore.				
Wash.				
TERRITORIES*	4,579			DU, indirect Coombs
Guam				
P.R.	4,579		X	
V.I.				

TABLE 4-30  
VI. HEMATOLOGY  
C. Hemoglobinopathy Specimens

Lab & Region	Number of Specimens	Procedures used							Other
		Hemoglobin: Cellulose Acetate Electro.	Citrate Agar Electro-phoresis	Solubility Testing	Fetal Hemoglobin Assay	Hemoglobin A2 Quantitation	Densitometry		
TOTAL*	475,179								
Average*	26,399								
NEW ENGLAND*	4,145								
Conn.	3,322	X	X	X	X	X	X	X	CBC-Thalassemia Screening
Mass.									
Me.									
N.H.									
R.I.	823	X		X					
Vt.									
MIDDLE ATLANTIC*	24								
N.J.									
N.Y.									
Pa.	24	X					X		
EAST NORTH CENTRAL*	567								
Ill.									
Ind.									
Mich.									
Ohio	567	X	X	X					
Wisc.									
WEST NORTH CENTRAL*	12,504								
Ia.									
Kans.									
Minn.									
Mo.	12,504	X	X	X					
Nebr.									
N.D.									
S.D.									
SOUTH ATLANTIC*	214,017								
Del.	2,573	X		X				X	
D.C.									
Fla.	57,228	X	X	X	X	X	X		
Ga.	77,170	X	X	X	X	X	X		
Md.	22,699	X	X	X	X	X	X	X	
N.C.	43,796	X	X	X	X	X	X	X	
S.C.	9,724	X	X	X					
Va.									
W.Va.	827	X	X	X					
EAST SOUTH CENTRAL*	86,283								
Ala.	45,387	X	X				X		Alkaline & Acid globin chain electrophoresis
Ky.									
Miss.	40,896	X	X						
Tenn.									
WEST SOUTH CENTRAL*	157,122								
Ark.	8,410	X							
La.	79,024	X	X					X	
Okla.									
Tex.	69,688	X	X	X	X	X		X	
MOUNTAIN*	517								
Ariz.									
Colo.									
Ida.									
Mont.									
Nev.									
N.M.	517	X	X	X				X	Protein electrophoresis (animal)
Utah									
Wyo.									
PACIFIC*	0								
Alaska									
Cal.									
Hawaii									
Ore.									
Wash.									
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

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

Lab & Region	Total Clinical Chemistry Specimens	A Clinical Chemistry Specimens	B Urinalysis Specimens	C Inborn Errors of Metabolism	D Multi-phasic Screening	E Other Clinical Chemistry
TOTAL*	5,723,838	401,412	91,335	4,953,307	271,970	5,814
Average*	154,698	19,115	6,089	150,100	38,853	1,938
NEW ENGLAND*	296,811	3,699	967	291,599	546	0
Conn.	88,385	3,699	967	83,173	546	
Mass.	166,000			166,000		
Me.	0					
N.H.	16,483			16,483		
R.I.	25,943			25,943		
Vt.	0					
MIDDLE ATLANTIC*	744,860	1,119	48	743,693	0	0
N.J.	403,435			403,435		
N.Y.	0					
Pa.	341,425	1,119	48	340,258		
EAST NORTH CENTRAL*	724,227	33,248	764	690,215	0	0
Ill.	203,150			203,150		
Ind.	0					
Mich.	237,830	1,846	764	235,220		
Ohio	175,992	217		175,775		
Wisc.	107,255	31,185		76,070		
WEST NORTH CENTRAL*	360,664	743	0	359,921	0	0
Ia.	26,267	725		25,542		
Kans.	67,416			67,416		
Minn.	81,709			81,709		
Mo.	143,000			143,000		
Nebr.	0					
N.D.	42,272	18		42,254		
S.D.	0					
SOUTH ATLANTIC*	1,201,122	150,247	40,632	861,996	148,221	26
Del.	436		436			
D.C.	0					
Fla.	401,899	66,046		220,297	115,556	
Ga.	137,605	13,606	471	123,502		26
Md.	199,611	44,585	20,333	134,693		
N.C.	216,407	11,593	58	174,062	30,694	
S.C.	142,092	8,846	19,160	114,086		
Va.	0					
W.Va.	103,072	5,571	174	95,356	1,971	
EAST SOUTH CENTRAL*	471,677	59,529	0	402,147	10,001	0
Ala.	198,785			198,785		
Ky.	113,453	9,561		103,892		
Miss.	59,969	49,968			10,001	
Tenn.	99,470			99,470		
WEST SOUTH CENTRAL*	1,339,351	113,573	39,972	1,066,816	113,202	5,788
Ark.	77,664	4,616	10	73,038		
La.	189,683	775	531	183,187	3,777	1,413
Okla.	116,759	1,997	1,811	108,576		4,375
Tex.	955,245	106,185	37,620	702,015	109,425	
MOUNTAIN*	135,508	144	0	135,364	0	0
Ariz.	0					
Colo.	0					
Ida.	317			317		
Mont.	0					
Nev.	0					
N.M.	52,416	144		52,272		
Utah	82,775			82,775		
Wyo.	0					
PACIFIC*	406,038	0	4,482	401,556	0	0
Alaska	0					
Cal.	0					
Hawaii	4,482		4,482			
Ore.	161,556			161,556		
Wash.	240,000			240,000		
TERRITORIES*	43,580	39,110	4,470	0	0	0
Guam	0					
P.R.	43,580	39,110	4,470			
V.I.	0					



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

Lab & Region	Number of Specimens	Types of Tests												
		Glucose	Cholesterol	BUN	Uric Acid	Transaminases	Alkaline Phosphatase	Total Proteins	Serum Iron	Iron Binding Capacity	Tri-glycerides	Lactic Acid	Bilirubin	T4, T3, T3 Uptake
TOTAL*	401,412													
Average*	19,115													
NEW ENGLAND*	3,689													
Conn.	3,689	X	X	X	X	X	X	X	X	X	X	X	X	X
Mass.														
Me.														
N.H.														
R.I.														
Vt.														
MIDDLE ATLANTIC*	1,119													
N.J.														
N.Y.														
Pa.	1,119	X	X	X	X	X	X	X	X	X	X	X	X	X
EAST NORTH CENTRAL*	33,248													
Ill.														
Ind.														
Mich.	1,846	X	X	X	X	X	X	X	X	X	X	X	X	X
Ohio	217	X	X	X	X	X	X	X	X	X	X	X	X	X
Wis.	31,185	X	X	X	X	X	X	X	X	X	X	X	X	X
WEST NORTH CENTRAL*	743													
La.	725													
Kans.														
Minn.														
Mo.														
Nebr.														
N.D.	18													
S.D.														
SOUTH ATLANTIC*	150,247													
Del.														
D.C.														
Fla.	66,046	X	X	X	X	X	X	X	X	X	X	X	X	X
Ga.	13,806	X	X	X	X	X	X	X	X	X	X	X	X	X
Id.	44,565	X	X	X	X	X	X	X	X	X	X	X	X	X
N.C.	11,593	X	X	X	X	X	X	X	X	X	X	X	X	X
S.C.	8,846	X	X	X	X	X	X	X	X	X	X	X	X	X
Va.														
W.Va.	5,571	X	X	X	X	X	X	X	X	X	X	X	X	X
EAST SOUTH CENTRAL*	59,529													
Ala.														
Ky.	9,561	X	X	X	X	X	X	X	X	X	X	X	X	X
Miss.														
Tenn.	49,968	X	X	X	X	X	X	X	X	X	X	X	X	X
WEST SOUTH CENTRAL*	113,573													
Ark.	4,616	X	X	X	X	X	X	X	X	X	X	X	X	X
La.	775	X	X	X	X	X	X	X	X	X	X	X	X	X
Okla.	1,997	X	X	X	X	X	X	X	X	X	X	X	X	X
Tex.	106,185	X	X	X	X	X	X	X	X	X	X	X	X	X
MOUNTAIN*	144													
Ariz.														
Colo.														
Ida.														
Mont.														
Nev.														
N.M.	144													
Utah														
Wyo.														
PACIFIC*	0													
Alaska														
Cal.														
Hawaii														
Ore.														
Wash.														
TERRITORIES*	39,110													
Guam														
P.R.	39,110	X	X	X	X	X	X	X	X	X	X	X	X	X
V.I.														

TABLE 4-32  
VII. CLINICAL CHEMISTRY  
A. Clinical Chemistry Specimens-Continued

Lab & Region	Number of Specimens	Type of Tests										Other	
		Sodium	Potassium	Phosphorous	Calcium	Creatinine	Acid Phosphatase	Albumin	Chloride	LDH			
TOTAL*	401,412												
Average*	19,115												
NEW ENGLAND*	3,699												
Conn.	3,699	X	X	X	X	X	X	X	X	X	X	X	HDL, amylase
Mass.													
Me.													
N.H.													
R.I.													
Vt.													
MIDDLE ATLANTIC*	1,119												
N.J.													
N.Y.													
Pa.	1,119	X	X	X	X	X	X	X	X	X	X	X	
EAST NORTH CENTRAL*	33,248												
Ill.													
Ind.													
Mich.	1,848	X	X					X			X		
Ohio	217												
Misc.	31,185	X	X	X	X	X	X		X	X	X	X	Lithium, Mg, gamma GT, amylase, HDL cholesterol, cortisol, vitamin B-12, folic acid, digoxin, TSH, ferritin
WEST NORTH CENTRAL*	743												
Ia.	725												Blood lead
Kans.													
Minn.													
Mo.													
Nebr.													
N.D.	18					X							Magnesium
S.D.													
SOUTH ATLANTIC*	150,247												
Del.													
D.C.													
Fla.	66,046	X			X	X	X	X	X	X	X	X	
Ga.	13,606	X	X				X		X	X	X	X	Hemoglobin A1C, lithium
Md.	44,585	X	X	X	X	X	X		X	X	X	X	TSH
N.C.	11,593												
S.C.	8,848	X	X	X	X	X	X		X	X	X	X	Lithium
Va.													
W.Va.	5,571	X	X				X						
EAST SOUTH CENTRAL*	58,529												
Ala.													
Ky.	9,561	X	X	X	X	X	X	X	X	X	X	X	SGOT, HDL, Lithium, GGTP, SCPT, Amyl, CPK, HDL
Miss.	49,968												
Tenn.													
WEST SOUTH CENTRAL*	113,573												
Ark.	4,616	X	X		X	X	X	X	X	X	X	X	
La.	775						X						
Okla.	1,997												
Tex.	106,185												
MOUNTAIN*	144												
Ariz.													
Colo.													
Ida.													
Mont.													
Nev.													
N.M.	144							X					Cholinesterase, lithium in blood
Utah													
Wyo.													
PACIFIC*	0												
Alaska													
Cal.													
Hawaii													
Ore.													
Wash.													
TERRITORIES*	39,110												
Guam													
P.R.	39,110	X	X	X	X	X	X	X	X	X	X	X	Lithium, level of anticonvulsants
V.I.													

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

Lab & Region	Number of Specimens	Procedures used				Other
		Routine	Microscopic	Pregnancy Test		
TOTAL*	91,335					
Average*	6,089					
NEW ENGLAND*	967					
Conn.	967	X	X			
Mass.						
Me.						
N.H.						
R.I.						
Vt.						
MIDDLE ATLANTIC*	48					
N.J.						
N.Y.						
Pa.	48	X	X	X		
EAST NORTH CENTRAL*	764					
Ill.						
Ind.						
Mich.	764	X	X			
Ohio						
Wisc.						
WEST NORTH CENTRAL*	0					
Ia.						
Kans.						
Minn.						
Mo.						
Nebr.						
N.D.						
S.D.						
SOUTH ATLANTIC*	40,632					
Del.	436	X	X			
D.C.						
Fla.						
Ga.	471	X	X			
Md.	20,333	X	X	X		
N.C.	58	X	X			
S.C.	19,160	X	X	X		Sperm counts
Va.						
W.Va.	174	X	X			
EAST SOUTH CENTRAL*	0					
Ala.						
Ky.						
Miss.						
Tenn.						
WEST SOUTH CENTRAL*	39,972					
Ark.	10	X	X			
La.	531	X	X			
Okla.	1,811		X	X		Wet mount
Tex.	37,620	X	X	X		
MOUNTAIN*	0					
Ariz.						
Colo.						
Ida.						
Mont.						
Nev.						
N.M.						
Utah						
Wyo.						
PACIFIC*	4,482					
Alaska						
Cal.						
Hawaii	4,482					INH
Ore.						
Wash.						
TERRITORIES*	4,470					
Guam						
P.R.	4,470	X	X			
V.I.						

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

Lab & Region	Number of Specimens	Inborn Error Assays							
		PKU	Tyrosinemia	Galactosemia	MSUD	Hypothyroidism	Amino Acid Chromatography	Homocystinuria	Maternal PKU
TOTAL*	4,953,307								
Average*	150,100								
NEW ENGLAND*	291,599								
Conn.	83,173	X					X	X	
Mass.	166,000	X		X	X	X		X	
Me.									
N.H.	16,483	X							
R.I.	25,943	X	X					X	
Vt.									
MIDDLE ATLANTIC*	743,693								
N.J.	403,435	X		X		X		X	X
N.Y.									
Pa.	340,258	X				X			X
EAST NORTH CENTRAL*	690,215								
Ill.	203,150	X				X			
Ind.									
Mich.	235,220	X				X			
Ohio	175,775	X		X		X		X	X
Wisc.	76,070	X		X	X	X		X	
WEST NORTH CENTRAL*	359,921								
Ia.	25,542	X		X	X	X			
Kans.	67,416	X				X			
Minn.	81,709	X		X		X			
Mo.	143,000	X				X			X
Nebr.									
N.D.	42,254	X				X			X
S.D.									
SOUTH ATLANTIC*	861,996								
Del.									
D.C.									
Fla.	220,297	X			X	X			
Ga.	123,502	X	X	X	X	X		X	
Md.	134,693	X	X	X	X	X		X	X
N.C.	174,062	X	X			X			
S.C.	114,086	X				X			
Va.									
W.Va.	95,356	X		X		X	X		
EAST SOUTH CENTRAL*	402,147								
Ala.	198,785	X				X	X		X
Ky.	103,892	X		X		X			
Miss.									
Tenn.	99,470	X				X			
WEST SOUTH CENTRAL*	1,066,816								
Ark.	73,038	X				X			
La.	183,187	X				X			
Okla.	108,576	X				X			
Tex.	702,015	X		X		X			
MOUNTAIN*	135,364								
Ariz.									
Colo.									
Ida.	317	X	X	X	X	X		X	
Mont.									
Nev.									
N.M.	52,272	X		X	X	X		X	
Utah	82,775	X		X		X			
Wyo.									
PACIFIC*	401,556								
Alaska									
Cal.									
Hawaii									
Ore.	161,556	X	X	X	X	X	X	X	X
Wash.	240,000	X							
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

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

Lab & Region	Number of Specimens	Inborn Error Assays					Other
		Amino Acid Disorders	Organic Acid Disorders	Disulfidurias	Glucosurias	Histidinemia	
TOTAL*	4,953,307						
Average*	150,100						
NEW ENGLAND*	291,599						
Conn.	83,173						Tay-Sachs
Mass.	166,000						
Me.							
N.H.	16,483						
R.I.	25,943						
Vt.							
MIDDLE ATLANTIC*	743,693						
N.J.	403,435						
N.Y.							
Pa.	340,258						Plasma phenylalanine, plasma tyrosine, serum T4, TSH
EAST NORTH CENTRAL*	690,215						
Ill.	203,150						
Ind.							
Mich.	235,220						
Ohio	175,775						
Wisc.	76,070						
WEST NORTH CENTRAL*	358,921						
Ia.	25,542						
Kans.	67,416						
Minn.	81,709						
Mo.	143,000						
Nebr.							
N.D.	42,254						
S.D.							
SOUTH ATLANTIC*	861,996						
Del.							
D.C.							
Fla.	220,297						
Ge.	123,502						
Md.	134,693						Fluorometric assays
N.C.	174,062						
S.C.	114,085						
Va.							
W.Va.	95,356						
EAST SOUTH CENTRAL*	402,147						
Ala.	198,785	X					
Ky.	103,892						
Miss.							
Tenn.	99,470						
WEST SOUTH CENTRAL*	1,066,816						
Ark.	73,038						
La.	183,187						
Okla.	108,576						
Tex.	702,015						Hemoglobinopathy
MOUNTAIN*	135,364						
Ariz.							
Colo.							
Ida.	317	X					Alphafetoprotein determination
Mont.							
Nev.							
N.M.	52,272						
Utah	82,775						
Wyo.							
PACIFIC*	401,556						
Alaska							
Cal.							
Hawaii							
Ore.	161,556						
Wash.	240,000						
TERRITORIES*	0						
Guam							
P.R.							
V.I.							

TABLE 4-35  
VII. CLINICAL CHEMISTRY  
D. Multiphasic Screening Specimens

Lab & Region	Number of Specimens	Procedures Used			
		Single or Discrete Analyzer	2-Channel Analyzer	3-6 Channel Analyzer	7-12 Channel Analyzer
TOTAL*	271,970				
Average*	38,853				
NEW ENGLAND*	546				
Conn.	546	X	X	X	
Mass.					
Me.					
N.H.					
R.I.					
Vt.					
MIDDLE ATLANTIC*	0				
N.J.					
N.Y.					
Pa.					
EAST NORTH CENTRAL*	0				
Ill.					
Ind.					
Mich.					
Ohio					
Wisc.					
WEST NORTH CENTRAL*	0				
Ia.					
Kans.					
Minn.					
Mo.					
Nebr.					
N.D.					
S.D.					
SOUTH ATLANTIC*	148,221				
Del.					
D.C.					
Fla.	115,556	X			
Ga.					
Md.					
N.C.	30,694			X	X
S.C.					
Va.					
W.Va.	1,971				X
EAST SOUTH CENTRAL*	10,001				
Ala.					
Ky.					
Miss.	10,001				
Tenn.					
WEST SOUTH CENTRAL*	113,202				
Ark.					
La.	3,777	X			
Okla.					
Tex.	109,425	X			
MOUNTAIN*	0				
Ariz.					
Colo.					
Ida.					
Mont.					
Nev.					
N.M.					
Utah					
Wyo.					
PACIFIC*	0				
Alaska					
Cal.					
Hawaii					
Ore.					
Wash.					
TERRITORIES*	0				
Guam					
P.R.					
V.I.					

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

Lab & Region	Number of Specimens	Type -- Procedures Used
TOTAL*	5,814	
Average*	1,938	
NEW ENGLAND*	0	
Conn.		
Mass.		
Me.		
N.H.		
R.I.		
Vt.		
MIDDLE ATLANTIC*	0	
N.J.		
N.Y.		
Pa.		
EAST NORTH CENTRAL*	0	
Ill.		
Ind.		
Mich.		
Ohio		
Wisc.		
WEST NORTH CENTRAL*	0	
Ia.		
Kans.		
Minn.		
Mo.		
Nebr.		
N.D.		
S.D.		
SOUTH ATLANTIC*	26	
Del.		
D.C.		
Fla.		
Ga.	26	Blood - atomic absorption, lead
Md.		
N.C.		
S.C.		
Va.		
W.Va.		
EAST SOUTH CENTRAL*	0	
Ala.		
Ky.		
Miss.		Electrolytes - flame photometer and chloride meter
Tenn.		
WEST SOUTH CENTRAL*	5,788	
Ark.		
La.	1,413	RIA - Hepatitis
Okla.	4,375	Sickle Cell - Acetate and acid electrophoresis, solubility
Tex.		
MOUNTAIN*	0	
Ariz.		
Colo.		
Ida.		
Mont.		
Nev.		
N.M.		
Utah		
Wyo.		
PACIFIC*	0	
Alaska		
Cal.		
Hawaii		
Ore.		
Wash.		
TERRITORIES*	0	
Guam		
P.R.		
V.I.		

TABLE 4-37  
VIII. PATHOLOGY

Lab & Region	Total Pathology Specimens	Exfoliative Cytology Specimens	Cyto-genetic Specimens	Other Pathology Specimens	
				Number of Specimens	Types
TOTAL*	422,998	416,887	2,855	3,256	
Average*	47,000	59,555	952	1,085	
NEW ENGLAND*	0	0	0	0	
Conn.	0				
Mass.	0				
Me.	0				
N.H.	0				
R.I.	0				
Vt.	0				
MIDDLE ATLANTIC*	0	0	0	0	
N.J.	0				
N.Y.	0				
Pa.	0				
EAST NORTH CENTRAL*	87,369	85,193	2,176	0	
Ill.	0				
Ind.	0				
Mich.	0				
Ohio	0				
Wisc.	87,369	85,193	2,176		
WEST NORTH CENTRAL*	169	0	169	0	
Ia.	0				
Kans.	0				
Minn.	169		169		
Mo.	0				
Nebr.	0				
N.D.	0				
S.D.	0				
SOUTH ATLANTIC*	308,400	305,157	0	3,243	
Del.	35,637	32,748		2,889	Hemocult
D.C.	0				
Fla.	0				
Ga.	0				
Md.	60,822	60,822			
N.C.	156,240	156,240			
S.C.	0				
Va.	0				
W.Va.	55,701	55,347		354	Oral, breast & other
EAST SOUTH CENTRAL*	5,967	5,967	0	0	
Ala.	5,967	5,967			
Ky.	0				
Miss.	0				
Tenn.	0				
WEST SOUTH CENTRAL*	0	0	0	0	
Ark.	0				
La.	0				
Okla.	0				
Tex.	0				
MOUNTAIN*	21,093	20,570	510	13	
Ariz.	0				
Colo.	0				
Ida.	523		510	13	Buccal smears
Mont.	0				
Nev.	0				
N.M.	20,570	20,570			
Utah	0				
Wyo.	0				
PACIFIC*	0	0	0	0	
Alaska	0				
Cal.	0				
Hawaii	0				
Ore.	0				
Wash.	0				
TERRITORIES*	0	0	0	0	
Guam	0				
P.R.	0				
V.I.	0				



TABLE 4-38  
IX. ENVIRONMENTAL MICROBIOLOGY  
SUMMARY OF SPECIMENS BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Environmental Microbiology	A Water Samples	B Dairy Products Samples	C Food and Beverage Samples	D Other Micro Samples
TOTAL*	2,072,357	1,744,474	288,062	32,060	7,761
Average*	50,545	44,730	9,002	971.52	457
NEW ENGLAND*	69,677	51,125	10,796	6,813	943
Conn.	14,071	9,695	3,976	295	105
Mass.	3,987	102	2,276	920	689
Me.	0	0	0	0	0
N.H.	2,480	25	2,041	414	0
R.I.	19,695	11,985	2,503	5,142	65
Vt.	29,444	29,318	0	42	84
MIDDLE ATLANTIC*	7,915	5,065	2,509	314	27
N.J.	7,800	5,052	2,509	239	0
N.Y.	0	0	0	0	0
Pa.	115	13	0	75	27
EAST NORTH CENTRAL*	324,469	297,190	22,303	4,158	818
Ill.	41,847	32,624	7,400	1,005	818
Ind.	75,398	64,541	8,330	2,527	0
Mich.	104,284	98,319	5,486	469	0
Ohio	39,435	38,201	1,077	157	0
Wisc.	63,505	63,505	0	0	0
WEST NORTH CENTRAL*	240,696	221,425	11,367	4,826	3,078
Ia.	44,378	43,978	400	0	0
Kans.	47,496	45,791	0	0	1,705
Minn.	0	0	0	0	0
Mo.	102,768	95,687	2,405	4,676	0
Nebr.	0	0	0	0	0
N.D.	16,797	10,349	4,925	150	1,373
S.D.	29,257	25,620	3,637	0	0
SOUTH ATLANTIC*	424,429	387,004	32,354	4,294	777
Del.	13,770	12,149	1,405	203	13
D.C.	0	0	0	0	0
Fla.	228,065	223,538	3,217	1,310	0
Ga.	58	0	0	58	0
Md.	82,281	71,008	8,860	1,649	764
N.C.	55,010	54,407	0	603	0
S.C.	12,181	0	11,720	471	0
Va.	0	0	0	0	0
W.Va.	33,054	25,902	7,152	0	0
EAST SOUTH CENTRAL*	257,343	185,185	69,357	2,800	1
Ala.	99,376	77,846	21,012	518	0
Ky.	13,889	4,063	9,625	201	0
Miss.	78,994	59,237	19,590	166	1
Tenn.	65,084	44,039	19,130	1,915	0
WEST SOUTH CENTRAL*	621,894	494,125	120,510	6,721	538
Ark.	84,775	56,482	27,511	782	0
La.	124,372	81,090	40,797	1,947	538
Okla.	60,764	35,443	25,321	0	0
Tex.	351,983	321,110	26,881	3,992	0
MOUNTAIN*	69,986	55,521	11,505	1,841	1,119
Ariz.	14,963	8,381	5,902	680	0
Colo.	0	0	0	0	0
Ida.	23,469	21,043	2,213	144	69
Mont.	0	0	0	0	0
Nev.	0	0	0	0	0
N.M.	17,892	12,863	3,390	839	800
Utah	13,662	13,234	0	178	250
Wyo.	0	0	0	0	0
PACIFIC*	25,318	17,204	7,361	293	460
Alaska	1,209	1,181	3	25	0
Cal.	0	0	0	0	0
Hawaii	11,922	6,357	5,058	207	300
Ore.	7,587	7,366	0	61	160
Wash.	4,600	2,300	2,300	0	0
TERRITORIES*	30,630	30,630	0	0	0
Guam	0	0	0	0	0
P.R.	30,630	30,630	0	0	0
V.I.	0	0	0	0	0

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

Lab & Region	Number of Samples	Type & Procedure											
		Potable			Non-Potable			Swimming Pools			Sewage and Waste		
		Membrane Filter	Multiple Tube	Other	Membrane Filter	Multiple Tube	Other	Membrane Filter	Multiple Tube	Other	Membrane Filter	Multiple Tube	Other
TOTAL*	1,744,474												
Average*	44,730												
NEW ENGLAND*	51,125												
Conn.	8,695	X	X	X	X	X	X	X	X	X	X	X	X
Mass.	102			X									
Me.													
N.H.	25					X							
R.I.	11,985	X				X				X		X	
Vt.	29,318	X						X					
MIDDLE ATLANTIC*	5,085												
N.J.	5,052	X		X		X		X				X	
N.Y.													
Pa.	13	X											
EAST NORTH CENTRAL*	297,190												
Ill.	32,824	X	X		X	X		X	X		X	X	
Ind.	84,541	X	X		X					X			
Mich.	98,319	X			X			X			X		
Ohio	38,201	X	X		X	X		X		X			X
Wisc.	63,505	X	X		X			X			X		
WEST NORTH CENTRAL*	221,425												
Io.	43,978	X	X		X	X		X	X				
Kans.	45,791	X						X					
Minn.													
Mo.	95,687	X			X		X	X					
Nebr.													
N.U.	10,349	X	X		X	X		X	X		X	X	
S.O.	25,620	X	X		X	X		X	X		X	X	
SOUTH ATLANTIC*	387,004												
Del.	12,148	X	X			X		X	X				
D.C.													
Fla.	223,538	X	X		X	X		X	X		X	X	
Ga.													
Md.	71,008	X	X		X	X		X	X			X	
N.C.	54,407	X	X	X	X	X	X	X	X			X	
S.C.													
Va.													
W.Va.	25,902	X	X		X	X		X	X		X	X	
EAST SOUTH CENTRAL*	185,185												
Ala.	77,846	X				X							
Ky.	4,063	X	X	X									
Miss.	59,237	X	X			X							
Tenn.	44,039	X			X			X					
WEST SOUTH CENTRAL*	494,125												
Ark.	56,482	X						X					
La.	81,090	X	X			X		X	X			X	
Okla.	35,443	X	X		X						X		
Tex.	321,110	X			X								
MOUNTAIN*	55,521												
Ariz.	8,381	X	X	X	X	X	X	X	X	X	X	X	X
Colo.													
Ida.	21,043	X		X	X		X	X	X	X	X	X	X
Mont.													
Nev.													
N.M.	12,863	X	X	X	X	X	X	X	X		X	X	X
Utah	13,234	X	X		X	X		X		X		X	
Wyo.													
PACIFIC*	17,204												
Alaska	1,181		X			X						X	
Cal.													
Hawaii	6,357	X	X	X	X	X	X				X	X	X
Ore.	7,366		X		X				X			X	
Wash.	2,300	X	X		X	X		X	X				
TERRITORIES*	30,630												
Guam													
P.R.	30,630	X				X		X					
V.I.													

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

Lab & Region	Number of Samples	Types of Samples						Other
		Milk and Cream	Ice Cream	Cheese	Other Dairy Products	Frozen Desserts		
TOTAL*	288,062							
Average*	9,002							
NEW ENGLAND*	10,796							
Conn.	3,976	X	X	X	X	X	X	Plant equipment, empty containers
Mass.	2,276	X	X	X	X	X	X	
Me.								
N.H.	2,041	X	X	X	X	X	X	
R.I.	2,503	X	X	X	X	X	X	
Vt.								
MIDDLE ATLANTIC*	2,509							
N.J.	2,509	X	X	X	X	X	X	DMSCC, microbial inhibitors
N.Y.								
Pa.								
EAST NORTH CENTRAL*	22,303							
Ill.	7,400	X	X	X	X	X	X	
Ind.	8,330	X	X	X	X	X	X	Environmental dry milk
Mich.	5,496	X	X	X	X	X	X	
Ohio	1,077	X	X	X	X	X	X	
Wisc.								
WEST NORTH CENTRAL*	11,367							
Ia.	400	X				X		
Kans.								
Minn.								
Mo.	2,405	X	X	X	X	X	X	
Nebr.								
N.D.	4,925	X	X	X	X	X	X	
S.D.	3,637	X	X	X	X	X	X	
SOUTH ATLANTIC*	32,354							
Del.	1,405	X	X			X		
D.C.								
Fla.	3,217	X	X				X	
Ga.								
Md.	8,860	X	X	X	X	X	X	
N.C.								
S.C.	11,720	X	X			X	X	
Va.								
W.Va.	7,152	X				X		
EAST SOUTH CENTRAL*	69,357							
Ala.	21,012	X	X			X	X	Cartons
Ky.	9,625	X	X	X	X	X	X	
Miss.	19,590	X				X		
Tenn.	19,130	X	X			X	X	
WEST SOUTH CENTRAL*	120,510							
Ark.	27,511	X	X	X	X	X	X	
La.	40,797	X	X	X	X	X	X	Raw milk, Milk containers
Okla.	25,321	X						
Tex.	26,881	X	X	X	X	X	X	
MOUNTAIN*	11,505							
Ariz.	5,902	X	X	X	X	X	X	
Colo.								
Ida.	2,213	X	X				X	
Mont.								
Nev.								
N.M.	3,390	X		X	X	X	X	Milk product containers
Utah								
Wyo.								
PACIFIC*	7,361							
Alaska	3		X			X		
Cal.								
Hawaii	5,058	X	X			X	X	
Ore.								
Wash.	2,300							
TERRITORIES*	0							
Guam								
P.R.								
V.I.								

TABLE 4-41  
IX. ENVIRONMENTAL MICROBIOLOGY  
C. Food and Beverage Samples

Lab & Region	Number of Samples	Types of Samples			
		Food Quality	Food-Associated Disease Outbreaks	Seafood	Environmental
TOTAL*	32,060				
Average*	971.52				
NEW ENGLAND*	6,813				
Conn.	295	X	X	X	X
Mass.	920	X		X	
Me.					
N.H.	414	X	X	X	X
R.I.	5,142	X	X	X	X
Vt.	42		X		
MIDDLE ATLANTIC*	314				
N.J.	239	X	X	X	X
N.Y.					
Pa.	75		X		X
EAST NORTH CENTRAL*	4,158				
Ill.	1,005	X	X		X
Ind.	2,527	X	X	X	X
Mich.	469		X		X
Ohio	157		X		
Wisc.					
WEST NORTH CENTRAL*	4,826				
Ia.					
Kans.					
Minn.					
Mo.	4,676	X	X		X
Nebr.					
N.D.	150		X		X
S.D.					
SOUTH ATLANTIC*	4,294				
Del.	203	X	X	X	
D.C.					
Fla.	1,310	X	X	X	X
Ga.	58		X		
Md.	1,649	X	X	X	X
N.C.	603		X	X	X
S.C.	471		X		
Va.					
W.Va.					
EAST SOUTH CENTRAL*	2,800				
Ala.	518		X	X	
Ky.	201	X	X		X
Miss.	166		X	X	X
Tenn.	1,915		X		X
WEST SOUTH CENTRAL*	6,721				
Ark.	782	X	X	X	
La.	1,947	X	X	X	X
Okla.					
Tex.	3,992		X	X	
MOUNTAIN*	1,841				
Ariz.	680	X	X		
Colo.					
Ida.	144	X	X	X	X
Mont.					
Nev.					
N.M.	839	X	X	X	X
Utah	178		X		
Wyo.					
PACIFIC*	293				
Alaska	25	X	X	X	X
Cal.					
Hawaii	207	X	X	X	X
Ore.	61		X	X	
Wash.					
TERRITORIES*	0				
Guam					
P.R.					
V.I.					

Table 4-42  
IX. ENVIRONMENTAL MICROBIOLOGY  
D. Other Samples

Lab & Region	Number of Samples	Types of Samples
TOTAL*	7,761	
Average*	457	
NEW ENGLAND*	943	
Conn.	105	Shellfish
Mass.	689	
Me.		
N.H.		
R.I.	65	Red Tide toxin assay
Vt.	84	Water (hot tubs, whirlpools)
MIDDLE ATLANTIC*	27	
N.J.		
N.Y.		
Pa.	27	Toxic dump site samples
EAST NORTH CENTRAL*	818	
Ill.	818	Quality control, miscellaneous
Ind.		
Mich.		
Ohio		
Wisc.		
WEST NORTH CENTRAL*	3,078	
Ia.		
Kans.	1,705	Stream station network
Minn.		
Mo.		
Nebr.		
N.D.	1,373	Sterility tests - autoclave
S.D.		
SOUTH ATLANTIC*	777	
Del.	13	Consumer complaints
O.C.		
Fla.		
Ga.		
Md.	764	Kidney dialysis, Industry, ID of meat samples
N.C.		
S.C.		
Va.		
W.Va.		
EAST SOUTH CENTRAL*	1	
Ala.		
Ky.		
Miss.	1	Filth samples
Tenn.		
WEST SOUTH CENTRAL*	538	
Ark.		
La.	538	Screening for Cholera - oyster, water, sediment sewerage
Okla.		
Tex.		
MOUNTAIN*	1,119	
Ariz.		
Colo.		
Ida.	69	Plankton, benthon, macrophyton, iron & sulfur & nitrogen bacteria, nuisance bacteria - culture and direct.
Mont.		
Nev.		
N.M.	800	
Utah	250	Veterinary diagnostic microbiology-culture, sensitivities, FA, enteric, ID, anaerobes
Wyo.		Dialysis unit water specimens
PACIFIC*	460	
Alaska		
Cal.		
Hawaii	300	
Ore.	160	
Wash.		Salmonella survey in pork products and establishments Shellfish-P.S.P. monitoring, shellfish-bacteriology
TERRITORIES*	0	
Guam		
P.R.		
V.I.		

TABLE 4-43  
X. ENVIRONMENTAL CHEMISTRY  
SAMPLES BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Environmental Chemistry Samples	A Water Samples	B Dairy Product and Food Samples	C Pesticide Samples	D Air Pollution Samples	E Radiological Samples	F Other Samples
TOTAL*	805,048	432,802	100,215	30,486	187,729	33,327	20,489
Average*	22,362	13,525	5,011	1,173	11,043	1,449	1,366
NEW ENGLAND*	97,430	32,985	7,917	1,229	51,708	1,451	2,140
Conn.	28,950	15,479	3,527	311	5,526	967	2,140
Mass.	3,097	920	2,102	75			
Me.	0						
N.H.	0						
R.I.	53,866	5,013	2,279	838	45,252	484	
Vt.	11,517	10,573	9	5	930		
MIDDLE ATLANTIC*	9,608	5,917	2,215	1,108	0	0	368
N.J.	9,608	5,917	2,215	1,108			368
N.Y.	0						
Pa.	0						
EAST NORTH CENTRAL*	186,618	142,743	6,200	11,888	12,759	11,222	1,806
Ill.	12,732	4,139	3,585	2,305		2,520	183
Ind.	21,812	16,981	2,615	2,216			
Mich.	43,106	37,976				5,130	
Ohio	16,472	5,806		1,367	6,551	1,125	1,623
Wisc.	92,496	77,841		6,000	6,208	2,447	
WEST NORTH CENTRAL*	168,546	92,821	4,823	1,919	59,614	6,288	3,081
Ia.	83,862	22,852		922	55,549	4,539	
Kans.	17,343	12,195	69	516	2,454	955	1,154
Minn.	0						
Mo.	11,645	6,648	4,754			243	
Nebr.	0						
N.D.	9,388	7,771		100	1,248	269	
S.D.	46,308	43,355		381	363	282	1,927
SOUTH ATLANTIC*	105,505	66,108	19,862	2,249	5,224	3,869	8,173
Del.	5,746	5,451		5		286	4
D.C.	0						
Fla.	7,972	7,947	25				
Ga.	0						
Md.	52,545	29,537	8,213	1,513	5,224	2,231	5,827
N.C.	24,788	23,173		243		1,372	
S.C.	14,454		11,624	488			2,342
Va.	0						
W.Va.	0						
EAST SOUTH CENTRAL*	24,012	18,980	562	2,371	825	1,274	0
Ala.	909	909					
Ky.	8,933	7,874	303	756			
Miss.	4,538	4,538					
Tenn.	9,632	5,659	259	1,615	825	1,274	
WEST SOUTH CENTRAL*	82,434	49,988	19,431	2,623	2,931	6,126	1,335
Ark.	5,899	3,767	769	13		834	516
La.	29,688	10,511	16,604	1,051		1,066	456
Okl.	60					60	
Tex.	46,787	35,710	2,058	1,559	2,931	4,166	363
MOUNTAIN*	32,355	11,788	1,153	4,496	9,625	2,077	3,216
Ariz.	5,876	1,036	1,153	948	1,512		1,227
Colo.	0						
Ida.	1,188				992	196	
Mont.	0						
Nev.	0						
N.M.	19,079	5,345		3,314	6,787	1,644	1,989
Utah	6,212	5,407		234	334	237	
Wyo.	0						
PACIFIC*	54,563	4,691	856	2,603	45,043	1,000	370
Alaska	765	395					370
Cal.	0						
Hawaii	50,498	1,996	856	2,603	45,043		
Ore.	0						
Wash.	3,300	2,300				1,000	
TERRITORIES*	43,977	6,781	37,196	0	0	0	0
Guam	0						
P.R.	43,977	6,781	37,196				
V.I.	0						

TABLE 4-44  
X. ENVIRONMENTAL CHEMISTRY  
A. Water Samples and B. Dairy Products and Food Samples

Lab & Region	A. Water Samples					B. Dairy Products and Food Samples		
	Number of Samples	Potable	Non-Potable	Swimming Pools	Sewage and Waste	Number of Samples	Milk and Cream	Foods
TOTAL*	432,602					100,215		
Average*	13,525					5,011		
NEW ENGLAND*	32,985					7,917		
Conn.	16,479	X	X	X	X	3,527	X	X
Mass.	920	X				2,102	X	
Me.								
N.H.								
R.I.	5,013	X	X	X	X	2,279	X	X
Vt.	10,573	X	X			9		X
MIDDLE ATLANTIC*	5,917					2,215		
N.J.	5,917	X	X		X	2,215	X	X
N.Y.								
Pa.								
EAST NORTH CENTRAL*	142,743					6,200		
Ill.	4,139	X	X	X	X	3,585	X	X
Ind.	16,981	X	X		X	2,615		
Mich.	37,976	X	X		X			
Ohio	5,806	X	X		X			
Wisc.	77,841	X	X	X	X			
WEST NORTH CENTRAL*	92,821					4,823		
Ia.	22,852	X	X		X			
Kans.	12,195	X	X	X	X	69	X	X
Minn.								
Mo.	6,648	X	X	X	X	4,754	X	X
Nebr.								
N.D.	7,771	X	X		X			
S.D.	43,355	X	X	X	X			
SOUTH ATLANTIC*	66,108					19,862		
Del.	5,451	X						
D.C.								
Fla.	7,947	X	X			25	X	X
Ga.								
Md.	29,537	X	X	X	X	8,213	X	X
N.C.	23,173	X	X	X	X			
S.C.						11,624	X	
Va.								
W.Va.								
EAST SOUTH CENTRAL*	18,980					562		
Ala.	909	X						
Ky.	7,874	X	X			303	X	X
Miss.	4,538	X	X					
Tenn.	5,659	X	X		X	259		X
WEST SOUTH CENTRAL*	49,988					19,431		
Ark.	3,767	X	X	X	X	769		X
La.	10,511	X	X		X	16,604	X	X
Okla.								
Tex.	35,710	X	X		X	2,058	X	X
MOUNTAIN*	11,788					1,153		
Ariz.	1,036	X	X	X	X	1,153	X	X
Colo.								
Ida.								
Mont.								
Nev.								
N.M.	5,345	X	X	X	X			
Utah	5,407	X	X	X	X			
Wyo.								
PACIFIC*	4,691					856		
Alaska	395	X						
Cal.								
Hawaii	1,996	X	X		X	856	X	X
Ore.								
Wash.	2,300							
TERRITORIES*	6,781					37,196		
Guam								
P.R.	6,781	X				37,196	X	X
V.I.								

TABLE 4-45  
X. ENVIRONMENTAL CHEMISTRY  
C. Pesticide Samples

Lab & Region	Number of Samples	Types				Other
		Human Source	Water	Milk	Foods	
TOTAL*	30,486					
Average*	1,173					
NEW ENGLAND*	1,229					
Conn.	311		X	X		Shellfish, sediments
Mass.	75	X		X	X	
Me.						
N.H.						
R.I.	838		X			
Vt.	5				X	Soil
MIDDLE ATLANTIC*	1,108					
N.J.	1,108	X	X	X	X	Fish, shellfish
N.Y.						
Pa.						
EAST NORTH CENTRAL*	11,888					
Ill.	2,305		X	X	X	Vegetation, soil
Ind.	2,216		X			Sediments, solid waste
Mich.						
Ohio	1,367		X		X	Soil, oils
Wisc.	6,000		X			Sewage, waste, fish and other wildlife
WEST NORTH CENTRAL*	1,919					
Ia.	922	X	X			Soil, oil, fish, animal feed, air
Kans.	516		X			Soils, sediments, air, vegetation
Minn.						
Mo.						
Nebr.						
N.D.	100		X	X		
S.D.	381					Formulations, plant residues
SOUTH ATLANTIC*	2,249					
Del.	5		X			
D.C.						
Fla.						
Ga.						
Md.	1,513		X	X		Seafood, Soil, Meat
N.C.	243		X			
S.C.	488	X	X	X	X	Vegetation, pharmaceuticals, misc.
Va.						
W.Va.						
EAST SOUTH CENTRAL*	2,371					
Ala.						
Ky.	756		X	X	X	
Miss.						
Tenn.	1,615		X		X	
WEST SOUTH CENTRAL*	2,623					
Ark.	13		X			
La.	1,051	X	X	X	X	Soil
Okla.						
Tex.	1,559		X	X		Sediments, animal tissues
MOUNTAIN*	4,496					
Ariz.	948		X	X	X	Fish
Colo.						
Ida.						
Mont.						
Nev.						
N.M.	3,314		X	X		Soils
Utah	234	X	X		X	Hazardous wastes
Wyo.						
PACIFIC*	2,603					
Alaska						
Cal.						
Hawaii	2,603		X	X	X	
Ore.						
Wash.						
TERRITORIES*	0					
Guam						
P.R.						
V.I.						



TABLE 4-46  
X. ENVIRONMENTAL CHEMISTRY  
O. Air Pollution Samples

Lab & Region	Number of Samples	Types of Activity							Number of Continuous Sampling Stations
		Discrete Sampling Stations							
		Number of Stations	Solids	Particulate Metals	Organics	Other	Gaseous	Other	
TOTAL*	187,729								
Average*	11,043								
NEW ENGLAND*	51,708								
Conn.	5,526	51	X	X	X		X		11
Mass.									
N.H.									
R.I.	45,252	12	X	X			X		5
Vt.	930	310	X				X		
MIDDLE ATLANTIC*	0								
N.J.									
N.Y.									
Pa.									
EAST NORTH CENTRAL*	12,759								
Ill.									
Ind.									
Mich.									
Ohio	6,551	60		X	X				
Wisc.	6,208	98	X	X	X		X		7
WEST NORTH CENTRAL*	59,614								
Ia.	55,549	45	X	X					9
Kans.	2,454	36	X	X					
Minn.									
Mo.									
Nebr.									
N.D.	1,248	24					X		
S.D.	363								
SOUTH ATLANTIC*	5,224								
Del.									
D.C.									
Fla.									
Ga.									
Md.	5,224	77	X	X	X		X	X	26
N.C.									
S.C.									
Va.									
W.Va.									
EAST SOUTH CENTRAL*	825								
Ala.									
Ky.									
Miss.									
Tenn.	825	277	X	X	X		X	X	14
WEST SOUTH CENTRAL*	2,931								
Ark.									
La.									
Okla.									
Tex.	2,931	12	X	X	X		X		
MOUNTAIN*	9,625								
Ariz.	1,512		X	X	X		X	X	
Colo.									
Ida.	992	18	X	X					
Mont.									
Nev.									
N.M.	6,787	66	X	X			X		
Utah	334	5		X					
Wyo.									
PACIFIC*	45,043								
Alaska									
Cal.									
Hawaii	45,043	12	X	X	X		X		8
Ore.									
Wash.									
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

TABLE 4-47  
X. ENVIRONMENTAL CHEMISTRY  
E. Radiological Analysis

Lab & Region	Number of Samples	Types of Samples							Wipes from Instruments	Other
		Air	Water	Milk	Food	Silt	Soil			
TOTAL*	33,327									
Average*	1,449									
NEW ENGLAND*	1,451									
Conn.	967	X	X	X	X	X	X	X	X	Shellfish, fish, sewage, sediment, tissue, charcoal filters
Mass.										
Me.										
N.H.										
R.I.	484	X	X						X	
Vt.										
MIDDLE ATLANTIC*	0									
N.J.										
N.Y.										
Pa.										
EAST NORTH CENTRAL*	11,222									
Ill.	2,520	X	X	X	X		X	X		
Ind.										
Mich.	5,130	X	X	X	X		X	X		
Ohio	1,125		X	X	X					Radiological waste
Wisc.	2,447	X	X	X	X	X	X			Fish
WEST NORTH CENTRAL*	6,288									
Ia.	4,539	X	X	X	X		X	X		
Kans.	955	X	X	X	X		X	X		
Minn.										Biota, vegetation
Mo.	243	X	X							
Nebr.										
N.D.	269		X					X	X	
S.D.	282	X	X							
SOUTH ATLANTIC*	3,889									
Del.	286		X							
D.C.										
Fla.										
Ga.										
Md.	2,231	X	X	X	X	X	X	X	X	
N.C.	1,372	X	X	X	X	X	X	X	X	Vegetation
S.C.										
Va.										
U.Va.										
EAST SOUTH CENTRAL*	1,274									
Ala.										
Ky.										
Miss.										
Tenn.	1,274	X	X	X	X	X	X	X	X	Fish, iodine cartridges
WEST SOUTH CENTRAL*	6,126									
Ark.	834	X	X	X	X	X	X	X	X	
La.	1,066		X							Vegetation, ash, fish
Okl.	60								X	
Tex.	4,166	X	X	X	X	X	X	X	X	RIA-work area wipes
MOUNTAIN*	2,077									
Ariz.										
Colo.										
Ida.	196		X							
Mont.										
Nev.										
N.M.	1,644		X							
Utah	237	X	X					X		
Wyo.										
PACIFIC*	1,000									
Alaska										
Cal.										
Hawaii										
Ore.										
Wash.	1,000	X	X	X	X	X	X	X	X	
TERRITORIES*	0									
Guam										
P.R.										
V.I.										

TABLE 4-48  
X. ENVIRONMENTAL CHEMISTRY  
F. Other Samples

Lab & Region	Number of Samples	Types of Samples
TOTAL*	20,491	
Average*	1,464	
NEW ENGLAND*	2,140	
Conn.	2,140	Quality control samples - USEPA, insulation - toxic waste, landfill (soils/water) chemical spills, impingers, charcoal air tubes, school asbestos, bulks, air
Mass.		
Me.		
N.H.		
R.I.		
Vt.		
MIDDLE ATLANTIC*	368	
N.J.	368	Fish, Shellfish, Birds - metals
N.Y.		
Pa.		
EAST NORTH CENTRAL*	1,806	
Ill.	183	Heavy metal tox. quality control, miscellaneous
Ind.		
Mich.		
Ohio	1,623	Organic & special problems, special metals
Wisc.		
WEST NORTH CENTRAL*	3,081	
Ia.		
Kans.	1,154	Quality assurance, Priority pollutants, Trihalomethanes
Minn.		
Mo.		
Nebr.		
N.D.		
S.D.	1,927	Feeds and fertilizers
SOUTH ATLANTIC*	6,175	
Del.	4	Formaldehyde
D.C.		
Fla.		
Ga.		
Md.	5,829	Bedding & upholstery, Mass Spectroscopy, Hazardous waste
N.C.		
S.C.	2,342	Gasoline, asbestos
Va.		
W.Va.		
EAST SOUTH CENTRAL*	0	
Ala.		
Ky.		
Miss.		
Tenn.		
WEST SOUTH CENTRAL*	1,335	
Ark.	516	Asbestos
La.	456	Drug - acetaminophen, aspirin, Formaldehyde, sand, caustic agent, cosmetics, sediments, ceramic ware, cake decorations, barge discharge, mud
Okla.		
Tex.	363	
MOUNTAIN*	3,216	
Ariz.	1,227	Hazardous materials
Colo.		
Ida.		
Mont.		
Nev.		
N.M.	1,989	Heavy metals in/on media other than water
Utah		
Wyo.		
PACIFIC*	370	
Alaska	370	PSP
Cal.		
Hawaii		
Ore.		
Wash.		
TERRITORIES*	0	
Guam		
P.R.		
V.I.		

TABLE 4-49  
 XI. OCCUPATIONAL SAFETY AND HEALTH

Lab & Region	Total Occupational Safety and Health Samples	Number of Environmental Samples	Number of Biological Samples
TOTAL*	87,159	85,258	1,901
Average*	4,587	4,487	238
NEW ENGLAND*	2,822	2,717	105
Conn.	0		
Mass.	0		
Me.	0		
N.H.	120	15	105
R.I.	2,069	2,069	
Vt.	633	633	
MIDDLE ATLANTIC*	2,717	2,717	0
N.J.	2,717	2,717	
N.Y.	0		
Pa.	0		
EAST NORTH CENTRAL*	43,523	42,658	865
Ill.	0		
Ind.	0		
Mich.	16,132	15,828	304
Ohio	2,912	2,501	411
Wisc.	24,479	24,329	150
WEST NORTH CENTRAL*	12,208	12,151	57
Ia.	11,494	11,494	
Kans.	714	657	57
Minn.	0		
Mo.	0		
Nebr.	0		
N.D.	0		
S.D.	0		
SOUTH ATLANTIC*	16,322	15,598	724
Del.	0		
D.C.	0		
Fla.	1,889	1,335	554
Ga.	0		
Md.	5,129	4,959	170
N.C.	7,134	7,134	
S.C.	2,170	2,170	
Va.	0		
W.Va.	0		
EAST SOUTH CENTRAL*	1,785	1,785	0
Ala.	0		
Ky.	1,785	1,785	
Miss.	0		
Tenn.	0		
WEST SOUTH CENTRAL*	6,417	6,417	0
Ark.	516	516	
La.	0		
Okla.	0		
Tex.	5,901	5,901	
MOUNTAIN*	1,365	1,215	150
Ariz.	531	531	
Colo.	0		
Ida.	0		
Mont.	0		
Nev.	0		
N.M.	256	256	
Utah	578	428	150
Wyo.	0		
PACIFIC*	0	0	0
Alaska	0		
Cal.	0		
Hawaii	0		
Ore.	0		
Wash.	0		
TERRITORIES*	0	0	0
Guam	0		
P.R.	0		
V.I.	0		

TABLE 4-50  
XII. TOXICOLOGY  
SAMPLES BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Toxicology Samples	A	B
		Physical Samples	Biological Samples
TOTAL*	634,132	87,947	546,185
Average*	20,456	3,518	19,507
NEW ENGLAND*	141,095	74,773	66,322
Conn.	79,463	46,363	33,080
Mass.	23,686	23,686	
Me.	0		
N.H.	2,298	436	1,862
R.I.	29,270	4,230	25,040
Vt.	6,378	38	6,340
MIDDLE ATLANTIC*	113,638	727	112,911
N.J.	109,360	715	108,645
N.Y.	0		
Pa.	4,278	12	4,266
EAST NORTH CENTRAL*	111,885	1,788	110,097
Ill.	21,303	481	20,822
Ind.	179	81	98
Mich.	52,299	780	51,519
Ohio	14,927	391	14,536
Wisc.	23,177	55	23,122
WEST NORTH CENTRAL*	16,887	1,925	14,762
Ia.	0		
Kans.	3,666	17	3,649
Minn.	0		
Mo.	341	113	228
Nebr.	0		
N.D.	173	137	36
S.D.	12,507	1,658	10,849
SOUTH ATLANTIC*	151,585	1,652	149,933
Del.	7,450		7,450
D.C.	0		
Fla.	27,275	580	26,695
Ga.	0		
Md.	56,563	944	55,619
N.C.	14,840		14,840
S.C.	44,359	128	44,231
Va.	0		
W.Va.	1,098		1,098
EAST SOUTH CENTRAL*	4,706	300	4,406
Ala.	0		
Ky.	4,706	300	4,406
Miss.	0		
Tenn.	0		
WEST SOUTH CENTRAL*	72,807	50	72,757
Ark.	6,730		6,730
La.	40,054		40,054
Okla.	0		
Tex.	26,023	50	25,973
MOUNTAIN*	20,771	5,774	14,997
Ariz.	0		
Colo.	0		
Ida.	4,443	3,193	1,250
Mont.	0		
Nev.	0		
N.M.	9,732		9,732
Utah	6,596	2,581	4,015
Wyo.	0		
PACIFIC*	958	958	0
Alaska	0		
Cal.	0		
Hawaii	943	943	
Ore.	0		
Wash.	15	15	
TERRITORIES*	0	0	0
Guam	0		
P.R.	0		
V.I.	0		

TABLE A-51  
XII. TOXICOLOGY  
A. Physical Samples (F-Forensic, O-Other)

Lab & Region	Number of Samples	Types of Samples										
		Liquids for Alcohol	Pesticides	PCB's	Plant and Plant Materials	Drugs and Narcotics	Articles for Blood Stains	Paint -- Comparison	Paint -- Lead	Fibers and Hairs	Gunpowder Residues	Other
TOTAL*	87,947											
Average*	3,518											
NEW ENGLAND*	74,773											
Conn.	46,383	F			F	F	F	F		F	F	F-clay, sand, concrete, fire accelerants, clothing for seminal stains, volatiles, metallic poisons O-PSP (shellfish)
Mass.	23,686	F	O	O	F	F						
Me.												
N.H.	436	O				O			O			O-Asbestos in insulation, quality of compressed air, free formaldehyde in foam insulation
R.I.	4,230	F/O		O	F	F/O	F		O			F/O-Tear gas, liquids, and materials containing dangerous substances, poisons, street drug diluents
Vt.	38								O	O		O-Asbestos bearing materials
MIDDLE ATLANTIC*	727											
N.J.	715					O			O			
N.Y.												
Pa.	12	O			O	O						
EAST NORTH CENTRAL*	1,788											
Ill.	481	F/O			F/O	F/O						F/O-Foodstuffs
Ind.	81					F						
Mich.	780		O	O					O			O-Organotins (underwear), F-Arsenic, O-Soil-curene 442 (moca)
Ohio	391	F/O			F/O	F/O						F/O-Food
Wisc.	55	F/O			O	O			O			O-Hair, nails (arsenic)
WEST NORTH CENTRAL*	1,925											
Ia.									F	F		
Kans.	17					F						
Minn.												
Mo.	113								O			
Nebr.												
N.D.	137								O			E P toxin extraction
S.D.	1,658					F						

TABLE 4-51  
XII. TOXICOLOGY  
A. Physical Samples (F-Forensic, O-Other)-continued

Lab & Region	Number of Samples	Types of Samples										
		Liquids for Alcohol	Pesticides	PCB's	Plant and Plant Materials	Drugs and Narcotics	Articles for Blood Stains	Paint -- Comparison	Paint -- Lead	Fibers and Hairs	Gunpowder Residues	Other
SOUTH ATLANTIC*	1,652											
Del.												
D.C.												
Fla.	580	0	0	0		0			0			
Ga.												
Md.	944	F			F	F						
N.C.												
S.C.	128	0			0	0			0	0		
Va.												
W.Va.												
EAST SOUTH CENTRAL*	300											
Ala.												
Ky.	300	F/O	F/O	F/O	F	F			0			
Miss.												
Tenn.												
WEST SOUTH CENTRAL*	50											
Ark.												
La.												
Okl.												
Tex.	50			0					0			
MOUNTAIN*	5,774											
Ariz.												
Colo.												
Ida.	3,193		0	0	F	F	F	F		F		0-PCP & phenols
Mont.												
Nev.												
N.M.												
Utah	2,581	F/O	0	0	F/O	F/O						
Wyo.												
PACIFIC*	958											
Alaska												
Cal.												
Hawaii	943		0		F/O	F/O						
Ore.												
Wash.	15								0			
TERRITORIES*	0											
Guam												
P.R.												
V.I.												

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

Lab & Region	Number of Samples	1. Blood								Other
		Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides		
TOTAL*	546,185									
Average*	19,507									
NEW ENGLAND*	66,322									
Conn.	33,080	F	F	F		F				F-Carboxyhemoglobin, halides, typing
Mass.										
Me.										
N.H.	1,862	F/O	F	F	O	F/O	F	F		F-Carbon monoxide
R.I.	25,040	F/O	F/O	F/O	F/O	F/O	F/O			
Vt.	6,340	F		F/O			F			
MIDDLE ATLANTIC*	112,911									
N.J.	108,645				O	O		O		Erythrocyte protoporphyrin, PKU
N.Y.										
Pa.	4,266	F	F	O	O	O	O			
EAST NORTH CENTRAL*	110,097									
Ill.	20,822	F/O	F/O	F/O	F/O	F/O	F/O	F/O		O-Erythrocyte protoporphyrin, quality control
Ind.	98					F				
Mich.	51,519					O			O	O - PBB, PCB-total and congeners, serum protein
Ohio	14,536	F/O	F/O	F/O	F/O	F/O		F/O		F/O-Carbon monoxide
Wisc.	23,122	F/O	F/O	F/O	O	O	O	O		O-Erythrocyte protoporphyrin
WEST NORTH CENTRAL*	14,762									
Ia.										
Kans.	3,649	F	F/O	F	O	O				F-Zinc protoporphyrin, carbon monoxide, cyanide
Minn.										
Mo.	228					O				
Nebr.										
N.D.	36					F/O				
S.D.	10,849	F		F						
SOUTH ATLANTIC*	149,933									
Del.	7,450					O				O-Erythrocyte protoporphyrin
D.C.										
Fla.	26,695	F	O			O	O	O	O	
Ga.										
Md.	55,619			F	F					
N.C.	14,840				O					
S.C.	44,231	O	O	O	O					
Va.										
W.Va.	1,098			O						
EAST SOUTH CENTRAL*	4,406									
Ala.										
Ky.	4,406	O	O	O	O	O	O			
Miss.										
Tenn.										
WEST SOUTH CENTRAL*	72,757									
Ark.	8,730	O	O	O	O	O	O	O		O-Rodenticide
La.	40,054									
Okla.										
Tex.	25,973					O				
MOUNTAIN*	14,997									
Ariz.										
Calo.										
Ido.	1,250	F		F			O		O	O-PCB
Mont.										
Nev.										
N.M.	9,732	F	O	O	O	O				
Utah	4,015	F/O	F	F	O	O		F/O	F/O	F-Carboxyhemoglobin
Wyo.										
PACIFIC*	0									
Alaska										
Cal.										
Hawaii										
Ore.										
Wash.										
TERRITORIES*	0									
Guam										
P.R.										
V.I.										



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

Lab & Region	2. Urine								
	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other	
NEW ENGLAND*									
Conn.	F	F	F	O	F/O				
Mass.									
Me.									
N.H.	F/O	F	F	O	F/O	F	F		
R.I.	F/O	F	F/O	O	F/O	F/O			
Vt.									
MIDDLE ATLANTIC*									
N.J.			O		O				
N.Y.									
Pa.			O			O			
EAST NORTH CENTRAL*									
Ill.	F/O	F/O	F/O	F/O	F/O	F/O	F/O		
Ind.									
Mich.									
Ohio	F/O	F/O	F/O	F/O	F/O	F/O	F/O		O-Pentachlorophenol
Wisc.	F/O	F/O	F	F	F	F	F		
WEST NORTH CENTRAL*									
Ia.									
Kans.	F	F	F	O	O				
Minn.									
Mo.									
Nebr.									
N.D.									
S.D.	F								
SOUTH ATLANTIC*									
Del.									
D.C.									
Fla.					O				
Ga.									
Md.									Lithium
N.C.									
S.C.	O	O	O	O	O				
Va.									
W.Va.									
EAST SOUTH CENTRAL*									
Ala.									
Ky.		F	F		F	F			
Miss.									
Tenn.									
WEST SOUTH CENTRAL*									
Ark.	O	O	O		O	O			
La.			O						
Okla.									
Tex.									
MOUNTAIN*									
Ariz.									
Colo.									
Ida.			F						O-PCP & phenols
Mont.									
Nev.									
N.M.			F						
Utah	F	F	F/O		O	O	F		
Wyo.									
PACIFIC*									
Alaska									
Cal.									
Hawaii									
Ore.									
Wash.									
TERRITORIES*									
Guam									
P.R.									
V.I.									

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

Lab & Region	3. Body Tissues							Other
	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	
NEW ENGLAND*								
Conn.	F	F	F					
Mass.								
Me.								
N.H.	F	F	F					
R.I.	F	F	F/O		F/O	F		
Vt.						O		
MIDDLE ATLANTIC*								
N.J.								
N.Y.								
Pa.								
EAST NORTH CENTRAL*								
Ill.	F	F	F	F	F	F	F	
Ind.								
Mich.								
Ohio	F/O	F/O	F/O	F/O	F/O	F/O	F/O	O-PBB, PCB
Wisc.								
WEST NORTH CENTRAL*								
Ia.								
Kans.			F					
Minn.								
Mo.								
Nebr.								
N.D.								
S.D.								
SOUTH ATLANTIC*								
Del.								
D.C.								
Fla.								
Ge.								
Md.								
N.C.								
S.C.								
Va.								
W.Va.								
EAST SOUTH CENTRAL*								
Ala.								
Ky.	F	F	F	F	F	F		
Miss.								
Tenn.								
WEST SOUTH CENTRAL*								
Ark.								
La.								
Okla.								
Tex.								
MOUNTAIN*								
Ariz.								
Colo.								
Ida.								
Mont.							O	O-PCP
Nev.								
N.M.			F					
Utah	F	F	F			F/O	F	
Wyo.							O	
PACIFIC*								
Alaska								
Cal.								
Hawaii								
Ore.								
Wash.								
TERRITORIES*								
Guam								
P.R.								
V.I.								

Table 4-54  
XII. TOXICOLOGY  
B. Biological Samples (F-Forensic, O-Other)

Lab & Region	4. Body Fluids							5. Breath		6. Other
	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other	Volatiles	
NEW ENGLAND*										
Conn.	F	F	F						F	O-Childhood lead poisoning
Mass.										
R.I.	F/D	F/D	F/D		F/D	F/D	F			O-Hair arsenic F-Vaginal swabs and smears
Vt.	F								F	
MIDDLE ATLANTIC*										
N.J.										
N.Y.									F	
Pa.										
EAST NORTH CENTRAL*										
Ill.	F	F	F		F	F	F			
Ind.										
Mich.										
Ohio	F/D	F/O	F/D	F/O	F/D	F/O	F/O	O-PCB, PCB-milk	F/D	
Wisc.										
WEST NORTH CENTRAL*										
Ia.										
Kans.			F							
Minn.										
Mo.										
Nebr.										
N.D.										F-food
S.D.	F									
SOUTH ATLANTIC*										
Del.										
D.C.										
Fla.									O	O-Ethyl alcohol
Ga.										
Ms.										
N.C.										
S.C.	O	O	O			O				
Va.										
W.Va.										
EAST SOUTH CENTRAL*										
Ala.										
Ky.	F	F	F	F	F	F	F			
Miss.										
Tenn.										
WEST SOUTH CENTRAL*										
Ark.		O	O				O			
La.										
Okla.										
Tex.										
ROUNTAIN*										
Ariz.										
Colo.										
Ida.								O-PCB, aflatoxin		O-Air - insecticides
Mont.										
Nev.										
N.M.	F	F	F	F	F	F		F-Cyanide, strychnine		F-Ethyl alcohol
Utah	F	F	F			F/O	O			
Wyo.										
PACIFIC*										
Alaska										
Cal.										
Hawaii										
Ore.										
Wash.								O-arsenic, mercury		
TERRITORIES*										
Guam										
P.R.										
V.I.										

TABLE 4-55  
XII. LABORATORY IMPROVEMENT PROGRAM  
SUMMARY BY LABORATORY CATEGORY

Lab & Region	Number of Professional/ and Non-Technical Positions in LIP	A Clinical	B Public Health	C Dairy and Food	D Water	E Other
TOTAL*	176.20	10,240	356	352	1,775	
Average*	4.76	366	11	20	77	
NEW ENGLAND*	16.20	771	115	64	97	
Conn.	10.00	175	114	24	82	X
Mass.	4.00	500		35		
Me.						
N.H.				2		
R.I.	2.00	63		3	13	
Vt.	0.20	33	1		2	
MIDDLE ATLANTIC*	38.00	2,501	3	0	0	
N.J.	20.00	501				
N.Y.						
Pa.	18.00	2,000	3			X
EAST NORTH CENTRAL*	31.10	2,206	77	120	824	
Ill.	8.00	1,800	14			
Ind.	2.10		6			X
Mich.	8.00	406	13			
Ohio	2.00		25		679	X
Wisc.	11.00		19	120	145	
WEST NORTH CENTRAL*	13.95	1,375	27	34	47	
Ia.	1.00	350	5	27	31	X
Kans.	1.50	200	1			X
Minn.	7.25	695	5			
Mo.	3.00		8			
Nebr.						
N.D.	1.00	63	5	7	16	
S.D.	0.20	67	3			
SOUTH ATLANTIC*	21.45	435	18	36	292	
Del.	0.45	24	1	1	7	
D.C.						
Fla.					197	X
Ga.						
Md.	3.50		9	20	63	X
N.C.	11.00					X
S.C.	3.50	166	7	15		X
Va.						
W.Va.	3.00		1		25	
EAST SOUTH CENTRAL*	13.00		11	75	253	
Ala.	2.00	245	5	5	19	
Ky.	4.00			34		
Miss.		1,685			13	
Tenn.	7.00	221	6	36	221	X
WEST SOUTH CENTRAL*	8.05	1,117	47	0	5	
Ark.	2.00	200	1		5	
La.	1.75	147	7			
Okla.	1.30		7			
Tex.	3.00	200	32			
MOUNTAIN*	20.00		28	13	143	
Ariz.	8.00		12		53	
Colo.						
Ida.	3.00		8	10	26	X
Mont.		749				
Nev.		145				
N.M.	3.00		2	3	64	
Utah	6.00	211	6			X
Wyo.						
PACIFIC*	14.45	118	30	10	106	
Alaska	3.80	275	3	2	20	
Cal.						
Hawaii	0.50		4	4	8	
Ore.	2.65	318	3	4	37	
Wash.	7.50	50	20		61	
TERRITORIES*	0.00		0	0	8	
Guam		62				
P.R.		206			8	
V.I.						

TABLE 4-58  
XIII. LABORATORY IMPROVEMENT PROGRAM  
A. Clinical Laboratories

Lab & Region	1.	2.	3.			4.
	Number of Labs in State	No. Labs Lic./Reg./App./Cert. by State	No. by LIP			
			Lic./App.	Permit/Reg.	Cert.	Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
TOTAL*	10,240	8,893	6,834	1,407	1,226	
Average*	366	318	244	50	44	
NEW ENGLAND*	771	691	489	33	35	
Conn.	175	201	201			
Mass.	500	394	209			Division of Health Care Quality
Me.						
N.H.						
R.I.	63	63	63		35	Bureau of Health Facilities Administration
Vt.	33	33	16	33		
MIDDLE ATLANTIC*	2,501	1,153	1,153	0	329	
N.J.	501	501	501		121	
N.Y.						
Pa.	2,000	652	652		208	
EAST NORTH CENTRAL*	2,206	1,908	1,389	0	160	
Ill.	1,600	551	551			
Ind.		154	153		2	Division of Medical Care Administration
Mich.	406	406	403		158	
Ohio		361	282			
Misc.		436				Section of Laboratory Certification, Division of Health
WEST NORTH CENTRAL*	1,375	565	425	0	195	
Ia.	350	91	91			
Kans.	200	200	160		40	
Minn.	695					Division of Health Systems, Department of Health
Mo.		260	160		155	
Nebr.						
N.D.	63	14	14			Director of Health Facilities
S.D.	67					Division of Public Health, Department of Health
SOUTH ATLANTIC*	435	1,218	404	810	251	
Del.	24	12	12			
D.C.						
Fla.		810		810	162	Office of Licensure and Certification, Department of Health and Rehabilitative Services
Ga.						Office of Regulatory Services, Department of Human Resources
Ms.	166	190	186		89	
N.C.						Division of Facility Services, Department of Human Resources
S.C.						Bureau of Licensing and Certification, DHEC
Va.						
W.Va.	245	206	206			
EAST SOUTH CENTRAL*	1,685	561	404	0	48	
Ala.	221	124	100		8	Bureau of Licensure and Certification is responsible for activities other than premarital and milk programs
Ky.	1,117	157	157			Division for Licensure and Regulation
Miss.	200	133				Mississippi Health Care Commission
Tenn.	147	147	147		40	
WEST SOUTH CENTRAL*	200	1,574	1,329	0	0	
Ark.	200					Division of Health Facilities
La.						Office of Licensing and Certification
Okl.		207	207			
Tex.		1,367	1,122			
MOUNTAIN*	749	583	395	209	65	
Ariz.	145	145	68			
Colo.						
Ida.	211	201	209	209	65	
Mont.						
Neu.						
N.M.	118	118	118			
Utah	275	119				
Wyo.						
PACIFIC*	318	640	369	355	143	
Alaska	50	30			20	CAP, Health Facilities and Planning, Dept. of Health and Social Services
Cal.						
Hawaii	62	49	49			
Ore.	206	206	206			
Wash.		355	114	355	123	
TERRITORIES*	0	0	477	0	0	
Guam						
P.R.			477			
V.I.						

TABLE 4-56  
XIII. LABORATORY IMPROVEMENT PROGRAM  
A. Clinical Laboratories -- Continued

Lab & Region	Activity of Laboratory Improvement Program Staff												
	S. Proficiency Testing												
	Diag. Bact.	My-ecology	Parasi-tology	Viro-logy	Im-mu-nology Syphilis Serology	Mon-Syphilis Serology	Hema-tology	Clin. Chemistry	Pathology	Env. Micro-biology	Env. Chemistry	Dairy/Food	Other
NEW ENGLAND*													
Conn.	X	X	X	X	X	X	X	X					
Mass.	X				X	X						X	
Me.													
N.H.													
R.I.	X		X		X	X	X	X		X		X	
Vt.					X								
MIDDLE ATLANTIC*													
N.J.	X	X	X	X	X	X	X	X					
N.Y.													
Pa.	X	X	X	X	X	X	X	X					Toxicology
EAST NORTH CENTRAL*													
Ill.					X								Quantitative Phenylalanine
Ind.					X								
Mich.													
Ohio	X	X	X		X	X	X	X					
Wisc.	X	X	X		X	X	X	X				X	
WEST NORTH CENTRAL*													
Ia.	X	X	X		X	X	X	X		X	X		PKU
Kans.	X	X	X	X	X	X	X	X	X				Urinalysis, Blood banking
Minn.	X	X	X		X	X	X	X					
Mo.					X							X	
Nebr.													
N.D.					X							X	
S.D.					X							X	
SOUTH ATLANTIC*													
Del.					X								
D.C.													
Fla.					X								Blood alcohol
Ga.													
Md.	X	X	X	X	X	X	X	X					
N.C.	X	X	X		X	X						X	
S.C.	X	X	X		X								
Va.													
W.Va.	X		X		X		X	X					
EAST SOUTH CENTRAL*													
Ala.					X					X			
Ky.	X				X		X	X					
Miss.					X								
Tenn.													
WEST SOUTH CENTRAL*													
Ark.	X	X	X		X					X			
La.													
Okl.					X								
Tex.													
MOUNTAIN*													
Ariz.	X	X	X	X	X	X				X	X		
Colo.													
Ida.	X	X	X		X	X	X	X	X				
Mont.													
Nev.													
N.M.					X	X				X			
Utah	X		X	X	X	X		X					
Wyo.													
PACIFIC*													
Alaska	X	X	X	X	X	X				X	X	X	
Cal.													
Hawaii						X				X	X		
Ore.					X								
Wash.					X								
TERRITORIES*													
Guam													
P.R.	X	X	X		X	X	X	X					
V.I.													

TABLE 4-56  
XIII. LABORATORY IMPROVEMENT PROGRAM  
A. Clinical Laboratories -- Continued

Lab & Region	Activity of Laboratory Improvement Program Staff										
	6. Field Visits									7.	8.
	LIP Program						Other programs			Training	Consultation
	Lic./	Cert.	Other	Lic./	Cert.	Other	App.	App.	App.		
Permit/	Permit/	Permit/	Permit/	Permit/	Permit/						
NEW ENGLAND*											
Conn.	X	X	X	X	X	X			X	X	
Mass.	X								X	X	
Me.											
N.H.											
R.I.	X	X		X	X				X	X	
Vt.									X	X	
MIDDLE ATLANTIC*											
N.J.	X			X	X				X	X	
N.Y.											
Pa.	X			X					X	X	
EAST NORTH CENTRAL*											
Ill.	X			X	X				X	X	
Ind.	X										
Mich.	X				X						
Ohio	X									X	
Wisc.	X			X					X	X	
WEST NORTH CENTRAL*											
Ia.	X								X	X	
Kans.	X		X	X	X	X	X		X	X	
Minn.									X	X	
Mo.		X			X				X	X	
Nebr.											
N.D.		X	X						X	X	
S.D.											
SOUTH ATLANTIC*											
Del.	X								X	X	
D.C.											
Fla.	X	X	X								
Ga.											
Md.	X	X			X				X	X	
N.C.									X	X	
S.C.									X	X	
Va.											
W.Va.	X								X	X	
EAST SOUTH CENTRAL*											
Ala.									X	X	
Ky.									X	X	
Miss.									X	X	
Tenn.				X	X				X		
WEST SOUTH CENTRAL*											
Ark.									X	X	
La.											
Okla.	X								X	X	
Tex.				X					X	X	
MOUNTAIN*											
Ariz.	X				X				X	X	
Colo.											
Ida.	X			X	X				X	X	
Mont.											
Nev.											
N.M.	X	X		X	X				X	X	
Utah			X		X				X	X	
Wyo.											
PACIFIC*											
Alaska		X		X					X	X	
Cal.											
Hawaii	X								X	X	
Ore.	X				X	X			X	X	
Wash.		X			X		X		X	X	
TERRITORIES*											
Guam											
P.R.									X	X	
V.I.											

TABLE 4-57  
XIII. LABORATORY IMPROVEMENT PROGRAM  
B. Public Health Laboratories

Lab & Region	1. Number of Labs in State	2. No. Labs of Lic./Reg./App./Cert. by State	3. No. by LIP			4. Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
			Lic./Permit/App.	Reg.	Cert.	
TOTAL*	356	338	230	99	62	
Average*	11	11	7	3	2	
NEW ENGLAND*	115	114	101	42	0	
Conn.	114	114	101	41		
Mass.						Division of Health Care Commission
Me.						
N.H.						
R.I.						
Vt.	1			1		
MIDDLE ATLANTIC*	3	3	2	0	2	
N.J.		1			1	
N.Y.						
Pa.	3	2	2		1	
EAST NORTH CENTRAL*	77	73	35	14	7	
Ill.	14	14		14		
Ind.	6	6	1		6	Commercial & Industrial Water labs.
Mich.	13	9	9		1	
Ohio	25	25	25			
Wisc.	19	19				
WEST NORTH CENTRAL*	27	16	13	0	2	
Ia.	5	1				
Kans.	1	1				
Minn.	5					Division of Health Systems, Department of Health
Mo.	8	8	8		2	
Nebr.						
N.D.	5	5	5			Director of Health Facilities
S.D.	3	1				Division of Public Health, Department of Health
SOUTH ATLANTIC*	18	25	9	15	8	
Del.	1					
D.C.						
Fla.		15		15	8	Office of Licensure and Certification, Department of Health and Rehabilitative Services
Ga.						Office of Regulatory Services, Department of Human Resources
Md.	9	9	9			
N.C.						Division of Facility Services, Department of Human Resources
S.C.	7	1				Bureau of Licensing and Certification, OHEC
Va.						
W.Va.	1					
EAST SOUTH CENTRAL*	11	10	10	0	10	
Ala.	5	5	5		5	Bureau of Licensure and Certification is responsible for activities other than the premarital and milk program
Ky.						
Miss.						Mississippi Health Care Commission
Tenn.	6	5	5		5	
WEST SOUTH CENTRAL*	47	44	26	0	7	
Ark.	1					Division of Health Facilities
La.	7	15			7	
Okla.	7	7	7			
Tex.	32	22	19			
MOUNTAIN*	28	26	22	8	6	
Ariz.	12	12	12			
Colo.						
Ida.	8	8	8	8	6	
Mont.						
Nev.						
N.M.	2		2			
Utah	6	6				
Wyo.						
PACIFIC*	30	27	12	20	20	
Alaska	3					
Cal.						
Hawaii	4	4	4			
Ore.	3	3	3			
Wash.	20	20	5	20	20	
TERRITORIES*	0	0	0	0	0	
Guam						
P.R.						
V.I.						



TABLE 4-57  
XIII. LABORATORY IMPROVEMENT PROGRAM  
B. Public Health Laboratories -- Continued

Lab & Region	Activity of Laboratory Improvement Program Staff												
	5. Proficiency Testing												
	Diag. Bact.	My-cology	Parasi-tology	Viro-logy	Immunology Syphilis Serology	Non-Syphilis Serology	Hemo-tology	Clin. Chemistry	Pathology	Env. Micro-biology	Env. Chemistry	Dairy/Food	Other
NEW ENGLAND*													
Conn.	X	X	X	X	X	X	X	X		X		X	
Mass.	X				X	X						X	
Me.													
N.H.													
R.I.													
Vt.													
MIDDLE ATLANTIC*													
N.J.													
N.Y.													
Pa.	X	X	X	X	X	X	X	X					
EAST NORTH CENTRAL*													
Ill.					X								
Ind.					X								Blood lead
Mich.													
Ohio	X	X	X		X	X	X	X					
Wis.	X	X	X		X	X	X	X				X	
WEST NORTH CENTRAL*													
Io.													
Kans.					X								
Minn.	X	X	X		X	X	X	X					
Mo.					X							X	
Nebr.													
N.D.					X					X	X	X	
S.D.					X							X	
SOUTH ATLANTIC*													
Del.													
D.C.													
Fla.					X								Blood alcohol
Ga.													
Mo.	X	X	X	X	X	X	X	X					
N.C.	X	X	X		X		X			X		X	
S.C.	X				X								
Va.													
W.Va.													
EAST SOUTH CENTRAL*													
Ala.					X					X		X	
Ky.	X				X		X	X					
Miss.										X			
Tenn.													
WEST SOUTH CENTRAL*													
Ark.													
La.				X			X			X		X	
Okla.													
Tex.	X	X	X	X	X							X	
MOUNTAIN*													
Ariz.	X	X	X	X	X	X					X		
Colo.													
Ida.	X	X	X	X	X	X	X	X		X	X	X	
Mont.													
Nev.													
N.M.					X	X							
Utah										X	X		
Wyo.													
PACIFIC*													
Alaska													
Cal.													
Hawaii						X				X	X		
Ore.					X								
Wash.					X								
TERRITORIES*													
Guam													
P.R.													
V.I.													

TABLE 4-57  
XIII. LABORATORY IMPROVEMENT PROGRAM  
B. Public Health Laboratories -- Continued

Lab & Region	Activity of Laboratory Improvement Program Staff								
	6. Field Visits						7.	8.	
	LIP Programs			Other Programs			Training	Consultation	
	Lic./Permit/ App.	Cert.	Other	Lic./Permit/ App.	Cert.	Other			
NEW ENGLAND*									
Conn.	X					X		X	
Mass.	X					X		X	
Me.									
N.H.									
R.I.									
Vt.									
MIDDLE ATLANTIC*									
N.J.									
N.Y.									
Pa.	X				X		X	X	
EAST NORTH CENTRAL*									
Ill.	X			X			X	X	
Ind.							X	X	
Mich.	X				X				
Ohio	X							X	
Wisc.	X			X			X	X	
WEST NORTH CENTRAL*									
Ia.									
Kans.							X		
Minn.							X	X	
Mo.		X				X		X	
Nebr.									
N.D.		X	X				X	X	
S.D.									
SOUTH ATLANTIC*									
Del.							X	X	
D.C.									
Fla.		X							
Ga.									
Md.	X								
N.C.							X	X	
S.C.							X	X	
Va.									
W.Ve.				X	X		X		
EAST SOUTH CENTRAL*									
Ala.									
Ky.							X	X	
Miss.	X						X	X	
Tenn.									
WEST SOUTH CENTRAL*									
Ark.							X		
La.			X				X	X	
Okla.	X				X		X	X	
Tex.		X					X	X	
MOUNTAIN*									
Ariz.	X						X	X	
Colo.									
Ida.	X			X	X		X	X	
Mont.									
Nev.									
N.M.							X	X	
Utah					X		X	X	
Wyo.									
PACIFIC*									
Alaska									
Cal.									
Hawaii	X						X	X	
Ore.							X	X	
Wash.		X			X		X	X	
TERRITORIES*									
Guam									
P.R.									
V.I.									

TABLE 4-58  
XIII. LABORATORY IMPROVEMENT PROGRAM  
C. Dairy and Food Laboratories

Lab & Region	1. Number of Labs in State	2. No. Labs Lic./Reg./App./Cert. by State	3. No. by LIP			4. Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
			Lic./Permit/App.	Reg.	Cert.	
TOTAL*	352	412	200	3	200	
Average*	20	23	11	0	11	
NEW ENGLAND*	64	62	62	0	3	
Conn.	24	24	24			
Mass.	35	35	35			
Me.						
N.H.	2					Department of Agriculture, State of Vermont
R.I.	3	3	3		3	
Vt.						Department of Agriculture
MIDDLE ATLANTIC*	0	0	0	0	0	
N.J.						
N.Y.						
Pa.						Department of Agriculture
EAST NORTH CENTRAL*	120	194	120	0	74	
Ill.		33			33	
Ind.		21			21	
Mich.						
Ohio		20			20	
Wisc.	120	120	120			
WEST NORTH CENTRAL*	34	41	9	0	5	
Ia.	27	27				Department of Agriculture
Kans.						Department of Agriculture
Minn.						
Mo.		9	9			
Nebr.						
N.D.	7	5			5	
S.D.						
SOUTH ATLANTIC*	36	26	0	0	55	
Del.	1					
D.C.						
Fla.						
Ga.						
Md.	20	15			15	
N.C.					31	
S.C.	15	8			8	
Va.						
W.Va.		3			1	
EAST SOUTH CENTRAL*	75	51	3	0	30	
Ala.	5	4			3	
Ky.	34	19			19	
Miss.		3	3			
Tenn.	36	25			8	
WEST SOUTH CENTRAL*	0	19	0	0	19	
Ark.						
La.		6			6	
Okla.						
Tex.		13			13	
MOUNTAIN*	13	13	0	0	12	
Ariz.						
Colo.						
Ida.						
Mont.	10	10			10	
Nev.						
N.M.	3	3			2	
Utah						Utah State Department of Agriculture
Wyo.						
PACIFIC*	10	4	4	0	0	
Alaska	2					FDA
Cal.						
Hawaii	4	4	4			
Ore.	4					Department of Agriculture
Wash.						Department of Agriculture
TERRITORIES*	0	2	2	3	2	
Guam						
P.R.		2	2	3	2	Certification not required by law
V.I.						

TABLE 4-58  
XIII. LABORATORY IMPROVEMENT PROGRAM  
C. Dairy and Food Laboratories -- Continued

Lab & Region	Activity of Laboratory Improvement Staff								
	5.	6. Field Visits						7.	8.
	Proficiency Testing	L I P Program			Other Programs			Training	Consul-tation
	Lic./Permit/ App.	Cert.	Other	Lic./Permit/ App.	Cert.				
NEW ENGLAND*									
Conn.	X	X					X	X	
Mass.	X							X	
Me.									
N.H.									
R.I.	X	X	X				X	X	
Vt.									
MIDDLE ATLANTIC*									
N.J.									
N.Y.									
Pa.									
EAST NORTH CENTRAL*									
Ill.	X		X				X		
Ind.	X		X				X	X	
Mich.									
Ohio	X		X				X		
Wisc.	X	X							
WEST NORTH CENTRAL*									
Ia.									
Kans.									
Minn.									
Mo.	X	X				X	X	X	
Nebr.									
N.D.	X		X				X	X	
S.D.									
SOUTH ATLANTIC*									
Del.									
D.C.									
Fla.									
Ga.									
Md.	X		X	X			X	X	
N.C.	X		X				X	X	
S.C.	X		X				X	X	
Va.									
W.Va.	X		X						
EAST SOUTH CENTRAL*									
Ala.	X		X				X	X	
Ky.	X		X				X	X	
Miss.									
Tenn.	X		X			X	X	X	
WEST SOUTH CENTRAL*									
Ark.									
La.									
Okla.									
Tex.	X		X				X	X	
MOUNTAIN*									
Ariz.									
Colo.									
Ida.			X				X	X	
Mont.									
Nev.									
N.M.	X	X					X	X	
Utah	X			X		X	X	X	
Wyo.									
PACIFIC*									
Alaska	X	X				X	X	X	
Cal.									
Hawaii						X	X	X	
Ore.	X	X				X	X	X	
Wash.	X		X			X	X	X	
TERRITORIES*									
Guam									
P.R.									
V.I.									

TABLE 4-59  
XIII. LABORATORY IMPROVEMENT PROGRAM  
D. Water Laboratories

Lab & Region	1. Number of Labs in State	2. No. Water Labs in State			3. Other Agency or Department Responsible for Licensing, Registering, Approving, Certifying Laboratories
		Lic./Permit/ App.	Reg.	Cert.	
TOTAL*	1,775	635	0	1,409	
Average*	77	28	0	61	
NEW ENGLAND*	97	95	0	84	
Conn.	62	62		62	
Mass.					
Me.					
N.H.					Water Supply and Pollution Agency
R.I.	13	13			
Vt.	2			2	
MIDDLE ATLANTIC*	0	0	0	0	
N.J.					Department of Environmental Protection
N.Y.					
Pa.					Department of Environmental Resources
EAST NORTH CENTRAL*	824	145	0	580	
Ill.				61	
Ind.				56	
Mich.					
Ohio	679			463	
Wisc.	145	145			
WEST NORTH CENTRAL*	47	62	0	132	
Ia.	31	31			
Kans.				122	
Minn.					
Mo.		31			
Nebr.					
N.D.	16			10	
S.D.					
SOUTH ATLANTIC*	292	4	0	260	
Del.	7	4			
D.C.					
Fla.	197			197	
Ga.					
Md.	63			39	
N.C.					
S.C.					Bureau of Field and Analytical Services, DHEC
Va.					
W.Va.	25			24	Chemistry - Environmental Health Laboratory, WVDH
EAST SOUTH CENTRAL*	253	200	0	107	
Ala.	19			18	
Ky.					Department for Natural Resources
Miss.	13			13	
Tenn.	221	200		76	
WEST SOUTH CENTRAL*	5	0	0	81	
Ark.	5			4	
La.				15	
Okla.					
Tex.				62	
MOUNTAIN*	143	64	0	116	
Ariz.	53			53	
Colo.					
Ida.	26				
Mont.				26	
Nev.					
N.M.	64	64			
Utah				37	
Wyo.					
PACIFIC*	106	57	0	49	
Alaska	20	20			
Cal.					
Hawaii	6			8	
Ore.	37	37			
Wash.	41			41	
TERRITORIES*	8	8	0	0	
Guam					
P.R.	8	8			
V.I.					

TABLE 4-59  
XIII. LABORATORY IMPROVEMENT PROGRAM  
D. Water Laboratories -- Continued

Lab & Region	4. No. Water Testing Laboratories in Laboratory Improvement Program											
	Licensed/Granted Permits/Approved				Registered				Certified			
	Micro-biology	Chemistry	Microbiol. and Chemistry	Total	Micro-biology	Chemistry	Microbiol. and Chemistry	Total	Micro-biology	Chemistry	Microbiol. and Chemistry	Total
TOTAL	322	12	85	419	10	12	60	82	531	77	147	755
Average	26.83	1.00	7.08	34.92	0.83	1.00	5.00	6.83	44.25	6.42	12.25	62.92
NEW ENGLAND*	20	12	63	95	10	12	60	82	5	0	3	8
Conn.	10	12	60	82	10	12	60	82				0
Mass.				0				0				0
Me.				0				0				0
N.H.				0				0				0
R.I.	10		3	13				0				0
Vt.				0				0	5		3	8
MIDDLE ATLANTIC*	0	0	0	0	0	0	0	0	0	0	0	0
N.J.				0				0				0
N.Y.				0				0				0
Pa.				0				0				0
EAST NORTH CENTRAL*	201	0	0	201	0	0	0	0	61	0	0	61
Ill.				0				0	61			61
Ind.	56			56				0				0
Mich.				0				0				0
Ohio				0				0				0
Wisc.	145			145				0				0
WEST NORTH CENTRAL*	55	6	14	75	0	0	0	0	4	103	15	122
Ia.	17	2	12	31				0				0
Kans.				0				0	4	103	15	122
Minn.				0				0				0
Mo.	28	1	2	31				0				0
Nebr.				0				0				0
N.D.	10	3		13				0				0
S.D.				0				0				0
SOUTH ATLANTIC*	2	0	2	4	0	0	0	0	245	40	87	372
Del.	2		2	4				0				0
D.C.				0				0				0
Fla.				0				0				0
Ga.				0				0	94	33	70	197
Md.				0				0				0
N.C.				0				0	28	8	5	39
S.C.				0				0	99	1	12	112
Va.				0				0				0
W.Va.				0				0	24			24
EAST SOUTH CENTRAL*	10	0	0	10	0	0	0	0	35	0	4	39
Ala.	10			10				0				0
Ky.				0				0				0
Miss.				0				0	12		1	13
Tenn.				0				0	23		3	26
WEST SOUTH CENTRAL*	0	0	0	0	0	0	0	0	60	1	1	62
Ark.				0				0	4			4
La.				0				0	15			15
Okla.				0				0				0
Tex.				0				0	61	1	1	63
MOUNTAIN*	44	0	20	64	0	0	0	0	46	28	42	116
Ariz.				0				0	23	15	15	53
Colo.				0				0				0
Ida.				0				0	16	3	7	26
Mont.				0				0				0
Nev.				0				0				0
N.M.	44		20	64				0				0
Utah				0				0	7	10	20	37
Wyo.				0				0				0
PACIFIC*	37	0	0	37	0	0	0	0	51	8	10	69
Alaska				0				0	20			20
Cal.				0				0				0
Hawaii				0				0	4		4	8
Ore.	37			37				0				0
Wash.				0				0	27	8	6	41
TERRITORIES*	8	0	0	8	0	0	0	0	8	0	0	8
Guam				0				0				0
P.R.	8			8				0	8			8
V.I.				0								

TABLE 4-59  
XIII. LABORATORY IMPROVEMENT PROGRAM  
D. Water Laboratories -- Continued

Lab & Region	Activity of Laboratory Improvement Program Staff								7. Training	8. Consultation
	5. Proficiency Testing		6. Field Visits				Other Programs			
	Water Microbiology	Water Chemistry	Lic./Permit/App.	L.I.P. Program	Other	Lic./Permit/App.		Cert.		
NEW ENGLAND*										
Conn.	X	X	X					X	X	
Mass.										
Me.										
N.H.			X					X	X	
R.I.										
Vt.	X	X		X				X	X	
MIDDLE ATLANTIC*										
N.J.										
N.Y.										
Pa.										
EAST NORTH CENTRAL*										
Ill.				X				X		
Ind.				X				X		
Mich.									X	
Ohio				X				X		
Wisc.			X							
WEST NORTH CENTRAL*										
Ia.	X	X	X					X	X	
Kans.		X		X						
Minn.										
Mo.			X					X	X	
Nebr.										
N.D.	X	X		X				X	X	
S.D.										
SOUTH ATLANTIC*										
Del.			X							
D.C.										
Fla.	X			X						
Ga.										
Md.	X	X		X	X		X	X	X	
N.C.	X			X				X	X	
S.C.										
Va.										
W.Va.	X			X	X			X		
EAST SOUTH CENTRAL*										
Ala.				X				X	X	
Ky.										
Miss.										
Tenn.		X		X			X	X		
WEST SOUTH CENTRAL*										
Ark.				X				X	X	
La.	X			X				X	X	
Okla.										
Tex.	X							X	X	
MOUNTAIN*										
Ariz.	X	X	X	X				X	X	
Colo.										
Ida.	X	X		X				X	X	
Mont.										
Nev.										
N.M.		X	X					X	X	
Utah	X	X					X	X	X	
Wyo.										
PACIFIC*										
Alaska				X				X	X	
Cal.										
Hawaii	X	X		X			X	X	X	
Ore.		X	X					X	X	
Wash.		X		X				X	X	
TERRITORIES*										
Guam										
P.R.								X	X	
V.I.										

TABLE 4-60  
 XIII. LABORATORY IMPROVEMENT PROGRAM  
 E. OTHER LABORATORY PROGRAMS

LAB :	PROGRAM ACTIVITY
CT :	Recombinant DNA registrations and inspections. Prepare and administer examinations for approved laboratory directors for dairy, food, and water. NPDES approval, inspection, and proficiency testing.
FL :	Implied Consent--permits issued to 2,330 alcohol breath test (law enforcement) technicians, 84 to breath testing instructors and 79 to chemists for blood alcohol analyses. Field staff made 1,147 site visits to certify 879 breath testing machines.
ID :	Forensic alcohol and rubella prenatal testing approval programs for private labs.
IN :	QA/QC to maintain State laboratory certification: (a) Internal blanks, standards, duplicates, spikes; (b) Collaborative round-robins; (c) EPA SRMs; (d) EPA audits. All laboratories in the Bureau of Laboratories participate in proficiency testing programs sponsored by various Federal agencies and professional organizations: (a) Dairy and Food Microbiology, (b) Food Chemistry, (c) Meat Chemistry, (d) Clinical Microbiology, (e) Virology, (f) Serology, and (g) Blood Lead.
KS :	Breath Alcohol--training and certification of breath alcohol operators. Presently working on laboratory improvement programs, workshops, and newsletter.
LA :	Hematology proficiency testing for all parish health units (approximately 100) with consultation and follow-up training. Rabies proficiency program for 7 State laboratories (slides, brain tissue).
MD :	Laboratories involved with the examination of crabmeat and/or shellfish are provided assistance on-site, by telephone, and with audit samples.
NC :	Quarterly newsletter. Quality control for culture media--Gonorrhea Control, VD Branch. Stock bacterial cultures--maintenance and distribution. Audio-visual training materials for loan.
OH :	Nitrate-Turbidity Course. Membrane Filter Procedures.
PA :	Development, modification, and/or comparison of methodologies useful to the clinical laboratory. Selective evaluation of new systems, kits, and modified technologies.
SC :	Provide training in public health areas for students in schools of medical technology (MLT and MT) and for graduate students in the School of Public Health at the State University. Provide training for nurses who perform "lab work" in county clinics--primarily in Hematology, Urinalysis, Pregnancy Testing and Blood Lead Testing by EP. Provide training in microscopes, darkfield examination for treponema and routine vaginal wet preps to VD field personnel. Provide consultation and seminars in "new diseases", i.e. AIDS, to other health personnel in DHEC and other agencies.



TABLE 4-60  
XIII. LABORATORY IMPROVEMENT PROGRAM  
E. OTHER LABORATORY PROGRAMS

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LAB :	PROGRAM ACTIVITY
TN :	Microbiology bench training at Nashville Reference and Branch Laboratories. Consultations on new and enlargement of facilities. Written critiques on performance evaluation samples by EPA twice yearly for chemistry laboratories. Microbiology workshop for laboratory analysts.
UT :	Issue permits to withdraw blood for alcohol and drugs. Issue permits to research facilities for obtaining impounded animals. Monitor all Quality Assurance activities for the State Health Laboratory.

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TABLE 4-61  
XIV. BIOLOGICS, REAGENTS, AND MEDIA PRODUCED FOR DISTRIBUTION

LAB:NUMBER:	FTE'S:	BIOLOGICS:HUMAN:	REAGENTS:LAB:	MEDIA:	MATERIALS PRODUCED FOR DISTRIBUTION
AL : 15.82:	X	X		X	:TB sputum bottles, enteric glycerin saline bottles, IP 5% formalin bottles, public water bottles, milk bottles for county health environmentalist, modified Thayer-Martin plates, Rodac plates.
AZ : 5.0 :		X	X	X	:API saline blanks, blood agar plated, bile esculin agar, chocolate agar plates, chocolate agar slants, PEA agar plates, GN broth, EMB agar plates, tryptic soy broth, CDC chopped meat broth, trichrome stain, thioglycolate broth, TSI agar slants, HIA plates, HIA slants, Hektoen enteric agar, MacConkey agar, Mueller-Hinton agar, SIM agar, 10% ferric chloride, KOH reagent, methyl-red indicator, -naphthol reagent, nitrate reagents, MVFC broth, MFC agar, KFS agar, buffered rinse water, urea agar slants.
AR : 3.0 :			X	X	:Martin-Lewis plates, Gram stain reagents, miscellaneous bacteriological media.
CA : 5.0 :		X	X		:Biologics: rabies-infected mouse brain for IF quality control, positive control sera for various viral CF tests. Reagents: fluorescein-conjugated antibody preparations for rabies, varicella-zoster, and influenza A, monoclonal. Febrile Antigens: <u>Brucella abortus</u> , <u>Salmonella paratyphi A</u> and B, <u>Salmonella typhi</u> "H" and "O", <u>Francisella tularensis</u> . Immune sera: <u>Brucella abortus</u> , <u>Salmonella paratyphi A</u> and B, <u>Salmonella typhi</u> "H" and "O", <u>Francisella tularensis</u> .
CT : 2.5 :			X	X	:VDRL antigen and buffered saline, serum controls, Group A Streptococcus conjugate, Group A Streptococcus office culture kits.
GA : 4.0 :				X	:Improved Thayer-Martin medium.
IL : 1.0 :			X		:Alcohol calibration standards for statewide distribution in breath testing equipment.

TABLE 4-61  
XIV. BIOLOGICS, REAGENTS, AND MEDIA PRODUCED FOR DISTRIBUTION

		BIOLOGICS:					MATERIALS PRODUCED FOR DISTRIBUTION
LAB:NUMBER:	-----	-----	-----	REAGENTS:	MEDIA:		
:	FTE'S:	HUMAN:	LAB :	:	:		
:	USE :	USE :	:	:	:		
IA :	2.0 :	:	:	X :	X :	:The media production unit serves the various diagnostic and environmental microbiology units of the Lab. and provides media at cost to laboratories in the University Hospitals and Clinics and to various research laboratories in the College of Medicine. A wide array of items is produced ranging from primary plating enrichment media to specific media for biochemical identification of almost anything that can be cultured.	
LA :	0.6 :	:	:	:	X :	:Modified Thayer-Martin, diluent for collection of bird bloods and mosquito pools, transport media for influenza, Cary Blair transport media, parasitology formalin bottles, phenol red bottles.	
MA :	50.0 :	X :	X :	X :	:	:Licensed products, diphtheria & tetanus toxoids & pertussis vaccine adsorbed, diphtheria & tetanus toxoids adsorbed, diphtheria toxin for Schick test, diphtheria toxoid-Schick test control, immune serum globulin (human), normal serum albumin (human), tetanus & diphtheria toxoids adsorbed (for adult use), tetanus antitoxin, tetanus immune globulin (human), tetanus toxoid adsorbed, typhoid vaccine, Varicella-Zoster immune globulin (human).	
MI :	:	X :	:	X :	:	:Anthrax vaccine, botulinum toxoid, diphtheria & tetanus toxoids and pertussis vaccine, diphtheria & tetanus toxoids, Factor VIII (antihemophilic factor), immune serum globulin, normal serum albumin, pertussis vaccine, rabies vaccine, tetanus toxoid, Legionella diagnostic antisera, rabies antigen for in vitro testing, interferon, Breathalyzer reagent-field testing.	
MN :	1.0 :	:	:	:	X :	:Modified Thayer-Martin plates.	
MO :	2.0 :	:	:	:	X :	:Total media required in the V.D. Project in Mo. Statewide Culture Screening Prog.	

TABLE 4-61  
XIV. BIOLOGICS, REAGENTS, AND MEDIA PRODUCED FOR DISTRIBUTION

LAB:NUMBER:	FTE'S:	HUMAN:	LAB:	USE:	REAGENTS:	MEDIA:	MATERIALS PRODUCED FOR DISTRIBUTION
ND	1.0	:	:	:	X	X	:Modified Thayer-Martin, JEMBEC plates, :Amies transport media.
OH	4.0	:	:	:	X	X	:Primary Martin-Lewis plates.
OK	6.0	:	:	:	X	X	:Approximately 185 microbiological media :and 112 reagents and stains.
PA	4.0	:	:	:	X	X	:Parasitology kits (formalin & PVA), stool :kits (buffered glycerol), lyophilized :cultures (bacteria, molds, yeasts), throat :washing kits (TPB with 0.5% gelatin), :stool kits with antibiotics.
SD	0.2	:	:	:	:	X	:JEMBEC plates.
TN	6.0	:	X	:	X	X	:Isovitalex, Thayer-Martin plates, VCN, :Gonopak, Jones-Kendrick media.
TX	4.0	:	:	:	:	X	:GC transport media, Lowenstein-Jensen :media, TB sensitivity drugs, Middlebrook :concentrate, GC media inhibitors.
WV	3.0	:	:	:	X	X	:Modified chocolate agar plates (Trans- :grow), sterile water sample containers :with dechlorinating agent, sterile TB :specimen containers with bacterial sup- :pressant, enteric specimen containers with :buffered glycerol solution, parasite spec- :imen containers containing PVA or formalin :as preservative.

TABLE 4-62  
 XV. RESEARCH AND DEVELOPMENT  
 A. Basic Research

Lab:	Titles of Research Projects	Funding Support				
		Number of Positions	Federal Grant	Con- tract	State Funds	Other Funds
AL	Primary Drug Resistance Study			1,200		
CA	Sampling and Analytical Problems in Air Pollution	1.8	101,211			
	Fundamental and Applied Studies of Particulate Surfaces	1.0	49,225			
	Validation of Samplers	1.0	52,110			
	Interaction of CMV with Host Cells	2.0	94,764			
	Lymphocyte Antibody Traffic in CNS	1.8	38,679			
	Psoralen Inactivation of Viruses for Vaccines	2.0		16,234		
	Cancer Virus Studies	5.8		150,768		
	Studies on the Cytopathogen from Amebae of the Genus Naegleria	1.2	75,000			
GA	Identification of Unusual Patho- genic Gram-negative Aerobic and Facultatively Anaerobic Bacteria	0.1			X	
LA	Ecological Epidemiological Study of <u>Vibrio vulnificus</u> in LA	2.0	10,500		31,000	
MA	Biologic Products	5.0		X		
	Hepatitis B Vaccine	2.0		X		
	Kidney Transplant	4.0	X			
	Virology Project	0.2				X
	TB	1.0				X
MI	Production and Evaluation of <u>Legionella pneumophila</u> Skin Test Antigen	1.3	37,857			
PA	Determination of Cannabinoids in Post Mortem Blood	0.5			X	
	Determination of Sedative-Hypnotic Agents in Post Mortem Blood	0.5			X	
	Detection of Botulism	0.3			X	
WA	Congenital Adrenal Hyperplasia	2.0	65,000			
	Thermolu miniscendes of KCL	0.2			1,000	

TABLE 4-63  
 XV. RESEARCH AND DEVELOPMENT  
 B. Applied Research

Lab:	Titles of Research Projects	Funding Support				
		Number of Positions	Federal Grant	Con- tract	State Funds	Other Funds
CA	:Monitoring Mutagens in Air	: 0.5	:	: 28,996:	:	:
	:Visibility Reduction	: 1.7	:	:103,958:	:	:
	:Dry Deposition of Acids	: 0.8	:	:139,821:	:	:
	:Analysis of Environmental Mixtures:	2.5	:	:136,644:	:	:
	:	:	:	:	:	:
GA	:Cetyl-pyridinium-chloride as an	:	:	:	:	:
	: In-House Digestant for TB Sputum	:	:	:	:	:
	: Specimens	: 0.5	:	:	: X	:
	:	:	:	:	:	:
MA	:GC	: 3.0	: X	:	:	:
	:Neonatal Screening	: 12.0	:	:	: X	:
	:Galactosemia	: 4.0	: X	:	:	:
	:	:	:	:	:	:
MI	:Develop Simple Rapid Test for	:	:	:	:	:
	: Detection of Rabies Antibody	: 0.3	:	:	: X	:
	:Develop Diagnostic Test for	:	:	:	:	:
	: <u>Pneumocystis carinii</u>	: 0.25	:	:	: X	:
	:	:	:	:	:	:

TABLE 4-64  
 XV. RESEARCH AND DEVELOPMENT  
 C. Technical Development

Lab:	Titles of Research Projects	Funding Support				
		Number of Positions	Federal Grant	Con- tract	State Funds	Other Funds
CA	Water Virology Laboratory	2.0	78,667			
	Detection of Viruses and Anti-					
	bodies	2.75	124,611			
	Coxsackie Viruses in Chronic Dis-					
	ease: Antigenic Variation	2.95	96,141			
PA	Dade RPR Test	0.25			X	
	Chlamydia Detection	0.25			X	
	Bactec for TB	0.1			X	
	Product Evaluation	0.25			X	
TX	RMSF					
	Lyme Disease					
	Typhus					

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



Table 5-1  
LABORATORY ORGANIZATIONAL STRUCTURE

Lab & Region	Date of Current Organization Chart		Did Organization Structure Change During fy 1983	Description of Organizational Change
	State Health Department	State Laboratory		
NEW ENGLAND*				
Conn.		11/15/83	X	Public Health Chemistry and Biophysics Section split into the Environmental Chemistry Section and the Organic Chemistry Section. The Laboratory Division Director is responsible directly to the Commissioner of Health Services.
Mass.				
Me.				
N.H.	05/83	12/82	X	Expert Witness Program placed under the public health laboratory.
R.I.		02/82		
Vt.		FY84/85		
MIDDLE ATLANTIC*				
N.J.	03/83	05/83		
N.Y.				
Pa.	04/83	07/81		
EAST NORTH CENTRAL*				
Ill.	01/84	05/85	X	Consolidation of Administrative and Scientific Services Section into one section - Administrative/Support Service Section.
Ind.	01/84	10/83		
Mich.				
Ohio		02/84	X	New Division--Health Cost Containment and Policy Analysis. Southeast branch laboratory closed.
Wisc.		12/83		
WEST NORTH CENTRAL*				
Ia.				
Kans.	01/84	02/84		
Minn.		01/82		
Mo.	04/84	05/84		
Nebr.				
N.D.		01/84	X	Laboratory consists of two divisions - Chemistry and Microbiology.
S.D.				
SOUTH ATLANTIC*				
Del.	07/81	09/82		
D.C.				
Fla.		10/83	X	Personnel Licensure and Certification was transferred from the Office of Laboratory Services to the Office of Licensure and Certification.
Ga.	12/83	02/84	X	Addition of Adult Health Unit (hypertension, cancer, kidney, diabetes control functions) and Genetic Screening Unit.
Md.			X	Name change to Community Health Section. On July 1, 1983, the Water Resources Administration Laboratory was transferred from the Dept. of Natural Resources to the Dept. of Health and Mental Hygiene (DHMH). This merger transferred water pollution control responsibilities to DHMH. In order to meet these demands, the Laboratories Administration created a Hazardous Waste Section which was responsible for characterizing toxic and hazardous waste in the environment.
N.C.		12/83		
S.C.		03/84	X	Sullivan's Island Branch Lab closed. Milk testing discontinued in all District labs, milk tested in Central Lab only.
Va.				
W.Va.	01/83	11/83		
EAST SOUTH CENTRAL*				
Ala.	10/83	10/83		
Ky.		07/83		
Miss.	08/83	11/83		
Tenn.				
WEST SOUTH CENTRAL*				
Ark.	08/81	07/83		
La.		03/84	X	Radiation Unit elevated to Section status.
Okla.		02/84	X	Essentially unchanged - on paper only.
Tex.				
MOUNTAIN*				
Ariz.		04/84	X	Clerical pool reassigned to each lab section.
Colo.				
Ida.		08/83		
Mont.				
Nev.				
N.M.		08/83		
Utah				
Wyo.				
PACIFIC*				
Alaska		08/14/84		
Cal.				
Hawaii				
Ore.		07/83	X	Laboratory given office status by being removed from Office of Health Status Monitoring.
Wash.	05/84	02/84		
TERRITORIES*				
Guam				
P.R.				
V.I.				

Table 5-2  
LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
A. Areas in which Laboratory Receives or Has ADP Capabilities

Lab & Region	1. Diagnostic Reporting										Other
	Diag. Bact.	Parasit.	Clinical Chem.	Enviro. Chem.	Enviro. Micro.	Lab. Improvement Program	Newborn Genetic Screening	Clinical Chemistry Calc.	Control of Instruments		
NEW ENGLAND*											
Conn.						X	X		X		
Mass.			X				X	X			Biologics production Virology Drug Laboratory
Me.											
N.H.											
R.I.	X		X	X	X		X	X	X		Serology Toxicology
Vt.				X	X						
MIDDLE ATLANTIC*											
N.J.											
N.Y.											
Pa.	X	X		X	X	X	X				Toxicology
EAST NORTH CENTRAL*											
Ill.	X	X	X	X	X	X	X				
Ind.				X				X			
Mich.				X	X			X			
Ohio				X				X	X		Serology
Wisc.	X		X	X	X	X	X	X	X	X	Immunology, virology
WEST NORTH CENTRAL*											
Ia.	X	X	X	X	X	X	X		X		
Kans.				X	X						
Minn.						X					
Mo.											
Nebr.											
N.D.	X	X	X	X						X	Virology Blood-breath alcohol
S.D.											
SOUTH ATLANTIC*											
Del.											
D.C.											
Fla.			X							X	
Ga.											
Md.				X				X			Hereditary disorders
N.C.			X	X	X		X	X	X		
S.C.	X	X	X	X	X						
Va.											
W.Va.			X						X		
EAST SOUTH CENTRAL*											
Ala.								X		X	
Ky.			X					X			
Miss.			X	X	X			X	X		
Tenn.						X					
WEST SOUTH CENTRAL*											
Ark.								X		X	
La.								X		X	Biologics production
Okl.			X					X	X		Serology
Tex.			X	X							
MOUNTAIN*											
Ariz.											
Colo.											
Ida.				X				X		X	Toxicology, forensic
Mont.											
Nev.											
N.M.											
Utah			X	X					X		Forensic chemistry Pesticides Organic chemistry Radiochemistry
Wyo.											
PACIFIC*											
Alaska											
Cal.	X	X	X			X	X		X		
Hawaii											
Ore.	X	X			X	X	X		X		
Wash.	X	X		X	X		X				
TERRITORIES*											
Guam											
P.R.											
V.I.											

Table 5-2  
 LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
 A. Areas in which Laboratory Receives or Has ADP Capabilities - Continued

Lab & Region	2. Laboratory Administration and Management									Other
	Work-load Stat.	Management Information	Purchasing	Personnel Records	Supply Inventory	Expend-iture	Billing (Fees)	Budget Tracking		
NEW ENGLAND*										
Conn.										
Mass.	X	X	X	X		X	X	X		Labels for mailing
Me.										
N.H.										
R.I.		X	X	X	X	X			X	
Vt.										
MIDDLE ATLANTIC*										
N.J.										
N.Y.										
Pa.	X	X	X		X	X	X	X	X	Registry of clinical lab. personnel
EAST NORTH CENTRAL*										
Ill.	X	X		X		X			X	
Ind.										
Mich.		X				X			X	
Ohio		X					X		X	
Wisc.	X	X		X	X		X		X	
WEST NORTH CENTRAL*										
Ia.	X	X	X	X		X	X			
Kans.									X	
Minn.										
Mo.										
Nebr.										
N.D.	X	X	X			X	X		X	
S.D.				X						
SOUTH ATLANTIC*										
Del.										
D.C.										
Fla.	X						X			
Ge.										
Md.	X		X	X						
N.C.		X		X			X		X	
S.C.			X			X	X		X	
Va.										
W.Va.			X	X						
EAST SOUTH CENTRAL*										
Ala.		X	X	X	X	X				
Ky.										
Miss.		X	X	X						
Tenn.				X						
WEST SOUTH CENTRAL*										
Ark.		X				X				
La.	X					X				
Okla.										
Tex.	X	X	X	X	X	X			X	
MOUNTAIN*										
Ariz.	X					X	X	X		
Colo.										
Ida.	X		X	X		X	X	X		Equipment inventory
Mont.										
Nev.										
N.M.	X					X	X		X	
Utah										
Wyo.										
PACIFIC*										
Alaska	X	X		X						
Cal.										
Hawaii										
Ore.	X	X	X	X	X					Training
Wash.	X						X			Preventive maintenance
TERRITORIES*										
Guam										
P.R.										
V.I.										

Table 5-2  
LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
B. ADP Services Provided by State - Continued

Lab & Region	ADP Services Received From State Central Data Processing (CDP) Center	Expenditures for Governmental Provided CDP Services	Description of Services Received
NEW ENGLAND*			
Conn.			
Mass.			
Me.			
N.H.			
R.I.			
Vt.	X	14,000	
MIDDLE ATLANTIC*			
N.J.			
N.Y.			
Pa.	X	30,000	Mainframe hardware, maintenance and support
EAST NORTH CENTRAL*			
Ill.	X	50,000	
Ind.			
Mich.	X		
Ohio	X	20-25,000	Billing for laboratory tests
Misc.	X	4,500	General computer services
WEST NORTH CENTRAL*			
Ia.	X	6,000	University of Iowa Computer Center
Kans.	X	1,265	Fiscal, data reduction, reporting, archiving
Minn.			
Mo.			
Nebr.			
N.D.			
S.D.	X		Fiscal
SOUTH ATLANTIC*			
Del.			
D.C.			
Fla.	X		Monthly budget accounting statements
Ga.			
Md.	X		
N.C.			
S.C.	X	120,000	
Va.			
W.Va.	X		Budget, expenditures, payroll
EAST SOUTH CENTRAL*			
Ala.			
Ky.			
Miss.			
Tenn.	X		
WEST SOUTH CENTRAL*			
Ark.			
La.	X		Word processing, Data storage and retrieval
Okla.			
Tex.	X		
MOUNTAIN*			
Ariz.	X		
Colo.			
Ida.	X		
Mont.			
Nev.			
N.M.	X	18,000	
Utah	X		Personnel/payroll, purchasing, budgeting
Wyo.			
PACIFIC*			
Alaska	X		
Cal.	X		
Hawaii			
Ore.	X	25,661	Billing for tests (fees), expenditures
Wash.			
TERRITORIES*			
Guam			
P.R.			
V.I.			

Table 5-2  
 LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
 C. ADP Services Received From Private Vendors

Lab & Region	ADP Services Received From Private Vendors	Expenditures For Private Vendor ADP Services	Description of Services Received
NEW ENGLAND*			
Conn.			
Mass.			
Me.			
N.H.			
R.I.			
Vt.			
MIDDLE ATLANTIC*			
N.J.			
N.Y.			
Pa.			
EAST NORTH CENTRAL*			
Ill.	X	3,000	Generate exception reports to delineate unsatisfactory test results
Ind.	X	3,900	Computer service is provided via a "Call 370" terminal with a service center in Cleveland, Ohio. All reports concerning meat chemistry and milk evaluation are processed
Mich.			
Ohio	X	1,500	Lab. improvement program, clinical chemistry statistics, hemoglobins
Wisc.			
WEST NORTH CENTRAL*			
Ia.			
Kans.			
Minn.			
Mo.			
Nabr.			
N.D.			
S.D.			
SOUTH ATLANTIC*			
Del.			
D.C.			
Fla.			
Ga.			
Md.			
N.C.			
S.C.			
Va.			
W.Va.			
EAST SOUTH CENTRAL*			
Ala.			
Ky.			
Miss.			
Tenn.			
WEST SOUTH CENTRAL*			
Ark.			
La.	X		Hardware and software for storage and retrieval of demographics and test results. Work list generation, computation of positive hypothyroid results
Okla.			
Tex.	X		System design--hardware, software, implementation, training, and trouble-shooting
MOUNTAIN*			
Ariz.			
Colo.			
Ida.			
Mont.			
Nev.			
N.M.			
Utah			
Wyo.			
PACIFIC*			
Alaska			
Cal.			
Hawaii			
Ore.			
Wash.			
TERRITORIES*			
Guam			
P.R.			
V.I.			

Table 5-2  
LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
D. Dedicated ADP Services - Continued

Lab & Region	Lab Has Dedicated ADP Services	Type of Hardware (Central Processing Unit)			
		Name of Unit	Mainframe	Minicomputer	Microcomputer
NEW ENGLAND*					
Conn.		PDP-11/23 (2)		X	
Mass.	X	IBM-PC, Altos, Compaq		X	
Me.					
N.H.					
R.I.	X	HP, Radio Shack, Data General		HP-21mx Model 16	
Vt.				DG-Nova 3	
MIDDLE ATLANTIC*					
N.J.					
N.Y.					
Pa.	X	Northstar			Northstar Horizon
EAST NORTH CENTRAL*					
Ill.	X	HP			X
Ind.	X	HP 3353		X	
Mich.	X	HP			X
Ohio	X	Northstar-2 units			HP-3354, HP-UX2's, PE SIGMA 10's, PE-PEP 11's, HP-9815's
Wisc.	X	PDP-11/60		X	
WEST NORTH CENTRAL*					
Ia.	X	Data point 1500, Data General- Nova 3 and Nova 4, Spectra Physics SP4000, Nuclear Data System, IBM-PCs			X
Kans.	X	PDP-11			X
Minn.					
Mo.					
Nebr.					
N.D.	X				S-100 Bas-8085/8086 CPU 7 Units
S.D.	X	IBM			IBM 9000, IBM XT
SOUTH ATLANTIC*					
Del.					
D.C.					
Fla.	X	IBM-PC (2), IBM-XT (2)			X
Ga.					
Md.	X	HP 9835A, TRS-80			X
N.C.	X	Wang		VS-100	
S.C.	X	Burroughs	IBM 4341	Burroughs 9555	
Va.					
W.Va.					
EAST SOUTH CENTRAL*					
Ala.	X	Neometrics-multi-user system			S-100 bus with 66 meg disk
Ky.	X	Wang 2200		X	
Miss.					
Tenn.					
WEST SOUTH CENTRAL*					
Ark.	X	PDP 11/04, EG&G Ortec EEDS II Finnigan 6110, Spectra 4100		X	
La.	X	Northstar Horizon			X
Okla.	X	HP 9845B			X
Tex.	X	HP 1000		HP 1000	
MOUNTAIN*					
Ariz.					
Colo.					
Ida.	X	Spectraphysics, Columbia-PC, Commodore-PC (2)			X
Mont.					
Nev.					
N.M.					
Utah	X	Wang and Commodore	Wang VS/80		Commodore Super pet
Wyo.					
PACIFIC*					
Alaska	X	Lexitron 1303			X
Cal.	X	Prime 550		X	
Hawaii					
Ore.	X	Sperry Univac		Univac 80	Ohio Scientific, Wang System 3
Wash.	X	Prime		Model 10	
TERRITORIES*					
Guam					
P.R.					
V.I.					

Table 5-2  
 LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
 D. Dedicated ADP Services - Continued

Lab & Region	No. of Peripherals Supported by CPU	Number of Lab Personnel Required to Support System	Lab Instrumentation Supported by CPU System
NEW ENGLAND*			
Conn.			
Mass.	2-6	4.00	
Me.			
N.H.			
R.I.	20	0.50	Gas chromatograph, HPLC, AA, Auto Sampler
Vt.			
MIDDLE ATLANTIC*			
N.J.			
N.Y.			
Pa.	3	1.25	
EAST NORTH CENTRAL*			
Ill.	4	2.00	Tracor Gamma Counter (2)
Ind.	5	1.00	Technicon II Auto Analyzers Varian Techtron Atomic Absorption Spectrophotometer
Mich.			
Ohio	8	0.25	Tracor 1285 Gamma Counter HP 5880A Gas Chromatograph HP GC/MS's (2), Kinetic Analyzer PEF40, F42, 3920 Gas Chromatographs PE Liquid Chromatographs Polymac Auto Analyzer-EMIT methods
Wisc.		1.00	
WEST NORTH CENTRAL*			
Ia.	11	15.00	Spectra-Tracor 222 & 560 GC Data General-Finnegan GC/MS Nuclear Data-Gli Detector PE 5000 AA-Spectrophotometer (2)
Kans.	1		
Minn.			
Mo.			
Nebr.			
N.O.	18	1.00	Atomic Absorption-PE 5000 Auto Analyzer-Technicon 3 channels Gamma Spectroscopy-RIA Auto Scan-American Scientific
S.D.			
SOUTH ATLANTIC*			
Del.			
D.C.			
Fla.		1.60	
Ga.			
Md.	2	2.50	LKB Rackgamma (Gamma Counter) Auto Analyzer Systems
N.C.	54	2.00	
S.C.	12	6.00	
Va.			
W.Va.			
EAST SOUTH CENTRAL*			
Ala.	8	1.00	Micromedic Gamma Counters
Ky.	3	2.00	Abbott ABA 100 Clinical Chemistry Analyzer
Miss.			
Tenn.			
WEST SOUTH CENTRAL*			
Ark.	4		Gas Chromatographs, Mass Spectrometer Camberra Gamma Spectrometer Tube excited Fluorescence Analyzer III Gamma Counter - Beckman 4000
La.	4	1.50	
Okla.	1	0.20	Packard Instruments Gamma Counter
Tex.	14	2.00	Gas Chromatograph
MOUNTAIN*			
Ariz.			
Colo.			
Ida.	2		Gas chromatography, atomic absorption AutoAnalyzer
Mont.			
Nev.			
N.M.			
Utah	23	0.50	
Wyo.			
PACIFIC*			
Alaska		1.00	
Cal.			
Hawaii			
Ore.	21	4.00	Micro Medic Gamma Counter, Gilford-EIA 50 Abbott Quantum II - future
Wash.	26	4.00	Micro Medic 4200 Gamma Counter (2) Auto Logic Gamma Counter Beckman Wide Beta Counter Camberra 4 Gamma Counter Nuclear Data 180 Gamma Counter
TERRITORIES*			
Guam			
P.R.			
V.I.			

Table 5-2  
 LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
 D. Dedicated ADP Services - Continued

Lab & Region	Core Size	Storage		Primary Operating Language				Other
		Tape	Disk	COBOL	FORTRAN	BASIC		
NEW ENGLAND*								
Conn.								
Mass.	40meg	X	X					dBase II, Lotus 123
Me.								
N.H.								
R.I.	1544K	X	X			X		Pascal
Vt.								
MIDDLE ATLANTIC*								
N.J.								
N.Y.								
Pa.	64K	X	X			X		CP/M, dBase II
EAST NORTH CENTRAL*								
Ill.	64K	X				X		
Ind.	64K	X				X		
Mich.								
Ohio	64K	X	X			X		Turbo DOS-Northstar
Wisc.	248K	X	X					
WEST NORTH CENTRAL*								
Ia.	256K	X	X		X	X		Databus-Datapoint 1500 Assembler Language-Spectra
Kans.	32K		X			X		
Minn.								
Mo.								
Nebr.								
N.D.	64K	X	X					PL-1, CP/M-MPM
S.D.	640K		X			X		
SOUTH ATLANTIC*								
Del.								
D.C.								
Fla.	640K		X			X		
Ga.								
Md.	64K	X	X			X		
N.C.	1024K	X	X	X	X			
S.C.	256K	X	X					Machine language-binary
Va.								
W.Va.								
EAST SOUTH CENTRAL*								
Ala.	64K	X	X			X		dBase II
Ky.	16K		X			X		
Miss.								
Tenn.								
WEST SOUTH CENTRAL*								
Ark.	32K		X			X		ORACL, Class-Canberra System
La.	64K		X					CP/M,
Okla.	185K	X	X			X		
Tex.	512K	X	X	X	X	X		
MOUNTAIN*								
Ariz.								
Colo.								
Ida.								
Mont.	512K					X		
Neu.								
N.M.								
Utah	378K		X					Machine language
Wyo.								
PACIFIC*								
Alaska			X			X		
Cal.								
Hawaii								
Ore.	512K	X	X	X	X	X		
Wash.	3000K	X	X		X			
TERRITORIES*								
Guam								
P.R.								
V.I.								



Table 5-2  
LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
E. Future Plans-Continued

Lab & Region	Anticipate Upgrading Present System	Description of Plans	Areas in Which MDC Might Provide Assistance in Planning, Development, or Upgrading of Computer Capabilities
<b>NEW ENGLAND*</b>			
Conn.	X	Install total lab system	System for billing, workload and management. Supply tape for PHLDDBMS.
Mass.			
Me.			
N.H.			
R.I.	X	Increase capacity of system	Specimen tracking, laboratory reports data storage
Vt.	X	Complete "Computerization"	
<b>MIDDLE ATLANTIC*</b>			
N.J.			
N.Y.			
Pa.	X	Add more CRT's	Send reportable disease data to CDC via computer, need centralized DB available to State Public Health Laboratory
<b>EAST NORTH CENTRAL*</b>			
Ill.	X	Modern system to better adapt to present in-line methodology	
Ind.	X	Upgrade to a multi-user system	CDC might be of assistance in obtaining detailed data as to what various governmental agencies have and how they use computers. This info would be helpful to others in determining their data handling needs
Mich.	X		Advice on hardware/integrated systems
Ohio	X	Add CPU's, inventory, data base, word processing, cost accounting, personnel, software	Inventory, DB reporting, communication with other hospitals
Misc.	X	Upgrade to a VAX-11/750	
<b>WEST NORTH CENTRAL*</b>			
Is.	X	Develop sample logging/tracking	
Kans.	X	Develop a distributive network	Development of a uniform method for data reporting. Expanded documentation for public domain software. Development of centralized catalog of public health laboratory software.
Minn.			
Mo.			
Nebr.			
N.D.	X	Add Ion Chromatography, a second Atomic Absorption instrument, a ICP system, and add Neonatal screening to data base	Expansion of data base for Micro - electronic mail reporting and communication between CDC and PHL
S.D.	X	CDP studying lab. needs	Would like copy of the Lab System Developed theme
<b>SOUTH ATLANTIC*</b>			
Del.			
D.C.			
Fla.	X	Convert micros to intelligent terminals and integrate with State mainframe	Records storage and retrieval, A DASH system
Ga.			
Md.	X	Computerize lab accession and reporting at each county health dept. and State hospital	Software design for specimen accession and lab data reporting.
N.C.	X	Band printer, PC's for workstation emulation, uninterruptible power supply	
S.C.	X	On-line specimen tracking, and test results, computer-generated worksheets, test requests, and results reporting	Statistical and related types of reporting
Va.			
W.Va.			

Table 5-2  
LABORATORY AUTOMATIC DATA PROCESSING (ADP)  
E. Future Plans-Continued

Lab & Region	Anticipate Upgrading Present System	Description of Plans	Areas in Which MDC Might Provide Assistance in Planning, Development, or Upgrading of Computer Capabilities
<b>EAST SOUTH CENTRAL*</b>			
Ala. ....	X	Install line printer for mail	Develop communication network for rapid dissemination of information between CDC and State Laboratories.
Ky. ....	X	Consider using the PHLDBMS	Development of software for Chemistry, inventory control and management systems
Miss. ....			
Tenn. ....	X	To purchase computer for inventory control and budget	
<b>WEST SOUTH CENTRAL*</b>			
Ark. ....	X	Automation of all lab data	Development and technical consultation
La. ....	X	Upgrade to multi-user system	Develop software for entering demographics, centrally tracking specimens in various lab areas, entering data, generating reports, and correlating test results with demographics. Software for storing and retrieving information
			Specimen logging, tracking, reporting; inventory, purchasing, budget.
Okla. ....		Software development	
Tex. ....	X	Complete "Computerization"	
<b>MOUNTAIN*</b>			
Ariz. ....	X	Purchase mini for specimen tracking, diagnostic reporting and lab licensure section	
Colo. ....			
Ida. ....	X	Networking with instruments, billing for lab tests, management information and QC data	Software, General Consultation System design
Mont. ....			
New. ....			
N.M. ....	X	Office automation-networked	Forms flow and systems analysis
Utah ....	X	Upgrade VS/80 to VS/100	Management applications - workload, billing fees for service, budget. Interface CPU with lab. equip.
Wyo. ....			
<b>PACIFIC*</b>			
Alaska ....	X	Auto RMS system	All areas
Cal. ....			
Hawaii ....			
Ore. ....			Provide software which emulates charts such as King charts, for aid in microorganism identification
Wash. ....	X	Additional terminals as needed	Alternatives to keyboard data entry
<b>TERRITORIES*</b>			
Guam ....			
P.R. ....			
V.I. ....			

Table 5-3  
LABORATORY SAFETY

Lab & Region	Lab Has Safety Committee No. of Members	Lab Has Safety Officer	Lab Has Safety Manual	Lab Records Lab Accidents	No. of Accidents By Category in FY 1983						Other	
					Fire	Electric Shock	Cuts, Needle Pricks	Chemicals	Infection	Radio-logical		
<b>NEW ENGLAND*</b>												
Conn.	8	X	X	X				9	3	1		Lifting, falls, construction
Mass.	15	X	X	X				2				Falls, bruises, strain, burns
Me.												
N.H.	6	X	X	X								
R.I.	6	X	X	X				4				
Vt.	X	X		X	1			2				
<b>MIDDLE ATLANTIC*</b>												
N.J.	11	X	X	X	1			18	8			Aerosol exposure, rash, falls
N.Y.												
Pa.	3	X	X	X				2				Falls
<b>EAST NORTH CENTRAL*</b>												
Ill.			X	X								
Ind.	10	X	X	X								
Mich.	11	X	X	X								
Ohio	12	X	X	X				10	2			Possible Herpes exposure
Wisc.	6		X	X				6				
<b>WEST NORTH CENTRAL*</b>												
Ia.	6	X		X				1	2			Burn of hand
Kans.	8	X	X	X								Major chemical spills
Minn.	7	X	X	X	1			20	4			Back injury
Mo.	7	X	X	X				1				
Nebr.												
N.D.	10	X	X	X								
S.D.			X					4				
<b>SOUTH ATLANTIC*</b>												
Del.	4	X	X	X				3				Fall
D.C.												
Fla.	5		X	X								
Ga.	4	X	X	X				1		1		Sprain, Burn
Md.		X	X	X				3	4			
N.C.	8	X	X	X								
S.C.	10	X	X	X								
Va.												
W.Va.	5	X	X	X								Bruised foot
<b>EAST SOUTH CENTRAL*</b>												
Ala.	6	X	X	X	3			17	1	3	1	Back hurt, smashed finger, chemical exposure
Ky.	9		X	X				2				
Miss.		X	X	X								
Tenn.	X		X	X				1				
<b>WEST SOUTH CENTRAL*</b>												
Ark.	12	X	X	X					1			Falls, strained back
La.	30	X	X	X				16				Eye, falls, bite, burns
Okla.	6	X		X				X				Hepatitis B exposure
Tex.	X	X		X								
<b>MOUNTAIN*</b>												
Ariz.	5	X	X	X				2				
Colo.												
Ida.	12	X	X									
Mont.												
Nev.												
N.M.	3	X	X	X				4	1			
Utah	4	X	X	X				4		1		Back injury-lifting
Wyo.												
<b>PACIFIC*</b>												
Alaska	X	X	X	X				10				
Cal.	12		X	X	1			12	2			Physical injury
Hawaii	7	X	X	X				3	1			
Ore.	X	X	X	X				X				Caustic burn, falls, spill, contact, animal scratch
Wash.	9	X	X	X				1	1			Lifting, burn, Clorox in eye
<b>TERRITORIES*</b>												
Guam												
P.R.												
V.I.												

Table 5-3  
LABORATORY SAFETY - Continued

Lab & Region	Lab Has One-Pass Air System in High Hazard Areas	Lab Uses Radioactive Material (Other than RIA or Bactec)	Lab Has Radiation Safety Program	Radionuclides Used By Lab
<b>NEW ENGLAND*</b>				
Conn.	X	X	X	137-Cs, 60-Co, 131-I, 90-Sr, 133-Ba, U-235, 241-Am, 40-K
Mass.	X		X	
Me.				
N.H.	X			
R.I.	X		X	
Vt.				
<b>MIDDLE ATLANTIC*</b>				
N.J.	X	X	X	3-H, 63-Ni, detector cells for gas chromatograph - sealed sources
N.Y.				
Pa.	X		X	
<b>EAST NORTH CENTRAL*</b>				
Ill.	X		X	
Ind.	X	X	X	63-Ni and tritium
Mich.	X			
Ohio	X	X	X	CS-137, Co-60, Zn-65, Ba-133, Cs-134, Fe-59, Sr-90, I-131, Ra-226, Am-241
Misc.	X	X	X	Standards to calibrate
<b>WEST NORTH CENTRAL*</b>				
Ia.	X	X	X	226-Ra, 228-Ra, Tritium, 131-I, 90-Sr, 137-Cs, 60-Co, 241-Am, 134-Cs, and other standards
Kans.	X	X	X	Full complement
Minn.	X		X	
Mo.	X			
Nebr.				
N.D.	X	X	X	226-Ra, 137-Cs, b1-I, 60-Co, 3-H, 63-Ni, 241-Am, 90-Sr, 90-Y, 14-C, plus others
S.D.			X	
<b>SOUTH ATLANTIC*</b>				
Del.		X	X	238-U, 137-Cs
D.C.				
Fla.				
Ga.	X		X	
Md.	X	X	X	90-Sr, 89-Sr, Tritium, 85-Sr, 90-Sr/90-Y, 88-Y, 65-Zn, 110m-Ag, 60-Co, 134-Cs, 137-Cs, 144-Ce, Am-241, 131-I
N.C.	X	X	X	51-Cr, 60-Co, 65-Zn, 89Sr/90-Sr, Zr/95Nb, 131-I, 134-Cs, 140-Cs, 140-Ba, 144-Ce, 226-Ra/228-Ra, 232-Th, 238-Th, 238-U, 239-Pu, 241-Am, 210-Po
S.C.	X	X	X	63-Ni, 3-H, 57-Co
Va.				
W.Va.	X		X	
<b>EAST SOUTH CENTRAL*</b>				
Ala.	X		X	
Ky.	X			
Miss.	X			
Tenn.			X	
<b>WEST SOUTH CENTRAL*</b>				
Ark.	X		X	Atomic #1 - 95 inclusive
La.	X	X	X	Alpha, Beta, Gamma emitters
Okla.	X		X	
Tex.	X	X	X	Full complement - alpha beta gamma
<b>MOUNTAIN*</b>				
Ariz.	X	X	X	63-Ni
Colo.				
Ida.	X		X	
Mont.				
Nev.				
N.M.	X	X	X	Radium 226, 228, pb-210, strontium
Utah	X	X	X	110-Ag, 241-Am, 133-Ba, 140-Ba, 7-Be, 207-Bi, 14-C, 144-Ce, 134-Cs, 57-Co, 60-Co, 51-Cr, 3-H, 125-I, 40-K, 22-Na, 63-Ni, 239-Pu, 241-Pu, 226-Ra, 228-Ra, 106-Ru, 1146-Sc, 185-Sr, 190-Sr, 228-Th, 232-Th, 204-Tl
Wyo.				
<b>PACIFIC*</b>				
Alaska			X	
Cal.	X	X	X	14-C, 35-S, 51-Cr, 125-I, plus small quantities of calibration standards
Hawaii	X	X	X	63-Ni for gas chromatography detector
Ore.	X		X	
Wash.			X	
<b>TERRITORIES*</b>				
Guam				
P.R.				
V.I.				

Table 5-4  
CHLAMYDIA

Lab & Region	Number of Specimens Cultured FY 1983	Number of Positive Specimens	Transport Procedure Followed				Specimens Used For Chlamydia Testing
			Special Transport Medium (Specify)	Frozen > 24 Hours	Refrigerated < 24 Hours	Unrefrigerated	
NEW ENGLAND*							
Conn.							
Mass.							
Me.							
N.H.							
R.I.							
Vt.							
MIDDLE ATLANTIC*							
N.J.	497	55	2 SP				Endourethral and endocervical swabs
N.Y.							
Pa.							
EAST NORTH CENTRAL*							
Ill.							
Ind.							Paired, acute-convalescent sera for CF test
Mich.	252	12	2 SP				Urethral and urogenital swabs
Ohio	2,609	183	Sucrose Phosphate	X	X		Male: urethra-endourethral swab, epididymitis- aspirate, Female: cervi-endocervical swab, urethra-swab, fallopian tubes-lumens/swab or tissue biopsy, LCV: pus and aspirates
Wisc.	7,628	534	2 SP		X		Cervical and rectal, urethral and rectal Tracheal aspirates-babies
WEST NORTH CENTRAL*							
Ia.	6,938	11	2 SP		X		Urethral swab
Kans.	142	24	ZPS	X	X		Males-urethral specimens collected 4-6 cm with rotation. Females-endourethral 4-6 cm from meatus and/or cervical specimens with second swab after initial cleaning away debris with first swab.
Minn.							
Mo.							
Nebr.							
N.D.			Antibiotics		X		Urethral
S.D.							Serum of CF
SOUTH ATLANTIC*							
Del.	202	37	Bartels	X	X		NGU-urethral swab from male and female PID-endocervical swab from female LGV-urethral swab and aspirate from lymph node from both male and female. IC-conjunctival swab PNB-nasopharyngeal swab
D.C.							
Fla.							
Ga.	65	13	Special	X			Eye, throat or genital swabs with cells collected
Md.	3,938	416	2 SP		X		Nasopharyngeal swabs, cervical, vaginal, urethral Bubo biopsy
N.C.	1,800	250	TSP		X		Eye-conjunctiva, endocervix, tracheal aspirations
S.C.	4,677	522	2 SP		X		Urethral, cervical, vaginal, eye, nasal
Va.							
W.Va.							
EAST SOUTH CENTRAL*							
Ala.							
Ky.							
Miss.							
Tenn.	587	143	2 SP		X		Genital-urethral
WEST SOUTH CENTRAL*							
Ark.							
La.							
Okl.							
Tex.	1,250	84	2 SP			X	
MOUNTAIN*							
Ariz.			2 SP	X	X		Eye, epididymis, urethra (M & F), cervi, Fallopian tubes
Colo.							
Ida.							
Mont.							
Nev.							
N.M.	500	50	2 SP				Psittacosis (bird parts)
Utah	623	132	2 SP		X		Trachomatous - urethral, endocervical
Wyo.							
PACIFIC*							
Alaska							
Cal.			X				Urethral and cervical swabs
Hawaii							
Ore.							
Wash.							
TERRITORIES*							
Guam							
P.R.							
V.I.							

Table 5-5  
HERPES SIMPLEX

Lab & Region	Number of Herpes Simplex Specimens Tested	Procedure Followed To Identify Virus	Isolation Techniques Used
NEW ENGLAND*			
Conn.	6,320	FA, PAP	X
Mass.	1,020	Neutralization	X
Me.			
N.H.			
R.I.			
Vt.			
MIDDLE ATLANTIC*			
N.J.	683	FA	X
N.Y.			
Pa.	363	FA-monoclonal antibody Microneutralization	X
EAST NORTH CENTRAL*			
Ill.	1,758	Chloroform sensitivity CPE	X
Ind.	838	FA-monoclonal antibody	X
Mich.		Serologic procedures, neutralization, ELISA	
Ohio	5,867	Immunofluorescence	X
Wisc.	5,176	Direct FA	X
WEST NORTH CENTRAL*			
Ia.	2,111	CF, Immunofluorescence	X
Kans.	803	Tissue culture CPE	X
Minn.	2,300	Neutralization	X
Mo.			
Nebr.			
N.D.	200	IFA, FA, CF	X
S.D.	294	FA	X
SOUTH ATLANTIC*			
Del.	1,437	FA	X
D.C.			
Fla.	994	FA, serum neutralization	X
Ga.	1,646	Immunofluorescence	X
Md.	790	Cytopathogenic effect	X
N.C.	3,000	CPE in tissue culture	X
S.C.	4,777	FA, Monoclonal antibody	X
Va.			
W.Va.	408	Serological EIA	X
EAST SOUTH CENTRAL*			
Ala.	1,155	CF	X
Ky.	221	FA, Neutralization	X
Miss.			
Tenn.	1,107	Neutralization	X
WEST SOUTH CENTRAL*			
Ark.	52	CF	X
La.	1,622	Serologies performed	X
Okla.	254	CF	
Tex.	381	FA	X
MOUNTAIN*			
Ariz.	886	Cell culture with blood ID techniques	X
Colo.			
Ida.	2,424	CPE in viro cells	X
Mont.			
Nev.			
N.M.	520	FA	X
Utah	1,723	CPE & neutralization	X
Wyo.			
PACIFIC*			
Alaska	2,469	CPE/cell culture	X
Cal.	563	Immunofluorescence	X
Hawaii			X
Ore.	1,156	Neutralization, CF	X
Wash.	380	FA conjugate, monoclonal	X
TERRITORIES*			
Guam			
P.R.			
V.I.			