

CONSOLIDATED ANNUAL REPORT

on

State and Territorial
Public Health
Laboratories

Fiscal Year 1984

June 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

(DRAFT COPY)

ASSOCIATION MEMBERS NOT PROVIDING DATA TO THE CONSOLIDATED ANNUAL REPORT 1980-1984

CAR EDITION	1980	1981	1982	1983	1984
NO. STATES REPORTING	53/54	52/54	49/54	43/54	45/54
NON-REPORTING STATES (POPULATION X 1000)	NEW YORK (17,648)	NEW YORK (17,648)	NEW YORK (17,602)	NEW YORK (17,602)	NEW YORK (17,598)
		NEW HAMPSHIRE (887)	MASSACHUSETTS (5,773)	WASHINGTON D.C. (631)	WASHINGTON D.C. (631)
			NEBRASKA (1,577)	NEBRASKA (1,577)	NEBRASKA (1,586)
			VIRGIN ISLANDS (99)	VIRGIN ISLANDS (99)	VIRGIN ISLANDS (102)
				COLORADO (2,965)	COLORADO (3,045)
				MAINE (1,133)	MICHIGAN (9,109)
				MONTANA (793)	MONTANA (801)
				NEVADA (845)	NEVADA (881)
				VIRGINIA (5,430)	VIRGINIA (5,491)
				GUAM (110)	
				WYOMING (492)	
POPULATION OF NON-REPORTING STATES (X 1000)	17,648	18,535	25,896	31,677	39,244
TOTAL U. S. (POPULATION) (X 1000)	223,488	223,667	232,771	232,771	234,941
PERCENTAGE POPULATION NOT REPORTED	8%	8%	11%	14%	17%

ASSOCIATION OF STATE AND TERRITORIAL
PUBLIC HEALTH LABORATORY DIRECTORS

1984 - 1985

President	Dr. W. J. Hausler, Jr. Iowa
President-Elect	Dr. Francis M. Urry Utah
Secretary-Treasurer	Dr. Raymond G. Lundgren Rhode Island
Consolidated Annual Report Ad Hoc Committee	Dr. A. Richard Melton (Chairman) South Dakota
	Dr. Roger H. Carlson Kansas
	Dr. Philip W. Haines Maine
	Dr. Douglas Abbott Montana
	Dr. E. Charles Hartwig Florida
	Dr. Henry Bradford Louisiana
	Dr. Loris W. Hughes New Mexico

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.

A. Richard Melton
Chairman, CAR Committee

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INTRODUCTION

This, the twenty-first 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-five of the fifty-four member laboratories provided data for this edition. Colorado, the District of Columbia, Michigan, Montana, Nebraska, Nevada, New York, Virginia, and the Virgin Islands did not report to the CAR for fiscal year 1984. National totals found in this edition, therefore, represent only forty-five state and territorial public health laboratories.

The CAR deals with financial, personnel, and workload activities of ASTPHLD. It totally omits those funds expended for public health laboratory services by other state/territorial agencies. Therefore, this report understates the additional resources expended on public health laboratory services in nearly every state/territory having local health departments. If some type of activity is not 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 1984 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.

Software has been developed for the production of future CAR reports on a more timely response basis, 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 1983 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. An "average", in a table, is the total divided by the number of participating laboratories reporting activity in a given category or sub-category.

PUBLICATION

The CAR, initiated by ASTPHLD in 1963, 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, Division of Management Development and Consultation, 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, LPD
Attn: CAR Editor
24 Executive Park
Centers for Disease Control
Atlanta, Georgia 30333

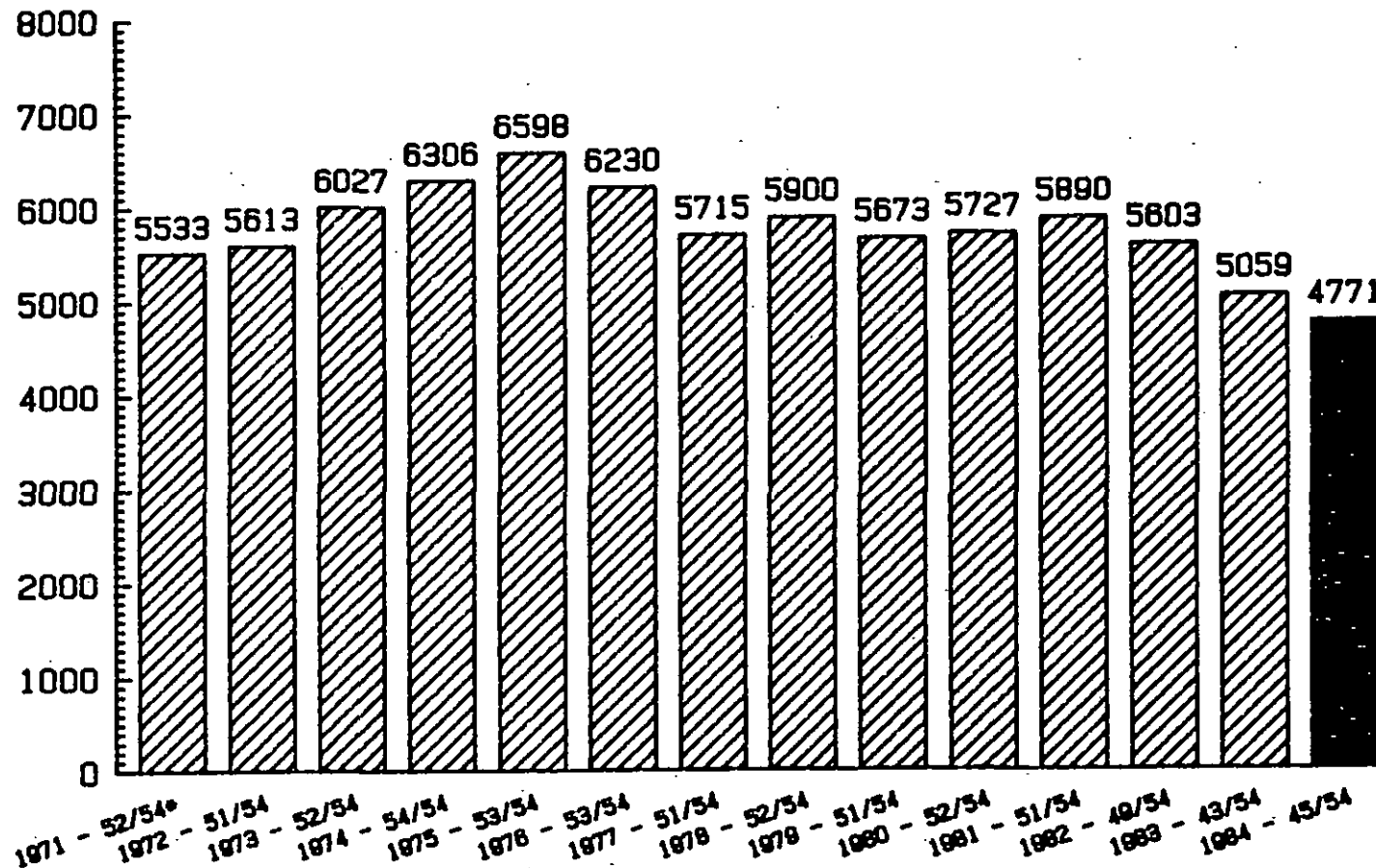
1967-1968, A. J. 1967
The 1967-1968 season 1968
The 1967-1968 season 1967
The 1967-1968 season 1968
The 1967-1968 season 1968
The 1967-1968 season 1968

SECTION I

SUMMARY TABLES

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

NUMBER OF POSITIONS



YEAR OF CONSOLIDATED ANNUAL REPORT

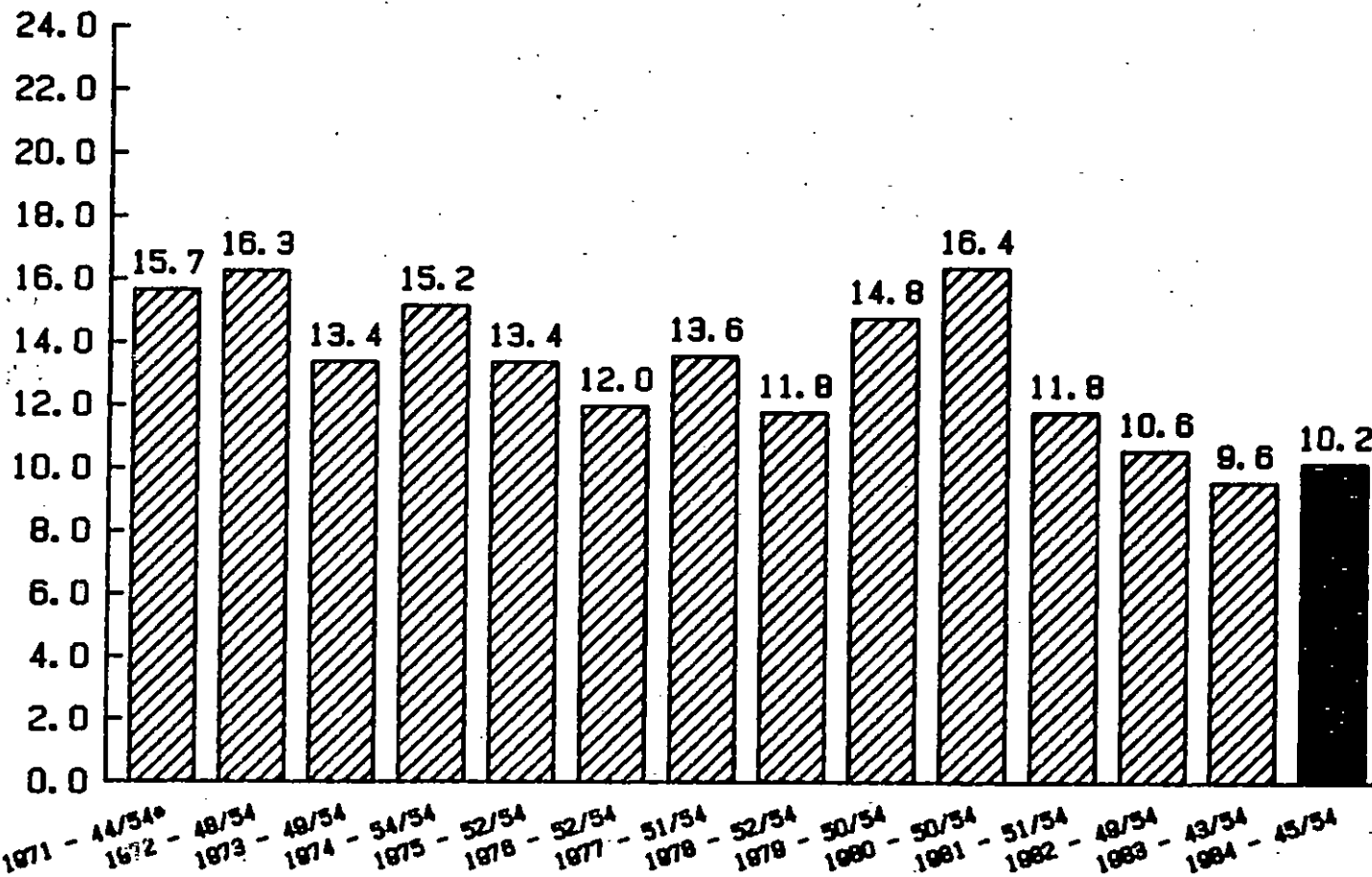
*52/54-INDICATES 52 LABS REPORTED THIS TYPE DATA OUT OF A UNIVERSE OF 54 LABS.

DIVISION OF A UNIVERSE OF 54 LABS
*25 LABS INDICATED AS LABS REPORTED THIS TYPE

LEVEL OF CONSOLIDATED ANNUAL REPORT

TABLE 1-2
PERCENTAGE OF TURNOVER IN ALL POSITIONS

PERCENTAGE OF TURNOVER

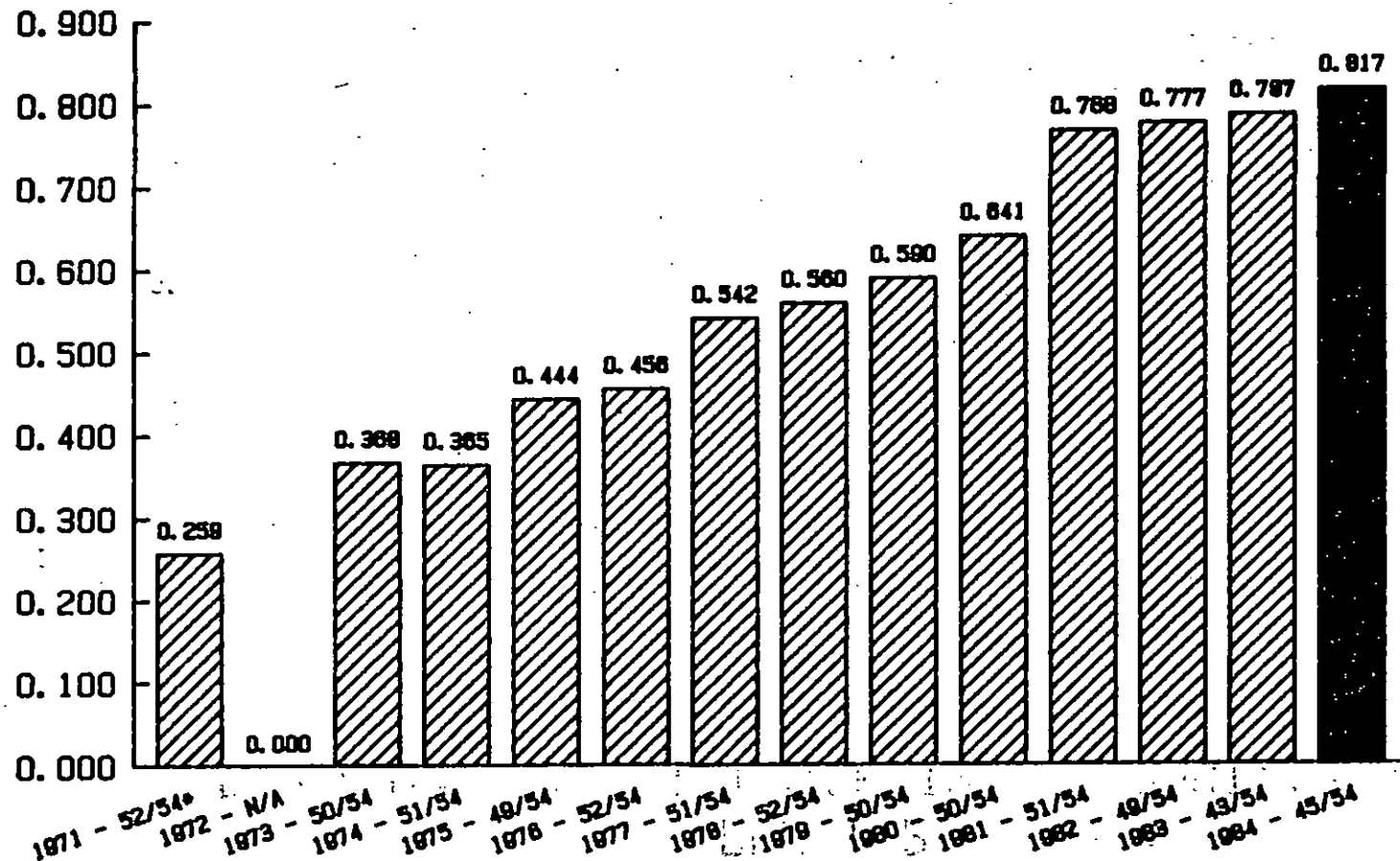


YEAR OF CONSOLIDATED ANNUAL REPORT

*44/54-INDICATES 44 LABS REPORTED THIS TYPE
DATA OUT OF A UNIVERSE OF 54 LABS.

TABLE 1-3
LABORATORY EXPENDITURES PER CAPITA

PER CAPITA EXPENDITURES

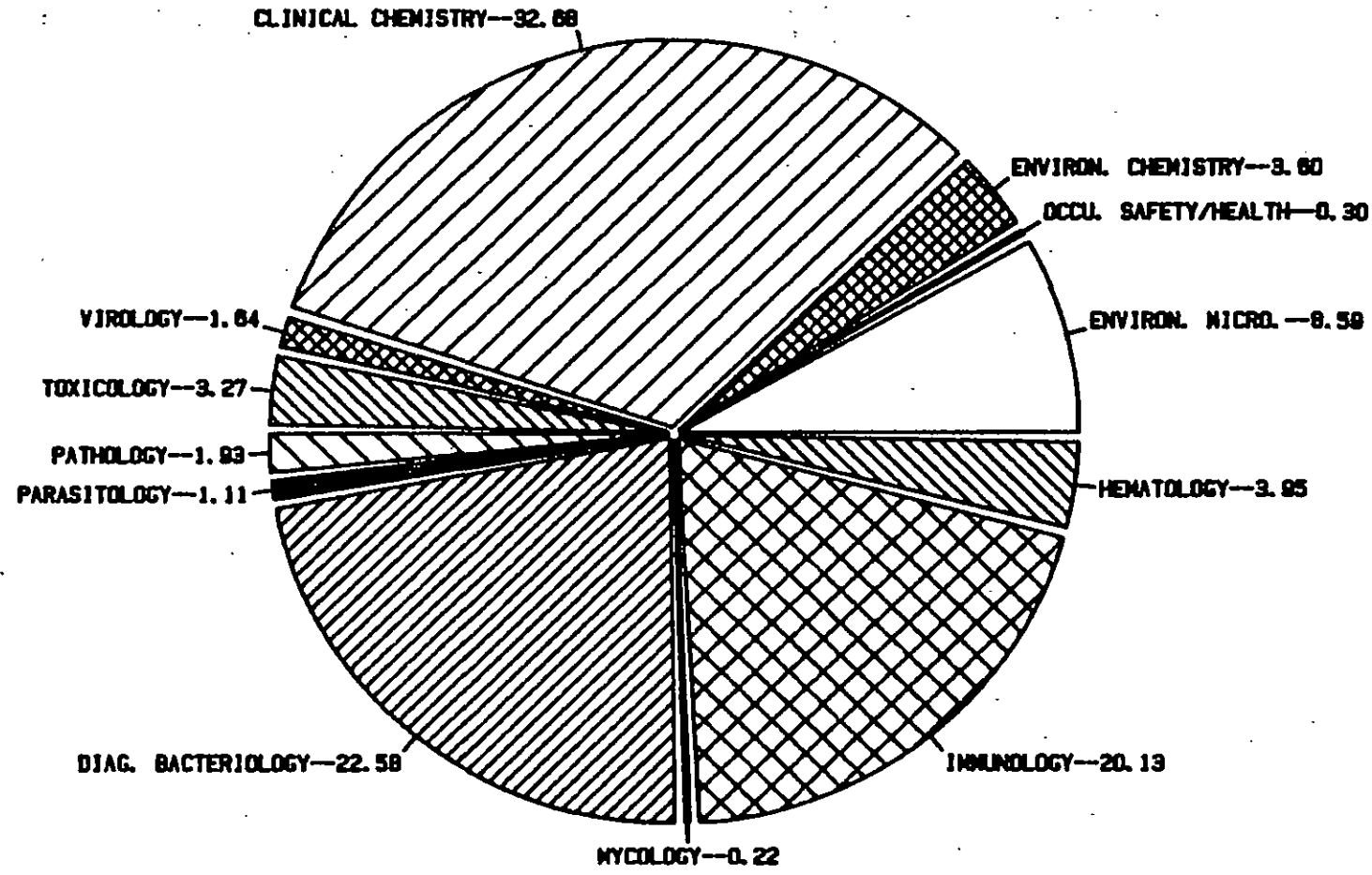


YEAR OF CONSOLIDATED ANNUAL REPORT

*52/54=INDICATES 52 LABS REPORTED THIS TYPE DATA OUT OF A UNIVERSE OF 54 LABS.

STATE	LABORATORY	CLINICAL CHEMISTRY	DIAG. BACTERIOLOGY	IMMUNOLOGY	ENVIRON. MICRO.	HEMATOLOGY	TOXICOLOGY	VIROLOGY	ENVIRON. CHEMISTRY	OCCL. SAFETY/HEALTH	MYCOLOGY	PARASITOLOGY	PATHOLOGY
AL	LAB. 15	584	137	15	15	15	15	15	15	15	15	15	15
AK	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
AR	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
CA	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
CO	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
CT	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
DC	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
DE	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
FL	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
GA	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
HI	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
IA	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
ID	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
IL	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
IN	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
KS	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
KY	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
LA	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
MA	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
MD	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
ME	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
MI	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
MN	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
MO	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
MS	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
MT	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
NC	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
ND	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
NE	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
NH	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
NJ	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
NM	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
NV	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
NY	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
OH	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
OK	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
OR	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
PA	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
RI	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
SC	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
SD	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
TN	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
TX	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
UT	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
VA	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
VT	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
WA	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
WI	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
WV	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15
WY	LAB. 15	15	15	15	15	15	15	15	15	15	15	15	15

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



1984
 PIE VALUES ARE EXPRESSED AS PERCENTAGES

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	Main- tenance
						Budgeted Pos.	Resig Sep.	Turn- over		
TOTAL	4,508.48	461.55	10.24	23.00	86.00	2,714.40	272.55	10.04	64.00	16.00
Average	100.19	10.24	0.23	0.51	1.91	69.32	8.06	0.22	1.42	0.36
NEW ENGLAND*	551.25	66.25	12.02	2.00	12.00	255.75	32.75	12.81	7.50	12.00
Conn.	198.00	13.00	6.57		4.00	24.00	5.00	20.83	4.00	
Mass.	165.00	39.00	18.40	1.00	5.00	93.00	11.00	11.83	1.00	12.00
N.H.	48.00	1.00	2.50	1.00		33.00		9.00		
N.H.	29.25	6.25	21.37			10.75	5.75	30.67	0.50	
R.I.	97.00	11.00	12.36		1.00	46.00	8.00	12.12	2.00	
Vt.	32.00	5.00	15.63		2.00	21.00	3.00	14.29		
MIDDLE ATLANTIC*	254.00	4.00	1.56	0.00	1.00	172.00	1.00	0.58	2.00	0.00
N.J.	189.00	0.00	0.00			141.00		0.00		
N.Y.	9.00	0.00	0.00					0.00		
Pa.	67.00	4.00	5.97		1.00	31.00	1.00	3.23	2.00	
EAST NORTH CENTRAL*	523.00	74.50	14.24	5.00	7.00	342.00	49.00	13.54	13.50	0.00
Ill.	118.00	8.00	6.78	1.00	2.00	74.00	4.00	5.41	1.00	
Ind.	88.00	20.00	22.73	1.00		74.00	14.00	18.92	5.00	
Mich.	0.00	0.00	0.00					0.00		
Ohio	124.00	23.00	18.55	1.00	1.00	84.00	18.00	21.43	3.00	
Misc.	193.00	23.50	12.19		2.00	130.00	13.00	10.00	4.50	
WEST NORTH CENTRAL*	358.50	63.00	17.57	6.00	10.00	233.50	40.00	17.13	7.00	0.00
Ind.	91.00	20.00	21.98	3.00	5.00	67.00	10.00	14.93	2.00	
Kans.	70.00	7.00	10.00			44.00	8.00	13.64	1.00	
Illin.	62.00	7.00	11.29	1.00	1.00	41.00	4.00	9.76	1.00	
Mo.	74.00	4.00	5.41		2.00	47.00	1.00	2.13	1.00	
Nebr.	0.00	0.00	0.00					0.00		
N.D.	36.50	14.00	38.36		1.00	20.00	13.00	65.00		
S.D.	25.00	11.00	44.00	2.00	1.00	14.50	8.00	41.38	2.00	
SOUTH ATLANTIC*	1,014.50	107.00	10.55	2.00	22.00	653.10	74.00	11.33	9.00	0.00
Del.	34.00	8.00	23.53		1.00	22.10	2.00	9.05	3.00	
D.C.	0.00	0.00	0.00					0.00		
Fla.	268.00	39.00	14.53	1.00	6.00	185.00	31.00	16.76	1.00	
Ga.	114.00	12.00	10.53		4.00	85.00	8.00	14.35		
Mo.	287.50	9.00	3.19		1.00	207.00	5.00	2.42	3.00	
N.C.	167.50	31.00	18.51	1.00	7.00	111.00	21.00	18.92	2.00	
S.C.	106.00	7.00	6.60			73.00	7.00	9.59		
Va.	0.00	0.00	0.00					0.00		
W.Va.	43.00	3.00	6.98		3.00			0.00		
EAST SOUTH CENTRAL*	401.00	33.00	8.23	0.00	4.00	167.00	20.00	11.98	8.00	1.00
Ala.	133.00	1.00	0.75		1.00			0.00		
Ky.	57.00	5.00	8.77		1.00	41.00	3.00	7.32	1.00	
Miss.	45.00	3.00	6.67			25.00	2.00	8.00	1.00	
Tenn.	166.00	24.00	14.46		2.00	101.00	15.00	14.85	6.00	1.00
WEST SOUTH CENTRAL*	485.00	43.00	8.87	3.00	12.00	332.00	24.00	7.23	2.00	2.00
Ark.	79.00	2.00	2.53			53.00	2.00	3.77		
La.	136.00	12.00	8.89	1.00	2.00	93.00	4.00	8.32	1.00	2.00
Ola.	51.00	2.00	3.92		1.00	40.00		0.00	1.00	
Tex.	199.00	27.00	13.57	2.00	9.00	144.00	16.00	11.11		
MOUNTAIN*	282.50	27.00	9.54	3.00	8.00	184.50	12.80	6.88	3.00	1.00
Ariz.	63.00	8.00	12.70	1.00	3.00	40.00	3.00	7.50	1.00	
Colo.	0.00	0.00	0.00					0.00		
Ida.	55.33	7.80	14.10	1.00	4.00	34.00	1.80	3.00		1.00
Mont.	0.00	0.00	0.00					0.00		
Nebr.	0.00	0.00	0.00					0.00		
N.M.	90.00	10.00	11.11	1.00	1.00	40.00	7.00	11.67	1.00	
Utah	59.50	1.00	1.68			39.50		0.00	1.00	
Wyo.	14.75	1.00	6.78			11.00	1.00	9.09		
PACIFIC*	534.45	43.00	8.01	2.00	10.00	352.53	19.00	5.39	12.00	0.00
Alaska	42.00	13.00	30.95		5.00	24.00	5.00	20.83	3.00	
Cal.	393.90	18.00	4.57	1.00	3.00	265.05	10.40	3.77	4.00	
Hawaii	53.00	5.00	9.43		2.00	39.50	1.00	2.53	2.00	
Ore.	47.75	7.00	14.66	1.00		24.00	3.80	12.50	3.00	
Wash.	78.00	0.00	0.00					0.00		
TERRITORIES*	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Guam	12.00	0.00	0.00					0.00		
P.R.	88.00	0.00	0.00					0.00		
V.I.	0.00	0.00	0.00					0.00		

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

Lab & Region	I Diagnostic Bacteriology		II Mycology		III Parasitology		IV Virology		V Immunology		VI Hematology		VII Clinical Chemistry		VIII Pathology	
TOTAL Average*	507.94	0.57	53.44	0.52	51.38	-2.44	246.12	6.75	223.60	-1.70	57.80	1.60	238.95	2.50	68.00	1.00
NEW ENGLAND*	65.45	0.75	4.20	0.00	7.60	-0.50	19.20	3.00	24.00	2.30	1.00	-1.00	19.00	-3.00	0.00	0.00
Conn.	14.00	-1.00	1.00		4.00		4.00		14.00		1.00	-1.00	14.00			
Mass.	29.00	2.00	2.00		1.00		8.00	1.00					1.00	-3.00		
Me.	7.50	0.50	1.00		1.00		4.00				IV					
N.H.	4.70		0.20		0.10		1.20	1.00	2.80	1.80						
R.I.	6.50	0.50	0.50		1.00		0.50		4.00				4.00			
Vt.	3.75	-1.25	0.50		1.50	-0.50	1.50	1.00	3.40	0.50						
MIDDLE ATLANTIC*	23.00	-1.00	6.00	0.00	1.00	0.00	29.00	0.00	9.00	0.00	3.00	0.00	11.00	-1.00	0.00	0.00
N.J.	23.00	-1.00	1.00		1.00		20.00		9.00		0.00	0.00	10.00	-1.00		
N.Y.																
Pa.			5.00				9.00				3.00		1.00			
EAST NORTH CENTRAL*	54.00	-10.00	7.00	0.00	4.00	-1.00	28.00	-1.00	28.00	-1.00	0.00	0.00	35.00	1.00	16.00	-1.50
Ill.	15.00	-2.00	1.00		1.00		4.00		6.00	1.00			8.00	2.00		
Ind.	12.00		2.00		2.00		4.00		3.00							
Mich.																
Ohio	19.00	-8.00	1.00		1.00		5.00	-1.00	5.00	-2.00			9.00			
Misc.	8.00		3.00		2.00	-1.00	15.00		12.00				18.00	-1.00	16.00	-1.50
WEST NORTH CENTRAL*	39.30	-5.50	3.80	0.00	7.40	-0.30	26.20	1.70	25.80	-0.80	0.20	-0.30	18.00	1.00	1.50	0.50
Ia.	6.00	-2.00	1.00		1.00		8.00		4.00				6.00	1.00		
Kans.	10.00		1.00		3.00		4.00		2.00				2.00			
Mich.	10.00		1.00		1.00		5.00	1.00	10.00				4.00		1.50	0.50
Mo.	8.00		0.50		1.50		5.50		7.00				5.00			
Wabr.																
M.D.	4.30	-3.10	0.20	I	0.40	I	2.20	1.20	1.30	-0.50	0.20	-0.30	1.00			
S.B.	1.00	-0.40	0.10		0.70	-0.30	1.50	-0.50	0.70							
SOUTH ATLANTIC*	94.45	-3.70	8.30	-0.50	8.10	0.40	53.95	2.25	37.75	0.65	31.60	-2.10	47.45	1.50	44.00	2.00
Dal.	4.00		0.95		0.40		4.95		0.45		0.70		0.45		4.00	
D.C.																
Fla.																
Ga.	18.15	-1.00	1.50		3.75	0.50	5.50	0.25	11.50	0.25	3.50	-0.50	10.00			
Md.	40.00		1.00		1.00		29.00	1.00	5.00		9.00	1.00	20.00	1.00	14.00	
N.C.	9.00		1.25		1.75		7.50		9.50		4.00	-1.00	13.00	1.00	23.00	2.00
S.C.	16.80	-2.20	3.00		1.20	-0.10	7.00	1.00	10.10	1.40	14.40	-1.60	VI			
Va.																
N.Va.	7.50	-0.50	1.50	-0.50	I		I		1.00	-1.00			4.00	-0.50	3.00	
WEST SOUTH CENTRAL*	72.00	1.00	4.00	1.00	5.00	0.00	10.00	-1.00	28.00	-2.00	3.00	0.00	22.00	-1.00	0.00	0.00
Ala.	24.00		2.00		2.00	-1.00	5.00		20.00	1.00	2.00		7.00			
Ky.	4.00				1.00		2.00		5.00		1.00		11.00	-1.00		
Miss.																
Tenn.	44.00	1.00	2.00	1.00	2.00	1.00	3.00	-1.00	3.00	-3.00			4.00			
WEST SOUTH CENTRAL*	73.00	20.00	4.00	0.00	8.00	-1.00	20.00	0.00	32.00	-2.00	13.00	4.00	33.00	4.00	0.00	0.00
Ark.	10.00	1.00	1.00		1.00		1.00		5.00	1.00	1.00		5.00	1.00		
La.	11.00		1.00		1.00		2.00		11.00		2.00		7.00			
Dkla.	21.00		1.00		1.00		3.00		3.00		4.00		3.00			
Tex.	31.00	19.00	2.00		6.00	-1.00	14.00		13.00	-3.00	6.00	4.00	18.00	3.00		
MOUNTAIN*	31.20	-0.40	6.00	0.00	0.50	0.00	14.50	0.50	10.00	0.00	0.00	0.00	8.00	0.00	6.50	0.00
Ariz.	8.00	-1.00	2.50		1.00		5.00		IV							
Colo.																
Ida.	11.20	1.60	0.50				2.50	0.50	1.00						3.00	
Mont.																
Nev.																
N.H.	6.00	-1.00	2.50		I		4.00		5.00		V		4.00		3.50	
Utah	2.00		1.00		0.50		3.00		3.00				4.00			
Wyo.	4.00								1.00							
PACIFIC*	49.54	-1.50	8.14	0.02	4.50	-0.04	39.27	1.30	24.85	1.15	0.00	0.00	39.50	0.00	0.00	0.00
Alaska	9.04	-1.50	8.14	0.02	1.50	-0.04	4.12	0.15	4.35	1.15						
Cal.	12.00		6.50				29.15	1.15	13.50				28.00			
Hawaii	14.50		0.50		2.60		2.00		2.00				0.50			
Ore.	8.00		1.00		1.00		2.00		4.00				8.00			
Wash.	8.00		1.00		1.00		2.00		1.00				3.00			
TERRITORIES*	6.00	1.00	2.00	0.00	3.00	0.00	6.00	0.00	5.00	0.00	6.00	1.00	6.00	0.00	0.00	0.00
Guam	2.00	1.00	1.00		1.00		1.00		1.00		2.00	1.00	1.00			
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*	159,822,503	119,553,215	74.8	7,084,145	4.4	13,609,249	8.5	14,734,452	9.2	4,841,442	3.0
Average*	3,551,611	2,656,738		157,425		302,428		327,432		107,388	
NEW ENGLAND*	21,268,484	17,357,064	81.6	442,670	2.1	655,501	3.1	1,136,855	5.3	1,676,394	7.9
Conn.	7,541,535	7,248,807	96.1	152,984	2.0	138,350	1.8		0.0	1,394	.0
Mass.	7,620,420	5,498,289	72.2	98,412	1.3	251,819	3.3	96,900	1.3	1,673,000	22.0
Me.	1,283,025	483,648	37.7		0.0	47,036	3.7	752,341	58.6		0.0
N.H.	813,434	683,760	84.1	98,176	12.1	31,498	3.9		0.0		0.0
R.I.	3,179,459	2,892,045	91.0		0.0		0.0	287,614	9.0		0.0
Vt.	830,411	550,515	66.3	93,098	11.2	186,798	22.5		0.0		0.0
MIDDLE ATLANTIC*	10,592,306	8,368,232	79.0	550,000	5.2	701,333	6.6	972,739	9.2	0	0.0
N.J.	7,224,106	5,699,817	78.9	550,000	7.6	224,820	3.1	749,469	10.4		0.0
N.Y.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA
Pa.	3,368,200	2,668,415	79.2		0.0	476,515	14.1	223,270	6.6		0.0
EAST NORTH CENTRAL*	17,901,899	9,312,619	52.0	694,455	3.9	2,730,121	15.3	5,056,171	28.2	108,533	0.6
Ill.	3,530,138	3,399,139	96.3		0.0	131,003	3.7		0.0		0.0
Ind.	2,445,300	2,013,565	82.3	277,733	11.4	154,002	6.3		0.0		0.0
Mich.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA
Ohio	4,423,678	404,445	9.1	108,765	2.5	1,697,261	38.4	2,104,674	47.6	108,533	2.5
Wisc.	7,502,783	3,495,474	46.6	307,957	4.1	747,855	10.0	2,951,497	39.3		0.0
WEST NORTH CENTRAL*	12,211,342	7,889,134	64.6	771,465	6.3	1,938,971	15.9	1,535,544	12.6	76,228	0.6
Ia.	4,074,383	2,019,385	49.6	655,465	16.1	78,416	1.9	1,321,117	32.4		0.0
Kans.	2,033,994	1,751,694	86.1		0.0	282,300	13.9		0.0		0.0
Minn.	2,002,247	1,563,653	78.1		0.0	377,053	18.8	61,541	3.1		0.0
Mo.	2,037,882	1,032,156	50.6		0.0	929,498	45.6		0.0	76,228	3.7
Nebr.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA
N.D.	1,041,804	691,915	66.4		0.0	271,704	26.1	78,185	7.5		0.0
S.D.	1,021,032	830,331	81.3	116,000	11.4		0.0	74,701	7.3		0.0
SOUTH ATLANTIC*	27,911,423	22,248,669	79.7	284,713	1.0	1,897,672	6.8	2,766,085	9.9	714,284	2.6
Del.	826,403	597,207	72.3	5,856	0.7	223,340	27.0		0.0		0.0
D.C.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA
Fla.	7,422,598	5,494,321	74.0	100,000	1.3	320,000	4.3	1,293,103	17.4	215,174	2.9
Ga.	3,536,800	3,224,665	91.2		0.0	137,135	3.9	175,000	4.9		0.0
Md.	6,457,268	5,868,630	90.9	178,857	2.8	363,758	5.6	28,179	0.4	17,844	0.3
N.C.	4,480,935	3,203,662	71.5		0.0	595,446	13.3	681,827	15.2		0.0
S.C.	4,197,507	3,059,855	72.9		0.0	68,410	1.6	587,976	14.0	481,266	11.5
Va.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA
W.Va.	989,912	800,329	80.8		0.0	189,583	19.2		0.0		0.0
EAST SOUTH CENTRAL*	11,477,483	7,464,489	65.0	307,108	2.7	1,072,501	9.3	1,192,543	10.4	1,440,842	12.6
Ala.	4,366,605	3,601,282	82.5	307,108	7.0	458,215	10.5		0.0		0.0
Ky.	1,932,071	1,284,198	66.5		0.0		0.0	647,873	33.5		0.0
Miss.	1,360,477	414,437	30.5		0.0	448,257	32.9	497,783	36.6		0.0
Tenn.	3,818,330	2,164,572	56.7		0.0	166,029	4.3	46,887	1.2	1,440,842	37.7
WEST SOUTH CENTRAL*	16,184,215	12,517,633	77.3	1,050,462	6.5	1,791,159	11.1	1,825	.0	823,136	5.1
Ark.	1,976,136	1,782,352	90.2		0.0	123,537	6.3		0.0	70,247	3.6
La.	4,419,743	3,124,845	70.7	68,762	1.6	471,422	10.7	1,825	.0	752,889	17.0
Okla.	1,497,436	1,497,436	100.0		0.0		0.0		0.0		0.0
Tex.	8,290,900	6,113,000	73.7	981,700	11.8	1,196,200	14.4		0.0		0.0
MOUNTAIN*	10,046,620	8,236,663	82.0	389,247	3.9	579,297	5.8	841,413	8.4	0	0.0
Ariz.	1,791,228	1,675,416	93.5	115,812	6.5		0.0		0.0		0.0
Colo.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA
Ida.	2,019,126	1,401,354	69.4		0.0	342,772	17.0	275,000	13.6		0.0
Mont.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA
Nev.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA
N.M.	3,490,986	3,002,248	86.0	141,734	4.1	139,290	4.0	207,714	6.0		0.0
Utah	2,199,800	1,656,900	75.3	131,701	6.0	52,500	2.4	358,699	16.3		0.0
Wyo.	543,480	500,745	91.8		0.0	44,735	8.2		0.0		0.0
PACIFIC*	30,787,288	24,817,184	80.6	2,594,025	8.4	2,144,802	7.0	1,231,277	4.0	0	0.0
Alaska	2,250,800	2,187,800	97.2	21,000	0.9		0.0	42,000	1.9		0.0
Cal.	21,837,670	17,472,337	80.0	2,573,025	11.8	1,792,308	8.2		0.0		0.0
Hawaii	1,419,165	1,419,165	100.0		0.0		0.0		0.0		0.0
Ore.	1,952,930	1,164,755	59.7		0.0	136,898	7.0	649,277	33.2		0.0
Wash.	3,326,723	2,571,127	77.3		0.0	215,596	6.5	540,000	16.2		0.0
TERRITORIES*	1,441,443	1,341,528	93.1	0	0.0	97,890	6.8	0	0.0	2,025	0.1
Guam	285,276	251,046	88.0		0.0	32,205	11.3		0.0	2,025	0.7
P.R.	1,156,167	1,090,482	94.3		0.0	65,685	5.7		0.0		0.0
V.I.	0	NA	NA	NA	NA	NA	NA	NA	NA		NA

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

Source of Funds		Staff Utilized	FTE	Costs	
Lab	Programs Served and Services Provided				
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 0.2 0.1	Pers. TOTAL	4,620 4,620
	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 0.2 0.1 0.1	Pers. TOTAL	7,333 7,333
	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. TOTAL	13,109 13,109
	Medicaid--VDRL (Non-treponemal blood test for syphilis screening)	Micro. III Micro. I Clk. Typist II	0.04 0.33 0.15	Pers. TOTAL	8,979 8,979
	Medicaid--GC (Statewide program for the detection of gonorrhea by cultural methods)	Micro. III	0.02	Pers. TOTAL	440 440
AK	STATE				
	DWI Program (Data Communications Project)	Chemist III	1.0	Equip. TOTAL	30,000 30,000
AR	FEDERAL				
	Fluoride Grant (Public Water Supply Testing)	Lab. Tech. II	1.0	Pers. Supp. TOTAL	14,540 397 14,937

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 Act (Public Water Supply Testing)	Chem. I Lab Tech. II Micro. II Micro. I	1.0 2.0 1.0 1.0	Pers. 95,210 Supp. 12,337 Other 1,053 TOTAL 108,600
	STATE			
	UAMSC--Library and Pharmacy (Toxicology Service)			Other 113,156 TOTAL 113,156
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. 70,922 Supp. 2,433 Other 27,582 TOTAL 100,937
	National Institutes of Health (NIAID) (Characterization and Detection of Viruses and Antibodies)	Res. Spec. II P.H. Micro. II Gen. Lab. Supp.	0.5 0.8 1.4	Pers. 77,081 Supp. 2,704 Equip. 500 Other 23,235 TOTAL 103,520
	NIH, Procurement Branch/National Cancer Institute (NCI) (NCI Collaborative Cancer Virus Studies)	Animal Tech. Gen. Lab. Supp.	2.5 2.3	Pers. 98,539 Supp. 3,061 Other 31,540 TOTAL 133,140
	National Science Foundation (Studies on the Cytopathogen of the Genus Naegleria)	Res. Spec. II Gen. Lab. Supp.	1.0 0.2	Pers. 54,730 Supp. 1,806 Other 18,464 TOTAL 75,000

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
	NIH, National Heart, Lung and Blood Institute (Coxsackieviruses in Chronic Disease: Role in Antigenic Variation	Res. Spec. II Gen. Lab. Supp.	0.5 2.45	Pers. 29,128 Supp. 47,931 Other 24,187 TOTAL 101,246
	Environmental Protection Agency (Water Virology Lab. Unit. Dev- elop 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.)	P.H. Micro. II Gen. Lab. Supp.	1.0 1.0	Pers. 38,667 TOTAL 38,667
	EPA (Evaluate sampling and analyti- cal problems in air pollution monitoring)	Res. Spec. III Off. Asst. II Stud. Asst.	0.5 0.5 0.3	Pers. 64,340 Supp. 9,769 Equip. 1,776 Other 24,109 TOTAL 99,994
	EPA (Analysis of environmental mixtures of short-term bioassays)	Env. Biochem.	0.5	Pers. 62,932 Supp. 12,022 Other 49,707 TOTAL 124,661
	National Science Foundation (Fundamental and applied studies: of particle-surface inter- actions)	Res. Spec. III	0.3	Pers. 25,932 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	0.4	Pers. 117,850 Supp. 8,505 Equip. 13,969 Other 42,680
				TOTAL 183,004
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. 86,892 Supp. 9,000 Other 44,108
				TOTAL 140,000
CARB				
	(Determination of acidity in ambient air)	Res. Sci. III P.H. Chem. II Stud. Asst. Off. Asst.	0.5 0.4 0.5 0.2	Pers. 91,204 Supp. 8,530 Equip. 6,900 Other 34,154
				TOTAL 140,788
PRIVATE				
	American Water Work Association (Field testing and evaluation of a method for concentrating and identifying <u>Giardia lamblia</u> cysts in water and in water supply samples.)	P.H. Micro. II Lab. Supp.	0.8 0.2	Pers. 31,491 Supp. 2,687 Other 15,822
				Total 50,000
FEDERAL				
CT	Medicare (Laboratory Improvement)	Med. Examiner Sr. Sec.	1.0 1.0	Pers. 45,000 Other 15,954
				TOTAL 60,954
Safe Drinking Water Act				
	(Laboratory Standards)	Chemist Lab. Helper	1.0 1.0	Pers. 35,000 Other 11,000
				TOTAL 46,000

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
	EPA (Underground Water Protection)	Sr. Env. Chem. Chemist	1.0 1.0	Pers. 44,000 Other 6,000
				TOTAL 50,000
	Maternal and Child Health (Genetic Disease Screening)	Lab. Asst.	1.0	Pers. 15,000 Other 5,000
				TOTAL 20,000
	STATE			
	Dept. of Environmental Protec- tion (Water Compliance Quality Assurance Laboratory Tests)	Pr. Env. Chem. Sr. Env. Chem.	1.0 2.0	Pers. 77,000 Equip. 43,000
				TOTAL 120,000
	Water Quality (Drinking Water Safety)	Chem. Trainee	1.0	Pers. 15,600
				TOTAL 15,600
DE	State (Arbovirus Surveillance)	Lab. Tech. II	0.4	Pers. 2,681 Supp. 3,175
				TOTAL 5,856
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. 45,772 Supp. 623
				TOTAL 46,395
	Central Florida Research (Research to determine the prevalence of Naegleria in Central Florida lakes)	Bio. Sci. I Bio. Sci. II Lab. Tech. I	2.0 1.0 1.0	Pers. 77,530 Supp. 4,085
				TOTAL 81,615

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
GA	FEDERAL			
	Sexually Transmitted Disease Unit (Gonorrhea Culture Screening)	Lab. Sci. Sr.	1.0	Supp. 50,000
				TOTAL 50,000
	Stroke and Heart Attack Prevention Program (Hypertension Program)	Lab. Sci.	1.0	Supp. 27,135
				TOTAL 27,135
	State DFACS (Refugee Program) (Health Screening for Refugees)	4 Lab. areas		Supp. 60,000
				TOTAL 60,000
ID	FEDERAL			
	EPA Water Pollution Control (Support of water pollution control program)	Clerical Micro. Lab. Asst. Chemist	0.25 1.15 0.17 2.7	Pers. 68,300
				TOTAL 68,300
	Water Systems Supervision (Approval of private labs for performance of tests on public water supplies)	Chemist Micro.	0.28 0.3	Pers. 5,900 Supp. 3,750
				TOTAL 9,650
	Title XVIII Certification, Lab. Improvement Section (Medicare lab. inspection)	Sec. Supv. Surveyor	0.4 0.1	Pers. 18,649 Supp. 2,193 Equip. 9,757
				TOTAL 30,599
	MCH Block Grant--Genetics Program (Support of genetic lab. programs)	Sec. Supv. Med. Tech. Clerical	1.0 0.5 0.5	Pers. 42,794 Supp. 19,896 Other 14,372
				TOTAL 77,062

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
	Genetics Services Improvement, Genetics Program (Extend and improve genetic services)	Clerical Sec. Supv.	0.5 0.4	Pers. 38,957 Supp. 2,000 Other 6,110 TOTAL 47,067
	ADAMH Block Grant, Forensic Program (Drug and alcohol programs)	Criminalists Clerical	3.05 0.75	Pers. 58,039 TOTAL 58,039
	Direct Breath Testing, Traffic Safety Grant (Purchase and evaluate hand- held direct breath testing instruments)	Clerical Criminalist	0.65 2.15	Pers. 8,466 Supp. 7,186 Equip. 11,442 TOTAL 27,094
	Air Pollution Control (Monitoring of air samples)	Chemist Supervisor	0.62 0.15	Pers. 18,000 Supp. 2,000 TOTAL 20,000
IL	FEDERAL			
	Sexually Transmitted Diseases (Statewide monitoring of sexual- ly transmitted diseases)	Lab. Helper Micro. II Clerk Typist	1.0 1.0 1.0	Pers. 52,555 TOTAL 52,555
	FIFRA - Pesticides (Uses residue for pesticides analysis)	Chem. I Lab. Tech. I	1.0 1.0	Pers. 38,133 TOTAL 38,133
	Toxic Substance (Environmental toxicology studies)	Chem. I	1.0	Pers. 14,380 Other 246 TOTAL 14,626

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 (Infant testing for Galactos- emia, PKU, and congenital primary Hypothyroidism)	LSCT	1.0	Pers.	3,735
				Supp.	995
				Equip.	547
				TOTAL	5,277
	Safe Drinking Water (Non-community water supply analyses for chemical/micro- biological contamination)	Chem. II	1.0	Pers.	22,502
				TOTAL	22,502
IA	FEDERAL				
	U. S. Army Corps of Engineers (Provide lab. services for Corps of Engineers water quality studies)		0.45	Pers.	14,273
				Supp.	1,362
				Other	1,158
				TOTAL	16,793
	USGS (Lab. and field services for water quality monitoring for raw water monitoring program)			Pers.	642
				Other	90
				TOTAL	732
	USNRC Radiation Monitoring Prog. (Provide lab. services for rad- iation monitoring program)			Pers.	10,397
				Supp.	908
				Other	1,922
				TOTAL	13,227
	U. S. Army Corps of Engineers (Provide water quality lab. services for Illinois River Project)			Supp.	1,221
				Equip.	5,752
				Other	1,186
				TOTAL	8,159
	EPA Radium Removal Study (Provide lab. services)		1.45	Supp.	5,275
				Equip.	735
				TOTAL	6,010

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

STATE			
Industrial Hygiene (Provision of lab. services for Iowa Bureau of Labor)		2.91	Pers. 63,910 Supp. 13,711 Equip. 11,252 Other 4,766
			TOTAL 93,639

Venereal Disease Screening (Provision of culture services to detect asymptomatic patients for Iowa State Dept. of Health)		1.0	Pers. 28,551 Other 5,140
			TOTAL 33,691

Medicare (ISDH) (Surveys of hospital/independent labs. for Medicare, CLIA, and FDA standards)		1.0	Pers. 32,181 Supp. 6,567 Equip. 6,900 Other 6,587
			TOTAL 52,236

IDWAWM (Provide lab. and field services for water quality monitoring, including data transmittal)		6.14	Pers. 139,983 Supp. 40,879 Equip. 567 Other 30,636
			TOTAL 212,065

IDWAWM (Provide lab. and field services for air quality monitoring)		5.63	Pers. 138,932 Supp. 49,760 Equip. 15,697 Other 31,641
			TOTAL 236,030

IDWAWM (Special monitoring studies)		0.27	Pers. 7,530 Supp. 328 Equip. 400 Other 1,336
			TOTAL 9,594

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			
Iowa Conservation Commission (Provide lab. and field services for water quality monitoring)		0.4	Pers. 6,061 Supp. 1,590 Other 1,528 TOTAL 9,179
Iowa State University (Lab. services for underground injection well study)		0.08	Pers. 1,243 Equip. 5,731 Other 211 TOTAL 7,185
PRIVATE			
Environmental Chemistry (Provision of field and lab. services to private industries)		1.75	Pers. 39,660 Supp. 28,550 Equip. 36,617 Other 15,274 TOTAL 120,101
Internal Programs (Laboratory services and support in metabolic screening)		2.93	Pers. 60,306 Supp. 108,086 Equip. 28,293 TOTAL 196,685
Internal Programs (Proficiency Testing Program, Maternal Screening Program)			Pers. 1,948 Supp. 26 Other 205 TOTAL 2,179
KS FEDERAL			
Medicare Title XVIII (Clinical lab. surveys for Medi- care certification purposes)	Lab. Improve. Specialist	1.0	Pers. 7,892 Supp. 3,480 TOTAL 11,372

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
	Preventive Health Block Grant Fund (Public health lab. support for disease prevention)			Supp. 65,876 TOTAL 65,876
	EPA "208" Water Quality Planning Funds (Ambient water monitoring analyses)			Equip. 85,000 TOTAL 85,000
	Water Supply Funds (Lab. analyses for monitoring public drinking water supplies in the State)			Equip. 64,397 TOTAL 64,397
	PRIVATE			
	Power Generating Fee Fund (Radiologic monitoring of nuclear power plants)	Chemist III Chemist II Chemist I	0.15 0.55 1.0	Pers. 39,288 Supp. 16,367 TOTAL 55,655
KY	STATE			
	T & A Funds from Department of Labor Contract (Analysis of occupational health samples)	Chemist	4.0	Pers. 109,865 Supp. 11,877 Other 26,724 TOTAL 148,466
	T & A Funds from Justice Dept. (Additional costs in providing toxicology services for Medical Examiner Program)	Chemist	2.0	Pers. 53,681 Supp. 13,883 Other 24,990 TOTAL 92,554
	T & A Funds from the Div. of Maternal and Child Health (Services performed for Rh testing)	Micro. Clerical	2.0 0.5	Pers. 63,130 Supp. 5,056 Other 215 TOTAL 68,401

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
LA	FEDERAL AND STATE Sea Grant Program (Ecological and Epidemiological Study of <u>Vibrio vulnificus</u>)			Pers. 4,573 Supp. 900 Other 2,205 TOTAL 7,678
ME	FEDERAL Medicare (Laboratory evaluation and surveillance/certification)		1.5	Pers. 34,000 TOTAL 34,000
	STATE Massachusetts State Lab. (Newborn metabolic screening contract)		0.3	Pers. 6,000 Other 55,250 TOTAL 61,250
	State Harness Racing Comm. (Horse racing toxicology)		2.0	Pers. 40,000 Supp. 10,000 Equip. 5,000 TOTAL 55,000
MD	FEDERAL Crippled Childrens--Title V (Testing for inborn errors of metabolism in newborns)			Supp. 64,237 TOTAL 64,237
	Venereal Disease Control (Screening program for gonorrhea and syphilis)			Supp. 87,443 TOTAL 87,443
	Gonorrhea Testing (Testing of specimens for gono- rrhea in Cheverly Branch Lab.)	Lab. Scientist	1.0	Pers. 12,800 Other 2,300 TOTAL 15,100

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
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. 24,231 Supp. 8,475 Equip. 1,087 Other 5,831
			TOTAL 39,624
Certification, Training and Field Services SSA--Title XVIII (Licensure and inspection of clinical labs in Md. for State and Medicare requirements)	Lab. Scientist	1.5	Pers. 21,000
			TOTAL 21,000
Blood Lead Screening Program (Lab. testing of blood samples for traces of lead)	Chemist Lab. Asst.	1.0 1.0	Pers. 32,830
			TOTAL 32,830
Sickle Cell Screening Program (Lab. testing of specimens for hereditary disorders)	Lab. Asst. Typist Clerk	1.0 1.0	Pers. 23,252
			TOTAL 23,252
Gonorrhea Screening and Report- ing Program (Lab. testing of specimens and supplying necessary data for epidemiological follow-up)	Micro. Typist Clerk	2.0 2.0	Pers. 68,000
			TOTAL 68,000
Pregnancy Testing (Drawing of blood and analyzing specimens for positive pregnancy tests in Cheverly Branch Lab.)	Lab. Asst.	1.0	Pers. 11,621 Other 1,535
			TOTAL 13,156
Safe Drinking Water Program (Testing of public drinking water for contaminants)	Lab. Scientist	1.0	Pers. 17,542 Supp. 4,542 Other 2,345
			TOTAL 24,106

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
	Resource Conservation and Recovery Act (Testing of suspected toxic and hazardous waste samples)	Lab. Scientist	3.0	Pers. 33,857 Supp. 13,989 Other 2,000 TOTAL 49,846
	PCB/Asbestos Control Program (Testing of suspected hazardous waste samples for PCB and/or asbestos)	Lab. Asst.	2.0	Pers. 16,200 Supp. 2,000 TOTAL 18,200
	Water Pollution Control (Testing of suspected toxic and hazardous waste samples)	Chemist	3.0	Pers. 48,275 Supp. 15,318 TOTAL 63,593
	Pertussis Study (Screening of children for pertussis and evaluating a new technology for diagnosis)	Lab. Scientist	1.0	Pers. 3,200 Supp. 750 TOTAL 3,950
	FEDERAL AND STATE			
	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. 157,332 Supp. 13,318 Equip. 5,857 Other 2,350 TOTAL 178,857
	STATE			
	Neonatal Screening Contract-- State of Delaware (Inborn errors of metabolism testing for Maryland residents who live in Delaware)			Supp. 15,800 TOTAL 15,800

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/>				
	COUNTY			
	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. 82,000 TOTAL 82,000
<hr/>				
	SPECIAL FUNDS			
	Power Plant Siting Program (Radiation monitoring of opera- tions of electric power facili- ties located in or around the State)			Supp. 12,000 TOTAL 12,000
<hr/>				
MA	FEDERAL			
	(Vaccine and serum production- Biologic Lab. Division)	Physician Nurse Chemist Technician Admin.	1.0 1.0 3.0 3.0 1.0	Pers. 296,824 Supp. 22,713 Equip. 18,333 Other 2,455 TOTAL 340,325
<hr/>				
	(Laboratory testing)	Micro. Chemist	4.0 1.0	Pers. 106,795 TOTAL 106,795
<hr/>				
	STATE			
	Tuberculosis Control Program (Tuberculosis Laboratory)	Micro. Technician Typist	6.0 1.0 2.0	Pers. 149,740 TOTAL 149,740
<hr/>				
	PRIVATE			
	(Serum production, virology testing, clinical trials)	Prof./Tech. Management Clerical Maintenance	26.0 3.5 2.0 3.0	Pers. 737,448 Supp. 115,915 Equip. 265,130 Other 319,598 TOTAL 1438,091
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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
MN	STATE			
	University of Minnesota (Tuberculosis examinations)	Microbiologist	1.0	Pers. 24,728 Supp. 4,986
				TOTAL 29,714
MO	FEDERAL			
	FDA (Performance of laboratory tests: on food samples)		0.3	
	STATE			
	State Milk Board (Laboratory inspection, approv- al, and testing)		0.3	
	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 (tot- al)	
	Division of Highway Safety (Breath alcohol maintenance)	Chem. IV Chem. III Chem. II Clerk Typist	4.0 (tot- al)	
	Department of Mental Health (Testing for hepatitis and galactosemia)	Micro. I Micro. II	1.0 (tot- al)	

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
NH	FEDERAL			
	VD Funds (Gonorrhea testing)	Lab. Scientist	1.0	Pers. 16,498 Supp. 15,000
				TOTAL 31,498
	STATE			
	Governor's Office (Shellfish monitoring for PSP)	Lab. Scientist	0.1	Supp. 2,300 Other 2,312
				TOTAL 4,612
	Department of Safety (Expert Witness Program--Blood and Breath Alcohols)	Lab. Scientist Lab. Asst.	3.0 0.5	Pers. 51,548 Supp. 28,826 Equip. 2,000 Other 6,190
				TOTAL 88,564
	Division of Mental Health (Clinical microbiology specimens from State hospital)	Lab. Scientist	0.5	Supp. 5,000
				TOTAL 5,000
NJ	FEDERAL			
	Sexually Transmitted Disease			Pers. 140,391
				TOTAL 140,391
	Maternal & Child Health Block			Pers. 15,846
				TOTAL 15,846
	Immunization Project			Pers. 27,476
				TOTAL 27,476

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
	Title 18 and 19			Pers. 41,108
				TOTAL 41,108
	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 35,000
	SWDA through N.M. Environmental Improvement Division (Physical, chemical, bacteriol- ogical water analysis)			TOTAL 56,200
	N.M. Health Services Division (Licensing and certification of laboratories which perform analyses reimbursed under Medi- care/Medicaid)			TOTAL 17,400
	Traffic Safety Bureau (NHTSA Funding) (Breath and blood analysis, training, and repair of alcohol equipment)			TOTAL 19,800
	OTHER			
	Cytopathology Services (Analysis of specimens)			TOTAL 60,300

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			
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. 39,437 Supp. 3,706 Other 7,207 TOTAL 50,350
	Highway Safety Program (Support the preparation and distribution of ethyl alcohol standard solution for Breathalyzer calibration)	Anal. Chem. II Anal. Chem. I Chem. Anal. I Lab. Tech.	0.05 0.05 0.05 0.1	Supp. 3,086 Other 500 TOTAL 3,586
	OSHA-DOL 701 (RCC 4114) (Analytical lab. and clerical support to field engineers in- vestigating OSHA complaints)	Chem. Anal. I Clerk-Typist II	1.0 1.0	Pers. 22,202 TOTAL 22,202
	CDC Fluoridation Program (Water analyses for fluoride concentration to School Water Fluoridation Program in N.C. Dental Health Section)	Lab. Tech.	1.0	Pers. 11,797 Other 2,788 TOTAL 14,585
	Safe Drinking Water Act (Certification of water laborat- ories)	Lab. Cert. Eval. Clerk-Typist II	2.0 1.0	Pers. 68,809 Supp. 223 Other 22,906 TOTAL 91,938
	Hazardous Waste Project (Identification of Toxic Chem- ical Wastes)	Anal. Chem. II Anal. Chem. I Chem. Anal. I	1.0 1.0 1.0	Pers. 75,002 Supp. 1,884 Equip. 15,000 Other 81,582 TOTAL 173,468

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				
FEDERAL AND STATE				
VD Control Project (RCC. 2502) (Gonorrhea Lab. Advisor who provides training and PT to participating local health depts.)	Lab. Imp. Cons.	0.75	Pers.	15,993
			Other	2,305
			TOTAL	18,298
STATE				
Hemoglobin A1C Project (Pilot program to determine feasibility of providing hemoglobin A1C screening for diabetes)	Med. Lab. Tech. II	1.0	Pers.	15,206
			Supp.	11,878
			Equip.	1,990
			Other	2,500
			TOTAL	31,574
Hypothyroid Screening (Diagnosis of neonatal hypothyroidism)	Med. Lab. Tech. I	2.0	Pers.	75,064
	Med. Lab. Tech. II	1.0	Supp.	85,569
	Clerk-Typist II	2.0	Equip.	6,000
			Other	12,637
			TOTAL	179,270
Perinatal Screening (RCC 6350) (Provides project patients blood typing/grouping and antibody screening)	Med. Lab. Tech.	1.0	Supp.	17,815
			TOTAL	17,815
Environmental Epidemiology (Laboratory support to State Environmental Epidemiology Program)	Chem. Anal. I	1.0	Pers.	14,505
			TOTAL	14,505
Family Planning (RCC 6400) (Provides data entry services of Pap smear data)	Data Entry Opr. II	1.0	Pers.	5,184
			Other	1,296
			TOTAL	6,480

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
ND	FEDERAL			
	Maternal and Child Health (Rubella Screening, Neonatal Screening, and Rh)	Med. Tech I. Clerical	1.2 (Total)	Pers. 22,000 Supp. 38,000 Equip. 3,000 Other 1,000 TOTAL 64,000
	Refugees (TB, Parasites, and Hepatitis)	Micro. I	0.2	Pers. 6,000 Supp. 4,000 Other 500 TOTAL 10,500
	Immunology and VD (Rubella, Mumps, and Rubella Screening)	Micro. II Lab. Tech. II	1.6 (Total)	Pers. 30,000 Supp. 5,000 Other 2,000 TOTAL 37,000
	Family Planning (Gonorrhoeae and Gonozyne)	Micro. I Lab. Tech. II	0.8 (Total)	Pers. 25,000 Supp. 12,000 Other TOTAL 37,000
	Water Supply (Microbiological and Chemical Water Analysis)	Micro. I Lab. Tech. I Chemist I	3.4 (Total)	Pers. 50,000 Supp. 8,000 Other 1,000 TOTAL 59,000
	Water Pollution (Microbiological and Chemical Water Analysis)	Micro. I Lab. Tech. I Chemist I	2.6 (Total)	Pers. 38,000 Supp. 8,000 Other 1,000 TOTAL 47,000
	Planning (205-J) (Administrative Services)	Chief Directors	0.2 (Total)	Pers. 8,000 Other TOTAL 8,000

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
	Indian Health Service (Microbiology)	Micro. I	0.2	Pers. 3,000 Supp. 500 TOTAL 3,500
STATE				
	SD Water and Natural Resources (Chemistry)	Chemist I	0.2	Pers. 5,000 TOTAL 5,000
	Laboratory Certification--Env- ironmental Health (Micro. and Chem. Certification)	Chemist III Micro. III	0.4	Pers. 12,000 (Tot-: Supp. 1,000 al): Other 4,000 TOTAL 17,000
STATE AND PRIVATE				
	N.D. Dairy Commissioner/Valley Beach Dairy (Milk Microbiology)	Micro. III Micro. I Lab. Tech. I	1.4	Pers. 15,000 (Tot-: Supp. 3,000 al): Other 500 TOTAL 18,500
LOCAL				
	Water Contracts for Municipal- ities (Microbiological and Chemical Water and Wastewater Analysis)	Chemist I Micro. I Lab. Tech. I	1.6	Pers. 20,000 (Tot-: Supp. 2,000 al): Other 1,000 TOTAL 23,000
PRIVATE				
	Hepatitis Screening--Hospital (Hepatitis Screening)	Lab. Tech. I	0.1	Pers. 1,000 Supp. 1,000 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
OH	FEDERAL AND STATE			
	Environmental Protection Agency (Water, air, soil and misc. other tests)	Chem. Lab. Supv. II Chem. Lab. Supv. I Chem. III Chem. II Chem. I Micro. Supv. I Micro. III Micro. II Micro. I Lab. Tech. I Lab. Technol. Lab. Asst. Secy. I Tech. Typist	1.0 2.25 5.25 8.0 4.0 1.5 1.0 1.0 0.5 0.5 1.25 0.75 1.0 0.5	Pers. 657,933 Supp. 54,819 Equip. 7,012 Other 7,499 TOTAL 727,263
	STATE			
	Ohio Dept. of Highway Safety (Toxicology--Breathalyzer Test- ing and Training)	S/H Insp. Supv. I S/H Insp.	1.0 3.0	Pers. 117,907 Supp. 6,406 Other 8,899 TOTAL 133,212
	Department of Natural Resources (Water Testing for Fish Kill)			Supp. 9,888 TOTAL 9,888
	Dept. of Health, Environmental Radiological Surveillance (Radiological Testing)	Chem. Lab. Supv. I Chem. III Chem. II Chem. I	0.5 1.0 0.7 1.0	Pers. 58,947 Supp. 2,400 TOTAL 61,347
PA	FEDERAL			
	Department of Transportation D.U.I. Program (Consultation for the proper testing and approval of breath testing devices)	P.H. Lab. Dir.		Pers. 29,515 TOTAL 29,515

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
RI	FEDERAL			
	Environmental Protection Agency (Air Pollution Testing)	Chem. Lab. Aide	6.0 1.0	Pers. 193,726 Supp. 23,678 Equip. 12,300 Other 29,560
				TOTAL 259,264
	EPA (Water Pollution Testing)			Equip. 28,350 TOTAL 28,350
SC	FEDERAL			
	U. S. Department of Labor (Testing occupational health and related hazards)	Chem.	2.0	Pers. 45,821 Supp. 16,942 Other 5,647
				TOTAL 68,410
SD	FEDERAL			
	Department of Agriculture-- FIFRA (Pesticide Analysis)			Other 26,242 TOTAL 26,242
	Department of Public Safety (Blood and Breath Alcohol Program)		0.3	Pers. 10,177 Supp. 5,006 TOTAL 15,183
	FEDERAL AND STATE			
	Department of Water and Natural Resources (Environmental Chemistry and Microbiology)	Lab. Tech. II Chem. Lab. Dir. Secy. III	0.5 1.5 0.2 0.3	Pers. 54,629 Supp. 20,072 TOTAL 74,701
	LOCAL			
	Fee Recovery--Local Governments (Environmental Analysis--Micro. and Chemistry)	Chemist Micro. II Lab. Tech. Lab. Dir. Secy. III	0.1 1.0 0.5 0.2 0.6	Pers. 63,551 Supp. 16,449 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
TN	STATE			
	State of Mississippi Genetic Screening Funds (PKU Tests)	Lab. Tech. II	0.87	Pers. 10,176
				TOTAL 10,176
TX	FEDERAL			
	Safe Drinking Water Grant (Chemical and bacteriological analysis of drinking water)	Chem. Micro. Tech. Clerical	6.0 1.0 7.0 1.0	Pers. 285,000 Supp. 65,000 Other 84,800
				TOTAL 434,800
	Cooperative Meat Inspection Program (Sample testing)	Chem. Support	1.0 1.0	Pers. 45,800 Supp. 2,000 Other 13,600
				TOTAL 61,400
	Solid Waste Program (Sample testing)	Chem.	1.0	Pers. 37,740 Supp. 2,000 Other 11,200
				TOTAL 50,940
	STATE			
	Texas Department of Water Resources (Sample testing)	Micro. Chem. Tech. Support	1.0 7.0 4.0 1.0	Pers. 271,600 Supp. 56,900 Other 80,800
				TOTAL 409,300
	EPSDT (Specimen testing)	Chem. Med. Tech. Tech. Support	2.0 2.0 4.0 2.0	Pers. 229,900 Supp. 97,000 Other 68,400
				TOTAL 395,300

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
	Dept. of Mental Health/Mental Retardation (Specimen testing)	Micro.	0.1	Pers. 2,800 Supp. 40,900 Other 800 TOTAL 44,500
UT	FEDERAL			
	U.S. Forest Service, Bureau of Reclamation (Analyze water samples)			Pers. 14,304 Supp. 3,576 TOTAL 17,880
	STATE			
	Asian Refugee Division of Community Health Services (Screening of IndoChina refugees; for tuberculosis)			Pers. 3,074 Supp. 769 TOTAL 3,843
	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. 13,448 Supp. 3,352 TOTAL 16,800
	Department of Public Safety Crime Laboratory (Analyze samples)			Pers. 52,000 Supp. 13,000 TOTAL 65,000
	Division of Environmental Health: Lab. Hazardous Waste (Analyze hazardous waste samples)			Pers. 9,819 TOTAL 9,819

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
	Medicare (Perform Medicare laboratory surveys)			Pers. 10,158 Supp. 2,539 TOTAL 12,697
VT	FEDERAL			
	OSHA--23g (Analysis of chemicals and particulates from the workplace)	Chem. A	1.75	Pers. 24,000 TOTAL 24,000
	Venereal Disease Grant (Gonorrhea Testing)	Micro. A	0.8	Pers. 12,000 TOTAL 12,000
	EPA--Safe Drinking Water Act (Analytical monitoring of public water supplies)	Chem. A Technician	4.0 1.0	Pers. 80,000 Supp. 30,000 Equip. 15,000 TOTAL 125,000
	MCH Block Grant (Rubella and parasite screen- ing)	Micro. Technician	2.0 0.5	Pers. 5,000 Supp. 6,500 TOTAL 11,500
	EPA Legionella Grant (Legionella in Public Water Supplies)	Technician	1.0	Pers. 10,000 Supp. 4,400 TOTAL 14,400

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			
	MCH Lead Poisoning Prev. (Proficiency Testing Program)	Various	1.5	Pers. 28,417 Supp. 2,913
				TOTAL 31,330
	Pertussis Study (Communicable Diseases Survey)	Various	1.0	Pers. 7,849 Supp. 4,481 Equip. 2,221
				TOTAL 14,551
	OSHA (Occupational Health Sample Analysis--Voluntary)	Various	16.5	Pers. 416,042 Supp. 284,982 Equip. 950
				TOTAL 701,974
	STATE			
	Oconto River-Scott Paper (Environmental Water Analysis)	Various		Pers. 1,819 Supp. 1,000
				TOTAL 2,819
	Inland Lakes Renewal-LKS (Environmental Water Analysis)	Various	0.3	Pers. 1,011 Supp. 1,002
				TOTAL 2,013
	Galena River Watershed (Environmental Water Analysis)	Various	1.0	Pers. 6,252
				TOTAL 6,252

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. 4,837 TOTAL 4,837
	Analysis High Volume Filters (Environmental Air Analysis)	Various	1.0	Pers. 1,869 TOTAL 1,869
	Solid-Hazardous Waste (Environmental Organics Anal.)	Various	2.0	Pers. 4,716 TOTAL 4,716
	Non-Comm. D.W. Nitr. SDWA (Environmental Water Analysis)	Various	0.5	Pers. 61 TOTAL 61
	SDWA Analysis--Comm. Samples (Environmental Water Analysis)	Various	1.0	Pers. 967 TOTAL 967
	National Urban Runoff (Environmental Water Analysis)	Various		Pers. 5,723 TOTAL 5,723
	Coastal Zone Management (Fish and Effluent Study)	Various	1.0	Pers. 971 TOTAL 971
	Lake Michigan Tributary (Environmental Water Analysis)	Various		Pers. 5,204 TOTAL 5,204
	Wasteload Allocation (Environmental Water Analysis)	Various	0.1	Pers. 6,788 TOTAL 6,788

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	:	:	:
Toxics Monitoring-Fish Hatchery (Environmental Water Analysis)	Various	:	Pers. 14,706
			TOTAL 14,706
Radiation Monitoring (Radiation Analysis)	Various	2.0	Pers. 70,251 Supp. 25,547 Equip. 39,707
			TOTAL 135,505
Lab. Certification (Lab. Proficiency Testing)	Various	2.0	Pers. 88,961 Supp. 45,587 Equip. 2,616
			TOTAL 137,164
Monitor Comm. Wells-VOC (Environmental Organics Anal.)	Various	:	Pers. 54,708 Supp. 4,786 Equip. 2,225
			TOTAL 61,719
Hi-Vol Filter Particulate (Environmental Air Analysis)	Various	:	Pers. 19,311 TOTAL 19,311
Pesticides-Ground Water (Environmental Water Analysis)	Various	:	Pers. 33,168 Supp. 6,693 Equip. 37,486
			TOTAL 77,347
Solid-Hazardous Waste (Environmental Organics Anal.)	Various	:	Pers. 39,196 Supp. 4,217 TOTAL 43,413

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
	Monitor Bad/Nemadji Rivers (Environmental Water Analysis)	Various		Pers. 6,044 TOTAL 6,044
	Beach Nourishment Study (Environmental Water Analysis)	Various		Pers. 22,355 Supp. 772 TOTAL 23,127
	Vol. Organics/Private Wells (Environmental Organics Anal.)	Various		Pers. 1,860 Supp. 5,851 TOTAL 7,711
	Analysis SDWA Compl. Smpl. (Environmental Water Analysis)	Various		Pers. 17,554 TOTAL 17,554
	Ridge and Furrow Study (Environmental Water Analysis)	Various		Pers. 9,149 Supp. 783 TOTAL 9,932
WY	FEDERAL			
	Highway Safety (Alcohol Testing)		2.0	Pers. 71,758 Supp. 4,583 Equip. 334 Other 6,881 TOTAL 83,556

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	34,481	Turned over to H.D.
	Intestinal Parasites	8.75	Test		
	Sickle Cell	1.45	Test		
	VDRL	1.65	Test		
	GC	1.40	Test		
CT	Environmental Chemistry (Water analyses for private companies)	3.99	R.V.	569,022	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		
	Gonorrhœa	2.50	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.		
DE	Private Water Test Kits for Bacteriology	2.00	Kit	5,000	General Funds
	Private Water Test Kits for Chemistry	2.00	Kit		
FL	Safe Drinking Water Analyses	156.00	32 Parameters		Used in Lab. budget through spending author. in adm. trust funds
	Screening for Sickle Cell for Migrant Clinics	5.00	Test		
	Screening for Lead Exposure for Migrant Clinics	5.00	Test		
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		

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

Lab :	Services Performed :	Charge Per Unit :	Disposition of Funds :	Estimated Annual Receipts :
GA :	Herpes Simplex Isolation :	8.00 :	Specimen :	:
Cont.:	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 :	8.00 :	Specimen :	:
:	Murine Typhus Serology :	:	:	:
:	Shigella Typing :	8.00 :	Specimen :	:
:	Streptococcus Group A, Throat:	4.00 :	Specimen :	:
:	Culture :	:	:	:
:	Syphilis Serology, Reagin :	1.00 :	Specimen :	:
:	Syphilis Serology, FTA :	4.00 :	Specimen :	:
:	Toxoplasmosis Serology :	8.00 :	Specimen :	:
:	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, :	8.00 :	Specimen :	:
:	Bacterial or Fungal :	:	:	:
:	Acid Fast Smears for QC :	8.00 :	Dozen :	:
:	PVA Smears for QC :	8.00 :	Dozen :	:
ID :	Bacteriological Water Quality:	:	:	275,000 :
:	Total Coliform :	8.50 :	Test :	Returned to budget as
:	Fecal Coliform :	8.50 :	Test :	receipts to
:	Fecal Strep :	12.50 :	Test :	appropriation.
:	Most Probable Number Tests :	10.00 :	Test :	:
:	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 :	:

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
ID	Fluoride (Electrode)	7.00	Test		
Cont.	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		
	Residue				
	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		

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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
ID :	Furnace Technique :	:	:	:	:
Cont.:	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 :	:	:
:	Misc. Tests :	:	:	:	:
:	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 :	:	:

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
ID	Forensic Tests				
Cont.	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 (Includes GC at N/C)	60.00			
	Chemistry (BUN, Uric Acid, Glucose, & Cholesterol)	60.00			
	Urine Culture Screens (Includes GC at N/C)	40.00			
	Syphilis Serology	36.00			
	Rubella Testing	20.00			
	Hematology	80.00			
	Gonorrhea Cultures	30.00			
	Parasitology	20.00			
	Quality Control				
	Urinalysis Control (Includes Pregnancy)	60.00			
	Hematology Control (Monthly)	228.00			
	Throat Culture Screens (Group A, Non-Group A, Alpha Strep)	15.00			
	Urine Culture Screens (E. coli, Staph. aureus, Pseudomonas aer.)	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		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
IL	Toxicology Analysis	125.00	Specimen	158,406	State Gen. Revenue
	Metabolic Disease Screening	3.00	Specimen		
IN	Private Water Bact./Chem.	5.00+			To State
			Postage	Test	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	6.00	Sample	735,000	Est. recpts
	Nitrate	9.00	Sample		built into
	BOD Effluent	20.00	Sample		gen. operat-
	Trace Metals	10-20.00	Sample		ing budget.
	Radiation	20-90.00	Sample		
	Pesticides	50.00-			
		200.00	Sample		
	Genetic Disease (4)	10.50	Sample		
	RCRA Parameters	300.00	Sample		
KS	Indoor Swim Pools-Total Coli-			378,661	State Gen.
	form	100.00	City		Fund
	Outdoor Swim Pools-Total				
	Coliform	100.00	City		
	Asbestos Identification	25.00	Sample		
	Environmental Lab. Certifi-				
	cation:				
	Chemistry & Hazardous Waste	20.00	Parameter:		
	Microbiology	100.00	Lab.		
	Complete Chemical Analysis	45.00	Analysis		
	(Calcium, Magnesium, Sodium,				
	Potassium, Total Hardness,				
	Carbonate Hardness, Non-Car-				
	bonate Hardness, Total Alka-				
	linity, Bicarbonate Alkalin-				

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
KS	ity, Chloride, Sulfate,				
Cont.	Nitrate, Fluoride, pH, Turb-				
	idity, Specific Conductance,				
	Total Dissolved Solids,				
	Phosphate, Silica, Iron,				
	Manganese)				
	Complete Heavy Metals	40.00	Analysis		
	(Iron, Manganese, Arsenic,				
	Barium, Cadmium, Chromium,				
	Copper, Lead, Mercury,				
	Selenium, Silver, Zinc)				
	Partial Chemical Analysis	30.00	Analysis		
	(Calcium, Magnesium, Sodium,				
	Total Alkalinity, Chloride,				
	Sulfate, Total Hardness,				
	Nitrate, Fluoride, Iron,				
	Manganese)				
	Total Hardness-Calcium and				
	Magnesium	7.00	Test		
	Complete Solids	25.00	Analysis		
	(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)				
	Individual Analysis				
	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		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
KS	pH	4.00	Test		
Cont.	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			438,264	Put into
	PKU	2.25	Test		Lab. budget
	Galactosemia	2.00	Test		to defray
	Hypothyroid	5.75	Test		costs of
					these tests
ME	Microbiology			752,341	Dedicated
	Food Testing	30.00	Test		revenue
	Campylobacter culture	10.00	Test		account for
	Chlamydia culture	15.00	Test		payment of
	Enteric pathogen culture	10.00	Test		lab operat-
	Gonorrhea culture	4.00	Test		ing costs
	Gonorrhea slide for FA	4.00	Test		
	Legionella Direct FA	25.00	Test		
	Pertussis FA slide kit	5.00	Test		
	Reference culture	15.00	Test		
	Reference slide	4.00	Test		
	Throat (Strep A screen)	5.00	Test		
	Mycobacteriology				
	Mycobacterial culture (TB)	9.00	Test		
	Mycology				
	Mycology culture	15.00	Test		
	Serology	6.00	Test		
	Parasitology				
	Intest. ova & parasite kit	12.00	Test		
	Toxoplasmosis serology	6.00	Test		
	Syphilis				
	RPR screen	6.00	Test		
	RPR or FTA-ABS Confirm.	6.00	Test		
	Spinal fluid	6.00	Test		
	Premarital (out-of-state)	6.00	Test		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
ME	Virology isolation (culture)	20.00	Test		
Cont.	Viral serology (CMV, Herpes, hepatitis, infectious mono., rubella, rubeola)	6.00	Each		
	TORCH	18.00	Test		
	Respiratory Screen	40.00	Test		
	CNS Screen	35.00	Test		
	Exanthem Screen	30.00	Test		
	Metabolic Screening (PKU)	7.00	Test		
	Water Testing				
	Safety (coliform bacteria, nitrates & nitrites)	12.00	Sample		
	New Water Supply (coliform bacteria, Nitrate N, Nitrite N, chlorides, hardness, copper, iron, pH, manganese)	25.00			
	Complete Testing (total coliform, Nitrate N, Nitrite N, chloride, hardness, color, turbidity, copper, iron, manganese, zinc, cadmium, lead, sodium, fluoride, pH, detergents)	40.00	Sample		
	Sewage (total coliform, fecal coliform, nitrate N, nitrite N, chloride, hardness, color, turbidity, copper, iron, manganese, detergents, ammonia)	40.00	Sample		
	Public Distribution System With Total Coliforms	45.00	Sample		
	(Nitrate N, Nitrite N, chloride, hardness, fluoride, copper, iron, manganese, zinc, arsenic, barium, cadmium, chromium, lead, mercury, silver, selenium, sodium, color, turbidity)	50.00	Sample		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
ME	Dump Leachate				
Cont.	(Nitrate N, Nitrite N, chloride, hardness, color, turbidity, copper, iron, manganese, zinc, arsenic, cadmium, chromium, lead, mercury, sulfate, total solids, total coliforms, fecal coliforms, pH, ammonia N)	60.00	Sample		
	Pesticide Screening (EPA)	150.00	Sample		
	Trihalomethanes	35.00	Sample		
	Volatile Organics	70.00	Sample		
	Toy Stuffing	20.00	Sample		
	Hydrocarbon Screen	25.00	Sample		
	Radon	22.00	Sample		
	Total coliform, fecal strep, or fecal coliform	6.00	Sample		
	Four at one time	21.00	Test		
	Four at one time plus fluoride	24.00	Test		
	Swimming water (bact. only)	6.00	Sample		
	Microscopic (iron bacteria)	15.00	Sample		
	Algae count	50.00	Sample		
	Single test (not bacteria)	6.00	Sample		
	Toxicology & Drug ID	22.00	Hour		
	Mass Spectrometry	35.00	Hour		
	Pesticide Analysis	22.00	Hour		
	Court Appearances	100.00	Day		
	Blood Alcohol	25.00	Specimen		
	Blood Lead Screening				
	EP	3.00	Test		
	Lead	7.00	Test		
	Lead Analysis (environmental)	20.00	Test		
	Volatile Hydrocarbon (water)				
	Gasoline/kerosene	25.00	Sample		
	Other	25.00	Sample		
	Radioactivity				
	Radon Daughters	22.00	Sample		
	Long lived Alpha	22.00	Sample		
	Radium 226 & 228	88.00	Sample		
	Gross Beta	22.00	Sample		
	Strontium 90 & 89	440.00	Sample		
	Gamma Isotope Analysis	22.00	Sample		
	Residue Wipes	11.00	Sample		
	Racing Chemistry	1600.00	Week		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
MD	PKU, MSUD, BCK, T3, T4, Methionine, Galactosemia	3.25	Specimen	260,000	Fees from Clin. Lab.
	Alpha-fetoprotein	5.30	Specimen		Services to gen. fund.
	Aplastic Anemia	17.25	Specimen		Others to offset cost of supplies & reagents.
	Hepatitis Screen	26.25	Specimen		
	Parasites	12.50	Specimen		
	Urinalysis				
	Routine, Complete	4.10	Specimen		
	Routine, Chem. Qualitative	10.50	Specimen		
	Routine, Microscopic	3.26	Specimen		
	RFFIT	25.00	Specimen		
	Chemistry				
	Albumin, Blood	2.90	Specimen		
	Bilirubin, Total Blood	2.90	Specimen		
	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		

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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
MD :	Protein, Total Spinal Fluid :				
Cont. :	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		
:	Hematology :				
:	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		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
MD	Tegretol (Carbamazepine)	11.60	Specimen		
Cont.	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		
	Frimidone (Mysoline)	11.60	Specimen		
MA	Space Rental	16.00	Sq. Ft.	58,052	Returned to
	DTP Vaccine (Human Use)	2.10	Vial		Lab. or de-
	Herpes Virus Identification	50.00	Culture		posited in
	Varicella-Zoster Immunity	30.00	Sample		State
	Biol. Reagents (Research)				Treasury
	Tetanus Toxoid, Concentrated	50.00	10 ml.		based on an
	Tetanus Toxoid, Chromato-				annually
	graphically Purified (or	100.00	1 mg pro-		determined
	Tetanus Toxin)		tein		formula.
		375.00	5 mg		
		1250.00	25 mg		
	Diphtheria Toxoid, Concen.	75.00	10 ml		
	Diphtheria Toxoid, Purified	150.00	10 ml		
	Pertussis Vaccine	2.00	ml		
	<u>Clostridium tetani</u> Cultures	200.00	Vial		
	<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		
MN	Handling Fee	5.00	Specimen	565,400	St. Gen. Fund

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
MS	Medicare/Medicaid Patients	Medicaid Rate	Specimen	497,782	Re-budgeted 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		
	Chemistry Profiles on TB pts.	.94	Test		
MD	Syphilis Serology	3.00	Specimen	40,000	General
	General Serology	3.00	Specimen		Revenue
	Virology	3.00	Specimen		
	Private Water	3.00	Sample		
	General Bacteriology	3.00	Specimen		
	General Chemistry	3.00	Specimen		
NH	Clinical Specimens, Chemistry:			143,679	General Fund
	Arsenic, Urine	25.00	Test		
	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		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
NH	Clin. Specimens, Microbiology:				
Cont.	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		
	Gonorrhea Culture, Confirm.	1.10	Test		
	Gonorrhea, 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		
	Serogrouping	10.00	Test		
	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		

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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
NH :	Consumer Protection Samples :				
Cont.:	Beef, Fat Content (Quant.) :	15.00 :	Sample :		
	(Qualitative) :	2.00 :	Sample :		
	Cheese, Fat Content (Qual.) :	2.00 :	Sample :		
	Food, Complete Analysis :	10.00 :	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 :	539,944	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 :		
	Urine Monitoring :	3.00 :	Specimen :		
NC :	Coliform Test - Water :	12.00 :	Test :	666,276	Becomes
	Inorg. Chemicals - Water :	140.00 :	Sample :		part of op-
	Org. Chemicals - Water :	130.00 :	Sample :		erating
	Radiological Analysis - Water :	50.00 :	Sample :		budget.
	Sale of specimen mailers and biological products :		Varies :		State
	Trihalomethanes - Water :	45.00 :	Sample :		appropri-
	Nitrate - Water :	10.00 :	Sample :		ation re-
	Sodium and Corrosivity - Water :	60.00 :	Sample :		duced by
					amt. of
					estimated
					receipts.
ND :	Febrile Agglutination Panel :	3.00 :	Specimen :	350,00	Most go to
	Tularemia Tube Agglutination :	3.00 :	Specimen :		Gen. Fund.
	Proteus Agglutination Panel :	3.00 :	Specimen :		Contract
	RPR Test for Syphilis :	3.00 :	Specimen :		funds to
	Rubella Screen :	3.00 :	Specimen :		Lab Budget.
	Throat Culture :	3.00 :	Specimen :		
	Ox Cell Hemolysin Test :	6.00 :	Specimen :		
	Routine Cultures :	6.00 :	Specimen :		
	FTA-ABS :	6.00 :	Specimen :		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
ND	Viral CF & HAI Tests A/C, one:				
Cont.:	Antigen	9.00	Spec. Pair		
	Multiple Antigens	18.00	Spec. Pair		
	Rickettsial CF & HI Tests				
	A/C, one Antigen	9.00	Spec. Pair		
	Multiple Antigens	18.00	Spec. Pair		
	Culture & Susceptibility (MIC)	9.00	Specimen		
	Anaerobic Culture	9.00	Specimen		
	Parasite Examination	9.00	Specimen		
	Viral IFA-IgM and IgG, one				
	Antigen	12.00	Specimen		
	Rickettsial IFA-IgM and IgG,				
	one Antigen	12.00	Specimen		
	Rotavirus (EA)	15.00	Specimen		
	Fungal Serology A/C, Battery	18.00	Spec. Pair		
	Parasitic Serol. A/C, Battery	18.00	Spec. Pair		
	Legionnaires' Disease A/C	18.00	Spec. Pair		
	Virus Tissue Cult. Isolation	18.00	Specimen		
	Viral IFA-IgG & IgM, Multiple:				
	Antigens	24.00	Specimen		
	Virus Isolation & ID	30.00	Specimen		
	CDC Referrals-Handling Costs	3-9.00	Specimen		
OH	Microbiology (Various)	6.00	Specimen	1,540,000	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	4.40	Specimen	650,000	Offsets lab
	Mycology Serology	16.25	Culture		cost of op-
	Virus Isolation	27.00	Specimen		eration.
	Virus Serology	16.25	Specimen		
	Reference Cultures	32.50	Culture		
PA	Licensure-Certification	75.00	Cat.	223,270	Incorpor-
	Initial Laboratory Fee	25.00	Lab.		ated as
	Training	20-90.00	Course		part of
	Reproduction & Search Fees	.10	Page		Bureau of
	Blood Lead - City of Chester	6.75	Test		Lab.'s
	Low Volume Proficiency Test	75.00	Lab.		annual
	Symposia	50.00	Person		budget.
	Registry (Clin. Lab. Personnel)	15.00	Person		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
SC	Amebiasis Serology	6.00	Specimen	574,234	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		
SD	Environmental Chemistry	3.00	WTU	312,170	\$63,000 to
	Medical Microbiology	2.00	Test		Gen. Fund,
					remainder
					expended
					as other
					authority.
UT	Newborn Metabolic Screening			390,000	Credited to
	(PKU, Galactosemia, T4, TSH)	8.00	Test		Lab. budget
	Environmental Chemistry				
	Inorganics				
	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, Orthophosphate, Total Dissolved Solids, Fluoride)				
	Partial Chemistry	45.00	Test		
	(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)				
	Heavy Metals - Water/Lakes	40.00	Test		
	(Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc)				
	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 and Toxaphene; 2,4,5-TP (Silvex) and 2,4-D (drinking water) :	75.00 :	Test :	:	:
:	Type 2 - Trihalomethanes :	35.00 :	Test :	:	:
:	Type 3 - Chlorinated Hydrocarbons, Organophosphate, Chlorophenoxy and Triazine Herbicides, Carbamates, PCB Screens (surface water) :	150.00 :	Test :	:	:
:	Type 4 - Group Screens as requested: Initial Screen :	50.00 :	Test :	:	:
:	Each Additional Screen (Chlorinated Hydrocarbons, Organophosphates, Chlorophenoxy Herbicides, Triazine Herbicides, Carbamates, PCB's) :	25.00 :	Test :	:	:
:	Miscellaneous :	:	:	:	:
:	Blood Lead :	15.00 :	Test :	:	:
:	Cholinesterase in Plasma :	20.00 :	Test :	:	:
:	EP Toxicity Test :	:	:	:	:
:	(Arsenic, Barium, Cadmium, Chromium (+6), Lead, Mercury, Selenium, Silver, Endrin, Lindane, Methoxychlor, Toxaphene, 2,4-D, 2,4,5-TP (Silvex) :	:	:	:	:
:	Water Samples :	250.00 :	Test :	:	:
:	Oil, Sludge, or Soil :	275.00 :	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 :	Radiochemistry:				
Cont.:	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		
	228 Radium (ppt/separation)	100.00	Test		
	89 Strontium	225.00	Test		
	90 Strontium	50.00	Test		
	Tritium	15.00	Test		
	Uranium	25.00	Test		
	Toxicology				
	Blood Alcohol	30.00	Test		
	Blood or Tissue Drug Anal.	100.00	Test		
	Drug Preparations (ID or				
	quantitation)	30.00	Test		
	Expert Testimony	30.00	Hour		
	Analysis of Urine for Drugs				
	Screen only (no confirm.)	8.00	Specimen		
	Screen and confirmation	25.00	Specimen		
	Cannabinoid (Marijuana)				
	Screen and confirmation	30.00	Specimen		
	Microbiology				
	Enteric Pathogens	6.00	Specimen		
	Heterophile	6.00	Specimen		
	Parasites	12.00	Specimen		
	Rubella Antibody Test	9.00	Specimen		
	Swimming Pools (MF & SPC)	9.00	Sample		
	Syphilis Serology (RFR)	3.00	Specimen		
	TORCH	36.00	Specimen		
	Toxoplasma Antibody	15.00	Specimen		
	Water Bacteriology	5.00	Sample		
WI :	Bacteriology			2,951,497	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		

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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
WI :	Bioassay-other antibiotics :	7.00 :	Specimen :		
Cont.:	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 :		
:	Beta Lactamase :	3.50 :	Specimen :		
:	Blood for Culture :	3.50 :	Specimen :		
:	Botulism :				
:	Culture and Toxin Detection:	10.50 :	Specimen :		
:	Toxin Detection Only, Serum:	7.00 :	Specimen :		
:	Clostridium difficile (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 :		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
WI	Cortisol	7.00	Test		
Cont.	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 Transpeptidase (GGT)	3.50	Test		
	Glucose	3.50	Test		
	5-Hydroxy-3-Indoleacetic 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		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
WI	Cytogenetics				
Cont.	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		
	Cytology				
	Gynecologic Smear (Cervical,				
	Endocervical, Vaginal Smear):	3.00	Test		
	Non-Gynecologic Cytology				
	(Sputum, Bronchoscopy Brush-				
	ings and Washings, Breast				
	Discharge, Body Fluids, En-				
	doscopy Brushings and Wash-				
	ings, Needle Aspiration				
	Biopsies, Other Scrapings)	10.00	Each		
	Environmental Sciences				
	Iron Bacteria	7.00	Sample		
	Water (1, 2, or 3 tests may				
	by 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, indus-				
	trial hygienists and private				
	citizens at cost (to State)				
	in: Radiation Studies, Inor-				
	ganic Chemistry, Air Analy-				
	sis, Water Microbiology,				
	and Organic Chemistry.				

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
WI	Immunology				
Cont.	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		
	Genotype	3.50	Test		
	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		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
WI	Tularemia, Agglutination	3.50	Test		
Cont.	Ureaplasma Urealyticum, Cult.	3.50	Test		
	AIDS Related Complex (24 Test Panel)	98.00	Specimen		
	Antistreptolysin O and Anti DNase B	3.50	Specimen		
	Chlamydia trachomatis, Antigen 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		
	Mycology				
	Antimicrobial Susceptibility: Culture, Primary	7.00	Specimen		
	Referred Culture ID	3.50	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,SO4,Br	15.00	Sample		
	Acetate	15.00	Sample		
	SO2	15.00	Sample		
	Na,K,NH3	15.00	Sample		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
WI Cont.	Ion Selective Electrode For Cyanide	11.00	Sample		
	Formaldehyde Colorimetric	15.00	First		
	Each Additional Sample	5.00	Each		
	Formaldehyde Polarographic	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.				
	Parasitology				
	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		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
PR	Bacteriology			1,150	80% to Gen. Fund. 20% to be distributed to Program Staff.
	Cultures - All Types	14.40	Specimen		
	FA - Group A Strep	21.60	Specimen		
	Reference-Anaerobe/Aerobe ID	14.40	Specimen		
	Gram Stain Smear	7.20	Specimen		
	Diphtheria culture	14.40	Specimen		
	Trichomonas Saline Suspens.	3.00	Specimen		
	Campylobacter Identification	14.40	Specimen		
	Antibiogram Series-Studies	14.40	Specimen		
	Hematology				
	CBC	6.00	Specimen		
	WBC & Differential	3.60	Specimen		
	Hemoglobin	2.40	Specimen		
	Hematocrit	1.80	Specimen		
	Platelet Count	4.80	Specimen		
	Reticulocyte Count	4.20	Specimen		
	Eosinophile Count	3.60	Specimen		
	Sedimentation Rate	4.80	Specimen		
	Peripheral Blood Morphology	2.40	Specimen		
	Cell Differential	2.40	Specimen		
	Eosinophile Nasal Study	3.60	Specimen		
	Blood and Coagulation Tests:				
	Lee and White Coagulation	3.60	Specimen		
	Bleeding Time	2.40	Specimen		
	Coagulation	3.60	Specimen		
	Clotting Time	3.60	Specimen		
	Fragility Test	2.40	Specimen		
	Sickle Cell Screening	3.60	Specimen		
	Hemoglobin Electrophoresis	18.00	Specimen		
	Fetal Hemoglobin	13.00	Specimen		
	Blood Parasites:				
	Malaria	3.00	Specimen		
	Filaria	2.40	Specimen		
	L.E. Preparations	12.00	Specimen		
	RBC	1.20	Specimen		
	Latex Antinuclear Antibody	3.60	Specimen		
	Prothrombin	8.80	Specimen		
	PTT	8.40	Specimen		
	Total Sterility:				
	Sperm Count	6.00	Specimen		
	Sperm Morphology	12.00	Specimen		
	Blood Index	5.00	Specimen		
	Immunology				
	ASO Titer	9.60	Specimen		
	Febrile Agglutination	4.80	Specimen		
	Febrile Aggl.-One Antigen	2.40	Specimen		

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

Lab	Services Performed	Charge Per Unit	Unit	Estimated Annual Receipts	Disposition of Funds
PR	Direct Coombs	6.00	Specimen		
Cont.	Indirect Coombs Screening	6.00	Specimen		
	C-Reactive Protein	4.80	Specimen		
	Monotest	6.00	Specimen		
	RA Latex - Qualitative	4.80	Specimen		
	RA Latex - Quantitative	7.20	Specimen		
	VDRL Qualitative	6.00	Specimen		
	VDRL Quantitative	7.20	Specimen		
	Typing/Rh including Du	3.60	Specimen		
	Rh Factor	4.00	Specimen		
	Clinical Chemistry				
	Uric Acid	6.00	Specimen		
	Serum Albumin	8.40	Specimen		
	Albumin-Urine, Quantitative	6.00	Specimen		
	Amylase	9.60	Specimen		
	A/G Ratio, Total Protein	8.40	Specimen		
	BUN	6.00	Specimen		
	Direct Bilirubin	9.60	Specimen		
	Total Bilirubin	6.00	Specimen		
	Calcium	7.20	Specimen		
	Cholesterol	6.00	Specimen		
	Cholinesterase	65.00	Specimen		
	Chloride	6.00	Specimen		
	Creatinine, Serum	7.20	Specimen		
	Creatinine, Clearance	9.60	Specimen		
	Phosphorus	6.10	Specimen		
	Acid Phosphatase	7.20	Specimen		
	Alkaline Phosphatase	7.20	Specimen		
	Glucose 2 hrs. F.P.	4.80	Specimen		
	Glucose 2 hrs. post Glucola	6.00	Specimen		
	Glucose Tolerance 3 hrs.	20.40	Specimen		
	Glucose Tolerance 5 hrs.	24.00	Specimen		
	Globulin	8.40	Specimen		
	Icteric Index	2.40	Specimen		
	LDH	24.00	Specimen		
	Total Protein	8.40	Specimen		
	Salicylates	7.20	Specimen		
	SGOT	8.40	Specimen		
	SGPT	8.40	Specimen		
	Xylose Tolerance 5 mgs.	12.00	Specimen		
	Xylose Tolerance 25 mgs.	12.00	Specimen		
	CPK	15.00	Specimen		

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

Lab :	Services Performed :	Charge Per Unit :	Unit :	Estimated Annual Receipts :	Disposition of Funds :
PR Cont. :	Special Chemistry-Anticon-				
	vulsants:				
	Dilantin	15.00	Specimen		
	Phenobarbitol	20.00	Specimen		
	Frimidone	20.00	Specimen		
	Carbamazepine	20.00	Specimen		
	Ethosuximide	20.00	Specimen		
	Valproic Acid	28.00	Specimen		
	Theophylline/Aminophylline	25.00	Specimen		
	Aldosterone	65.00	Specimen		
	Australian Antigen	14.40	Specimen		
	CEA	32.00	Specimen		
	Digoxin	19.20	Specimen		
	Protein Electrophoresis	18.00	Specimen		
	Protein Electro.-Urine	20.00	Specimen		
	Ferritin	16.00	Specimen		
	T-4	10.00	Specimen		
	Thyroid T-3	10.00	Specimen		
	TSH	30.00	Specimen		
	Triglycerides	12.00	Specimen		
	Lithium	10.60	Specimen		
	Potassium	12.00	Specimen		
	Sodium	7.20	Specimen		
	Prolactin	30.00	Specimen		
	Parasitology/Urinalysis				
	Ova & Parasites, Direct/Conc.	4.20	Specimen		
	Occult Blood	2.40	Specimen		
	Fat - Qualitative	2.40	Specimen		
	Carbohydrates	2.40	Specimen		
	Pinworm Smear	2.40	Specimen		
	Complete Urinalysis	4.80	Specimen		
	Uribilinogen - Qualitative	1.80	Specimen		
	Uribilinogen - Quantitative	6.00	Specimen		
	Albumin, Urine - Qualitative	2.40	Specimen		
	Bile, Urine	2.40	Specimen		
	Virology				
	Inoculation of Mice - Rabies:	10.00	Specimen		
	FA	61.00	Specimen		
	Rubella	14.40	Specimen		
	Rubella Antibody Titer	14.40	Specimen		
	Herpes Type I	18.00	Specimen		
	Herpes Type II	18.00	Specimen		

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	B	C	D	E	F
		Nasopharyngeal Specimens	Mycobacterial Specimens	Enteric Specimens	Stenococcus Specimens	Anaerobic Specimens	Other Bacteriology Specimens
TOTAL*	5,248,855	481,559	394,738	160,263	3,974,649	9,072	228,574
Average*	116,641	13,514	9,399	3,642	90,333	245	5,079
NEW ENGLAND*	422,461	148,958	42,705	23,328	195,688	424	11,358
Conn.	74,231	27,561	6,161	6,190	30,093	112	4,114
Mass.	160,534	64,723	29,743	12,775	49,610		3,483
Me.	18,339	487	2,979	529	13,528	160	656
N.H.	24,182	107	1,423	131	21,390	19	1,110
R.I.	131,897	55,909	1,382	2,125	71,897	30	554
Vt.	13,478	171	1,015	1,578	9,170	103	1,441
MIDDLE ATLANTIC*	233,253	1,794	13,909	7,767	208,726	19	1,038
N.J.	226,938	1,716	11,130	4,988	208,705	15	384
N.Y.	0						
Pa.	6,315	78	2,779	2,779	21	4	654
EAST NORTH CENTRAL*	161,492	22,816	13,786	17,208	99,207	756	7,719
Ill.	72,528	2,077	5,073	8,604	54,745	97	1,932
Ind.	6,785	585	2,086	2,192	543	18	1,361
Mich.	0						
Ohio	45,805	8,379	2,032	1,261	31,746	311	2,076
Wis.	36,374	11,775	4,595	5,151	12,175	330	2,350
WEST NORTH CENTRAL*	354,072	55,775	25,355	13,447	247,663	673	11,159
Ia.	93,683	28,151	1,920	1,257	59,350	161	2,844
Kans.	47,775	3,397	4,989	5,274	31,963	286	1,866
Minn.	119,810	1,164	12,422	2,458	103,607	39	120
Mo.	49,042	4,240		2,235	41,130		1,437
Nebr.	0						
N.D.	26,549	11,056	3,024	1,156	7,381	150	3,802
S.D.	17,213	7,787	3,000	1,067	4,232	37	1,090
SOUTH ATLANTIC*	1,534,823	61,305	102,665	58,348	1,247,964	3,740	60,801
Del.	38,244	5,232		720	30,959		1,333
D.C.	0						
Fla.	589,716	16,625	41,987	37,297	486,849	298	6,660
Ga.	218,847	8,347	16,591	3,567	187,079	88	3,175
Mo.	430,120	28,204	13,278	10,461	335,231	323	42,623
N.C.	25,497	915	15,885	4,528	450	2,453	1,266
S.C.	167,309	655	10,177	1,301	149,449	514	5,233
Va.	0						
W.Va.	65,090	1,347	4,747	474	57,947	64	511
EAST SOUTH CENTRAL*	850,306	50,277	64,186	8,902	720,411	1,004	5,526
Ala.	321,710	55	23,453	3,622	294,407	52	121
Ky.	15,863	1,256	11,921	918	1,601		167
Miss.	208,972	17,721	14,712	2,904	170,883		2,752
Tenn.	308,761	31,245	14,100	1,458	253,520	952	2,486
WEST SOUTH CENTRAL*	1,135,710	31,573	93,388	17,362	923,790	1,723	67,874
Ark.	115,151	10,941	23,110	1,420	79,365	128	187
La.	206,544	2,064	8,118	3,648	189,873	762	2,077
Okla.	125,165	13,068	9,100	2,602	99,630	41	724
Tex.	688,850	5,498	53,060	9,692	554,922	792	64,886
MOUNTAIN*	229,987	74,892	11,108	6,268	133,078	468	4,173
Ariz.	33,774	182	2,498	1,844	28,725	205	320
Colo.	0						
Ida.	36,622	1,659	1,697	1,491	30,669	183	923
Mont.	0						
Nev.	0						
N.M.	56,061	317	4,706	2,010	46,365	59	2,604
Utah	22,737	35	1,781	901	19,728	21	271
Wyo.	80,793	72,699	426	22	7,591		55
PACIFIC*	272,777	34,118	24,927	7,357	193,362	265	12,548
Alaska	97,249	26,913	6,861	1,940	58,850	73	612
Cal.	18,199	431	520	205	8,434	96	8,513
Hawaii	108,442	4,003	7,691	1,568	92,530	47	1,703
Ore.	13,633	69	2,769	1,279	8,875	9	632
Wash.	35,254	1,802	5,086	2,365	24,873	40	1,088
TERRITORIES*	53,974	51	2,709	276	4,560	0	46,378
Guam	8,172	8	2,709	276	4,560		619
P.R.	45,802	43					45,759
V.I.	0						

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

Lab & Region	Number of Specimens	I. Streptococcus Beta Hemolytic, Group A					Other
		Procedures Used					
		Culture	FA	Sero-grouping	Sero-typing	Bacitracin Disc	
TOTAL*	447,386						
Average*	12,092						
NEW ENGLAND*	147,765						
Conn.	27,023	X	X	X		X	
Mass.	64,494	X	X	X	X	X	
Me.	351	X	X	X			
N.H.	61	X	X	X			
R.I.	53,836	X	X				
Vt.				X			
MIDDLE ATLANTIC*	0						
N.J.							
N.Y.							
Pa.							
EAST NORTH CENTRAL*	11,102						
Ill.	695	X					
Ind.							
Mich.							
Ohio	3,896	X	X	X			
Misc.	6,511	X	X			X	
WEST NORTH CENTRAL*	53,801						
Ia.	28,071	X	X	X			
Kans.	2,764	X	X			X	
Minn.		X		X			
Mo.	4,240	X	X				
Nebr.							
N.D.	10,976		X				
S.D.	7,750	X	X				
SOUTH ATLANTIC*	49,763						
Del.	5,232	X					
D.C.							Directigen (Latex Agglutination)
Fla.	8,114	X				X	
Ga.	7,983	X	X				
Md.	25,864	X		X		X	
N.C.	650	X	X	X			
S.C.	621	X	X	X			
Va.							
W.Va.	1,299		X				
EAST SOUTH CENTRAL*	49,991						
Ala.							
Ky.	1,187	X	X	X			
Miss.	17,721	X	X				
Tenn.	31,083		X				
WEST SOUTH CENTRAL*	28,745						
Ark.	10,890	X	X	X	X	X	
La.	1,864	X	X	X			
Okla.	11,226	X	X	X			
Tex.	4,765	X	X	X		X	
MOUNTAIN*	74,292						
Ariz.	122	X		X		X	
Colo.							
Ida.	1,469	X	X				
Mont.							
Nev.							
N.M.	6						
Utah	17	X		X		X	
Wyo.	72,678						
PACIFIC*	31,884						
Alaska	26,790	X	X			X	
Cal.	12	X	X	X		X	
Hawaii	4,411	X	X	X	X		
Or.							
Wash.	671	X	X				
TERRITORIES*	43						
Guam		X				X	
P.R.	43						
V.I.							

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

Lab & Region	2. Diphtheria				
	Number of Specimens	Procedures Used			
		Direct Smear	Culture	Confirma. Sugars	Toxogenicity
TOTAL*	8,626				
Averages*	308				
NEW ENGLAND*	33				
Conn.	3	X	X	I	X
Mass.	22	X	X	I	X
Me.				I	X
N.H.	4	X	X		
R.I.	3	X	X	X	X
Vt.	1	X	X	I	X
MIDDLE ATLANTIC*	0				
N.J.					
N.Y.					
Pa.					
EAST NORTH CENTRAL*	5				
Ill.	1		X		
Ind.	1				
Mich.		X	X	X	X
Ohio			X	X	X
Wis.	3				
WEST NORTH CENTRAL*	46				
Ia.	1	X	X	X	X
Kans.					
Minn.	15		X	X	X
Mo.			X	X	X
Nebr.					
N.D.	30		X	X	X
S.D.		X	X	X	
SOUTH ATLANTIC*	8,115				
Del.					
D.C.					
Fla.	8,114		X	X	X
Ga.					
Md.					
N.C.		X	X	X	
S.C.	1	X	X	X	
Va.					
W.Va.					
EAST SOUTH CENTRAL*	10				
Ala.	8	X	X	X	X
Ky.		X	X	X	X
Miss.			X		X
Tenn.	2		X		X
WEST SOUTH CENTRAL*	63				
Ark.	16	X	X	X	
La.	3	X	X	X	
Okla.	25	X	X	X	X
Tex.	19	X	X	X	X
MOUNTAIN*	107				
Ariz.	12	X	X	X	X
Colo.					
Ida.	71		X	X	X
Mont.					
Neav.					
N.M.	14				
Utah	10	X	X	X	X
Wyo.					
PACIFIC*	247				
Alaska	12	X	X	X	
Cal.	4	X	X	X	X
Hawaii	7	X	X	X	
Ore.	4	X	X	X	X
Wash.	220	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*	9,989				
Average*	250				
NEW ENGLAND*	667				
Conn.	128				
Mass.	188	X	X		X
Me.	136	X	X		X
N.H.	42		X		
R.I.	3	X	X		X
Vt.	170	X	X		X
MIDDLE ATLANTIC*	89				
N.J.	11		X		
N.Y.					
Pa.	78	X	X		X
EAST NORTH CENTRAL*	3,128				
Ill.	1,381	X	X		
Ind.	584				
Mich.		X	X		X
Ohio	308	X	X		X
Misc.	855	X	X		
WEST NORTH CENTRAL*	885				
Ia.	76	X	X		X
Kans.	633		X		X
Minn.	109	X	X	X	X
Mo.					
Nebr.		X	X		
N.D.	30	X	X		
S.D.	37	X	X		
SOUTH ATLANTIC*	1,271				
Del.					
D.C.					
Fla.	397	X			
Ga.	364	X	X		
Md.	202	X	X		X
N.C.	265	X	X		X
S.C.		X	X		
Va.			X		
W.Va.	43		X		
EAST SOUTH CENTRAL*	266				
Ala.	47	X	X		
Ky.	69		X		
Miss.		X	X		
Tenn.	150	X	X		
WEST SOUTH CENTRAL*	2,400				
Ark.	35	X			X
La.	199	X	X		X
Okla.	1,817	X	X		
Tex.	349	X	X		
MOUNTAIN*	493				
Ariz.	48	X	X		X
Colo.					
Ida.	119	X	X	X	X
Mont.					
Nev.					
N.M.	297				
Utah	8	X			X
Wyo.	21				
PACIFIC*	782				
Alaska	64	X	X		X
Cal.	9	X	X	X	X
Hawaii	262	X	X		X
Orn.	55	X	X		
Wash.	392	X	X		
TERRITORIES*	8				
Buram	8	X			X
P.R.					
V.I.					

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

Lab & Region	4. Other Nasopharyngeal Specimens	
	Number of Specimens	Disease -- Procedures Used
TOTAL*	15,358	
Average*	864	
NEW ENGLAND*	493	
Conn.	407	Legionnaires' Disease - FA, culture; Vincent's infection - smear; speciation - biochemicals
Mass.	19	Meningitis - culture, biochemical, microscopic, serological
Me.		
N.H.		
R.I.	67	Bonococcus - culture, biochemical, FA
Vt.		
MIDDLE ATLANTIC*	1,705	
N.J.	1,705	Legionella - IFA, DFA, Culture; C. perfringens, S. aureus, C. jejuni - Isolation and identification
N.Y.		
Pa.		
EAST NORTH CENTRAL*	8,581	
Ill.		
Ind.		
Mich.		
Ohio	4,175	Staphylococcus - phage typing; aerobic
Misc.	4,406	Referred cultures - conventional identification; Clostridium difficile - culture and toxin assay; miscellaneous infections - culture; mycoplasma - in vitro culture
WEST NORTH CENTRAL*	1,043	
Ia.	3	Vincent's angina - direct exae.
Kans.		
Minn.	1,040	Referred cultures - smear, biochemical, serology, animal tests
Mo.		
Nebr.		
N.D.		
S.D.		
SOUTH ATLANTIC*	2,156	
Del.		
D.C.		
Fla.		
Ga.		
Md.	2,138	Bacteria, other bacterial - culture
N.C.	13	Strap-non-Beta hemolytic, Staph., H. influenzae, other Gram negative rods - culture and ID
S.C.		
Va.		
W.Va.	5	Legionella - FA
EAST SOUTH CENTRAL*	10	
Ala.		
Ky.		
Miss.		
Tenn.	10	Legionella - Culture
WEST SOUTH CENTRAL*	365	
Ark.		
La.		
Okl.		
Tex.	365	H. influenzae, M. meningitidis
MOUNTAIN*	0	
Ariz.		
Calo.		
Ida.		
Mont.		
Nev.		
N.M.		
Utah		
Wyo.		
PACIFIC*	1,205	
Alaska	47	Meningitidis, influenzae, S. pneumoniae, Staphylococcus - culture, biochemicals
Cal.	406	Adult & infant botulism - toxin tests, cultures
Hawaii	223	Meningococcus, Staphylococcus, H. influenzae - culture, ID
Ore.	10	Miscellaneous URI cultures for ID
Wash.	519	Legionnaires' Disease, M. meningitidis, S. aureus - all bacterial 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							Other
		Direct Smear	Concentrate Smear	Culture	Direct Suscept.- # of Drugs	Indirect Suscept.- # of Drugs	# of Biochemicals	Species Ident.	
TOTAL*	394,738								
Average*	9,399								
NEW ENGLAND*	42,705								
Conn.	6,161		X	X		9	19	X	Reference cultures Atypical (unclassified)
Mass.	29,743		X	X	9	9	9	X	
Me.	2,979	X	X	X	8	6	4-8	X	
N.H.	1,425		X	X			X	X	
R.I.	1,382		X	X		10	12	X	
Vt.	1,015		X	X		6	10	X	
MIDDLE ATLANTIC*	13,909								
N.J.	11,130		X	X		4-9	5	X	
N.Y.									
Pa.	2,779	X	X	X	5	5-9	3-12	X	
EAST NORTH CENTRAL*	13,786								
Ill.	5,073	X	X	X			9	X	
Ind.	2,086				6	6	6		
Mich.									
Ohio	2,032		X	X	X	X	X	X	
Misc.	4,595	X	X	X			6	10	X
WEST NORTH CENTRAL*	25,353								
Ia.	1,920	X	X	X	8	8	14	X	
Kans.	4,989		X	X			18	X	
Mien.	12,422		X		3		15	X	
Mo.									
Nebr.									
N.D.	3,024		X	X	5	5	8	X	
S.D.	3,000	X	X		4	4	3	X	
SOUTH ATLANTIC*	102,665								
Del.									
D.C.									
Fla.	41,987	X	X	X		7	2-10	X	
Ga.	16,591	X	X	X	5	9	12	X	
Md.	13,278	X	X	X	4	9	3-12	X	
N.C.	15,885		X	X	4	4	10	X	
S.C.	10,177	X	X	X	7	7	8	X	
Va.									
N.Va.	4,747	X	X	X	9	9	6	X	
EAST SOUTH CENTRAL*	64,186								
Ala.	23,453		X	X	8	8	21	X	Serotyping of atypical mycobacteria Fluorochrome smear
Ky.	11,921		X	X	8	8	9	X	
Miss.	14,712		X	X		7	6	X	
Tenn.	14,100		X	X		6	3	X	
WEST SOUTH CENTRAL*	93,388								
Ark.	23,110		X	X	6	6	13	X	
La.	8,118	X	X	X			30	X	
Okla.	9,100		X	X			5	X	
Tex.	53,060	X	X	X	8	8	14	X	
MOUNTAIN*	11,108								
Ariz.	2,498	X	X	X	6	6	10	X	
Colo.									
Ida.	1,697	X	X	X	4	4	10	X	
Mont.									
Nev.									
N.M.	4,706								
Utah	1,781	X	X	X	7	10	17	X	
Wyo.	426		X	X					
PACIFIC*	24,927								
Alaska	8,861	X	X	X		4-6	3-8	X	
Cal.	8,520	X	X	X	5	5-9	10	X	
Hawaii	7,691	X	X	X	12	12	7	X	
Orw.	2,769		X	X	7	7	13	X	
Wash.	5,086		X	X	5	5	10	X	
TERRITORIES*	2,709								
Guam	2,709	X		X					
P.R.									
V.I.									

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

Lab & Region	Number of Specimens	Procedures Used							
		Primary Plating	Enrichment Plating	Biochemicals	FA	Sero-grouping	Sero-typing	Phage Typing, S. typhi	Other
TOTAL*	160,263								
Average†	3,642								
NEW ENGLAND*	23,328								
Conn.	6,190	X	X	X		X	X		Biotyping
Mass.	12,773	X	X	X		X	X		
Me.	529	X	X	X		X	X		
N.H.	131	X	X	X		X	X		
R.I.	2,125	X	X	X		X	X		
Vt.	1,578	X	X	X		X	X		
MIDDLE ATLANTIC*	7,767								
N.J.	4,988	X	X	X		X	X		
N.Y.									
Pa.	2,779	X	X	X		X	X	X	
EAST NORTH CENTRAL*	17,208								
Ill.	8,604	X	X	X		X	X	X	
Ind.	2,192	X	X	X		X	X		
Mich.									
Ohio	1,261								Special feces
Wisc.	5,151	X	X	X		X	X		
WEST NORTH CENTRAL*	13,447								
Ia.	1,257	X	X	X		X	X		
Kans.	5,274	X	X	X		X	X		
Minn.	2,458	X	X	X		X	X	X	
Mo.	2,235	X	X	X		X	X		
Nebr.									
N.D.	1,156	X	X	X		X	X		
S.D.	1,067	X	X	X		X	X		
SOUTH ATLANTIC*	58,348								
Dal.	720	X	X	X		X	X		
D.C.									
Fla.	37,297	X	X	X	X	X	X		
Ga.	3,567	X	X	X		X	X	X	
Md.	10,461	X	X	X		X	X		
N.C.	4,528	X	X	X		X	X		
S.C.	1,301	X	X	X		X	X		
Va.									
W.Va.	474	X	X	X		X	X		
EAST SOUTH CENTRAL*	8,902								
Ala.	3,622	X	X	X		X	X		
Ky.	918	X	X	X	X	X	X	X	
Miss.	2,904	X	X	X		X	X		Subculture
Tenn.	1,458	X	X	X		X	X		
WEST SOUTH CENTRAL*	17,362								
Ark.	1,420	X	X	X		X	X		
La.	3,648	X	X	X		X	X	X	
Okla.	2,602	X	X	X		X	X		
Tex.	9,692	X	X	X		X	X	X	
MOUNTAIN*	6,268								
Ariz.	1,844	X	X	X		X	X		
Colo.									
Ida.	1,491	X	X	X		X	X		
Mont.									
Nev.									
N.M.	2,010								
Utah	901	X	X	X		X	X		
Wyo.	22	X	X	X		X			
PACIFIC*	7,357								
Alaska	1,940	X	X	X	X	X	X	X	API Sensitivity tests
Cal.	205	X	X	X		X	X	X	
Hawaii	1,568	X	X	X		X	X	X	
Ore.	1,279	X	X	X		X	X		
Wash.	2,365	X	X	X		X	X		Plasmid analysis.
TERRITORIES*	276								
Guam	276								
P.R.		X	X	X		X			
V.I.									

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

Lab & Region	Number of Specimens	Procedures Used							Other
		Smear	Culture	Oxidase Reaction	FA	Bio-chemical	Beta-Lactamase		
TOTAL*	3,974,649								
Average*	90,333								
NEW ENGLAND*	195,688								
Conn.	30,093	X	X	X	X	X	X	X	Susceptibility
Mass.	49,610	X	X	X	X	X	X	X	Phadebact
Me.	13,328	X	X	X	X	X	X	X	Gonozyme, co-agglutination, disc sensitivities
N.H.	21,390	X	X	X	X	X	X	X	
R.I.	71,897	X	X	X	X	X	X	X	Spectinomycin susceptibility
Vt.	9,170	X	X	X	X	X	X	X	
MIDDLE ATLANTIC*	208,726								
N.J.	208,705		X	X		X	X	X	Coagglutination
N.Y.									
Pa.	21	X	X	X		X	X	X	
EAST NORTH CENTRAL*	99,207								
Ill.	54,745	X	X	X		X	X	X	
Ind.	543	X	X	X	X	X	X	X	Spectinomycin resistance
Mich.									
Ohio	31,746	X	X	X	X	X	X	X	
Wisc.	12,173	X	X	X		X	X	X	Phadebact coagglutination
WEST NORTH CENTRAL*	247,663								
Ia.	59,350	X	X	X	X	X	X	X	
Kans.	31,963	X	X	X	X	X	X	X	Antibiotic susceptibility testing
Minn.	103,607	X	X	X	X	X	X	X	Catalase, Gonozyme
Mo.	41,130	X	X	X	X	X	X	X	Gram stain
Nebr.									
N.D.	7,381	X	X	X				X	Gonozyme
S.D.	4,232	X	X	X	X	X	X	X	Gonozyme
SOUTH ATLANTIC*	1,247,964								
Del.	30,959	X	X	X		X	X	X	
D.C.									
Fla.	486,849	X	X	X		X	X	X	Coagglutination
Ga.	187,079	X	X	X		X	X	X	Coagglutination, EIA
Mo.	335,231	X	X	X	X	X	X	X	
N.C.	450	X	X	X		X	X	X	
S.C.	149,449	X	X	X	X	X	X	X	Gram stain
Va.									
W.Va.	57,947	X	X	X	X	X	X	X	
EAST SOUTH CENTRAL*	720,411								
Ala.	294,407	X	X	X	X	X	X	X	
Ky.	1,601	X	X	X	X	X	X	X	
Miss.	170,883	X	X	X	X	X	X	X	Gram stain, drug susceptibility
Tenn.	253,520	X	X	X	X	X	X	X	
WEST SOUTH CENTRAL*	923,790								
Ark.	79,365	X	X	X		X	X	X	
La.	189,873	X	X	X		X	X	X	
Okl.	99,630	X	X	X		X	X	X	Coagglutination (Phadebact)
Tex.	554,922	X	X	X		X	X	X	Coagglutination, Gonozyme
MOUNTAIN*	133,078								
Ariz.	28,725	X	X	X		X	X	X	
Colo.									
Ida.	30,669	X	X	X	X	X	X	X	ELISA
Mont.									
Nev.									
N.M.	46,365								
Utah	19,728	X	X	X	X	X	X	X	Gonozyme (EIA)
Wyo.	7,591	X	X	X	X	X	X	X	
PACIFIC*	193,562								
Alaska	58,850	X	X	X	X	X	X	X	
Cal.	8,434	X	X	X	X	X	X	X	
Hawaii	92,530								
Or.	8,875	X	X	X	X	X	X	X	Gonozyme (EIA)
Wash.	24,873	X	X	X	X	X	X	X	
TERRITORIES*	4,560								
Guam	4,560								Penicillin sensitivity
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*	9,072									
Average*	245									
NEW ENGLAND*	424									
Conn.	112		X	X	X	X	X	X	X	
Mass.										
Me.	160	X	X	X	X	X	X		X	
N.H.	19	X		X	X	X	X			
R.I.	30	X		X	X	X	X			
Vt.	103	X	X	X	X	X	X		X	
MIDDLE ATLANTIC*	19									
N.J.	15	X	X	X	X	X			X	C. botulinum toxin testing
N.Y.										
Pa.	4			X	X	X	X			
EAST NORTH CENTRAL*	756									
Ill.	97		X	X	X	X	X		X	
Ind.	18		X	X	X	X	X		X	Toxin studies
Mich.										
Ohio	311	X	X	X	X	X	X		X	Botulism testing
Wisc.	330	X	X	X	X	X	X		X	
WEST NORTH CENTRAL*	673									
Ia.	161	X	X	X	X	X	X		X	
Kans.	286	X		X	X	X	X			
Minn.	39		X	X	X	X	X			Animal toxogenicity, serology, animal neutralization
Mo.		X	X	X	X	X	X	X	X	
Nebr.										
N.D.	150	X	X	X	X	X	X		X	
S.D.	37	X		X	X	X	X			
SOUTH ATLANTIC*	3,740									
Del.										
D.C.										
Fla.	298	X	X	X	X	X	X	X	X	
Ga.	88		X	X	X	X	X		X	
Mo.	323	X	X	X	X	X	X		X	
N.C.	2,453	X	X	X	X	X	X	X	X	
S.C.	514	X	X	X	X	X	X	X	X	
Va.										
W.Va.	64			X	X	X	X			
EAST SOUTH CENTRAL*	1,004									
Ala.	52	X		X	X	X	X			
Ky.				X	X	X	X			
Miss.				X	X	X	X			
Tenn.	952		X	X	X	X	X			
WEST SOUTH CENTRAL*	1,723									
Ark.	128	X	X	X	X	X	X		X	
La.	762	X	X	X	X	X	X		X	
Okla.	41	X		X	X	X	X			
Tex.	792		X	X	X	X	X	X	X	
MOUNTAIN*	468									
Ariz.	205	X	X	X	X	X	X		X	
Colo.										
Ida.	183	X		X	X	X	X		X	Toxin
Mont.										
Nev.										
N.M.	59			X	X	X	X			
Utah	21	X		X	X	X	X			C. botulinum toxin detection and typing in mice
Wyo.										
PACIFIC*	265									
Alaska	73	X		X	X	X	X			
Cal.	96	X	X	X	X	X	X	X	X	
Hawaii	47		X	X	X	X	X		X	
Ore.	9		X	X	X	X	X	X	X	
Wash.	40	X	X	X	X	X	X		X	Mouse toxicity testing and bio mouse neutralization
TERRITORIES*	0									
Guam										
P.R.		X		X	X	X	X			
V.I.										

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

Lab & Region	Number of Specimens	Disease -- Procedures Used
TOTAL*	228,574	
Average*	5,079	
NEW ENGLAND*	11,358	
Conn.	4,114	Genital smears - smears; nosocomial infections - phage typing; clinical cultures - FA, culture; referred cultures
Mass.	3,483	Miscellaneous infections - microscopic, culture, biochemical; serological, biotyping, animal inoculation (includes botulism, meningitis, pneumonia, bacteremia, whooping cough, legionellosis, and nosocomial)
Me.	656	Food poisoning - standard methods; toy stuffing - plate count, coliform by membrane filter; environmental - standard method; reference cultures - CDC procedures
N.H.	1,110	Clinical specimens for State mental hospital - culture and sensitivity
R.I.	554	Miscellaneous reference cultures - biochemicals
Vt.	1,441	Legionellosis - culture, DFA; wounds, sputum, blood cultures - standard procedures; referred cultures - Gram stain, plating, biochemicals
MIDDLE ATLANTIC*	1,038	
N.J.	384	Referred cultures - conventional biochemicals
N.Y.		
Pa.	654	Botulism, infant - toxin assay; Legionellosis - culture, DFA; miscellaneous - standard techniques
EAST NORTH CENTRAL*	7,719	
Ill.	1,932	Miscellaneous infections - culture; Staphylococcus infections - bacteriophage typing; syphilis - Fontana smear; Vincent's angina - smear
Ind.	1,361	Aerobic reference cultures - staining; Staphylococcus phage typing - biochemical; Legionella - serology
Mich.		
Ohio	2,076	Mycoplasma, Ureaplasma, Legionnaires', Leptospirosis
Wisc.	2,350	Legionnaires' - IFA, DFA, culture; Lyme - IFA, culture; toxic shock syndrome - culture, serology; foodborne illness - culture, toxin studies
WEST NORTH CENTRAL*	11,159	
Ia.	2,844	Legionella - DFA, IFA, culture; Miscellaneous culture, reference bacteriology - culture, ID
Kans.	1,866	Food - FDA; reference, staph phage typing
Minn.	120	Leptospirosis, blood culture, CSF culture, tissues, food poison
Mo.	1,437	B. pertussis, F. tularensis - culture, biochemical ID, DFA; N. meningitidis - culture, biochemical ID, grouping; H. influenzae - culture, typing; Legionnaires' - culture, FA; all others - culture, biochemical ID
Nebr.		
N.D.	3,802	Blood cultures - culture, smear, biochemical; urine cultures, spinal fluid - Autoclan; Legionnaires' - culture, FA, IFA; reference cultures, miscellaneous - appropriate
S.D.	1,090	
SOUTH ATLANTIC*	60,801	
Del.	1,333	Urine, miscellaneous, reference - primary plating, biochemicals, sensitivity
D.C.		
Fla.	6,660	Eye, ear, spinal fluid, blood, urine, other exudates & fluids, reference cultures - smear and culture; sensitivity testing - disc; rheumatic fever prophylaxis - microbial inhibition
Ga.	3,175	Meningitis, pneumonia, bacteremia, osteomyelitis, urinary infections, wounds, abscesses, etc. - usual bacterial procedures to identify
Md.	42,623	
N.C.	1,266	Legionellosis - culture, FA, serogrouping/typing; reference specimens, clinical specimens - smear, culture, biochemicals, serotyping
S.C.	5,233	Urinary tract infections - quantitative count, biochemicals, serology; meningitis - culture; drug susceptibility - Kirby-Bauer
Va.		
W.Va.	511	Culture identifications - Gram stain, plating, biochemicals, serology

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

Lab & Region	Number of Specimens	Disease -- Procedures Used
EAST SOUTH CENTRAL*	5,526	
Ala.	121	Legionella - FA, culture, biochemical
Ky.	167	Miscellaneous cultures - biochemicals, coagulase, smear, serogrouping
Miss.	2,752	Miscellaneous culture, miscellaneous waters, blood culture, urine culture, spinal fluid - primary plating, enrichment plating, culture, biochemicals, serogrouping, serotyping, subculture, sensitivity testing, Gram stain, agglutination
Tenn.	2,486	
WEST SOUTH CENTRAL*	67,874	
Ark.	187	Legionella - FA, culture, serology; Staphylococcus - culture; miscellaneous - microscopic
La.	2,077	Referred cultures for ID, food poisoning & food quality - stain, cultures, biochemical; Neisseria meningitidis - stain, cultures, biochemical, serogroup; seafood (Salmonella, Shigella, Cholerae, and Plague - animal inoculation Staphylococcus) - cultures, biochemical.
Okla.	724	General bacteriology - conventional biochemical procedures, CDC protocol
Tex.	64,886	Miscellaneous bacteriology - King ID System and ASM manual
MOUNTAIN*	4,173	
Ariz.	320	Referred bacteriology - culture & biochemicals
Colo.		
Ida.	923	Urine cultures - calibrated loop; reference bacteriology - King/Weaver; Leptospira, miscellaneous - culture
Mont.		
Nev.		
N.H.	2,604	
Utah	271	Meningitis, blood cultures, tularemia, pneumonia, toxic shock syndrome, urine culture - culture, biochemical, typing; Plague, Legionnaires' Disease, referred misc. organisms for ID.
Wyo.	55	Meningitis - culture, FA; Haemophilus - culture, serogrouping; Salmonella - serogrouping; miscellaneous - culture, serology
PACIFIC*	12,548	
Alaska	612	Reference, aerobic specimens - culture, biochemicals
Cal.	8,513	Plague - culture, FA, animals; Legionnaires' - animals, culture, FA; relapsing fever - animals, microscopic; Reference cultures for ID.
Hawaii	1,703	Staphylococcus - phage typing; Pseudomonas, Proteus, reference cultures - culture, ID
Ore.	632	Miscellaneous specimens and cultures for ID
Wash.	1,088	Legionnaires' Disease - stains, plating, GLC; food, N. meningitidis - Gram stain, plating, serogrouping, subculture; reference cultures - all bacterial procedures; Specimens from wounds, bites, draining infections - isolation, ID, and sensitivities
TERRITORIES*	46,378	
Guam	619	Urine cultures - quantitative count; Trichomonas & Monilia - wet count, primary culture, sugars
P.R.	45,759	
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*	50,902							
Average*	1,212							
NEW ENGLAND*	3,177							
Conn.	1,690	X	X	X		X		Differentiation media
Mass.	421	X	X	X		X		Exoantigens
Me.	499	X	X	X		X		
N.H.	88	X	X	X		X		
R.I.	267	X	X	X		X		
Vt.	212	X	X	X		X		Hair culture, amino acid requirements
MIDDLE ATLANTIC*	836							
N.J.	834	X	X	X		X		
N.Y.								
Pa.	2	X	X	X		X		Slide culture, morphology agar
EAST NORTH CENTRAL*	8,510							
Ill.	823	X	X	X		X	X	Gel diffusion
Ind.	577	X	X	X		X	X	Exoantigen test
Mich.								
Ohio	2,076	X	X	X		X	X	
Wisc.	5,034	X	X	X		X	X	Antifungal susceptibility testing, bioassays
WEST NORTH CENTRAL*	6,006							
Ia.	1,308	X	X	X		X		
Kans.	1,042	X	X	X		X		Immunodiffusion
Minn.	2,991	X	X	X		X	X	Assimilation tests, exoantigen tests
Mo.	267	X	X	X		X	X	
Nebr.								
N.D.	211	X	X	X	X	X		Abbott Quantum and plates
S.D.	187	X	X	X		X		
SOUTH ATLANTIC*	9,877							
Del.	20	X	X	X		X		
D.C.								
Fla.	2,571	X	X	X	X	X		
Ga.	1,218	X	X	X		X		Temperature tolerance, in vitro hair tests, latex agglutination, serology
Md.	2,918	X	X	X		X		
N.C.	1,303	X	X	X		X		
S.C.	1,707	X	X	X	X	X	X	
Va.								
N.Va.	140	X	X	X		X		
EAST SOUTH CENTRAL*	7,013							
Ala.	3,099	X	X	X		X	X	
Ky.								
Miss.	2,333	X	X	X		X		Hair culture
Tenn.	1,581	X	X	X		X		
WEST SOUTH CENTRAL*	10,897							
Ark.	2,009	X	X	X		X		
La.	1,606	X	X	X		X		Immunodiffusion for Fungi
Okla.	770	X	X	X		X	X	Exoantigen, slide culture
Tex.	6,512	X	X	X		X	X	Exoantigens
MOUNTAIN*	3,324							
Ariz.	1,012	X	X	X		X		In vitro conversion test
Colo.								
Ida.	978	X	X	X		X		Exoantigen test
Mont.								
Nev.								
N.M.	1,111							
Utah	182	X	X	X		X	X	Bers tube
Wyo.	41	X	X	X		X		
PACIFIC*	1,079							
Alaska	293	X	X	X		X		
Cal.	72	X	X	X	X	X	X	
Hawaii	532	X	X	X		X		
Ore.								
Wash.	182		X	X		X		
TERRITORIES*	183							
Guam	183	X		X		X		Cotton blue preparation
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*	258,240	251,500	6,740
Average†	5,739	5,589	193
NEW ENGLAND*	17,460	17,246	214
Conn.	7,708	7,573	135
Mass.	355	279	76
Me.	509	509	
N.H.	55	55	
R.I.	5,625	5,623	2
Vt.	3,208	3,207	1
MIDDLE ATLANTIC*	1,016	925	91
N.J.	892	813	79
N.Y.	0		
Pa.	124	112	12
EAST NORTH CENTRAL*	17,461	17,360	101
Ill.	3,965	3,946	19
Ind.	1,919	1,872	47
Mich.	0		
Ohio	794	787	7
Misc.	10,783	10,755	28
WEST NORTH CENTRAL*	26,264	25,938	326
Ia.	4,783	4,760	23
Kans.	9,337	9,309	28
Minn.	5,801	5,746	55
Mo.	2,774	2,774	
Nebr.	0		
N.D.	2,064	1,844	220
S.D.	1,505	1,505	
SOUTH ATLANTIC*	107,238	106,121	1,117
Del.	531	528	3
D.C.	0		
Fla.	61,933	61,889	44
Ga.	18,767	18,758	9
Md.	9,413	9,390	23
N.C.	6,374	6,072	302
S.C.	6,964	6,238	726
Va.	0		
W.Va.	3,256	3,246	10
EAST SOUTH CENTRAL*	33,477	33,461	16
Ala.	14,516	14,505	11
Ky.	4,538	4,538	
Miss.	8,589	8,589	
Tenn.	5,834	5,829	5
WEST SOUTH CENTRAL*	28,994	24,332	4,662
Ark.	2,392	2,369	23
La.	13,332	12,528	804
Okl.	3,314	3,276	38
Tex.	9,956	6,359	3,597
MOUNTAIN*	5,750	5,535	215
Ariz.	93	89	4
Colo.	0		
Ida.	2,187	1,986	201
Mont.	0		
Nev.	0		
N.M.	1,416	1,416	
Utah	1,944	1,934	10
Wyo.	110	110	
PACIFIC*	14,819	14,637	182
Alaska	3,256	3,250	6
Cal.	1,390	1,236	154
Hawaii	934	934	
Ore.	2,374	2,371	3
Wash.	6,865	6,846	19
TERRITORIES*	5,761	5,745	16
Guam	561	545	16
P.R.	5,200	5,200	
V.I.	0		

TABLE 4-13
 III. PARASITOLOGY
 A. Intestinal Specimens

Lab & Region	Number of Specimens	Procedures Used					Other
		Gross	Direct (Incl. Pinworms)	Concentration Saeer	Stained Saeer		
TOTAL*	251,500						
Average*	5,589						
NEW ENGLAND*	17,246						
Conn.	7,573	X	X	X	I		
Mass.	279	X	X	X	I		
Me.	509	X	X	X	I		
N.H.	55	X	X	X	I		
R.I.	5,623	X	X	X			
Vt.	3,207	X	X	X	I		Worm identification
MIDDLE ATLANTIC*	925						
N.J.	813			X	I		
N.Y.							
Pa.	112	X	X	X	I		Adult helminths - identification
EAST NORTH CENTRAL*	17,360						
Ill.	3,946	X	X	X	I		
Ind.	1,872	X	X	X	I		
Mich.							
Ohio	787	X	X	X			
Wis.	10,755	X	X	X	I		
WEST NORTH CENTRAL*	25,938						
Ia.	4,760	X	X	X	I		Environmental
Kans.	9,309	X	X	X	I		
Minn.	5,746	X	X	X	I		
Mo.	2,774	X	X	X	I		Isolation of Naegleria
Nehr.							
N.D.	1,844	X	X	X			
S.D.	1,505	X	X	X	I		
SOUTH ATLANTIC*	106,121						
Del.	528		X	X	I		
D.C.							
Fla.	61,889	X	X	X	I		
Ga.	18,758		X	X	I		Worm identification
Md.	9,390	X	X	X	I		
N.C.	6,072	X	X	X	I		Mounted, stained worm segments
S.C.	6,238						
Va.							
W.Va.	3,246	X	X	X	I		
EAST SOUTH CENTRAL*	33,461						
Ala.	14,505		X	X			
Ky.	4,538	X	X	X	I		
Miss.	8,589		X	X	I		
Tenn.	5,829		X	X	I		
WEST SOUTH CENTRAL*	24,532						
Ark.	2,369	X	X	X	I		
La.	12,528	X	X	X	I		
Okla.	3,276	X	X	X	I		Cryptosporidium saeers, occult blood
Tex.	6,359	X	X	X	I		Truant for Cryptosporidium, cultures
MOUNTAIN*	5,535						
Ariz.	89	X	X	X	I		
Colo.							
Ida.	1,986	X	X	X	I		
Mont.							
Nev.							
N.M.	1,416						
Utah	1,934	X	X	X	I		
Wyo.	110			X	I		
PACIFIC*	14,637						
Alaska	3,250	X	X	X	I		
Cal.	1,236	X	X	X	I		Reference - culture
Hawaii	934		X	X	I		
Ore.	2,371	X	X	X	I		
Wash.	6,846	X	X	X	I		
TERRITORIES*	5,745						
Guam	545	X	X	X			
P.R.	5,200		X	X			
V.I.							

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

Lab & Region	Number of Specimens	Types of Specimens			
		Malaria	Trichinosis	Toxoplasmosis	Other (Disease Entity-Procedures Used)
TOTAL*	6,740				
Average*	193				
NEW ENGLAND*	214				
Conn.	135	X	X		Material for identification
Mass.	76	X			Arthropods, food, sputum, lung
Me.					
N.H.					
R.I.	2	X			
Vt.	1	X	X		
MIDDLE ATLANTIC*	91				
N.J.	79	X	X		Cryptosporidium, P. carinii, worm identification
N.Y.					
Pa.	12	X	X		Arthropod identification, T. gondii, P. carinii, tissue for Giardia
EAST NORTH CENTRAL*	101				
Ill.	19	X			Gross worms
Ind.	47	X			Arthropods
Mich.					
Ohio	7	X		X	
Misc.	28	X			
WEST NORTH CENTRAL*	326				
Ia.	23	X	X		Arthropods, worms
Kans.	28	X			Arthropods
Minn.	55	X	X		
Mo.		X			
Nabr.					
N.D.	220	X		X	
S.D.					
SOUTH ATLANTIC*	1,117				
Del.	3	X			
D.C.					
Fla.	44	X			
Ga.	9	X			
Md.	23	X			
N.C.	302	X			Arthropod ID, water - Giardia
S.C.	726	X			Trichomonas
Va.					
W.Va.	10				Insect ID
EAST SOUTH CENTRAL*	16				
Ala.	11	X			
Ky.					
Miss.		X			
Tenn.	5	X			
WEST SOUTH CENTRAL*	4,462				
Ark.	23	X	X	X	Ascariasis, visceral larval migrans, Toxocara
La.	804	X	X		Food - insects, worms; water - Giardia, free-living Nematodes
Okla.	38	X		X	Arthropods
Tex.	3,597	X	X		Urine for Schistosoma, Trichomonas, CSF and water for Naegleria, Liver Abscess for Amebiasis
MOUNTAIN*	215				
Ariz.	4	X			
Colo.					
Ida.	201	X	X	X	Exoparasites
Mont.					
Nev.					
N.M.					
Utah	10	X	X		ID of Arthropods
Wyo.					
PACIFIC*	182				
Alaska	6	X			
Cal.	154	X	X	X	Pinworm preps., Proglottids and miscellaneous
Hawaii					
Ore.	3	X			
Wash.	19	X			Sputum, urine
TERRITORIES*	16				
Guam	16	X			
P.R.					
V.I.					

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

Lab & Region	Total Virology Specimens	A	B	C	D
		Rabies Specimens	Viral Isolations	Rickettsial Ident. Isolations	Other
TOTAL*	381,640	71,491	130,570	8,158	171,421
Average*	8,481	1,702	3,436	906	10,714
NEW ENGLAND*	19,135	2,005	17,130	0	0
Conn.	12,106	465	11,641		
Mass.	4,193	803	3,390		
Me.	2,312	238	2,074		
N.H.	260	260			
R.I.	105	105			
Vt.	159	134	25		
MIDDLE ATLANTIC*	13,789	2,863	6,710	7	4,209
N.J.	12,004	2,133	5,655	7	4,209
N.Y.	0				
Pa.	1,785	730	1,055		
EAST NORTH CENTRAL*	148,320	10,205	23,420	45	114,650
Ill.	13,047	2,673	1,685		8,689
Ind.	3,576	2,359	1,217		
Mich.	0				
Ohio	118,787	3,304	9,477	45	105,961
Wisc.	12,910	1,869	11,041		
WEST NORTH CENTRAL*	37,661	5,299	16,858	58	15,446
Ia.	11,347	833	8,476		2,038
Kans.	1,839		1,839		
Minn.	4,880	1,653	3,227		
Mo.	4,666	2,246	2,420		
Nebr.	0				
N.D.	14,082	466	188	20	13,408
S.D.	847	101	708	38	
SOUTH ATLANTIC*	51,708	16,565	31,654	143	3,346
Del.	2,328	213	1,804		511
D.C.	0				
Fla.	7,735	5,113	2,622		
Ga.	5,395	1,777	3,132		486
Md.	16,610	5,345	11,221	44	
N.C.	8,935	1,762	5,093		2,080
S.C.	9,736	1,586	7,782	99	269
Va.	0				
W.Va.	769	769			
EAST SOUTH CENTRAL*	10,445	7,533	2,846	0	66
Ala.	2,936	2,903	33		
Ky.	2,044	1,703	275		66
Miss.	797	797			
Tenn.	4,668	2,130	2,538		
WEST SOUTH CENTRAL*	50,643	23,029	13,515	7,890	6,209
Ark.	1,863	1,852	6	5	
La.	2,448	2,410	38		
Okl.	5,029	3,227	1,744		38
Tex.	41,303	15,540	11,727	7,885	6,151
MOUNTAIN*	27,245	3,384	7,559	0	16,302
Ariz.	3,842	1,728	2,114		
Colo.	0				
Ida.	2,210	242	1,968		
Mont.	0				
Nev.	0				
N.M.	16,986	674	977		15,335
Utah	3,812	345	2,500		967
Wyo.	395	395			
PACIFIC*	11,625	602	10,878	15	130
Alaska	4,551	119	4,432		
Cal.	3,321		3,191		130
Hawaii	1,368	10	1,358		
Ore.	1,368	176	1,192		
Wash.	1,017	297	705	15	
TERRITORIES*	11,069	6	0	0	11,063
Buam.	6	6			
P.R.	11,063				11,063
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*	71,491				
Average*	1,702				
NEW ENGLAND*	2,005				
Conn.	463		X	X	
Mass.	803		X	X	
Me.	238		X	X	
N.H.	260		X	X	
R.I.	105		X	X	
Vt.	134		X		
MIDDLE ATLANTIC*	2,863				
N.J.	2,133		X	X	
N.Y.			X	X	
Pa.	730		X	X	
EAST NORTH CENTRAL*	10,205				
Ill.	2,673	X	X	X	
Ind.	2,359		X	X	
Mich.			X	X	
Ohio	3,304		X	X	
Wisc.	1,869		X	X	
WEST NORTH CENTRAL*	5,299				
Ia.	833		X	X	
Kans.			X	X	
Minn.	1,653		X	X	
Mo.	2,246	X	X	X	
Nebr.			X	X	
N.D.	466		X	X	
S.D.	101		X	X	
SOUTH ATLANTIC*	16,565				
Del.	213		X	X	
D.C.			X	X	
Fla.	5,113	X	X	X	
Ga.	1,777		X	X	
Mo.	5,345	X	X	X	(ab 35), (isol 5) Mouse neutralization titer, RFFIT antibody titer
N.C.	1,762		X	X	
S.C.	1,586		X	X	Serum neutralizations
Va.			X	X	
W.Va.	769		X	X	
EAST SOUTH CENTRAL*	7,533				
Ala.	2,903	X	X	X	
Ky.	1,703	X	X	X	
Miss.	797	X	X	X	
Tenn.	2,130	X	X	X	
WEST SOUTH CENTRAL*	23,029				
Ark.	1,852	X	X	X	
La.	2,410		X	X	
Okla.	3,227		X	X	
Tex.	15,540		X	X	
MOUNTAIN*	3,384				
Ariz.	1,728		X		
Colo.			X		
Ida.	242		X		
Mont.			X		
Nev.			X		
N.H.	674		X	X	
Utah	345	X	X	X	
Wyo.	395		X		
PACIFIC*	602				
Alaska	119		X	X	
Cal.			X	X	
Hawaii	10		X	X	
Ore.	176	X	X	X	
Wash.	297		X	X	
TERRITORIES*	6				
Guam	6		X		
P.R.			X		
V.I.			X		

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	Respiratory	Evan-thes	
TOTAL*	130,570						
Average*	3,436						
NEW ENGLAND*	17,130						
Conn.	11,641	X	X		X	X	Autopsy, biopsy, cell passages
Mass.	3,390	X	X	X	X	X	CNS
Me.	2,074	X			X	X	Vesicle fluids
N.H.							
R.I.							
Vt.	25				X		
MIDDLE ATLANTIC*	6,710						
N.J.	5,655	X	X	X	X	X	CNS (non Arbovirus), STD (Chlamydia)
N.Y.							
Pa.	1,055	X	X		X	X	Urine, genital, CSF
EAST NORTH CENTRAL*	23,420						
Ill.	1,685	X			X	X	
Ind.	1,217	X			X	X	
Mich.							
Ohio	9,477	X	X	X	X	X	
Misc.	11,041	X	X		X	X	
WEST NORTH CENTRAL*	16,858						
Ia.	8,476	X		X	X	X	Reference
Kans.	1,839	X			X	X	Biopsy and autopsy tissue and fluids
Minn.	3,227	X			X	X	
Mo.	2,420	X	X	X	X	X	
Nebr.							
N.D.	188	X			X		
S.D.	708	X	X		X	X	
SOUTH ATLANTIC*	31,654						
Del.	1,804	X	X	X	X		Genital
D.C.							
Fla.	2,622	X	X	X	X	X	
Ga.	3,132	X			X	X	CMV, HSV, Varicella Zoster, chlamydia
Md.	11,221	X	X	X	X	X	Veneral-genital, ocular, urinary tract
M.C.	5,093	X	X	X	X	X	Congenital, central nervous system
S.C.	7,782	X	X		X	X	Body exudates, fluids, veneral swabs, neuro-biopsy, autopsy specimens
Va.							
W.Va.							
EAST SOUTH CENTRAL*	2,846						
Ala.	33				X		
Ky.	275	X	X		X	X	Autopsy material
Miss.							
Tenn.	2,538	X			X	X	Chlamydia
WEST SOUTH CENTRAL*	13,515						
Ark.	8	X	X		X		
La.	38	X	X	X	X		
Okla.	1,744	X			X	X	Spinal fluid, urine, autopsy, lesion
Tex.	11,727	X	X	X	X	X	
MOUNTAIN*	7,559						
Ariz.	2,114	X	X	X	X	X	
Colo.							
Ida.	1,968				X	X	
Mont.							
Nev.							
N.M.	977						
Utah	2,500	X	X	X	X	X	Urine - CMV
Wyo.							
PACIFIC*	10,878						
Alaska	4,432	X	X	X	X	X	Autopsy, skin lesions, pleural fluid, virus isolates for ID, birds, mosquitoes, animal tissues
Cal.	3,191	X	X	X	X		
Hawaii	1,358	X				X	
Ore.	1,192	X			X	X	Tissue, body fluid, exudates, biopsy, autopsy
Wash.	705	X		X	X	X	Chlamydia-Psittacosis in birds
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-Orig. Spec.	FA-Other	HA1/HA2	Other
TOTAL*	130,570										
Average*	3,436										
NEW ENGLAND*	17,130										
Conn.	11,641	X			X		X		X	X	Enzyme immunoassay
Mass.	3,390	X			X	X	X		X	X	ACIF
Me.	2,074	X	X		X				X		
N.H.											
R.I.											
Vt.	25		X		X		X				
MIDDLE ATLANTIC*	6,710										
N.J.	5,655	X	X	X	X	X	X	X	X	X	Interference/Interference Inhibition
N.Y.											
Pa.	1,055	X	X	X	X		X	X	X	X	
EAST NORTH CENTRAL*	23,420										
Ill.	1,685	X			X		X				
Ind.	1,217	X			X	X	X				
Mich.											
Ohio	9,477	X	X		X	X	X		X	X	
Misc.	11,041	X	X	X	X	X	X	X	X	X	
WEST NORTH CENTRAL*	16,858										
Ia.	8,476	X	X	X	X	X	X		X	X	EIA
Kans.	1,839	X	X	X	X	X	X	X	X	X	
Minn.	3,227	X	X	X	X	X	X		X	X	
Mo.	2,420	X	X	X	X	X	X		X	X	
Nebr.											
N.D.	188	X	X	X	X	X	X	X	X	X	
S.D.	708	X	X	X	X	X	X		X	X	
SOUTH ATLANTIC*	31,654										
Del.	1,804	X	X	X	X	X	X	X	X	X	
D.C.											
Fla.	2,622	X	X	X	X	X	X	X	X	X	
Ga.	3,132	X	X		X	X	X	X	X	X	Direct Electron Microscopy, Immunoelectron Microscopy, EIA
Md.	11,221	X	X	X	X	X	X	X	X	X	ELISA
N.C.	5,093	X	X	X	X	X	X	X	X	X	
S.C.	7,782	X	X	X	X	X	X	X	X	X	Mycoplasma bi-phasic media
Va.											
W.Va.											
EAST SOUTH CENTRAL*	2,846										
Ala.	33		X		X						
Ky.	275	X			X	X	X				
Miss.											
Tenn.	2,538	X	X	X	X				X		
WEST SOUTH CENTRAL*	13,513										
Ark.	6										
La.	38		X	X	X	X	X		X	X	
Okla.	1,744	X	X	X	X	X	X	X	X	X	EM
Tex.	11,727	X	X	X	X	X	X	X	X	X	
MOUNTAIN*	7,559										
Ariz.	2,114	X	X	X	X	X	X	X	X	X	
Colo.											
Ida.	1,968	X	X		X	X		X	X		
Mont.											
Nev.											
N.H.	977										
Utah	2,500	X	X	X	X	X	X	X	X	X	
Wyo.											
PACIFIC*	10,878										
Alaska	4,432	X	X	X	X	X	X	X	X	X	Electron microscopy, RIA, EIA
Cal.	3,191	X	X	X	X	X	X	X	X	X	
Hawaii	1,358	X	X	X	X	X	X	X	X	X	
Ore.	1,192	X	X	X	X	X	X	X	X	X	
Wash.	705	X	X	X	X	X	X	X	X	X	Macchiavello's stain
TERRITORIES*	0										
Guam											
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-lyoph	FA	Other
TOTAL*	8,158					
Average*	906					
NEW ENGLAND*	0					
Conn.						
Mass.						
Me.						
N.H.						
R.I.						
Vt.						
MIDDLE ATLANTIC*	7					
N.J.	7	X	X	X	X	Egg inoculation, guinea pig inoculation
N.Y.						
Pa.						
EAST NORTH CENTRAL*	45					
Ill.						
Ind.						
MICH.						
Ohio	45	X		X	X	
Misc.						
WEST NORTH CENTRAL*	58					
Ia.						
Kans.						
Minn.						
Mo.						
Nebr.						
N.D.	20					
S.D.	38		X		X	CF
SOUTH ATLANTIC*	143					
Del.						
D.C.						
Fla.						
Ga.						
Ms.	44	X	X	X	X	Encephalitis, ELISA/Immunofluorescence
N.C.						
S.C.	99	X		X	X	
Va.						
W.Va.						
EAST SOUTH CENTRAL*	0					
Ala.						
Ky.						
Miss.						
Tenn.						
WEST SOUTH CENTRAL*	7,890					
Ark.	5	X		X	X	
La.						
Okl.						
Tex.	7,885	X	X	X	X	Animal inoculation
MOUNTAIN*	0					
Ariz.						
Colo.						
Ida.						
Mont.						
Nev.						
N.M.						
Utah						
Wyo.						
PACIFIC*	15					
Alaska						
Cal.						
Hawaii						
Ore.						
Wash.	15	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*	171,421	
Average*	10,714	
NEW ENGLAND*	0	
Conn.		
Mass.		
Me.		
N.H.		
R.I.		
Vt.		
MIDDLE ATLANTIC*	4,209	
N.J.	4,209	Hepatitis - EIA/RIA; Rotavirus - EIA
N.Y.		
Pa.		
EAST NORTH CENTRAL*	114,650	
Ill.	8,689	Respiratory - CF; Central nervous system - CF; Measles - HAI; Rubella - HAI, Agglutination; Arbo - HAI; Arbo-avian serology - HAI
Ind.		
Mich.		
Ohio	105,961	Arthropods
Wisc.		
WEST NORTH CENTRAL*	15,446	
Ia.	2,038	Chlamydia, Mycoplasma - culture; C. difficile toxin - neutralization
Kans.		
Minn.		
Mo.		
Webr.		
W.D.	13,408	Rubella - Rubazyme IFA; rubeola - IFA; Herpes I & II - IFA, TC; Influenzae A & B - TC, HAI, CF; Varicella zoster - IFA; LCM - CF
S.D.		
SOUTH ATLANTIC*	3,346	
Del.	511	Chlamydia - isolation and direct exam.; Rotavirus
D.C.		
Fla.		
Ga.	486	Herpes simplex - FA; chlamydia - Giemza
Md.		
N.C.	2,080	Chlamydial disease - tissue culture
S.C.	269	Herpes - Direct FA on prepared slides
Va.		
W.Va.		
EAST SOUTH CENTRAL*	66	
Ala.		
Ky.	66	Herpes - Direct FA
Miss.		
Tenn.		
WEST SOUTH CENTRAL*	6,209	
Ark.		
La.		
Okl.	58	Influenza serology - HI
Tex.	6,151	
MOUNTAIN*	16,302	
Ariz.		
Colo.		
Ida.		
Mont.		
Nev.		
N.M.	15,335	
Utah	967	Chlamydia - culture, iodine
Wyo.		
PACIFIC*	130	
Alaska		
Cal.	130	Reagents, biologics - serologic
Hawaii		
Ore.		
Wash.		
TERRITORIES*	11,063	
Guam		
P.R.	11,063	Rubella - Rubazyme; Hepatitis A & B - ELISA
V.I.		

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

Lab & Region	Total Immunology Specimens	A	B	C	D	E	F
		Syphilis Serology	Bacterial Serology	Fungal Serology	Parasitic Serology	Viral and Rickettsial Serology	Other
TOTAL*	4,680,603	3,497,448	53,096	64,232	69,722	931,902	64,203
Average*	104,013	79,487	1,327	2,072	2,179	22,729	3,567
NEW ENGLAND*	335,668	231,536	23,117	1,658	5,505	73,245	607
Conn.	81,792	37,048	3,584	763	2,218	18,113	68
Mass.	131,786	122,501	197	639	1,391	6,638	420
Me.	11,300	1,939	251	216	1,651	7,243	
N.H.	6,394	5,102				1,292	
R.I.	99,466	51,139	18,985		18	29,324	
Vt.	24,930	13,809	100	40	227	10,635	119
MIDDLE ATLANTIC*	187,816	148,598	995	2,541	1,881	33,801	0
N.J.	185,153	148,184	178	2,444	1,720	32,629	
N.Y.	0						
Pa.	2,661	414	817	97	161	1,172	
EAST NORTH CENTRAL*	287,251	123,786	3,512	18,506	21,463	116,016	3,968
Ill.	62,493	53,575	247	7,838	853		
Ind.	32,823	20,690	426	2,721	1,448	7,538	
Mich.	0						
Ohio	49,663	20,970	104	1,187	1,188	25,366	848
Wis.	142,272	28,551	2,735	6,760	17,994	83,112	3,120
WEST NORTH CENTRAL*	268,642	153,373	9,285	10,436	6,290	79,962	9,296
Ia.	74,789	27,233	4,634	5,248	3,881	33,760	33
Kans.	48,499	39,002	363	609		7,382	1,143
Minn.	44,970	28,815	684	2,317	1,326	11,828	
Mo.	53,316	33,550	3,378	3,883	1,683	5,502	7,920
Nebr.	0						
N.D.	27,422	13,684	110	20		13,408	200
S.D.	19,646	11,089	116	339		8,082	
SOUTH ATLANTIC*	1,530,236	1,184,456	8,766	4,255	21,519	304,124	7,116
Del.	24,980	20,053				1,043	3,884
D.C.	0						
Fla.	525,658	460,625	2,704		1,013	61,316	
Ga.	313,756	261,374	192	888	1,334	49,968	
Md.	336,631	199,932	3,118	671	15,018	117,353	539
N.C.	189,697	136,233	2,342	1,569	3,085	46,468	
S.C.	112,089	91,328	410	977	768	18,539	67
Va.	0						
W.Va.	27,425	14,911		150	301	9,437	2,626
EAST SOUTH CENTRAL*	647,414	565,555	932	5,968	1,166	73,120	673
Ala.	243,249	222,320	503	4,307	473	15,646	
Ky.	48,275	29,269	198		693	18,115	
Miss.	197,030	187,477	226	784		8,543	
Tenn.	158,860	126,489	5	877		30,816	673
WEST SOUTH CENTRAL*	1,062,063	881,444	2,999	10,895	7,642	148,848	10,235
Art.	80,334	76,949	408	1,612	113	1,252	
La.	174,926	121,408	386	1,187	2,201	49,744	
Okla.	86,509	74,052	321			12,136	
Tex.	720,294	609,035	1,884	8,096	5,328	85,716	10,235
MOUNTAIN*	131,189	97,917	512	4,642	632	26,827	659
Ariz.	37,131	21,871	14	4,561	243	10,442	
Colo.	0						
Ida.	11,378	6,093	47			4,650	588
Mont.	0						
Nev.	0						
N.M.	48,372	47,368	270	81	335	247	71
Utah	15,489	14,207	146		54	1,682	
Wyo.	18,819	8,378	35			10,406	
PACIFIC*	196,134	108,222	2,978	5,331	3,624	75,959	0
Alaska	92,675	33,909	18		135	58,533	
Cal.	21,177	12,370	2,420	5,182	1,205		
Hawaii	16,024	12,238	142		34	3,610	
Ore.	33,885	28,882	346	149	2,250	4,259	
Wash.	32,373	22,763	52			9,558	
TERRITORIES*	34,190	2,541	0	0	0	0	31,649
Guam	2,541	2,541					
P.R.	31,649						
V.I.	0						31,649

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

Lab & Region	Number of Specimens	Procedures Used											Other	
		VDRL	RPR	ART	USR	RST	FTA-ABS	AFTA-ABS	FTA-ABS (IgM)	DFATP	MHA-TP	Dark-field		
TOTAL*	3,497,448													
Average*	79,487													
NEW ENGLAND*	231,536													
Conn.	37,046	X	X	X				X			X		X	
Mass.	122,501	X	X					X						
Me.	1,939	X	X					X					X	
N.H.	5,102	X												
R.I.	51,139	X	X						X				X	
Vt.	13,809		X	X										
MIDDLE ATLANTIC*	148,598													
N.J.	148,184	X	X					X				X		HATTS
N.Y.														
Pa.	414	X	X					X						
EAST NORTH CENTRAL*	123,786													
Ill.	53,575	X	X					X				X		
Ind.	20,690	X	X					X						
Mich.														
Ohio	20,970	X	X					X				X		HATTS
Wisc.	28,551	X						X			X	X		
WEST NORTH CENTRAL*	153,373													
Ia.	27,233	X	X			X		X			X	X		HATTS
Kans.	39,002	X						X						
Mich.	28,815					X		X					X	
Mo.	33,550	X	X									X		
Nebr.														
N.D.	13,684	X	X					X					X	
S.D.	11,089	X	X					X				X		
SOUTH ATLANTIC*	1,184,456													
Del.	20,053	X	X					X					X	
D.C.														
Fla.	460,625	X	X					X			X			
Ga.	281,374	X	X					X					X	
Md.	199,932	X	X					X		X				
M.C.	136,233	X						X			X			
S.C.	91,328	X	X					X						
Va.														
W.Va.	14,911		X					X				X		
EAST SOUTH CENTRAL*	565,555													
Ala.	222,320	X						X						
Ky.	28,269	X	X					X						
Miss.	187,477	X	X					X						
Tenn.	128,489	X	X					X				X		Total Protei
WEST SOUTH CENTRAL*	881,444													
Ark.	76,949	X						X			X			
La.	121,408	X						X			X			
Okla.	74,052	X	X					X				X		
Tex.	609,035	X	X					X				X		
MOUNTAIN*	97,917													
Ariz.	21,871	X	X					X				X		
Colo.														
Ida.	6,093		X			X								
Mont.														
Neav.														
N.M.	47,368													
Utah	14,207	X	X					X					X	
Wyo.	8,378	X	X					X						
PACIFIC*	108,242													
Alaska	33,989	X	X					X				X	X	
Cal.	12,370	X	X					X		X		X	X	
Hawaii	12,238	X	X					X					X	
Ore.	26,882	X	X					X		X			X	
Wash.	22,763	X	X					X					X	
TERRITORIES*	2,541													
Guam	2,541	X						X					X	
P.R.														
V.I.														

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

Lab & Region	Number of Specimens	Types of Specimens					
		Brucellosis	Tularemia	Strept. Antibodies	Leptospirosis	Salmonellosis	Other
TOTAL*	53,096						
Average*	1,327						
NEW ENGLAND*	23,117						
Conn.	3,584	X	X	X	X	X	Legionella pneumophila, Bordetella pertussis, (leptospirosis to CDC)
Mass.	197	X	X				Legionella
Me.	251						
N.H.							
R.I.	18,985	X				X	Febriles, Legionellosis
Vt.	100	X	X			X	Rickettsial (Proteus ag.)
MIDDLE ATLANTIC*	995						
N.J.	178	X	X		X		
N.Y.							
Pa.	817	X	X		X		Legionellosis (Tularemia, Leptospirosis, Lyme disease, Melioidosis, relapsing fever, Glanders, Plague referred to CDC)
EAST NORTH CENTRAL*	3,512						
Ill.	247	X	X				Legionnaires' Disease IFA
Ind.	426	X	X		X	X	
Mich.							
Ohio	104	X	X		X		
Wisc.	2,735	X	X	X		X	
WEST NORTH CENTRAL*	9,285						
Ia.	4,634	X	X		X		Legionellosis
Kans.	363	X	X		X		Legionnaires'
Minn.	684	X	X		X		Weil-Felix, OX19, OX12, Legionnaires'
Mo.	3,378	X	X				Legionnaires', Cryptococcus, asepsias
Nebr.							
N.D.	110	X	X	X		X	
S.D.	116	X	X		X		
SOUTH ATLANTIC*	8,766						
Del.							
D.C.							
Fla.	2,704	X			X		Legionella
Ga.	192	X	X				
Md.	3,118	X	X	X	X	X	Pertussis, Pasteurella, Multocida, Tetanus antitoxin, Diphtheria antitoxin, Legionnaires' Disease
N.C.	2,342	X	X	X			
S.C.	410	X	X		X		Legionnaires'
Va.							
W.Va.							
EAST SOUTH CENTRAL*	932						
Ala.	503	X	X				Legionella pneumophila
Ky.	198	X	X				Typhoid O, Legionnaires'
Miss.	226	X	X	X			
Tenn.	5	X	X				
WEST SOUTH CENTRAL*	2,999						
Ark.	408	X	X		X	X	Legionella
La.	386	X	X		X		
Okla.	321	X	X				
Tex.	1,884	X	X		X		Legionnaires' Disease, Lyme Disease
MOUNTAIN*	512						
Ariz.	14	X	X				
Colo.							
Ida.	47	X	X				
Mont.							
Nev.							
N.M.	270						
Utah	146	X	X				Legionella
Wyo.	35	X	X				
PACIFIC*	2,978						
Alaska	18	X	X				
Cal.	2,420	X	X		X	X	Pertussis, Legionellosis, Yersinia enterocolitica, Yersinia pseudotuberculosis
Hawaii	142				X		
Ore.	346	X	X		X		
Wash.	52	X	X		X		Proteus O12, OX19, OXk
TERRITORIES*	0						
Buam							
P.R.		X				X	Febrile agglutination
V.I.							

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

Lab & Region	Number of Specimens	Types of Specimens						Other
		Blastomycosis	Coccidioidomycosis	Histoplasmosis	Cryptococcosis	Aspergillosis	Candidiasis	
TOTAL*	64,232							
Average*	2,072							
NEW ENGLAND*	1,658							(All referred to CDC)
Conn.	763	X	X	X	X	X	X	
Mass.	639							
Me.	216	X	X	X	X	X	X	
N.H.								
R.I.								
Vt.	40		X	X				
MIDDLE ATLANTIC*	2,541							
N.J.	2,444	X	X	X	X	X	X	
N.Y.								
Pa.	97	X	X	X	X	X	X	(All referred to CDC)
EAST NORTH CENTRAL*	18,506							
Ill.	7,838	X	X	X	X	X	X	
Ind.	2,721	X	X	X				
Mich.								
Ohio	1,187	X	X	X	X	X		
Wisc.	6,760	X	X	X	X			
WEST NORTH CENTRAL*	10,436							
Ia.	5,248	X	X	X	X			Hypersensitivity pneumonitis
Kans.	609	X	X	X				
Minn.	2,317	X	X	X	X	X	X	Sporotrichosis, Farmer's Lung
Mo.	1,883	X	X	X	X			
Nebr.								
N.D.	20	X	X	X		X		
S.D.	359	X	X	X	X			
SOUTH ATLANTIC*	4,235							
Del.								
D.C.								
Fla.								
Ga.	888	X	X	X				
Md.	671	X	X	X	X	X	X	
N.C.	1,569	X	X	X	X	X	X	
S.C.	977	X	X	X	X	X	X	
Va.								
W.Va.	150	X	X	X	X	X	X	
EAST SOUTH CENTRAL*	5,968							
Ala.	4,307	X	X	X		X		
Ky.								
Miss.	784	X	X	X				
Tenn.	877	X		X				
WEST SOUTH CENTRAL*	10,895							
Ark.	1,612	X	X	X	X	X		
La.	1,187	X	X	X	X	X		
Okla.								
Tex.	8,096	X	X	X	X	X		
MOUNTAIN*	4,642							
Ariz.	4,561	X	X	X				
Colo.								
Ida.		X	X	X		X		
Mont.								
Nev.								
N.M.	81							
Utah								
Wyo.								
PACIFIC*	5,331							
Alaska								
Cal.	5,182	X	X	X	X			
Hawaii								
Ore.	149	X	X	X	X	X	X	Sporotrichosis
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					
		Trichi- nosis	Toxoplas- mosis	Amebi- osis	Echino- coccosis	Trypano- somi- asis	Other
TOTAL*	69,722						
Average*	2,179						
NEW ENGLAND*	5,505						
Conn.	2,218	X	X	X	X	X	Chagas, pneumocystis, malaria, cystocercosis
Mass.	1,391	X	X	X	X	X	
Nw.	1,651		X				
N.H.	18		X				
R.I.	227		X				
MIDDLE ATLANTIC*	1,881						
N.J.	1,720	X	X	X			Toxocarriasis, Shistosomi- asis, Leishmaniasis, Cysticercosis, Pneumocystosis, Paragoni- asis, Malaria, Giardiasis, Fascioliasis, Filariasis, Strongyloidiasis (All except Toxoplasmosis referred to CDC)
N.Y.		X	X	X	X	X	
Pa.	161	X	X	X	X	X	
EAST NORTH CENTRAL*	21,463						
Ill.	833		X				
Ind.	1,448	X	X	X			
Mich.			X	X			
Ohio	1,188		X	X			
Wisc.	17,994		X				
WEST NORTH CENTRAL*	6,290						
Ia.	3,881	X	X	X			
Kans.			X				
Minn.	1,326		X				
Mo.	1,083		X				
Nebr.			X				
N.D.							
S.D.							
SOUTH ATLANTIC*	21,519						
Del.							Immunoglobulins (IFA)
D.C.							
Fla.	1,013		X				
Ga.	1,334		X				
Md.	15,018	X	X	X	X		
N.C.	3,085		X	X			
S.C.	768		X	X			
Va.			X				
N.Va.	301		X				
EAST SOUTH CENTRAL*	1,166						
Ala.	473		X				
Ky.	693		X				
Miss.							
Tenn.							
WEST SOUTH CENTRAL*	7,642						
Ark.	113	X	X	X	X	X	
La.	2,201		X	X			
Okla.			X	X			
Tex.	5,328		X	X			
MOUNTAIN*	632						
Ariz.	243		X				
Colo.			X	X			
Ida.			X	X			
Mont.			X	X			
Nev.			X				
N.M.	335		X				
Utah	54		X				
Wyo.			X				
PACIFIC*	3,624						
Alaska	135		X	X			
Cal.	1,205	X	X	X			
Hawaii	34		X	X			
Ore.	2,250		X	X			
Wash.			X	X			
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*	931,902									
Average*	22,729									
NEW ENGLAND*	73,245									
Conn.	18,113	X	X							X
Mass.	6,638	X	X					X		X
Me.	7,243	X	X					X		X
N.H.	1,292		X					X		
R.I.	29,324		X							
Vt.	10,635	X	X							
MIDDLE ATLANTIC*	33,801									
N.J.	32,629	X	X						X	
N.Y.										
Pa.	1,172	X	X					X		
EAST NORTH CENTRAL*	116,016									
Ill.										X
Ind.	7,538									
Mich.										
Ohio	25,366	X	X					X		
Misc.	83,112	X	X	X				X		
WEST NORTH CENTRAL*	79,962									
Ia.	33,760	X	X					X		
Kans.	7,382	X	X							
Minn.	11,828	X	X					X		X
Mo.	5,502	X	X	X				X		X
Nebr.										
N.D.	13,408	X	X		X			X		X
S.D.	8,082	X								
SOUTH ATLANTIC*	304,124									
Del.	1,043	X	X							
D.C.										
Fla.	61,316	X	X							
Ga.	49,968	X	X					X		
Ms.	117,353	X	X		X			X		X
N.C.	46,468	X	X	X	X			X		
S.C.	18,539	X	X		X			X		
Va.										
W.Va.	9,437	X						X		
EAST SOUTH CENTRAL*	73,120									
Ala.	15,646	X	X							
Ky.	18,115	X	X							
Miss.	8,543									
Tenn.	30,816	X	X							
WEST SOUTH CENTRAL*	148,848									
Ark.	1,252	X	X					X		X
La.	49,744	X	X							X
Okl.	12,136	X	X							
Tex.	85,716	X	X					X		X
MOUNTAIN*	26,827									
Ariz.	10,442	X	X							X
Colo.										
Ida.	4,650	X	X		X					X
Mont.										
Nev.										
N.M.	247									
Utah	1,082	X	X	X				X		
Wyo.	10,406	X								
PACIFIC*	75,959									
Alaska	58,533	X	X	X	X	X	X			
Cal.										
Hawaii	3,610	X	X	X	X	X				X
Ore.	4,258	X	X	X	X	X	X			
Wash.	9,558	X	X							
TERRITORIES*	0									
Guam										
P.R.										
V.I.										

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

Lab & Region	Number of Specimens	Procedures Used				
		Reverse Passive Hemagglutination	DX-Cell Hemolysin	Slide Agglutination	Heterophile Tests	Other
TOTAL*	931,902					
Average*	22,729					
NEW ENGLAND*	73,245					
Conn.	18,113	X	X			EIA ACIF plaque reduction
Mass.	8,638		X			
Me.	7,243	X	X			
N.H.	1,292					EIA ELISA
R.I.	29,324					
Vt.	10,635		X			
MIDDLE ATLANTIC*	33,801					
N.J.	32,629				X	EIA
N.Y.						
Pa.	1,172					Virus-specific IgM
EAST NORTH CENTRAL*	116,016					
Ill.						
Ind.	7,538		X			
Mich.						
Ohio	25,366		X	X	X	
Wisc.	83,112		X			EIA, HA
WEST NORTH CENTRAL*	79,962					
Ia.	33,760					EIA, EBV
Kans.	7,382					ELISA
Minn.	11,828	X	X			Rubazyme, Rubazyme "N"
Mo.	5,502					
Nebr.						
N.D.	13,408		X	X	X	IFA
S.D.	8,082					
SOUTH ATLANTIC*	304,124					
Del.	1,043					
D.C.						
Fla.	61,316					
Ga.	49,968			X		EIA
Hd.	117,353	X	X	X	X	
N.C.	46,468		X			
S.C.	18,539		X	X	X	Enzyme immunoassay
Va.						
W.Va.	9,437					ELISA
EAST SOUTH CENTRAL*	73,120					
Ala.	15,646					ELISA - Rubella
Ky.	18,115			X		
Miss.	8,543			X		ELISA
Tenn.	30,816					EIA
WEST SOUTH CENTRAL*	148,848					
Ark.	1,252			X	X	
La.	49,744					Enzyme immunoassay
Okl.	12,136					indirect FA, Enzyme immunoassay
Tex.	85,716	X		X		IFA, Latex
MOUNTAIN*	26,827					
Ariz.	10,442					Enzyme immunoassay
Colo.						
Ida.	4,650					
Mont.						
Nev.						
N.M.	247					
Utah	1,082				X	
Wyo.	10,406			X		Rubazyme (EIA)
PACIFIC*	75,959					
Alaska	58,533			X		EIA
Cal.						
Hawaii	3,610			X		ELISA
Ore.	4,258			X	X	EIA
Wash.	9,558					ELISA
TERRITORIES*	0					
Guam					X	ASO Titer
P.R.						
V.I.						

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

Lab & Region	Number of Specimens	Disease Entity -- Procedures Used
TOTAL*	64,203	
Average*	3,567	
NEW ENGLAND*	607	
Conn.	68	Specimens referred elsewhere
Mass.	420	Lyme disease - IFA
Me.		
N.H.		
R.I.		
Vt.	119	Legionellosis - IFA
MIDDLE ATLANTIC*	0	
N.J.		
N.Y.		
Pa.		
EAST NORTH CENTRAL*	3,968	
Ill.		
Ind.		
Mich.		
Ohio	848	Legionnaires' - IFA
Wisc.	3,120	Autoimmune RA - Nephelometry; ANA - FA; Antithyroid - HA
WEST NORTH CENTRAL*	9,296	
Ia.	33	Total complement - CF
Kans.	1,143	Hepatitis B - ELISA HBsAg
Minn.		
Mo.	7,920	Hepatitis - EIA
Nebr.		
N.D.	200	Miscellaneous
S.D.		
SOUTH ATLANTIC*	7,116	
Del.	3,884	Rubella - Rubascan (latex agglutination)
D.C.		
Fla.		
Ga.		
Md.	539	Complement, Autoimmune Disease
N.C.		
S.C.	67	Prolactin
Va.		
W.Va.	2,626	Hepatitis A, B - EIA
EAST SOUTH CENTRAL*	673	
Ala.		
Ky.		
Miss.		
Tenn.	673	Legionnaires' - IFA
WEST SOUTH CENTRAL*	10,235	
Ark.		
La.		
Okla.		
Tex.	10,235	Rubella IgG - Latex; Rubella IgM - Sucrose Gradient
MOUNTAIN*	659	
Ariz.		
Colo.		
Ida.	588	Lead Poisoning - Zinc Protoporphyrin
Mont.		
Nev.		
N.M.	71	
Utah		
Wyo.		
PACIFIC*	0	
Alaska		
Cal.		
Hawaii		
Ore.		
Wash.		
TERRITORIES*	31,649	
Guam		
P.R.	31,649	CRP, RA
V.I.		

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

Lab & Region	Total Hematology Specimens	A	B	C
		Hematology Specimens	Immuno-hematology Specimens	Hemoglobinopathy Specimens
TOTAL*	917,067	272,249	187,520	457,298
Average*	35,272	18,150	9,869	21,776
NEW ENGLAND*	4,196	1,001	0	3,195
Conn.	3,391	1,001		2,390
Mass.	0			
Me.	0			
N.H.	0			
R.I.	805			805
Vt.	0			
MIDDLE ATLANTIC*	615	583	16	16
N.J.	0			
N.Y.	0			
Pa.	615	583	16	16
EAST NORTH CENTRAL*	42,233	0	41,512	721
Ill.	0			
Ind.	0			
Mich.	0			
Ohio	721			721
Misc.	41,512		41,512	
WEST NORTH CENTRAL*	18,278	0	3,845	14,433
Ia.	0			
Kans.	0			
Mian.	0			
Mo.	14,433			14,433
Nebr.	0			
N.D.	3,845		3,845	
S.D.	0			
SOUTH ATLANTIC*	417,449	165,364	57,534	194,551
Del.	2,760	136		2,624
D.C.	0			
Fla.	133,316	64,350	18,775	50,191
Ga.	76,612	546	13,730	62,336
Md.	79,714	47,084	9,231	23,399
N.C.	53,863	3,473	9,489	40,902
S.C.	71,065	49,775	6,310	14,980
Va.	0			
W.Va.	119			119
EAST SOUTH CENTRAL*	137,063	14,759	33,763	88,541
Ala.	58,752		12,468	46,284
Ky.	6,916		6,916	
Miss.	71,395	14,759	14,379	42,257
Tenn.	0			
WEST SOUTH CENTRAL*	237,166	46,057	42,007	149,102
Ark.	23,950	1,667	12,915	9,368
La.	91,837		5,149	86,688
Okl.	10,539	2,197	4,891	3,451
Tex.	110,840	42,193	19,052	49,595
MOUNTAIN*	9,462	4,853	4,233	374
Ariz.	0			
Colo.	0			
Ida.	7,114	4,853	2,261	
Mont.	0			
Nev.	0			
N.H.	2,348		1,974	374
Utah	0			
Wyo.	0			
PACIFIC*	2,331	0	0	2,331
Alaska	0			
Cal.	0			
Hawaii	0			
Ore.	0			
Wash.	2,331			2,331
TERRITORIES*	48,274	39,632	4,608	4,034
Guam	7,928	7,355	573	
P.R.	40,346	32,277	4,035	4,034
V.I.	0			

TABLE 4-2B
VI. HEMATOLOGY
A. Hematology Specimens

Lab & Region	Number of Specimens	Hematocrit	Hemoglobin	Cell Count	Sed. Rate	Reticulocyte Count	Differential	Prothrombin Time	Platelet Count	Other
TOTAL*	272,249									
Average*	18,150									
NEW ENGLAND*	1,001									
Conn.	1,001	X	X	X	X	X	X		X	
Mass.										
N.H.										
R.I.										
Vt.										
MIDDLE ATLANTIC*	583									
N.J.										
N.Y.										
Pa.	583	X	X	X			X	X		APTT
EAST NORTH CENTRAL*	0									
Ill.										
Ind.										
Mich.										
Ohio										
Misc.										
WEST NORTH CENTRAL*	0									
Ia.										
Kans.										
Minn.										
Mo.										
Nebr.										
N.D.										
S.D.										
SOUTH ATLANTIC*	165,364									
Del.	136	X	X	X			X			
D.C.										
Fla.	64,350	X	X	X	X				X	Indices, A1C, UNS
Ga.	546	X	X	X			X		X	L-E Prep.
Md.	47,084	X	X	X	X	X	X	X	X	Hemoglobin A1C
N.C.	3,473	X	X	X			X			
S.C.	49,775	X	X	X	X	X	X	X	X	
Va.										
W.Va.										
EAST SOUTH CENTRAL*	14,759									
Ala.										
Ky.										
Miss.	14,759	X	X	X						MCV, MCH, MCHC
Tenn.										
WEST SOUTH CENTRAL*	46,057									
Ark.	1,667	X		X			X			
La.										
Okla.	2,197	X	X	X			X		X	
Tex.	42,193		X							
MOUNTAIN*	4,853									
Ariz.										
Colo.										
Ida.	4,853	X			X					
Mont.										
Nev.										
N.M.										
Utah										
Wyo.										
PACIFIC*	0									
Alaska										
Cal.										
Hawaii										
Ore.										
Wash.		X	X							
TERRITORIES*	39,632									
Guam	7,355	X	X	X	X	X	X	X	X	
P.R.	32,277	X	X	X	X	X	X	X	X	L-E Preparation, ANA
V.I.										

TABLE 4-29
VI. HEMATOLOGY
B. Immunohematology Specimens

Lab & Region	Number of Specimens	Blood Grouping	Blood Typing	Other Tests
TOTAL*	187,520			
Average*	9,869			
NEW ENGLAND*	0			
Conn.				
Mass.				
Me.				
N.H.				
R.I.				
Vt.				
MIDDLE ATLANTIC*	16			
N.J.				
N.Y.				
Pa.	16	X	X	
EAST NORTH CENTRAL*	41,512			
Ill.				
Ind.				
Mich.				
Ohio				
Misc.	41,512	X	X	
WEST NORTH CENTRAL*	3,845			
Ia.				
Kans.				
Minn.				
Mo.				
Nebr.				
N.D.	3,845			X
S.D.				
SOUTH ATLANTIC*	57,534			
Del.				
D.C.				X
Fla.	18,775	X		X
Ga.	13,730		X	X
Mo.	9,231	X	X	X
N.C.	9,488	X	X	X
S.C.	6,310			X
Va.				
W.Va.				
EAST SOUTH CENTRAL*	33,763			
Ala.	12,468		X	Du variant, serum antibody detection, titration of antibody
Ky.	6,916		X	Antibody ID
Miss.	14,379	X	X	Indirect Coombs (ID and Titration)
Tenn.				
WEST SOUTH CENTRAL*	42,007			
Ark.	12,915	X	X	Coombs, titer
La.	5,149		X	
Okla.	4,891	X	X	
Tex.	19,052	X	X	
MOUNTAIN*	4,235			
Ariz.				
Colo.				
Ida.	2,261	X	X	Rh Antibody
Mont.				
Nev.				
N.M.	1,974			
Utah				
Wyo.				
PACIFIC*	0			
Alaska				
Cal.				
Hawaii				
Ore.				
Wash.				
TERRITORIES*	4,608			
Guam	573	X	X	Indirect Coombs, Direct Coombs, X matching
P.R.	4,035	X	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*	457,298							
Average*	21,776							
NEW ENGLAND*	3,195							
Conn.	2,390	X	X	X	X	X	X	
Mass.								
Me.								
N.H.								
R.I.	805	X	X	X				
Vt.								
MIDDLE ATLANTIC*	16							
N.J.								
N.Y.								
Pa.	16	X	X	X			X	
EAST NORTH CENTRAL*	721							
Ill.								
Ind.								
Mich.								
Ohio	721	X	X	X				
Wisc.								
WEST NORTH CENTRAL*	14,433							
Ia.								
Kans.								
Minn.								
Mo.	14,433	X	X	X				
Nebr.								
N.D.								
S.D.								
SOUTH ATLANTIC*	194,551							
Del.	2,824	X		X			X	
D.C.								
Fla.	50,191	X	X	X	X	X		
Ga.	62,336	X		X				
Md.	23,399	X	X	X	X	X	X	
N.C.	40,902	X	X	X		X		
S.C.	14,980	X	X	X				
Va.								
N.Va.	119	X	X	X				
EAST SOUTH CENTRAL*	88,541							
Ala.	46,284	X	X			X		Alkaline and acid globin chain electro.
Ky.								
Miss.	42,257	X	X					
Tenn.								
WEST SOUTH CENTRAL*	149,102							
Ark.	9,368	X		X				
La.	86,688	X	X				X	
Okl.	3,451	X	X	X				
Tex.	49,595	X	X	X	X		X	
MOUNTAIN*	374							
Ariz.								
Colo.								
Ida.								
Mont.								
Nev.								
N.M.	374							
Utah								
Wyo.								
PACIFIC*	2,331							
Alaska								
Cal.								
Hawaii								
Ore.								
Wash.	2,331	X	X	X	X	X		
TERRITORIES*	4,034							
Guam								
P.R.	4,034	X		X				Sickle cell test
V.I.								

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

Lab & Region	Total Clinical Chemistry Specimens	A	B	C	D	E
		Clinical Chemistry Specimens	Urinalysis Specimens	Inborn Errors of Metabolism	Multi-phasic Screening	Other Clinical Chemistry
TOTAL*	7,595,913	405,400	67,823	6,954,391	165,552	747
Average*	199,892	20,270	4,845	210,800	27,592	374
NEW ENGLAND*	551,248	190	59	550,939	60	0
Conn.	83,412	190	59	83,103	60	
Mass.	427,440			427,440		
Rh.	18,229			18,229		
N.H.	24,167			24,167		
R.I.	0					
Vt.	0					
MIDDLE ATLANTIC*	269,535	1,920	56	267,559	0	0
N.J.	101,970			101,970		
N.Y.	0					
Pa.	167,563	1,920	56	165,589		
EAST NORTH CENTRAL*	1,154,435	18,405	0	1,136,030	0	0
Ill.	593,571			593,571		
Ind.	0					
Mich.	0					
Ohio	167,187	173		167,014		
Wisc.	393,677	18,232		373,445		
WEST NORTH CENTRAL*	700,727	460	0	700,267	0	0
Ia.	147,104			147,104		
Kann.	79,598			79,598		
Minn.	243,032			243,032		
Mo.	191,616			191,616		
Nebr.	0					
N.D.	39,377	460		38,917		
S.D.	0					
SOUTH ATLANTIC*	1,896,050	228,537	40,760	1,481,486	145,267	0
Del.	503		503			
D.C.	0					
Fla.	416,247	76,646		227,591	112,010	
Ga.	771,304	16,482	592	754,230		
Md.	263,324	113,078	17,631	132,615		
M.C.	205,255	13,336	37	158,625	33,257	
S.C.	148,086	8,995	21,997	117,094		
Va.	0					
W.Va.	91,331			91,331		
EAST SOUTH CENTRAL*	517,134	52,170	0	447,583	17,381	0
Ala.	197,199			197,199		
Ky.	151,972	9,290		142,682		
Miss.	60,261	42,880			17,381	
Tenn.	107,702			107,702		
WEST SOUTH CENTRAL*	1,148,597	68,343	2,767	1,074,017	2,844	626
Ark.	77,141	4,394	7	72,740		
La.	181,851	44	186	180,262	733	626
Okla.	106,296	1,505	2,574	102,217		
Tex.	783,309	62,400		718,798	2,111	
MOUNTAIN*	158,388	186	6,374	151,707	0	121
Ariz.	0					
Colo.	0					
Ida.	32,184		6,374	25,810		
Mont.	0					
Nev.	0					
N.M.	48,881	186		48,695		
Utah	77,323			77,202		121
Wyo.	0					
PACIFIC*	1,153,585	259	6,523	1,146,803	0	0
Alaska	0					
Cal.	1,855	259		1,596		
Hawaii	6,523		6,523			
Ore.	1,025,207			1,025,207		
Wash.	120,000			120,000		
TERRITORIES*	46,214	34,930	11,284	0	0	0
Guam	6,164	2,890	3,274			
P.R.	40,050	32,040	8,010			
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	Triglycerides	Lactic Acid	Bilirubin	T4, T3, T3 Uptake
TOTAL*	405,400													
Average*	20,270													
NEW ENGLAND*	190													
Conn.	190	X	X	X	X	X	X	X	X	X	X		X	
Mass.														
Me.														
N.H.														
R.I.														
Vt.														
MIDDLE ATLANTIC*	1,920													
N.J.														
N.Y.														
Pa.	1,920	X	X	X	X			X	X		X		X	
EAST NORTH CENTRAL*	18,405													
Ill.														
Ind.														
Mich.														
Ohio	173	X												
Wis.	18,232	X	X	X	X	X	X	X	X	X	X		X	X
WEST NORTH CENTRAL*	460													
Ia.														
Kans.														
Minn.														
Mo.														
Nebr.														
N.D.	460		X								X			
S.D.														
SOUTH ATLANTIC*	228,537													
Del.														
D.C.														
Fla.	76,646	X	X	X	X	X	X	X	X	X	X		X	
Ga.	16,482	X	X	X	X	X	X	X	X	X	X		X	
Mo.	113,078	X	X	X	X	X	X	X	X	X	X		X	X
N.C.	13,336													
S.C.	8,995	X	X	X	X	X	X	X	X	X	X		X	
Va.														
W.Va.														
EAST SOUTH CENTRAL*	52,170													
Ala.														
Ky.	9,290	X	X	X	X			X			X		X	
Miss.	42,880	X												
Tenn.														
WEST SOUTH CENTRAL*	68,343													
Ark.	4,394	X	X	X	X	X	X	X	X	X	X		X	
La.	44	X		X	X	X	X	X					X	
Okl.	1,505	X												
Tex.	62,400	X												
MOUNTAIN*	186													
Ariz.														
Colo.														
Ida.														
Mont.														
Nev.														
N.M.	186													
Utah														
Wyo.														
PACIFIC*	259													
Alaska														
Cal.	259	X												
Hawaii														
Ore.														
Wash.														
TERRITORIES*	34,930													
Guam	2,890	X	X	X	X	X	X	X	X	X	X	X	X	X
P.R.	32,040	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	Types of Tests									
		Sodium	Potassium	Phosphorous	Calcium	Creatinine	Acid Phosphatase	Albumin	Chloride	LDH	Other
TOTAL*	405,400										
Average*	20,270										
NEW ENGLAND*	190										
Conn.	190	X	X	X	X	X		X	X	X	HDL, amylase, GT
Mass.											
Me.											
N.H.											
R.I.											
Vt.											
MIDDLE ATLANTIC*	1,920										
N.J.											
N.Y.											
Pa.	1,920	X	X	X	X	X		X	X		Magnesium, AFP
EAST NORTH CENTRAL*	18,405										
Ill.											
Ind.											
Mich.											
Ohio	173										
Wis.	18,232	X	X	X	X	X		X	X	X	Bama-GT, Lithium, Amylase, TSH, HDL-Cholesterol, T3-RIA, Vitamin B-12, Folate, Cortisol, Ferritin, Digoxin, Magnesium, Calcium, VMA, 17-KS, 17-OH, 5-HIAA
WEST NORTH CENTRAL*	460										
Ia.											
Kans.											
Min.											
Mo.											
Nebr.											
W.D.	460										
S.D.											
SOUTH ATLANTIC*	228,537										
Del.											
D.C.											
Fla.	76,646	X	X				X	X	X		Sulfa assay, SGPT, UMS, cycloserial
Ga.	16,482	X	X				X			X	Hemoglobin A1C, lithium, aspartate a alanine amino transferase
Md.	113,078	X	X	X	X	X	X	X	X		
M.C.	13,336										
S.C.	8,995	X	X	X	X	X	X	X	X		Lithium
Va.											
W.Va.											
EAST SOUTH CENTRAL*	52,170										
Ala.											
Ky.	9,290	X	X	X	X	X	X	X	X	X	SGOT, Lithium, SGTP, SGPT, Amyl, CPK, HD
Miss.	42,880										
Tenn.											
WEST SOUTH CENTRAL*	68,343										
Ark.	4,394				X	X	X	X	X		
La.	44					X					
Okla.	1,505										
Tex.	62,400										
MOUNTAIN*	186										
Ariz.											
Colo.											
Ida.											
Mont.											
Nev.											
N.M.	186										Cholinesterase, Lithium in Blood
Utah											
Wyo.											
PACIFIC*	259										
Alaska											
Cal.	259										
Hawaii											
Ore.											
Wash.											
TERRITORIES*	34,930										
Guam	2,890	X	X		X	X		X	X	X	
P.R.	32,040	X	X	X	X	X	X	X	X	X	Lithium, anticonvulsant level
V.I.											

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

Lab & Region	Number of Specimens	Procedures Used			
		Routine	Microscopic	Pregnancy Test	Other
TOTAL*	67,823				
Average*	4,845				
NEW ENGLAND*	59				
Conn.	59	X	X		
Mass.					
Me.					
N.H.					
R.I.					
Vt.					
MIDDLE ATLANTIC*	56				
N.J.					
N.Y.					
Pa.	56	X	X		
EAST NORTH CENTRAL*	0				
Ill.					
Ind.					
Mich.					
Ohio					
Wisc.					
WEST NORTH CENTRAL*	0				
Ia.					
Kans.					
Minn.					
Mo.					
Nebr.					
N.D.					
S.D.					
SOUTH ATLANTIC*	40,760				
Del.	503	X	X		
D.C.					
Fla.					
Ga.	592	X	X		
Md.	17,631	X	X	X	
N.C.	37	X	X		
S.C.	21,997	X	X	X	Sperm counts
Va.					
W.Va.					
EAST SOUTH CENTRAL*	0				
Ala.					
Ky.					
Miss.					
Tenn.					
WEST SOUTH CENTRAL*	2,767				
Ark.	7	X	X		
La.	186	X	X		
Okla.	2,574	X	X	X	
Tex.					
MOUNTAIN*	6,374				
Ariz.					
Colo.					
Ida.	6,374	X		X	
Mont.					
Nev.					
N.M.					
Utah					
Wyo.					
PACIFIC*	6,523				
Alaska					
Cal.					
Hawaii	6,523				IMH Drug Monitoring
Ore.					
Wash.					
TERRITORIES*	11,284				
Guam	3,274	X	X	X	
P.R.	8,010	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	Tyrosi- nemia	Galac- tosemia	MSUD	Hypo- thyroidism	Amino Acid Chroma- tography	Homo- cystinuria	Maternal PKU	
TOTAL*	6,956,391									
Average*	210,800									
NEW ENGLAND*	550,939									
Conn.	83,103	X		X		X	X			
Mass.	427,440	X		X		X	X	X		
Me.	16,229	X	X	X	X			X		
N.H.	24,167	X	X				X			
R.I.										
Vt.										
MIDDLE ATLANTIC*	267,559									
N.J.	101,970	X		X		X	X			X
N.Y.										
Pa.	165,589	X				X				X
EAST NORTH CENTRAL*	1,136,030									
Ill.	593,371	X		X		X				
Ind.										
Mich.										
Ohio	167,014	X		X		X		X		
Wisc.	375,445	X		X	X	X		X		
WEST NORTH CENTRAL*	700,267									
Ia.	147,104	X		X	X	X				
Kans.	79,598	X				X				
Minn.	243,032	X		X		X				
Mo.	191,616	X		X		X				X
Nebr.										
N.D.	38,917	X				X				
S.D.										
SOUTH ATLANTIC*	1,481,486									
Del.										
D.C.										
Fla.	227,591	X		X	X	X				
Ga.	754,230	X	X	X	X	X		X		
Md.	132,615	X	X	X	X	X		X		X
N.C.	158,625	X				X				
S.C.	117,094	X				X				
Va.										
W.Va.	91,331	X		X		X				
EAST SOUTH CENTRAL*	447,583									
Ala.	197,199	X				X	X			X
Ky.	142,682	X		X		X				
Miss.										
Tenn.	107,702	X				X				
WEST SOUTH CENTRAL*	1,074,017									
Ark.	72,740	X				X				
La.	180,262	X				X				
Okla.	102,217	X				X				
Tex.	718,798									
MOUNTAIN*	151,707									
Ariz.										
Colo.										
Ida.	25,810	X	X	X	X	X		X		
Mont.										
Nev.										
N.M.	48,695									
Utah	77,202	X		X		X				
Wyo.										
PACIFIC*	1,146,803									
Alaska										
Cal.	1,596	X		X		X				X
Hawaii										
Ore.	1,025,207	X	X	X	X	X	X	X		
Wash.	120,000	X				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*	6,956,391							
Average*	210,800							
NEW ENGLAND*	550,939							
Conn.	83,103							
Mass.	427,440		X					
Me.	16,229							
N.H.	24,167							
R.I.								
Vt.								
MIDDLE ATLANTIC*	267,559							
N.J.	101,970							
N.Y.								
Pa.	165,589						Plasma phenylalanine & tyrosine, T4, TSH	
EAST NORTH CENTRAL*	1,136,030							
Ill.	593,571							
Ind.								
Mich.								
Ohio	167,014							
Wisc.	375,445							
WEST NORTH CENTRAL*	700,267							
Ia.	147,104							
Kans.	79,598							
Minn.	243,032							
Mo.	191,616							
Nebr.								
M.D.	38,917							
S.D.								
SOUTH ATLANTIC*	1,481,486							
Del.								
D.C.								
Fla.	227,591							
Ga.	754,230							
Md.	132,615						Fluorometric assays	
N.C.	158,625							
S.C.	117,094							
Va.								
W.Va.	91,331						Total galactose	
EAST SOUTH CENTRAL*	447,583							
Ala.	197,199	X						
Ky.	142,662							
Miss.								
Tenn.	107,702							
WEST SOUTH CENTRAL*	1,074,017							
Ark.	72,740							
La.	180,262							
Okla.	102,217							
Tex.	718,798							
MOUNTAIN*	151,707							
Ariz.								
Colo.								
Ida.	25,810						Alpha Fetoprotein	
Mont.								
Nev.								
N.M.	48,695							
Utah	77,202						PKU Diet Monitoring	
Wyo.								
PACIFIC*	1,146,803							
Alaska								
Cal.	1,596							
Hawaii								
Ore.	1,025,207							
Wash.	120,000							
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*	165,552				
Average*	27,592				
NEW ENGLAND*	60				
Conn.	60	I	X	I	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*	145,267				
Del.					
D.C.					
Fla.	112,010				
Ga.					
Mo.					
N.C.	33,257			I	X
S.C.					
Va.					
W.Va.					
EAST SOUTH CENTRAL*	17,381				
Ala.					
Ky.					
Miss.	17,381				
Tenn.					
WEST SOUTH CENTRAL*	2,844				
Ark.					
La.	733	I			
Okl.					
Tex.	2,111				
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*	747	
Average*	374	
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*	0	
Del.		
D.C.		
Fla.		
Ga.		
Md.		
N.C.		
S.C.		
Va.		
W.Va.		
EAST SOUTH CENTRAL*	0	
Ala.		
Ky.		
Miss.		Electrolytes - flame photometer and chloride meter (backup only)
Tenn.		
WEST SOUTH CENTRAL*	626	
Ark.	626	EIA - Hepatitis
La.		
Okl.		
Tex.		
MOUNTAIN*	121	
Ariz.		
Colo.		
Ida.		
Mont.		
Nev.		
N.M.		
Utah	121	Erythrocyte Porphyrin, Whole Blood - Modif. Pincelli (Extr.)
Wyo.		
PACIFIC*	0	
Alaska		
Cal.		Cholinesterase - Enzyme assay (method validation & PT of regulated labs)
Hawaii		
Ore.		
Wash.		
TERRITORIES*	0	
Guam		
P.R.		
V.I.		

TABLE 4-37
VIII. PATHOLOGY

Lab & Region	Total Pathology Specimens	Exfoliative Cytology Specimens	Cytogenetic Specimens	Other Pathology Specimens	
				Number of Specimens	Types
TOTAL*	449,080	443,565	2,816	2,699	
Average*	49,898	63,366	939	900	
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*	88,569	86,453	2,116	0	
Ill.	0				
Ind.	0				
Nich.	0				
Ohio	0				
Wisc.	88,569	86,453	2,116		
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*	334,473	331,786	0	2,687	
Del.	33,943	31,319		2,624	Hemocult
D.C.	0				
Fla.	0				
Ga.	0				
Md.	59,782	59,782			
N.C.	183,934	183,934			
S.C.	0				
Va.	0				
W.Va.	56,814	56,751		63	Breast, penis, gastric and lesion, anus and urine
EAST SOUTH CENTRAL*	0	0	0	0	
Ala.	0				
Ky.	0				
Miss.	0				
Tenn.	0				
WEST SOUTH CENTRAL*	0	0	0	0	
Ark.	0				
La.	0				
Okl.	0				
Tex.	0				
MOUNTAIN*	24,144	23,601	531	12	
Ariz.	0				
Colo.	0				
Ida.	543		531	12	Buccal Smears
Mont.	0				
Nev.	0				
N.H.	23,601	23,601			
Utah	0				
Wyo.	0				
PACIFIC*	0	0	0	0	
Alaska	0				
Cal.	0				
Hawaii	0				
Ore.	0				
Wash.	0				
TERRITORIES*	1,725	1,725	0	0	
Guam	1,725	1,725			
P.R.	0				
V.I.	0				

TABLE 4-3B
IX. ENVIRONMENTAL MICROBIOLOGY
SUMMARY OF SPECIMENS BY CATEGORY AND SUB-CATEGORY

Lab & Region	Total Environmental Microbiology	A	B	C	D
		Water Samples	Dairy Products Samples	Food and Beverage Samples	Other Micro Samples
TOTAL*	1,997,670	1,695,780	257,463	31,383	13,044
Average*	43,402	41,360	8,046	923	1,087
NEW ENGLAND*	92,699	71,818	11,205	9,567	109
Conn.	15,606	10,714	4,337	501	54
Mass.	4,380	50	2,118	2,212	
Me.	16,781	16,781			
N.H.	2,435	24	2,100	311	
R.I.	20,768	11,520	2,650	6,543	55
Vt.	32,729	32,729			
MIDDLE ATLANTIC*	6,847	3,434	3,279	134	0
N.J.	6,782	3,426	3,279	77	
N.Y.	0				
Pa.	65	8		57	
EAST NORTH CENTRAL*	216,783	199,254	14,611	2,161	757
Ill.	39,031	28,567	8,949	758	757
Ind.	71,446	64,926	5,317	1,203	
Mich.	0				
Ohio	40,113	39,568	345	200	
Wisc.	66,193	66,193			
WEST NORTH CENTRAL*	233,970	216,878	10,706	5,074	1,312
Ia.	44,331	44,048	232	51	
Kans.	45,984	45,984			
Minn.	0				
Mo.	101,828	95,355	1,480	4,993	
Nebr.	0				
N.D.	18,028	11,392	5,294	30	1,312
S.D.	23,799	20,099	3,700		
SOUTH ATLANTIC*	437,111	401,274	29,220	4,768	1,849
Del.	12,614	11,176	1,231	207	
D.C.	0				
Fla.	234,980	230,843	2,560	1,577	
Ga.	56		56		
Md.	91,466	79,953	7,631	2,033	1,849
N.C.	53,535	53,262		273	
S.C.	11,805		11,149	656	
Va.	0				
W.Va.	32,655	26,040	6,593	22	
EAST SOUTH CENTRAL*	253,364	183,809	68,674	881	0
Ala.	96,845	76,139	20,326	380	
Ky.	15,731	4,867	10,477	387	
Miss.	77,410	58,213	19,083	114	
Tenn.	63,378	44,590	18,788	1,318	
WEST SOUTH CENTRAL*	613,106	501,340	105,775	5,791	200
Ark.	83,649	55,707	26,970	972	
La.	133,647	89,466	42,172	1,809	200
Oklia.	53,383	34,586	18,797		
Tex.	342,427	321,581	17,836	3,010	
MOUNTAIN*	89,557	68,293	11,003	2,021	8,240
Ariz.	16,336	10,228	5,691	617	
Colo.	0				
Ida.	25,115	22,701	2,029	211	174
Mont.	0				
Nev.	0				
N.M.	24,762	12,799	3,283	962	7,718
Utah	11,831	11,287		196	348
Wyo.	11,313	11,278		35	
PACIFIC*	25,927	21,484	2,982	940	521
Alaska	473	427		46	
Cal.	3,685	2,547	130	698	310
Hawaii	9,950	6,940	2,852	158	
Ore.	6,539	6,290		38	211
Wash.	5,280	5,280			
TERRITORIES*	28,306	28,196	8	46	56
Guam	110		8	46	56
P.R.	28,196	28,196			
V.I.	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*	1,695,780												
Average*	41,360												
NEW ENGLAND*	71,818												
Conn.	10,714	X	X	X	X	X	X	X	X	X	X	X	X
Mass.	50	X											
Me.	16,781	X	X	X	X	X	X	X	X	X	X	X	X
N.H.	24		X										
R.I.	11,520	X									X	X	
Vt.	32,729	X			X			X					
MIDDLE ATLANTIC*	3,434												
N.J.	3,426	X				X		X				X	
N.Y.													
Pa.	8	X			X			X					
EAST NORTH CENTRAL*	199,254												
Ill.	28,567	X	X		X	X		X	X		X	X	
Ind.	64,926		X		X				X			X	
Mich.										X			
Ohio	39,568	X	X		X	X	X			X			X
Wisc.	66,193	X	X		X				X		X		
WEST NORTH CENTRAL*	216,878												
Ia.	44,048	X	X		X	X		X	X		X		
Kans.	45,984	X			X			X					
Minn.													
Mo.	95,355	X			X		X						
Nebr.													
N.D.	11,392	X	X		X	X		X	X		X	X	
S.D.	20,099	X	X		X	X		X	X				
SOUTH ATLANTIC*	401,274												
Del.	11,176	X	X			X		X	X				
D.C.													
Fla.	230,843	X	X		X	X		X	X		X	X	
Ga.													
Md.	79,953	X	X		X	X		X	X		X	X	
N.C.	53,262	X	X	X	X	X	X	X	X			X	
S.C.													
Va.													
W.Va.	26,040	X	X		X	X		X	X		X	X	
EAST SOUTH CENTRAL*	183,809												
Ala.	76,139	X	X			X							
Ky.	4,867	X	X	X									
Miss.	58,213	X	X			X							
Tenn.	44,590	X			X			X					
WEST SOUTH CENTRAL*	501,340												
Ark.	55,707	X						X					
La.	89,466												
Okla.	34,586	X	X		X						X		
Tex.	321,581	X			X	X						X	
MOUNTAIN*	68,293												
Ariz.	10,228	X	X		X	X			X	X	X	X	
Colo.													
Ida.	22,701	X			X		X	X		X	X	X	X
Mont.													
Nev.													
N.M.	12,799	X	X	X	X	X	X	X	X		X	X	
Utah	11,287	X	X		X	X		X		X	X	X	
Wyo.	11,278		X			X			X				
PACIFIC*	21,484												
Alaska	427		X			X						X	
Cal.	2,547	X	X	X		X	X	X	X	X	X	X	X
Hawaii	6,940	X	X	X	X	X	X				X	X	X
Ore.	6,290												
Wash.	5,280	X	X			X			X				
TERRITORIES*	28,196												
Guam													
P.R.	28,196	X	X	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*	257,463							
Average*	8,046							
NEW ENGLAND*	11,205							
Conn.	4,337	X	X	X	X	X		Plant equipment, empty containers
Mass.	2,118	X	X	X	X	X		
Me.								
N.H.	2,100	X	X		X	X		
R.I.	2,650	X	X	X	X	X		
Vt.								
MIDDLE ATLANTIC*	3,279							
N.J.	3,279	X	X	X	X	X		ONSCC, Inhibitors
N.Y.								
Pa.								
EAST NORTH CENTRAL*	14,611							
Ill.	8,949	X	X	X	X	X		
Ind.	5,317	X	X	X	X	X		
Mich.								
Ohio	345	X	X	X	X			
Wisc.								
WEST NORTH CENTRAL*	10,706							
Ia.	232	X			X			
Kans.								
Minn.								
Mo.	1,480	X	X	X	X			
Nebr.								
N.D.	5,294	X	X	X	X	X		
S.D.	3,700	X	X	X	X	X		
SOUTH ATLANTIC*	29,220							
Del.	1,231	X	X					Egg Nog
D.C.								
Fla.	2,560	X	X			X		
Ga.	56							
Md.	7,631	X	X	X	X	X		
N.C.								
S.C.	11,149	X	X		X	X		
Va.								
W.Va.	6,593	X			X			
EAST SOUTH CENTRAL*	68,674							
Ala.	20,326	X	X	X	X	X		Cartons
Ky.	10,477	X	X	X	X	X		
Miss.	19,083	X			X			
Tenn.	18,788	X	X		X	X		
WEST SOUTH CENTRAL*	105,775							
Ark.	26,970	X	X	X	X	X		Raw milks, milk containers
La.	42,172	X	X	X	X	X		
Okla.	18,797							
Tex.	17,836	X	X		X	X		
MOUNTAIN*	11,003							
Ariz.	5,691	X	X	X	X	X		
Colo.								
Ida.	2,029							
Mont.								
Wev.								
N.H.	3,283	X		X	X	X		Milk product containers
Utah								
Wyo.								
PACIFIC*	2,982							
Alaska								
Cal.	130	X						Sweet water, flush water
Hawaii	2,852	X	X		X	X		
Ore.								
Wash.								
TERRITORIES*	0							
Guam	0	X						Containers
P.R.		X	X	X	X	X		
V.I.								

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

Lab & Region	Number of Samples	Types of Samples			
		Food Quality	Food-Associated Disease Outbreaks	Seafood	Environmental
TOTAL*	31383				
Average*	923.03				
NEW ENGLAND*	9567				
Conn.	501	X	X	X	X
Mass.	2212	X	X	X	X
Me.					
N.H.	311	X	X	X	X
R.I.	6543	X	X	X	X
Vt.					
MIDDLE ATLANTIC*	134				
N.J.	77	X	X	X	
N.Y.					
Pa.	57		X		X
EAST NORTH CENTRAL*	2161				
Ill.	758	X	X		X
Ind.	1203	X	X		
Mich.					
Ohio	200		X		
Misc.					
WEST NORTH CENTRAL*	5074				
Ia.	51		X		
Kans.					
Minn.					
Mo.	4993	X	X		X
Nebr.					
N.D.	30		X		
S.D.					
SOUTH ATLANTIC*	4768				
Del.	207	X	X	X	
D.C.					
Fla.	1577	X	X	X	X
Ga.					
Md.	2033	X	X	X	X
N.C.	273		X	X	
S.C.	656				
Va.					
W.Va.	22		X		
EAST SOUTH CENTRAL*	881				
Ala.	380		X	X	
Ky.	387	X	X	X	
Miss.	114		X	X	X
Tenn.	1,318		X		X
WEST SOUTH CENTRAL*	5791				
Ark.	972	X	X		
La.	1809	X	X	X	X
Okla.					
Tex.	3010		X	X	X
MOUNTAIN*	2021				
Ariz.	617	X	X	X	
Colo.					
Ida.	211		X		X
Mont.					
Nev.					
N.M.	962	X	X	X	X
Utah	196		X		
Wyo.	33		X		
PACIFIC*	940				
Alaska	46				
Cal.	698	X	X	X	X
Hawaii	158	X	X	X	X
Ore.	38		X	X	
Wash.					
TERRITORIES*	46				
Guam	46	X	X	X	X
P.R.		X	X		X
V.I.					

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

Lab & Region	Number of Samples	Types of Samples
TOTAL*	13,044	
Average*	1,087	
NEW ENGLAND*	109	
Conn.	54	Shellfish
Mass.		
Me.		
N.H.		
R.I.	55	PSP (red tide toxin assay)
Vt.		
MIDDLE ATLANTIC*	0	
N.J.		
N.Y.		
Pa.		
EAST NORTH CENTRAL*	757	
Ill.	757	Miscellaneous, Quality Control
Ind.		
Mich.		
Ohio		
Wisc.		
WEST NORTH CENTRAL*	1,312	
Ia.		
Kans.		
Minn.		
Mo.		
Nebr.		
N.D.	1,312	Sterility tests
S.D.		
SOUTH ATLANTIC*	1,849	
Del.		
D.C.		
Fla.		
Ga.		
Md.	1,849	Environmental, ID of meat samples
N.C.		
S.C.		
Va.		
W.Va.		
EAST SOUTH CENTRAL*	0	
Ala.		
Ky.		
Miss.		Filth samples
Tenn.		
WEST SOUTH CENTRAL*	200	
Ark.		
La.	200	Cholera screenings: oysters, water, sediment, sewage
Okla.		
Tex.		
MOUNTAIN*	8,240	
Ariz.		
Colo.		
Ida.	174	Plankton analysis; Benthon analysis; entomology; sulfur, iron, nitrifying or denitrifying bacteria
Mont.		
Nev.		
N.M.	7,718	Veterinary diagnostic microbiology (tissue, fluids, cultures, swabs) - culture, sensitivities, FA, enteric, ID, anaerobes
Utah	348	Dialysis Unit - water (plate counts)
Wyo.		
PACIFIC*	521	
Alaska		
Cal.	310	Drugs, cosmetics, food
Hawaii		
Ore.	211	Shellfish - PSP monitoring, bact. monitoring
Wash.		
TERRITORIES*	56	
Guam	56	Soil samples, turtle water
P.R.		
V.I.		

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

Lab & Region	Total Environmental Chemistry Samples	A	B	C	D	E	F
		Water Samples	Dairy Product and Food Samples	Pesticide Samples	Air Pollution Samples	Radiological Samples	Other Samples
TOTAL*	836,157	375,159	89,079	36,399	274,204	32,551	28,763
Average*	22,599	11,034	3,073	1,213	14,432	1,356	1,918
NEW ENGLAND*	124,357	50,763	9,410	2,861	51,098	4,324	5,901
Conn.	29,840	13,406	4,167	204	4,602	1,560	5,901
Mass.	3,803		2,783	755		265	
Me.	31,399	28,612		675	56	2,056	
N.H.	0						
R.I.	55,055	4,868	2,325	1,219	46,200	443	
Vt.	4,260	3,877	135	8	240		
MIDDLE ATLANTIC*	8,654	4,502	2,581	1,079	0	0	492
N.J.	8,654	4,502	2,581	1,079			492
N.Y.	0						
Pa.	0						
EAST NORTH CENTRAL*	73,114	41,071	1,754	12,254	11,831	3,705	2,499
Ill.	7,968	4,139	1,679	2,038			112
Ind.	18,908	17,435	75	1,398			
Mich.	0						
Ohio	15,952	5,393		611	6,590	971	2,387
Wis.	30,286	14,104		8,207	5,241	2,734	
WEST NORTH CENTRAL*	255,919	101,611	5,462	2,210	135,155	7,864	3,617
Ia.	173,085	37,243		1,069	129,053	5,720	
Kans.	17,640	9,667	155	577	4,284	1,340	1,617
Minn.	0						
Mo.	11,876	6,221	5,307			348	
Nebr.	0						
N.D.	7,847	6,109		164	1,418	156	
S.D.	45,471	42,371		400	400	300	2,000
SOUTH ATLANTIC*	109,334	66,848	19,427	2,007	5,290	4,288	11,474
Del.	5,882	5,548		1		333	
D.C.	0						
Fla.	8,026	7,663	363				
Ga.	0						
Md.	53,830	29,117	8,021	1,505	5,290	1,829	8,068
N.C.	28,980	24,520		334		2,126	
S.C.	14,616		11,043	167			3,406
Va.	0						
W.Va.	0						
EAST SOUTH CENTRAL*	29,819	18,721	958	1,064	7,832	1,244	0
Ala.	912	912					
Ky.	9,252	8,157	556	539			
Miss.	4,796	4,796					
Tenn.	14,859	4,858	402	525	7,832	1,244	
WEST SOUTH CENTRAL*	47,307	20,504	16,650	2,647	124	6,326	1,056
Ark.	4,979	2,079	676	785		1,170	269
La.	25,554	7,953	14,722	1,181		1,259	439
Okla.	100					100	
Tex.	16,674	10,472	1,252	681	124	3,797	348
MOUNTAIN*	50,481	28,143	1,075	4,995	11,356	1,475	3,437
Ariz.	20,959	12,593	1,070	1,155	4,429		1,712
Colo.	0						
Ida.	6,720	4,226	5	920	1,407	162	
Mont.	0						
Nev.	0						
N.M.	16,313	6,271		2,270	5,203	1,026	1,543
Utah	8,489	5,053		650	317	287	182
Wyo.	0						
PACIFIC*	83,358	16,089	4,855	7,282	51,518	3,325	289
Alaska	450	450					
Cal.	24,316	6,767	3,657	6,405	4,773	2,425	289
Hawaii	54,592	5,972	1,048	827	46,745		
Dre.	0						
Wash.	4,000	2,900	150	50		900	
TERRITORIES*	53,814	26,907	26,907	0	0	0	0
Guam	0						
P.R.	53,814	26,907	26,907				
V.I.	0						

TABLE 4-44
I. 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	Types				Number of Samples	Types	
		Potable	Non-Potable	Swimming Pools	Sewage and Waste		Milk and Cream	Foods
TOTAL*	375,159					89,079		
Average*	11,034					3,873		
NEW ENGLAND*	50,763					9,410		
Conn.	13,406	X	X	X	X	4,167	X	
Mass.						2,783	X	
Me.	28,612	X	X	X	X			
N.H.								
R.I.	4,868	X	X	X	X	2,325	X	X
Vt.	3,877	X	X			135	X	X
MIDDLE ATLANTIC*	4,502					2,581		
N.J.	4,502	X	X		X	2,581	X	X
N.Y.								
Pa.								
EAST NORTH CENTRAL*	41,071					1,754		
Ill.	4,139	X	X	X	X	1,679	X	X
Ind.	17,435	X	X	X	X	75	X	
Mich.								
Ohio	5,393	X	X		X			
Misc.	14,104	X	X		X			
WEST NORTH CENTRAL*	101,611					5,462		
Ia.	37,243	X	X		X			
Kans.	9,667	X	X	X	X	155		X
Minn.								
Mo.	6,221	X	X	X	X	5,307	X	X
Nebr.								
N.D.	6,109	X	X	X	X			
S.D.	42,371	X	X		X			
SOUTH ATLANTIC*	66,848					19,427		
Del.	5,548	X						
D.C.								
Fla.	7,663	X	X			363		X
Ga.								
Md.	29,117	X	X	X	X	8,021	X	X
N.C.	24,520	X	X	X	X		X	
S.C.						11,043		
Va.								
N.Va.								
EAST SOUTH CENTRAL*	18,721					958		
Ala.	912	X						
Ky.	8,157	X	X			556	X	X
Miss.	4,796	X	X					
Tenn.	4,856	X	X		X	402		X
WEST SOUTH CENTRAL*	20,504					16,650		
Ark.	2,079	X	X	X		676		X
La.	7,953	X	X		X	14,722	X	X
Okla.								
Tex.	10,472					1,252		
MOUNTAIN*	28,143					1,075		
Ariz.	12,593	X	X		X	1,070	X	X
Colo.								
Ida.	4,226	X	X		X	5		X
Mont.								
Nev.								
N.M.	6,271							
Utah	5,053	X	X		X			
Wyo.								
PACIFIC*	16,089					4,853		
Alaska	450	X						
Cal.	6,767	X	X	X	X	3,657		X
Hawaii	5,972	X	X		X	1,048	X	X
Ore.								
Wash.	2,900	X	X			150		X
TERRITORIES*	26,907					26,907		
Guam								
P.R.	26,907	X				26,907	X	X
V.I.								

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

Lab & Region	Number of Samples	Types				Other
		Human Source	Water	Milk	Food	
TOTAL*	36,399					
Average*	1,213					
NEW ENGLAND*	2,861					
Conn.	204		X	X	X	Shellfish, sediments, oil, soil, air
Mass.	735	X			X	Foliage, forest residues
Me.	675		X	X	X	
N.H.						
R.I.	1,219		X	X	X	
Vt.	8					EPA proficiency samples
MIDDLE ATLANTIC*	1,079					
N.J.	1,079	X	X	X	X	Fish, shellfish, water fowl
N.Y.						
Pa.						
EAST NORTH CENTRAL*	12,254					
Ill.	2,038		X	X	X	Environmental
Ind.	1,398		X	X	X	
Mich.						
Ohio	611		X		X	Soils, oils
Wis.	8,207		X			Fish, sediments, leachates, barrel wastes
WEST NORTH CENTRAL*	2,210					
Ia.	1,069	X	X			Soil, oil, fish, animal feed, air, PCB-352, ONA-37
Kans.	577		X			Air, soil, sediment, QA
Minn.						
Mo.						
Nebr.						
N.D.	164		X	X		Soil
S.D.	400					Formulations
SOUTH ATLANTIC*	2,007					
Del.	1		X			
D.C.						
Fla.						
Ga.						
Md.	1,505		X	X		Seafood, soil, seat
N.C.	334		X			
S.C.	167	X		X	X	Vegetation, pharmaceuticals, miscellaneous
Va.						
W.Va.						
EAST SOUTH CENTRAL*	1,064					
Ala.						
Ky.	539		X	X	X	
Miss.						
Tenn.	525		X		X	Sediment, waste samples
WEST SOUTH CENTRAL*	2,647					
Ark.	785		X	X	X	
La.	1,181	X	X	X	X	Soil, transformer oil
Okla.						
Tex.	681					
MOUNTAIN*	4,995					
Ariz.	1,155		X	X	X	
Colo.						
Ida.	920	X	X	X	X	Soil, vegetation, air & animal sources
Mont.						
Nev.						
N.M.	2,270					
Utah	650	X	X		X	Soils
Wyo.						
PACIFIC*	7,282					
Alaska						
Cal.	6,405		X	X	X	Sediments, soils
Hawaii	827		X	X	X	
Ore.						
Wash.	50	X	X	X	X	
TERRITORIES*	0					
Guam						
P.R.			X			
V.I.						

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

Lab & Region	Number of Samples	Types of Activity							Number of Continuous Sampling Stations
		Discrete Sampling Stations							
		Number of Stations	Solids	Particulate Refs	Organics	Other	Gaseous	Other	
TOTAL*	274,204								
Average*	14,432								
NEW ENGLAND*	51,098								
Conn.	4,602	52	X	X	X		X		12
Mass.									
N.H.	56	56		X			X	X	
R.I.	46,200	12	X	X			X		5
Vt.	240	12					X		
MIDDLE ATLANTIC*	0								
N.J.									
N.Y.									
Pa.									
EAST NORTH CENTRAL*	11,831								
Ill.									
Ind.									
Mich.									
Ohio	6,590	60		X	X				
Misc.	5,241	90	X	X			X		58
WEST NORTH CENTRAL*	135,155								
Ia.	129,053	51	X	X					9
Kans.	4,284	36	X	X			X		
Minn.									
Mo.									
Nebr.									
N.D.	1,418	24	X						
S.D.	400								
SOUTH ATLANTIC*	5,290								
Del.									
D.C.									
Fla.									
Ga.									
Md.	5,290	76	X	X	X	X	X	X	26
N.C.									
S.C.									
Va.									
W.Va.									
EAST SOUTH CENTRAL*	7,832								
Ala.									
Ky.									
Miss.									
Tenn.	7,832	126	X	X				X	141
WEST SOUTH CENTRAL*	124								
Ark.									
La.									
Okla.									
Tex.	124								
MOUNTAIN*	11,356								
Ariz.	4,429		X	X		X			30
Colo.									
Ida.	1,407	22	X	X					4
Mont.									
Nev.									
N.M.	5,203								
Utah	317	5		X					
Wyo.									
PACIFIC*	51,518								
Alaska									
Cal.	4,773	50	X	X	X		X		
Hawaii	46,745	12	X	X	X		X		8
Or.									
Wash.									
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

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

Lab & Region	Number of Samples	Types of Samples							Other
		Air	Water	Milk	Food	Silt	Soil	Wipes from Instruments	
TOTAL*	32,551								
Average*	1,356								
NEW ENGLAND*	4,324								
Conn.	1,560	X	X	X	X	X	X	X	Shellfish, fish, seawater, sewage, filters
Mass.	265	X	X	X	X		X		TLD's
Me.	2,056	X	X	X	X				
N.H.									
R.I.	443	X	X					X	
Vt.									
MIDDLE ATLANTIC*	0								
N.J.									
N.Y.									
Pa.									
EAST NORTH CENTRAL*	3,705								
Ill.									
Ind.									
Mich.									
Ohio	971		X	X					
Wisc.	2,734	X	X	X	X	X	X		Fish
WEST NORTH CENTRAL*	7,864								
Ia.	5,720	X	X	X		X	X	X	Vegetation, fish
Kans.	1,340	X	X	X	X		X	X	Biota, vegetation
Minn.									
Mo.	348	X	X						
Nebr.									
N.D.	156	X	X				X	X	
S.D.	300	X	X				X		
SOUTH ATLANTIC*	4,288								
Del.	333		X						
D.C.									
Fla.									
Ga.									
Md.	1,829	X	X	X	X	X	X	X	Vegetation
N.C.	2,126	X	X	X	X	X	X	X	
S.C.									
Va.									
W.Va.									
EAST SOUTH CENTRAL*	1,244								
Ala.									
Ky.									
Miss.									
Tenn.	1,244	X	X	X	X	X	X	X	Vegetation
WEST SOUTH CENTRAL*	6,326								
Ark.	1,170	X	X	X		X	X	X	Vegetation, ash, fish
La.	1,259		X	X		X			
Okla.	100							X	RIA work area wipes
Tex.	3,797								
MOUNTAIN*	1,475								
Ariz.									
Colo.									
Ida.	162		X						
Mont.									
Nev.									
N.M.	1,026								
Utah	287		X				X		
Wyo.									
PACIFIC*	3,325								
Alaska									
Cal.	2,425	X	X	X	X	X	X	X	Benthic and pelagic organisms
Hawaii									
Dr.									
Wash.	900	X	X	X	X	X	X	X	
TERRITORIES*	0								
Guam									
P.R.									
V.I.									

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

Lab & Region	Number of Samples	Types of Samples
TOTAL*	28,765	
Average*	1,918	
NEW ENGLAND*	5,901	
Conn.	5,901	Hydrocarbons (water, food, oil & gasoline, soil, sewage & sludge); PCBs (water, food, oil, soil); GC/MS (water, food, oil); Toxic Hazards (asbestos, toxic waste, chemical spills, air tubes, land fills-leachates)
Mass.		
Me.		
N.H.		
R.I.		
Vt.		
MIDDLE ATLANTIC*	492	
N.J.	492	Fish, shellfish, water fowl, soils sediments, sludges
N.Y.		
Pa.		
EAST NORTH CENTRAL*	2,499	
Ill.	112	Toxicology, Quality control, miscellaneous
Ind.		
Nich.		
Ohio	2,387	Organics and special problems, hazardous materials
Wisc.		
WEST NORTH CENTRAL*	3,617	
Ia.		
Kans.	1,617	Quality assurance, priority pollutants, trihalomethanes, PCBs
Minn.		
Mo.		
Nebr.		
N.D.		
S.D.	2,000	Feed and fertilizer
SOUTH ATLANTIC*	11,474	
Del.		
D.C.		
Fla.		
Ga.		
Md.	8,068	Bedding & upholstery, mass spectroscopy, hazardous waste
N.C.		
S.C.	3,406	Asbestos, hydrocarbons
Va.		
W.Va.		
EAST SOUTH CENTRAL*	0	
Ala.		
Ky.		
Miss.		
Tenn.		
WEST SOUTH CENTRAL*	1,056	
Ark.	269	Asbestos
La.	439	Drugs purity - aspirin, Tylenol, sand, cosmetics, sediments, soil, ice machines, pipe, formaldehyde
Okl.		
Tex.	348	
MOUNTAIN*	3,437	
Ariz.	1,712	Hazardous materials
Colo.		
Ida.		
Mont.		
Nev.		
N.M.	1,543	
Utah	182	Hazardous waste (sludges, solids, oil, etc.)
Wyo.		
PACIFIC*	289	
Alaska		
Cal.	289	Instrument calibration, identification, indoor air pollution, hazardous materials
Hawaii		
Ore.		
Wash.		
TERRITORIES*	0	
Guam		
P.R.		Potable water (herbicides), THM
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*	70,473	67,188	3,285
Average†	3,203	3,199	329
NEW ENGLAND*	6,095	4,602	1,493
Conn.	2,739	1,384	1,355
Mass.	0	0	0
Me.	485	485	0
N.H.	142	4	138
R.I.	1,974	1,974	0
Vt.	755	755	0
MIDDLE ATLANTIC*	2,621	2,621	0
N.J.	2,621	2,621	0
N.Y.	0	0	0
Pa.	0	0	0
EAST NORTH CENTRAL*	25,689	24,860	829
Ill.	0	0	0
Ind.	0	0	0
Mich.	0	0	0
Ohio	1,399	770	629
Wisc.	24,290	24,090	200
WEST NORTH CENTRAL*	7,137	7,059	78
Ia.	6,565	6,565	0
Kans.	495	494	1
Minn.	0	0	0
Mo.	0	0	0
Nebr.	0	0	0
N.D.	77	0	77
S.D.	0	0	0
SOUTH ATLANTIC*	13,633	13,200	433
Del.	0	0	0
D.C.	0	0	0
Fla.	1,664	1,231	433
Ga.	0	0	0
Md.	4,095	4,095	0
N.C.	6,128	6,128	0
S.C.	1,746	1,746	0
Va.	0	0	0
W.Va.	0	0	0
EAST SOUTH CENTRAL*	1,923	1,923	0
Ala.	0	0	0
Ky.	1,923	1,923	0
Miss.	0	0	0
Tenn.	0	0	0
WEST SOUTH CENTRAL*	1,402	1,402	0
Ark.	0	0	0
La.	0	0	0
Okla.	0	0	0
Tex.	1,402	1,402	0
MOUNTAIN*	1,989	1,986	3
Ariz.	1,364	1,364	0
Colo.	0	0	0
Ida.	0	0	0
Mont.	0	0	0
Nev.	0	0	0
N.M.	320	317	3
Utah	305	305	0
Wyo.	0	0	0
PACIFIC*	9,984	9,535	449
Alaska	0	0	0
Cal.	9,734	9,435	299
Hawaii	0	0	0
Ore.	0	0	0
Wash.	250	100	150
TERRITORIES*	0	0	0
Guam	0	0	0
P.R.	0	0	0
V.I.	0	0	0

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

Lab & Region	Total Toxicology Samples	A	B
		Physical Samples	Biological Samples
TOTAL*	759,533	89,602	669,931
Average*	20,528	3,319	20,935
NEW ENGLAND*	286,033	74,610	211,423
Conn.	74,796	43,566	31,230
Mass.	143,435	24,451	118,984
Me.	8,265	1,097	7,168
N.H.	4,372	624	3,748
R.I.	47,790	4,722	43,068
Vt.	7,375	150	7,225
MIDDLE ATLANTIC*	99,020	497	98,523
N.J.	93,806	473	93,333
N.Y.	0		
Pa.	5,214	24	5,190
EAST NORTH CENTRAL*	62,354	541	61,813
Ill.	22,050	275	21,775
Ind.	203	65	138
Mich.	0		
Ohio	14,616	105	14,511
Wisc.	25,485	96	25,389
WEST NORTH CENTRAL*	16,595	1,875	14,720
Ia.	499		499
Kans.	3,700	11	3,689
Minn.	0		
Mo.	440	206	234
Nebr.	0		
N.D.	77		77
S.D.	11,879	1,658	10,221
SOUTH ATLANTIC*	176,269	1,182	175,087
Del.	7,520		7,520
D.C.	0		
Fla.	26,132	101	26,031
Ga.	64,157		64,157
Md.	837	837	
N.C.	14,451		14,451
S.C.	63,172	244	62,928
Va.	0		
W.Va.	0		
EAST SOUTH CENTRAL*	5,783	540	5,243
Ala.	5,243		5,243
Ky.	540	540	
Miss.	0		
Tenn.	0		
WEST SOUTH CENTRAL*	79,612	33	79,579
Ark.	5,150		5,150
La.	47,826		47,826
Okla.	0		
Tex.	26,636	33	26,603
MOUNTAIN*	26,117	6,513	19,604
Ariz.	25	25	
Colo.	0		
Ida.	8,230	6,378	1,852
Mont.	0		
Nev.	0		
N.M.	9,218		9,218
Utah	5,697	110	5,587
Wyo.	2,947		2,947
PACIFIC*	6,999	3,060	3,939
Alaska	0		
Cal.	5,846	2,407	3,439
Hawaii	633	633	
Ore.	0		
Wash.	520	20	500
TERRITORIES*	751	751	0
Guam	0		
P.R.	751	751	
V.I.	0		

TABLE 4-51
III. 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	Nonpowder Residues	Other
TOTAL*	89,602											
Average*	3,319											
NEW ENGLAND*	74,610											
Conn.	43,566	F			F	F	F	F	O	F	F	F-Clay, sand, concrete, fire accelerants, clothing for seasonal stains, other volatiles, metallic poisons
Mass.	24,451	F	O	O	F	F		O	O			O-PSP Shellfish, glassware - lead, water - lead
R.I.	1,097	F	F	F	F	F			F			F-Arson
Vt.	624	F/O				F/O			O			F/O-Foods & beverages; O-Asbestos - solid samples & air, formaldehyde in insulation
R.I.	4,722	F/O	O	O	F	F/O	F		F			F/O-Materials containing toxic substances, street drug diluents
Vt.	150	O							O			
MIDDLE ATLANTIC*	497											
N.J.	473								O			
N.Y.	24	O										
Pa.	24	O										
EAST NORTH CENTRAL*	541											
Ill.	273	F/O			F/O	F/O						F/O-Foodstuffs
Ind.	65				O	O			O			
Mich.	105	F/O			F/O	F/O						F/O-Foods
Ohio	96	F/O			O	O			O			O-Hair, nails (AS)
West.	96	F/O										
WEST NORTH CENTRAL*	1,875											
Ill.	11								O			
Ind.	204								O			
Mich.	1,658					F/O						
Ohio	1,182											
Pa.	101	O	O	O					O			
W.Va.	837	F			F	F						Anti-perspirant spray
W.Va.	244				O	O		O	O			
W.Va.	540											
EAST SOUTH CENTRAL*	540											
Ala.	540	F/O	F/O	F/O	F	F			O			
Ky.												
Miss.												
Tenn.												
WEST SOUTH CENTRAL*	33											
Ark.	33											
La.												
Okla.												
Tex.												
MOUNTAIN*	6,513											
Ariz.	25								O			
Colo.	6,378	F	O	O	F/O	F	F	F		F		O-Formulations & oils, volatiles (petro. products), misc. poisons; F-Exam. for flammables in arson, firearms exams, disc. exams
Ida.												
Mont.												
Nev.												
N.M.	116	F	F/O	O	F	F						
Utah												
Wyo.												
PACIFIC*	3,060											
Alaska	2,407	O	O	O								O-Volatile & semi-volatile organics, herbicides, polynuclear aromatic hydrocarbons, phenols, carbonates, and metals in hazardous waste and environmental samples, soil-lead
Cal.												
Hawaii	633		O		O	O						
Or.	20							O	O			
Wash.												
TERRITORIES*	751											
Guam	751											
P.R.												
V.I.												

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

Lab & Region	Number of Samples	1. Blood							
		Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other
TOTAL*	669,931								
Average*	20,935								
NEW ENGLAND*	211,423								
Conn.	31,230	F	F	F	O	O			F-Carboxyhaemoglobin, halides, typing
Mass.	118,984				O				
Me.	7,168	F		F/O	F/O		F/O	F/O	
N.H.	3,748	F/O	F	F	O	O	F		F-Carbon monoxide
R.I.	43,068	F/O	F/O	F/O	F/O	F/O	F/O		
Vt.	7,225	F				O			
MIDDLE ATLANTIC*	98,523								
N.J.	93,333				O	O		O	O-Erythrocyte Protoporphyrin
N.Y.									
Pa.	5,190	F/O	F/O	O	O	O	O		
EAST NORTH CENTRAL*	61,813								
Ill.	21,775	F/O	F/O	F/O	F/O	F/O	F/O	F/O	O-Erythrocyte Protoporphyrin
Ind.	138				O				
Mich.									
Ohio	14,511	F/O	F/O	F/O	F/O		F/O		F/O-Carbon monoxide
Wisc.	25,389	F/O	F/O	F/O	O	O	O		O-Erythrocyte Protoporphyrin
WEST NORTH CENTRAL*	14,720								
Ia.	499				O				
Kans.	3,689	F	F	F	O				F-Carbon monoxide, cyanide
Minn.									
Mo.	234				O				
Nebr.					O				
N.D.	77				O				O-PKU,EPP
S.D.	10,221	F/O		F					
SOUTH ATLANTIC*	175,087								
Del.	7,520				O				O-Erthropoietic protoporphyrin
D.C.									
Fla.	26,031	F	O		O	O	O	O	
Ga.	64,157			F	F				
Gd.									
N.C.	14,451				O	O			
S.C.	62,928	O	O	O	O	O			
Va.									
W.Va.									
EAST SOUTH CENTRAL*	5,243								
Ala.	5,243	F	F	F	F	F			
Ky.									
Miss.									
Tenn.									
WEST SOUTH CENTRAL*	79,579								
Ark.	5,150	O	O	O	O	O	O		O-Rodenticide
La.	47,826								
Okla.									
Tex.	26,603								
MOUNTAIN*	19,604								
Ariz.									
Colo.									
Ida.	1,852	F		F/O		O	O	O	O-PCB,PCP
Mont.									
Nev.									
N.M.	9,218								
Utah	5,587	F	F	F	O	O	F/O	F/O	
Wyo.	2,947	F/O		F/O					
PACIFIC*	3,939								
Alaska									
Cal.	3,439	F/O			O				O-PCBs, DDTs, DDEs, FEP
Hawaii									
Ore.									
Wash.	500								O-Mercury, Arsenic
TERRITORIES*	0								
Guam									
P.R.		O							
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			
Mass.				O				
Me.	F/O	F/O	F/O	F/O	F/O	F/O	F/O	
N.H.	F	F	F	O	O	F	F	
R.I.	F/O	F	F/O	F/O	F/O	F/O		
Vt.								
MIDDLE ATLANTIC*								
N.J.			O		O			
N.Y.			O	O	O			
Pa.								
EAST NORTH CENTRAL*								
Ill.	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	
Wisc.	F/O	F/O	O	O	O	O		
WEST NORTH CENTRAL*								
Ia.								
Kans.	F	F	F					
Minn.								
Mo.								
Nebr.								
N.D.								
S.D.	O		O					
SOUTH ATLANTIC*								
Del.								
D.C.								
Fla.					O			
Ga.								
Hd.								F-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		F/O	O	O		O	
Mont.								
Nev.								
N.H.			F					
Utah	F		F		O		F/O	
Wyo.	F/O		F/O					
PACIFIC*								
Alaska								
Cal.				O				O-Mutagenic screen PCP, arsenic
Hawaii								
Ore.								
Wash.								O-Mercury, Arsenic
TERRITORIES*								
Guam								
P.R.								
V.I.								

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

Lab & Region	3. Body Tissues							
	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other
NEW ENGLAND*								
Conn.	F	F	F		F			
Mass.	F	F	F	O	F	F	F	
Me.	F	F	F					
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	
Ind.								
Mich.								
Ohio	F/O	F/O	F/O	F/O	F/O	F/O	F/O	
Wisc.								
WEST NORTH CENTRAL*								
Ia.								
Kans.			F					
Minn.								
Mo.								
Nebr.								
N.D.								
S.D.								
SOUTH ATLANTIC*								
Del.								
D.C.								
Fla.	O			O	O	O	O	
Ga.								
Hd.								
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.							O	D-PCP
Mont.								
Nev.								
N.M.	F		F		F	F		
Utah		F	F				O	
Wyo.	F/O		F/O					
PACIFIC*								
Alaska								
Cal.								
Hawaii								
Ore.								
Wash.								
TERRITORIES*								
Guam								
P.R.								
V.I.								

Table 4-54
 VII. TOXICOLOGY
 9. Biological Samples (F-Forensic, O-Other)

Lab & Region	4. Body Fluids								5. Breath		6. Other
	Ethyl Alcohol	Other Volatiles	Drugs and Narcotics	Lead	Other Metallic Poisons	Other Poisons	Insecticides	Other	Volatiles	Other	
NEW ENGLAND*											
Conn.	F	F	F						F		
Mass.	F/O	F/O	F/O	F/O	F/O	F/O	F/O		F/O		
N.H.	F	F	F						F		
R.I.	F/O	F/O	F/O		F/O	F/O					F-Vaginal swabs & smears
Vt.									F		
MIDDLE ATLANTIC*											
N.J.											
N.Y.									O		
Pa.											
EAST NORTH CENTRAL*											
Ill.	F	F	F		F	F	F				
Ind.											
Nich.											
Ohio	F/O	F/O	F/O	F/O	F/O	F/O	F/O		F/O		
Wisc.	O	O	O								
WEST NORTH CENTRAL*											
Ia.											
Kans.			F								
Minn.											
Mo.											
Nebr.											
N.D.											
S.D.	F								F/O		
SOUTH ATLANTIC*											
Del.											
D.C.											
Fla.											
Ga.											
Md.											
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.											
MOUNTAIN*											
Ariz.											
Colo.											
Ida.			F				O	O-PCP	F		O-Misc. poisons
Mont.											
Nev.											
N.M.	F	F	F	F	F	F		F-Cyanide F-Strychnine		F-Ethyl alcohol	
Utah			F				F/O				
Wyo.	F/O		F/O								
PACIFIC*											
Alaska											
Cal.											
Hawaii											
Ore.											
Wash.											
TERRITORIES*											
Guam											
P.R.										Ethyl alcohol	
V.I.											

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

Lab & Region	Number of Professional/ Technical and Non-Technical Positions in LIP	A	B	C	D	E
		Clinical	Public Health	Dairy and Food	Water	Other
TOTAL*	217.54	13,872	383	282	1,711	
Averages*	5.58	447	11	24	68	
NEW ENGLAND*	18.45	324	118	65	157	
Conn.	10.00	179	116	25	100	I
Mass.	4.00			35		I
Me.	2.50	52	1		29	
N.H.	0.10			1		
R.I.	1.50	60		2	13	
Vt.	0.35	33	1	2	15	
MIDDLE ATLANTIC*	33.00	2,501	3	0	0	
N.J.	20.00	501				
N.Y.						
Pa.	13.00	2,000	3			I
EAST NORTH CENTRAL*	23.10	1,800	39	120	145	
Ill.	8.00	1,800	14			
Ind.	2.10		6			I
Mich.						I
Ohio	2.00					
Misc.	11.00		19	120	145	
WEST NORTH CENTRAL*	15.05	1,385	25	63	60	
Ia.	1.00	350	5	36	36	
Kans.	6.00	210				I
Minn.	4.25	695	5			
Mo.	3.00		8			
Nebr.						
N.D.	0.60	63	4	4	24	
S.D.	0.20	67	3	23		
SOUTH ATLANTIC*	39.70	471	18	34	270	
Del.	0.45	22	1	1	7	
D.C.						
Fla.	20.00				200	I
Ge.						
Md.	2.25	155	9	18	63	I
N.C.	11.00					I
S.C.	3.00		7	15		I
Va.						
W.Va.	3.00	294	1			
EAST SOUTH CENTRAL*	11.65	1,557	22	0	266	
Ala.	1.50	93	5		19	
Ky.	3.15	1,117	8			
Miss.		200	4		13	
Tenn.	7.00	147	5		234	
WEST SOUTH CENTRAL*	6.30	200	41	0	16	
Ark.	2.00	200	4			
La.			7		16	I
Okl.	1.30		7			
Tex.	3.00		23			
MOUNTAIN*	13.00	857	27	0	254	
Ariz.		130	12		51	I
Colo.						
Ida.	3.00	220	6		53	I
Mont.						
Nev.						
N.M.	3.00	118	2		64	
Utah	6.00	275	6		106	I
Wyo.	1.00	114	1			
PACIFIC*	57.29	4,774	89	0	533	
Alaska	4.64	50	3		20	I
Cal.	42.00	4,109	58		430	
Hawaii	0.50	70	4		8	
Ore.	2.65	207	3		38	
Wash.	7.50	338	21		37	
TERRITORIES*	0.00	3	1	0	10	
Guam		3	1		2	
P.R.					8	
V.I.						

TABLE 4-56
XIII. LABORATORY IMPROVEMENT PROGRAM
A. Clinical 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*	13,872	9,066	7,079	1,489	2,149	
Average*	447	292	228	48	69	
NEW ENGLAND*	324	291	286	0	43	
Conn.	179	204	204			Lab. Regulation Section, Div. of Health Care Quality
Mass.						
Me.	52	11	6		7	Bureau of Health Facilities Administration, DPMS
N.H.						
R.I.	60	60	60		36	
Vt.	33	16	16			
MIDDLE ATLANTIC*	2,501	1,481	1,481	0	336	
N.J.	501	501	501		126	
N.Y.						
Pa.	2,000	980	980		210	
EAST NORTH CENTRAL*	1,800	1,522	708	94	286	
Ill.	1,800	555	555			
Ind.		153	153			2 Division of Medical Care Administration certifies Medicare/Medicaid laboratories
Mich.						
Ohio		378		94	284	
Misc.		436				Section of Laboratory Certification, Bureau of Prevention
WEST NORTH CENTRAL*	1,385	587	419	0	197	
Ia.	350	91	91			
Kans.	210	210	168		42	
Minn.	695					Div. of Health Systems, Survey and Compliance Section, Minnesota Dept. of Health
Mo.		260	160		155	
Nebr.						
N.D.	63	26				Director of Health Facilities regulates Labs. participating in Medicare. State Health Lab. certifies water and milk labs. for micro. and chemical parameters.
S.D.	67					Div. of Public Health, South Dakota Dept. of Health
SOUTH ATLANTIC*	471	1,218	182	831	299	
Del.	22	10	10			
D.C.						
Fla.		831		831		Office of Licensure and Certification, Dept. of Health and Rehabilitative Services
Ga.						Laboratory Licensure and Development Section, DHR
Md.	155	172	172		94	Office of Regulatory Services
N.C.						Div. of Facility Services, N.C. Dept. of Human Resources
S.C.						Bureau of Licensing and Certification, DHEC
Va.						
W.Va.	294	205			205	Health Facilities Evaluation Program approves Medicare facilities.
EAST SOUTH CENTRAL*	1,557	538	253	0	0	
Ala.	93	107	102			Bureau of Licensure and Certification is responsible for activities other than the premarital and milk programs.
						Dept. of Environmental Management is responsible for activities other than certification of water labs.
Ky.	1,117	151	151			Div. of Licensure and Regulation is responsible for certifying labs. in accordance with the Kentucky Medical Laboratory Act. Laboratory Services approves labs. for prenatal tests for syphilis.
Miss.	200	133				Miss. Health Care Commission
Tenn.	147	147				Laboratory Licensing Service, Health Related Board, Bureau of Manpower & Facilities, Dept. of Health & Environment

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

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.	
WEST SOUTH CENTRAL*	200	211	1,132	0	0	
Ark.	200					
La.						Office of Licensing and Certification
Okla.		211	211			
Tex.			921			
MOUNTAIN*	857	699	300	284	61	
Ariz.	130	130	130			
Colo.						
Ida.	220	220	2	220	61	
Mont.						
Nev.						
N.M.	118	118	118			
Utah	275	117				
Wyo.	114	114	50	64		
PACIFIC*	4,774	2,516	2,318	280	927	
Alaska	50	30				Health Facilities and Planning Dept. of Health and Social Services
Cal.	4,109	1,950	1,950		810	
Hawaii	70	49	49			
Ore.	207	207	207			
Wash.	338	280	112	280	117	
TERRITORIES*	3	3	0	0	0	
Guam	3	3				Health Care Financing Adm. Region II
P.R.						Health Facilities Accreditation Office
V.I.						

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

Lab & Region	Activity of Laboratory Improvement Program Staff												
	5. Proficiency Testing												
	Diag. Bact.	My-cology	Parasi-tology	Viro-logy	Im-mu-nology Syphilis Serology	Im-mu-nology Non-Syphilis Serology	Hema-tology	Clin. Chem.	Path.	Env. Micro-biology	Env. Chem.	Dairy/Food	Other
NEW ENGLAND*													
Conn.	X	X	X	X	X	X	X	X				X	
Mass.	X												
Me.													
N.H.													
R.I.	X		X		X	X	X	X		X		X	Toxicology
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			X		Toxicology
EAST NORTH CENTRAL*													
Ill.					X								Blood alcohol/lead
Ind.													
Mich.													
Ohio	X	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		
Kans.	X	X	X	X	X	X	X	X					
Minn.	X	X	X		X	X	X	X					Blood Banking
Mo.					X							X	
Nebr.													
N.D.													
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	
S.C.	X	X	X		X								
Va.													
W.Va.	X		X		X		X	X					
EAST SOUTH CENTRAL*													
Ala.					X								
Ky.	X				X		X	X					
Miss.					X								
Tenn.					X								
WEST SOUTH CENTRAL*													
Ark.	X	X	X		X					X			
La.					X		X						
Okla.					X								
Tex.													
MOUNTAIN*													
Ariz.													
Colo.													
Ida.	X	X	X		X	X	X	X		X	X		
Mont.													
Nev.													
N.M.					X	X							
Utah	X		X	X	X	X							
Wyo.	X		X		X	X	X	X					
PACIFIC*													
Alaska													
Cal.	X	X	X	X	X	X	X	X					
Hawaii					X	X							
Or.					X								
Wash.					X								Blood Alcohol
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 Lic./Permit/App.	Program Cert.	Other	Other Lic./Permit/App.	Programs Cert.	Other	Training	Consu-lation
NEW ENGLAND*								
Conn.	X	X		X	X		X	X
Mass.							X	X
Me.	X	X		X	X	X	X	X
N.H.								
R.I.	X	X		X	X		X	X
Vt.							X	X
MIDDLE ATLANTIC*								
N.J.	X			X	X		X	X
N.Y.							X	X
Pa.	X			X	X			
EAST NORTH CENTRAL*								
Ill.	X			X	X		X	X
Ind.		X						
Mich.							X	
Ohio		X					X	
Wisc.	X			X			X	X
WEST NORTH CENTRAL*								
Ia.	X			X			X	X
Kans.	X		X	X	X	X	X	X
Minn.							X	X
Mo.		X			X			
Nebr.							X	X
N.D.								
S.D.							X	X
SOUTH ATLANTIC*								
Del.	X			X	X		X	X
D.C.								
Fla.	X	X	X	X				
Ga.								
Md.	X		X	X	X	X	X	X
N.C.							X	X
S.C.							X	X
Va.							X	X
W.Va.		X		X			X	X
EAST SOUTH CENTRAL*								
Ala.	X			X			X	X
Ky.							X	X
Miss.							X	X
Tenn.							X	X
WEST SOUTH CENTRAL*								
Ark.							X	X
La.							X	X
Okla.	X							
Tex.				X				
MOUNTAIN*								
Ariz.	X	X		X	X		X	X
Colo.							X	X
Ida.	X	X		X	X			
Mont.								
Nev.								
N.M.	X	X		X	X		X	X
Utah			X	X	X		X	X
Wyo.	X						X	X
PACIFIC*								
Alaska							X	X
Cal.	X	X		X	X	X	X	X
Hawaii	X	X					X	X
Ore.	X	X			X		X	X
Wash.			X				X	X
TERRITORIES*								
Guam							X	X
P.R.						X		
V.I.							X	X

TABLE 4-57
 XIII. LABORATORY IMPROVEMENT PROGRAM
 B. Public Health 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.	Req.	Cert.	
TOTAL*	383	389	230	83	88	
Averages*	11	13	13	21	8	
NEW ENGLAND*	118	117	70	46	0	
Conn.	116	116	70	46		
Mass.						Medicare Office, Boston
Me.	1	1				
N.H.						
R.I.						
Vt.	1					
MIDDLE ATLANTIC*	3	3	2	0	3	
N.J.		1			1	
N.Y.						
Pa.	3	2	2		2	
EAST NORTH CENTRAL*	39	47	15	0	14	
Ill.	14	14	14			
Ind.	6	6	1		6	
Mich.						
Ohio		8			8	
Misc.	19	19				
WEST NORTH CENTRAL*	25	14	9	0	6	
Ia.	5	1	1			
Kans.						
Minn.	5					Div. of Health Systems, Survey and Compliance Section, Minn. Dept. of Health
Mo.	8	8	8		2	
Nebr.						
N.D.	4	4			4	Director of Health Facilities
S.D.	3	1				Div. of Public Health, South Dakota Dept. of Health
SOUTH ATLANTIC*	18	22	9	12	0	
Del.	1					
D.C.						
Fla.		12		12		Office of Licensure and Certification, DHR Laboratory Licensure and Development Section, DHR Office of Regulatory Services
Ga.						
Md.	9	9	9			Div. of Facility Services, N.C. Dept. of Human Resources
N.C.						Bureau of Licensing and Certification, DHEC
S.C.	7	1				Health Facilities Evaluation Program approves Medicare facilities
Va.						
W.Va.	1					

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

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.	
EAST SOUTH CENTRAL*	22	35	8	0	13	
Ala.	5	23	5		13	Bureau of Licensure and Certification is responsible for activities other than premarital and milk program. Dept. of Environmental Management is responsible for activities other than certification of water labs.
Ky.	8	3	3			Div. of Licensure and Regulation is responsible for certifying labs. in accordance with the Kentucky Medical Laboratory Act.
Miss.	4	4				Miss. Health Care Commission
Tenn.	5	5				Laboratory Licensing Service, Health Related Board, Bureau of Manpower & Facilities, Dept. of Health & Environment
WEST SOUTH CENTRAL*	41	42	26	0	7	
Ark.	4					
La.	7	16			7	
Okl.	7	7	7			
Tex.	23	19	19			
MOUNTAIN*	27	24	17	6	6	
Ariz.	12	12	12			
Colo.						
Ida.	6	6	3	6	6	
Mont.						
Nev.						
N.M.	2		2			
Utah	6	6				
Wyo.	1					
PACIFIC*	89	84	74	19	39	
Alaska	3					
Cal.	58	58	58		19	
Hawaii	4	4	4			
Ore.	3	3	3			
Wash.	21	19	9	19	20	
TERRITORIES*	1	1	0	0	0	
Guam	1	1				
P.R.						
V.I.						

TABLE 4-57
 VIII. 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	Im-mu-nology Syphilis Serology	Non-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		X	X	X	
Mass.													
Me.													
N.H.													
R.I.													
Vt.													
MIDDLE ATLANTIC*													
N.J.													
N.Y.													
Pa.	X	X	X	X	X	X	X	X			X		X
EAST NORTH CENTRAL*													
Ill.					X								Blood alcohol/lit
Ind.													
Mich.													
Ohio	X	X	X	X	X	X	X	X					
Wisc.	X	X	X		X	X	X	X			X		
WEST NORTH CENTRAL*													
Ia.													
Kans.					X								
Minn.	X	X	X		X	X	X	X					Blood Banking
Mo.					X						X		
Nebr.													
N.D.									X	X	X		
S.D.					X						X		
SOUTH ATLANTIC*													
Del.													
D.C.													
Fla.					X								
Ga.													
Md.	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	
Ky.	X				X		X	X		X			
Miss.													
Tenn.					X								
WEST SOUTH CENTRAL*													
Ark.													
La.		X	X	X			X	X		X	X	X	
Okla.					X								
Tex.	X	X	X	X	X							X	
MOUNTAIN*													
Ariz.										X	X		
Colo.													
Ida.	X	X	X	X	X	X	X	X		X	X	X	
Mont.													
Nebr.													
N.M.					X	X							
Utah									X	X			
Wyo.													
PACIFIC*													
Alaska	X	X	X	X	X	X			X	X	X		
Cal.	X	X	X	X	X	X							
Hawaii						X							
Ore.													
Wash.													

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

Lab & Region	Activity of Laboratory Improvement Program Staff							
	6. Field Visits						7. Training	8. Consultation
	LIP Lic./Permit/App.	Programs		Other Programs				
	Cert.	Other	Lic./Permit/App.	Cert.	Other			
NEW ENGLAND*								
Conn.	X					X	X	
Mass.					X			
Me.								
N.H.								
R.I.								
Vt.								
MIDDLE ATLANTIC*								
N.J.								
N.Y.					X	X	X	
Pa.	X							
EAST NORTH CENTRAL*								
Ill.	X	X		X		X	X	
Ind.								
Mich.								
Ohio								
Wisc.	X			X		X	X	
WEST NORTH CENTRAL*								
Ia.								
Kans.								
Minn.						X	X	
Mo.		X			X	X	X	
Webr.								
N.D.		X				X	X	
S.D.								
SOUTH ATLANTIC*								
Del.						X	X	
D.C.								
Fla.	X	X	X	X				
Ga.								
Md.	X							
N.C.						X	X	
S.C.						X	X	
Va.								
W.Va.								
EAST SOUTH CENTRAL*								
Ala.	X	X				X	X	
Ky.						X	X	
Miss.						X	X	
Tenn.						X	X	
WEST SOUTH CENTRAL*								
Ark.		X					X	
La.								
Okla.	X	X		X		X	X	
Tex.								
MOUNTAIN*								
Ariz.	X	X				X	X	
Colo.								
Ida.	X	X		X	X	X	X	
Mont.								
Neav.								
N.M.						X	X	
Utah			X		X	X	X	
Wyo.								
PACIFIC*								
Alaska						X	X	
Cal.	X	X		X	X	X	X	
Hawaii	X	X			X	X	X	
Ore.	X	X			X	X	X	
Wash.						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*	370	436	251	0	178	
Averages*	19	22	13	0	9	
NEW ENGLAND*	65	63	63	0	2	
Conn.	25	25	25			
Mass.	35	35	35			
Me.						Department of Agriculture
N.H.	1	1	1			
R.I.	2	2	2		2	
Vt.	2					Department of Agriculture
MIDDLE ATLANTIC*	0	0	0	0	0	
N.J.						
N.Y.						
Pa.						Department of Agriculture
EAST NORTH CENTRAL*	120	193	172	0	21	
Ill.		32	32			
Ind.		21			21	
Mich.						
Ohio		20	20			
Misc.	120	120	120			
WEST NORTH CENTRAL*	63	72	9	0	27	
Ia.	36	36				Department of Agriculture
Kans.						
Minn.						
Mo.		9	9			
Nebr.						
N.D.	4	4			4	
S.D.	23	23			23	
SOUTH ATLANTIC*	34	27	0	0	61	
Del.	1					
D.C.						
Fla.						
Ga.						
Md.	18	16			16	
N.C.					34	
S.C.	15	8			8	
Va.						
N.Va.		3			3	
EAST SOUTH CENTRAL*	73	51	3	0	34	
Ala.	5	4			1	
Ky.	34	19			19	
Miss.		4	3			
Tenn.	34	24			14	Depts. of Health & Environment and Agriculture
WEST SOUTH CENTRAL*	0	19	0	0	19	
Ark.						
La.		6			6	
Okl.						
Tex.		13			13	
MOUNTAIN*	3	3	0	0	12	
Ariz.						
Colo.						
Ida.					10	
Mont.						
Nev.						
N.M.	3	3				2 Main facility certified for milk analysis by FDA Utah State Dept. of Agriculture
Utah						
Wyo.						
PACIFIC*	10	6	4	0	0	
Alaska	2	2				Department of Environmental Conservation, FDA
Cal.						
Hawaii	4	4	4			
Ore.	4					Department of Agriculture
Wash.						Department of Agriculture
TERRITORIES*	2	2	0	0	2	
Guam	2					
P.R.		2			2	
V.I.						

TABLE 4-5B
 XIII. LABORATORY IMPROVEMENT PROGRAM
 C. Dairy and Food Laboratories -- Continued

Lab & Region	Activity of Laboratory Improvement Staff						
	5. Proficiency Testing	6. Field Visits			7. Training		8. Consultation
		L.I.P. Program		Other	Other Programs		
		Lic./Permit/ App.	Cert.	Other	Lic./Permit/ App.	Cert.	
NEW ENGLAND*							
Conn.	X	X					X
Mass.	X	X					X
Me.							
N.H.	X	X					X
R.I.	X	X	X				X
Vt.							
MIDDLE ATLANTIC*							
N.J.							
N.Y.							
Pa.							
EAST NORTH CENTRAL*							
Ill.	X	X					X
Ind.	X		X				X
Mich.							
Ohio	X	X					X
Wisc.	X	X					
WEST NORTH CENTRAL*							
Ia.							
Kans.							
Minn.							
Mo.	X	X				X	X
Nebr.							
N.D.	X		X				X
S.D.			X				X
SOUTH ATLANTIC*							
Del.							
D.C.							
Fla.							
Ga.							
Md.	X		X	X			X
N.C.	X		X				X
S.C.	X		X				X
Va.							
W.Va.			X				X
EAST SOUTH CENTRAL*							
Ala.	X		X				X
Ky.	X		X				X
Miss.							
Tenn.	X		X			X	X
WEST SOUTH CENTRAL*							
Ark.	X						
La.	X		X				X
Okla.							
Tex.	X		X				X
MOUNTAIN*							
Ariz.							
Colo.							
Ida.	X	X	X	X	X	X	X
Mont.							
Neav.							
N.H.	X	X					X
Utah	X			X	X	X	X
Wyo.	X	X					X
PACIFIC*							
Alaska							
Cal.							
Hawaii			X				X
Ore.							
Wash.	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*	1,711	1,413	19	1,137	
Average†	68	83	6	52	
NEW ENGLAND*	157	140	0	138	
Conn.	100	100		100	
Mass.					Dept. of Environment and Quality Engineering, Lawrence Experimental Station
Me.	29	27		29	Laboratory Improvement Program for the Div. of Health Engineering for Safe Drinking Water Act
N.H.					Water Supply and Pollution Control Commission
R.I.	13	13			
Vt.	15			9	
MIDDLE ATLANTIC*	0	0	0	0	
N.J.					
N.Y.					Department of Environmental Resources
Pa.					
EAST NORTH CENTRAL*	145	399	0	282	
Ill.		74		54	
Ind.					
Mich.					
Ohio		180		228	Environmental Protection Agency has certification authority; Dept. of Health does the laboratory surveys
Wisc.	145	145			
WEST NORTH CENTRAL*	60	67	0	150	
Ia.	36	36			
Kans.				126	
Minn.					
Mo.		31			
Nebr.					
N.D.	24			24	Federal EPA, Denver, Colorado
S.D.					
SOUTH ATLANTIC*	270	4	0	266	
Del.	7	4			
D.C.					
Fla.	200			200	
Ga.					
Md.	63			41	
N.C.					
S.C.					
Va.					
W.Va.				25	
EAST SOUTH CENTRAL*	266	200	0	99	
Ala.	19			12	
Ky.					Dept. of Natural Resources
Miss.	13			12	
Tenn.	234	200		75	
WEST SOUTH CENTRAL*	16	0	0	83	
Ark.				4	
La.	16			16	
Okla.					
Tex.				63	
MOUNTAIN*	254	115	0	66	
Ariz.	51	51			
Colo.					
Ida.	33			33	
Mont.					
Nev.					
N.M.	64	64			
Utah	106			33	
Wyo.					Federal EPA
PACIFIC*	533	488	19	45	
Alaska	20	20			Department of Environmental Conservation
Cal.	430	430			
Hawaii	8			8	
Ore.	38	38			
Wash.	37		19	37	
TERRITORIES*	10	0	0	8	
Guam	2				
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	574	129	423	1126	8	25	67	100	488	413	147	1048
Average	44.15	9.92	32.54	86.62	0.62	1.92	5.15	7.69	37.54	31.77	11.31	80.62
NEW ENGLAND*	30	26	84	140	8	25	67	100	12	2	24	38
Conn.	8	25	67	100	8	25	67	100				0
Mass.				0				0				0
Me.	12	1	14	27				0	5	2	22	29
N.H.				0				0				0
R.I.	10		3	13				0				0
Vt.				0				0	7		2	9
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*	399	0	0	399	0	0	0	0	54	330	0	384
Ill.	74			74				0				0
Ind.				0				0	54			54
Mich.				0				0				0
Ohio	180			180				0		330		330
Wisc.	145			145				0				0
WEST NORTH CENTRAL*	44	2	21	67	0	0	0	0	8	123	17	148
Ia.	16	1	19	36				0				0
Kans.				0				0	4	107	15	126
Minn.				0				0				0
Mo.	28	1	2	31				0				0
Nebr.				0				0				0
N.D.				0				0	4	16	2	22
S.D.				0				0				0
SOUTH ATLANTIC*	2	0	2	4	0	0	0	0	241	49	87	377
Del.	2		2	4				0				0
D.C.				0				0				0
Fla.				0				0	90	39	71	200
Ga.				0				0				0
Md.				0				0	30	5	6	41
N.C.				0				0	96	5	10	111
S.C.				0				0				0
Va.				0				0				0
W.Va.				0				0	25			25
EAST SOUTH CENTRAL*	0	0	0	0	0	0	0	0	42	0	6	48
Ala.				0				0	12			12
Ky.				0				0				0
Miss.				0				0	12		1	13
Tenn.				0				0	18		5	23
WEST SOUTH CENTRAL*	0	0	0	0	0	0	0	0	81	1	5	87
Ark.				0				0	4		4	8
La.				0				0	16			16
Okla.				0				0				0
Tex.				0				0	61	1	1	63
MOUNTAIN*	63	12	40	115	0	0	0	0	30	22	14	66
Ariz.	19	12	20	51				0				0
Cal.				0				0				0
Ida.				0				0	23	10		33
Mont.				0				0				0
Nev.				0				0				0
N.M.	44		20	64				0				0
Utah				0				0	7	12	14	33
Wyo.				0				0				0
PACIFIC*	80	91	297	468	0	0	0	0	27	7	11	45
Alaska				0				0				0
Cal.	42	91	297	430				0				0
Hawaii				0				0	4		4	8
Ore.	38			38				0				0
Wash.				0				0	23	7	7	37
TERRITORIES*	0	0	0	0	0	0	0	0	1	2	0	3
Guam				0				0				0
P.R.				0				0	1	2		3
V.I.				0				0				0

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

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

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

LAB :	PROGRAM ACTIVITY
AK :	Provide QC materials for syphilis serology and general microbiology.
AZ :	Blood alcohol analysts, licensure, field visits, consultation, proficiency testing, training.
CT :	Recombinant DNA registrations and inspections. Prepare and administer examinations to approve laboratory directors for dairy, food, and water. NPDES approval, inspection, and proficiency testing.
FL :	Implied Consent--permits issued to 2,820 alcohol breath test technicians (law enforcement), 57 to breath testing instructors and 78 to chemists for blood alcohol analyses. Field staff made 1,210 site visits to certify 926 breath testing machines.
ID :	Publication of quarterly clinical laboratory newsletter.
IN :	Formalized QA/QC Program. 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 (52 agencies, 606 operators).
LA :	Hematology proficiency testing for all parish health units (approximately 100) with consultation and follow-up training.
MD :	Laboratories involved with the examination of crabmeat and/or shellfish are provided assistance on-site, by telephone, and with audit samples, in order to comply with the regulations of the Food and Drug Administration.
MA :	Distribution of QC cultures. Maintain AV library. Publish LAP News.
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 (Chem.). Membrane Filter Procedures (Micro.). Fluoride Monitoring Program (Chem.)--Fluoridating water suppliers submit monthly split samples which are tested at ODH. Errors are followed up on by the survey unit of the ODH. USEPA Performance Evaluation Studies (Chem.)--EPA unknown samples are sent to all certified laboratories. Results are completed and errors are followed up on by the survey unit of the ODH.

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

LAB :	PROGRAM ACTIVITY
PA :	Development, modification, and/or comparison of methodologies useful to the clinical laboratory. Selective evaluation of new systems, kits, and modified technologies. The Bureau of Laboratories also conducts a mailed proficiency testing program, a walk-in proficiency testing program, and a proficiency testing program for physicians' office laboratories performing a total of 3,000 tests or less. This evaluation is distributed four times a year at a cost of \$75.00 per year.
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 and seminars to VD field personnel.
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.

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

LAB:NUMBER:	FTE'S:	BIOLOGICS: HUMAN:LAB USE	REAGENTS:	MEDIA:	MATERIALS PRODUCED FOR DISTRIBUTION
AL : 11.44 :	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, oc-naphthol reagent, nitrate reagents, MVFC broth, MFC agar, KFS agar, buffered rinse water, urea agar slants.
AR : 3.0 :	:	:	X :	X :	:Martin-Lewis media, Gram stain reagents.
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, <u>Chlamydia trachomatis</u> (L-1), parainfluenza, influ. A, B, monoclonal. Febrile Antigens: <u>Brucella abortus</u> , <u>Salmonella paratyphi</u> A and B, <u>Salmonella typhi</u> "H" and "O", <u>Francisella tularensis</u> . Immune sera: <u>Brucella abortus</u> , <u>Salmonella paratyphi</u> A 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.
IL : 1.0 :	:	:	X :	:	:Alcohol calibration standards for state-wide distribution in breath testing equipment.

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

LAB: NUMBER:	BIOLOGICS:		REAGENTS:	MEDIA:	MATERIALS PRODUCED FOR DISTRIBUTION
	FTE'S:	HUMAN: LAB 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. Items produced vary from primary plating and enrichment media to specific biochemical media.
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 : 52.0	X	X	X	:	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 and diphtheria toxoids adsorbed (for adult use), tetanus antitoxin, tetanus immune globulin (human), tetanus toxoid adsorbed, Varicella-Zoster immune globulin (human).
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.
ND : 1.0	:	:	X	X	Modified Thayer-Martin, JEMBEC plates, Amies transport media, antibiotic plates for milk.
OH : 3.0	:	:	X	X	Primary Martin-Lewis plates.
OK : 5.0	:	:	X	X	Approximately 189 microbiological media and 120 reagents and stains.

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

		BIOLOGICS:		REAGENTS:		MEDIA:		MATERIALS PRODUCED FOR DISTRIBUTION	
LAB: NUMBER:	FTE'S:	HUMAN:	LAB :	USE :	USE :	:	:	:	:
PA :	3.5 :	:	:	:	X :	X :	:	:	Parasitology kits (formalin & PVA), stool kits (Cary-Blair transport media), lyophilized cultures, throat washing kits (TPB with 0.5% gelatin), stool kits with antibiotics.
SC :	0.2 :	X :	:	:	:	:	:	:	Condyloma vaccine.
SD :	0.2 :	:	:	:	:	:	X :	:	JEMBEC plates.
TN :	6.0 :	:	X :	:	X :	X :	:	:	Isovitalex, Thayer-Martin plates, VCN, Gonopak, Jones-Kendrick media.
TX :	1.0 :	:	:	:	:	:	X :	:	GC media inhibitors, Lowenstein-Jensen media, TB sensitivity drugs, Middlebrook concentrate.
GU :	:	:	:	:	:	:	X :	:	GC culture plates.

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

Lab	Titles of Research Projects	Funding Support				
		Number of Positions	Federal Grant	Contract	State Funds	Other Funds
AL	Primary Drug Resistance Study			1,200		
CA	Sampling and Analytical Problems in Air Pollution	1.3	99,994			
	Fundamental and Applied Studies of Particulate Surfaces	0.3	40,661			
	Interaction of CMV with Host Cells	2.0	100,937			
	Coxsackievirus in Chronic Disease: Antigenic Variation	2.95	101,246			
	Characterization of Varicella Antigens and Responses	2.7	103,620			
	Cancer Virus Studies	4.8		133,140		
	Studies in the Cytopathogen Amebae of the Genus Naegleria	1.2	75,000			
LA	Ecological Epidemiological Study of <u>Vibrio vulnificus</u> in LA	2.0	10,500		31,000	
PA	Detection of Botulism	0.3			X	

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
AK	DWI Data Communications	1.0	30,000			
	Rabies Vaccine Project	1.0	5,000			
CA	Carcinogens and Mutagens in Ambient Air	2.9	140,000			
	Particulate Concentration in Ambient Air	0.4	183,004			
	Determ. Acidity in Ambient Air	1.6	140,788			
	Analysis of Environmental Mixtures	0.5	124,661			
CT	Typing Methods for Herpes Simplex Virus				X	
	Rapid Herpes Simplex Virus ID				X	
GA	Use and Care of Microscope	0.5			X	
MA	Biologics	4.0		X		
	Kidney Transplant Associated CMV Prevention	2.3	X			
	Transf.-Transp. CMV Prevention - Neonates	2.3	X			
	Hepatitis B Vaccine	1.25		X		
	Virology Project					X
WA	Congenital Adrenal Hyperplasia in Newborn	3.0	X	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	1.0	38,667			
	Detection of Giardia Lamblia Cysts in Drinking Water	1.0	50,000			
GA	Cetylpyridinium Chloride as In- house Decontaminant-Digestant	0.6			X	
PA	Arbovirus Surveillance	0.25			X	
	Chlamydia Detection	0.1			X	
	Bactec for TB	0.25			X	
	Product Evaluation	0.5			X	
TX	RMSF					
	Lyme Disease					
	Typhus					
VT	Isolation of <u>Campylobacter jejuni</u> from Milk					2,000

SECTION V

SPECIAL QUESTIONS

Table 5-1
LABORATORY ORGANIZATIONAL STRUCTURE

Lab & Region	Date of Current Organization Chart		Did Organization Structure Change During FY 1984	Description of Organizational Change
	State Health Department	State Laboratory		
NEW ENGLAND*				
Conn.		11/15/83		
Mass.				
Me.	12/83	12/83	X	Bureau of Health includes 2 new divisions. Lab. divided into 3 sections with program manager who reports to chief at head of each section.
N.H.	05/83	08/84	X	
R.I.		02/82		
Vt.	FY85/86	FY84/85	X	Laboratory Helper position reclassified to Laboratory Assistant. Support Services reportable to Director.
MIDDLE ATLANTIC*				
N.J.	03/83	05/83		
N.Y.				
Pa.	04/83	04/85		
EAST NORTH CENTRAL*				
Ill.	01/84	05/85		
Ind.	10/84	10/83		
Mich.				
Ohio	02/10/84	06/08/84	X	Some additions in Departmental T.O. Closed Southwest Branch Laboratory on June 30, 1984. Some changes in positions deleted or waived.
Misc.		12/83		
WEST NORTH CENTRAL*				
Ia.			X	Administrative reorganization created directorate with institutional oversight. Branch Laboratory administrative operation placed as staff to directorate. Line responsibilities remain as before. Reorganization of the agency by the new Secretary of Health and Environment.
Kans.	01/84	02/84	X	
Minn.	09/01/84	01/82		
Mo.	08/84	09/84		
Nebr.				
N.D.	09/01/83	01/84		
S.D.			X	State Chemistry Lab. closed and Toxicology moved to Pierre. The Agriculture testing is now done through contract by S. D. State University Biochemistry and Department of Microbiology.
SOUTH ATLANTIC*				
Del.	07/81	09/82		
D.C.				
Fla.	10/01/83	10/83	X	Microbiological Support moved from Scientific Support to Microbiology.
Ga.	07/84	08/84		
Ms.		01/12/79	X	Regionalization of lab. services has been an important objective of the Laboratories Administration because of the potential for increased efficiency and improved quality of services. The Laboratories Administration must provide qualified lab. directorship coverage from the Central and Branch Laboratories to State hospitals and institutions. This consolidation of hospital and Branch Laboratory testing will help enhance quality and increase efficiency of lab. testing across the Dept. of Health and Mental Hygiene.
N.C.	12/01/83	12/83		
S.C.		06/84		
Va.				
W.Va.	03/23/84	01/84		

Table 5-1
LABORATORY ORGANIZATIONAL STRUCTURE-Continued

Lab & Region	Date of Current Organization Chart		Did Organization Structure Change During FY 1984	Description of Organizational Change
	State Health Department	State Laboratory		
EAST SOUTH CENTRAL*				
Ala.	03/84	10/83		
Ky.	07/83	07/83		
Miss.	08/83	11/83		
Tenn.				
WEST SOUTH CENTRAL*				
Ark.	08/24/84	07/83	X	Radiation Unit elevated to Section status.
La.	03/19/84	03/84		
Dkla.		02/84		
Tex.		09/01/84	X	Essentially unchanged - on paper only.
MOUNTAIN*				
Ariz.		04/84	X	Effective 1/30/84 management of Tucson and Flagstaff Branch Labs. transferred to Scientific Services Section of the Laboratory.
Colo.				
Ida.	01/84	08/83		
Mont.				
Nev.				
N.M.	02/85	09/18/84		
Utah	01/84	02/15/84		
Wyo.	10/22/80			
PACIFIC*				
Alaska		08/14/84		
Cal.				
Hawaii				
Ore.	07/01/84	07/01/84	X	Laboratory given office status by being removed from Office of Health Status Monitoring.
Wash.	05/84	06/25/84		
TERRITORIES*				
Guam	06/22/84		X	Submitted for approval by Secretary of Health.
P.R.	08/84			
V.I.				

Table 5-2
 LABORATORY AUTOMATIC DATA PROCESSING (ADP)
 Areas in which Laboratory Receives or Has ADP Capabilities
 C = Central Data Processing, H = Health Department, V = Private Vendor, D = Dedicated Computer

Lab & Region	1. Diagnostic Reporting									
	Diag. Bact.	Mycology	Parasit.	Virology	Immu- nology	Hema- tology	Clinical Chemistry	Newborn Genetic Screening	Toxicology	Environmental Chemistry
NEW ENGLAND*										
Conn.	D	D	D	D	D	D	D	H		D
Mass.				D				D		D
Me.										D
N.H.										
R.I.	D				D		D	D	D	D
Vt.	H							H		D
MIDDLE ATLANTIC*										
N.J.										
N.Y.										
Pa.	H	H	H	H	H			D		H
EAST NORTH CENTRAL*										
Ill.								C		H/D
Ind.										D
Mich.										
Ohio					D			D	D	D
Wisc.	D			D	V/D		V/D	V/D	D	V/D
WEST NORTH CENTRAL*										
Ia.	D	D	D	D	D	D		D		D
Kans.				H				H		H
Minn.										
Mo.										
Nebr.										
N.D.	D	D	D	D	D			D		D
S.D.									H	
SOUTH ATLANTIC*										
Del.										
D.C.										
Fla.				D			D	D	D	D
Ga.										
Md.							D			D
N.C.	D							D		D
S.C.	H	H	H	H	H			D	H	H
Va.										
W.Va.							D	D		
EAST SOUTH CENTRAL*										
Ala.								D		
Ky.							D		D	
Miss.										
Tenn.										
WEST SOUTH CENTRAL*										
Ark.								D	D	D
La.								D		
Okla.								D		
Tex.					V		H	V		H/D
MOUNTAIN*										
Ariz.										D
Colo.										
Ida.										
Mont.										
Nev.										
N.M.										
Utah								D	D	D
Wyo.										
PACIFIC*										
Alaska				D	D					
Cal.	C/D	C/D	C/D				C/D	C/D		
Hawaii										
Or.	D	D	D	D			D	D		
Wash.	D		D					D		D
TERRITORIES*										
Guam										
P.R.										
V.I.										

Table 5-2
 LABORATORY AUTOMATIC DATA PROCESSING (ADP)
 Areas in which Laboratory Receives or Has ADP Capabilities - Continued
 C = Central Data Processing, H = Health Department, V = Private Vendor, D = Dedicated Computers

Lab & Region	2. Laboratory Administration and Management											
	Work-load Stat.	Management Information	Purchasing	Personnel Records	Supply Inventory	Biological Products Inventory	Training	Laboratory Improvement Program	Billing (Fees)	Expenditures	Budget Tracking	Other
NEW ENGLAND*												
Conn.				D	D	D	D	H/V/D	D/D/H	D	D	
Mass.	D	D/H	D									
N.H.				H/D	D	D				D	D/H	
R.I.	D	D	D									
Vt.												
MIDDLE ATLANTIC*												
N.J.												
N.Y.			H	H	H		H	H	H	H	H	
Pa.												
EAST NORTH CENTRAL*								C/V	C/H			C-Laboratory licensure
Ill.												
Ind.												
Mich.												
Ohio	D	D	C	D	V		H/V/D	C/D	D/C/V	D	C/V/D	
Misc.	V	V/D		C/D								
WEST NORTH CENTRAL*												
Ia.	D	D	D	D				D	D	D		
Ians.								V				
Minn.												
Mo.												
Nebr.										D	D/C	D/C
N.D.	D	D	D	C								
S.D.												
SOUTH ATLANTIC*												
Del.												
D.C.												
Fla.	D								D			
Ga.				D	D				D/H			D-Equipment inventory
Mo.	D											
N.C.			H	C	H							
S.C.				C						C	C	
Va.			C	C								
W.Va.												
EAST SOUTH CENTRAL*		D	D	D	D	D			D	D		
Ala.												
Ky.												
Miss.				C				C				
Tenn.												
WEST SOUTH CENTRAL*			H	H	H	H				H/H	H/H	H-Mailing address labels
Ark.	H											
La.							D					
Okla.	C/D	C/D	C/D	C/D	C	C/D						
Tex.												
MOUNTAIN*												
Ariz.	D	D								D	D	
Colo.												
Ida.	D	C	V/D	C	C					C	C	
Mont.												
Nev.					V					C/H	H/H	
N.M.	H		C	H				D	D			
Utah												
Wyo.												
PACIFIC*												
Alaska	C	C	C	C	C					C	C	
Cal.												
Hawaii	D	D	C	C	D		H		D	C	C	
Ore.	D		C	C								
Wash.	D		C	C								
TERRITORIES*												
Guam												
P.R.												
V.I.												

Table 5-2
LABORATORY AUTOMATIC DATA PROCESSING (ADP)-Continued

Lab & Region	State Central Data Processing (CDP) Center		State Health Dept. Computer Support Services	
	Computer Name and Model	Primary Programming Language	Computer Name and Model	Primary Programming Language
NEW ENGLAND*				
Conn.	IBM 370	COBOL	Wang and Harris Cope 2000, Wang OIS 40	Standard
Mass.				
Me.	IBM 4381	COBOL	Honeywell 6/95	COBOL
N.H.				
R.I.				
Vt.			Digital, DEC 20/40	FORTRAN
MIDDLE ATLANTIC*				
N.J.				
N.Y.				
Pa.			IBM 3081	COBOL
EAST NORTH CENTRAL*				
Ill.	IBM 3033	COBOL		
Ind.				
Mich.				
Ohio				
Wisc.			IBM 3083	
WEST NORTH CENTRAL*				
Ia.				
Kans.	IBM 3033	COBOL	Harris 700	FORTRAN
Minn.				
Mo.				
Nebr.				
N.D.	IBM		IBM	
S.D.	IBM 3033	COBOL	IBM-PC	
SOUTH ATLANTIC*				
Del.				
D.C.				
Fla.	Burroughs			
Ga.				
Nd.				
N.C.				
S.C.			IBM 4341, Burroughs CP-9555	NATURAL
Va.				
W.Va.				
EAST SOUTH CENTRAL*				
Ala.				
Ky.				
Miss.				
Tenn.				
WEST SOUTH CENTRAL*				
Ark.			Wang VS100	COBOL
La.				
Okl.				
Tex.			Univac 1162	COBOL
MOUNTAIN*				
Ariz.				
Colo.				
Ida.	IBM 3083	COBOL		
Mont.				
Nev.				
N.M.				
Utah	Amahl AS-3, AS-6; IBM 30-81	COBOL, CICS, ADABASE	V6-100	COBOL, CICS, ADABASE
Wyo.				
PACIFIC*				
Alaska	IBM		IBM-XT	
Cal.			Prime 550	
Hawaii				
Or.	IBM	COBOL	Various Microcomputers	BASIC
Wash.	Univac 1100	COBOL		
TERRITORIES*				
Guam				
P.R.				
V.I.				

Table 5-2
LABORATORY AUTOMATIC DATA PROCESSING (ADP)-Continued

Lab & Region	Computer Name and Model	Dedicated Computers Within The State Public Health Laboratory				Number of Simultaneous Users supported
		Primary Programming Language				
		BASIC	COBOL	FORTRAM	Other	
NEW ENGLAND*						
Conn.	DEC PDP-11/23, 2 CPUs	X				30
Mass.	Altos-8 bit, IBM-16 bit				X	4
Me.						
N.H.						
R.I.	HP 1000 21 MXE	X			X	30
Vt.	Apple II	X				
MIDDLE ATLANTIC*						
N.J.						
N.Y.						
Pa.	North Star Horizon	X				2
EAST NORTH CENTRAL*						
Ill.	Hewlett-Packard 9845A	X				1
Ind.	Hewlett-Packard 3357	X				64
Mich.						
Ohio	North Star Horizon					7
	(2) H-P 3354					
	(5) H-P M12					
	(2) PE Sigma 10					
	(5) H-P 9815					
	(2) PE-PEP II					
Misc.	VAX - 11/730, Apple 2+					35
WEST NORTH CENTRAL*						
Ia.	Data point 1500				X	
	Data General-Nova 3 & 4			X		
	Spectra Physics SP4000				X	
	Nuclear Data System			X		
	IBM-PC	X				
Kans.	Harris 700			X		26
Minn.	Data General MV 8000		X	X		128
Mo.						
Nebr.						
N.D.	IBM-PCXT & Micro	X				1
S.D.						
SOUTH ATLANTIC*						
Del.						
D.C.						
Fla.	IBM PC, PCXT, Apple IIc	X				1/system
Ga.						
Md.	HP 9835A Desktop	X				1
	TRS 80 Microcomputer	X				1
N.C.	Wang VS100		X			45
S.C.	North Star	X				12
Va.						
W.Va.						

Table 5-2
LABORATORY AUTOMATIC DATA PROCESSING (ADP)-Continued

Lab & Region	Computer Name and Model	Dedicated Computers Within The State Public Health Laboratory				Number of Simultaneous Users supported
		Primary Programming Language				
		BASIC	COBOL	FORTRAN	Other	
EAST SOUTH CENTRAL*						
Ala.	Northstar Horizons (4)	X			Y	4
Ky.	Wang 2200	X				1
Miss.						
Tenn.						
WEST SOUTH CENTRAL*						
Ark.	DEC-PDP 11/04 w/RT11 Controller	X		X	Y	
	DEC-LSI 11 w/RT11 Controller				Y	
	Mostek-MK 4104	X				
	6110 Revision I-LSI	X				
	I.L. ADS-1	X				
	6502 Processo-Apple IIe				Y	
La.	North Star Horizon	X				8
Okla.	Hewlett-Packard 9845B	X				1
Tex.	Hewlett-Packard 1000	X		X		2
MOUNTAIN*						
Ariz.	IBM-XT and IBM-PC	X				1
Colo.						
Ida.	Columbia	X				1
	Comodore Pet	X				1
	Comodore 64	X				1
Mont.						
Nev.						
N.M.						
Utah	Wang VS-80	X	X	X		32
Wyo.						
PACIFIC*						
Alaska						
Cal.						
Hawaii						
Ore.	Sperry System 80		X	X		128
Wash.	Prime 550-II			X		25
TERRITORIES*						
Guam						
P.R.						
V.I.						

Table 3-2
LABORATORY AUTOMATIC DATA PROCESSING (ADP)-Continued

Lab & Region	Dedicated Computers Within The State Public Health Laboratory				Lab Instrumentation Supported by Dedicated System
	Laboratory Personnel (FTE) required				
	Operators	Prog/Analyst	Data Entry	Other	
NEW ENGLAND*					
Conn.		1.00	1.00		
Mass.		1.00	3.00		
Me.					Hewlett-Packard 5985 GC/MS
N.H.					
R.I.	0.50	0.50	3.00		Gas chromatographs (12), HPLC (2), Atomic Absorption, Auto Sampler
Vt.		0.50			Technicon AutoAnalyzer, Dionex Ion Chromatograph
MIDDLE ATLANTIC*					
N.J.					
N.Y.					
Pa.					
EAST NORTH CENTRAL*					
Ill.		1.00	2.00		FM Analytic 1285 Gamma Counter, FM Analytic 1290 Gamma Counter
Ind.	0.50	1.00	0.50		Varian 3600 Gas Chromatograph, (3) Technicon Model II AutoAnalyzer, Varian Model 1200 Atomic Absorption
Mich.					
Ohio					Tracor 1285 Gamma Counter, H-P 5880A Gas Chromatograph, (2) H-P GC/MS, PEF40, -F42, 3920 Gas Chromatographs, PE Liquid Chromatographs, Kinetic Analyzer, Polysac AutoAnalyzer (for emit methods)
Wisc.		3.00	3.00	1.00	
WEST NORTH CENTRAL*					
Ia.		3.00	1.00		Tracor 222 and 560, Spectra physics Finnigan GC/MS Data General 61 Li detector Nuclear Data (2) Perkin-Elmer 5000 Atomic Absorption
Kans.	0.10	0.40			Varian Vista 402 Gas Chromatograph Prias-Packard Gamma Counter
Minn.			6.00	1.00	
Mo.					
Nebr.					
N.D.					All Microbiology and Chemistry
S.D.					
SOUTH ATLANTIC*					
Del.					
D.C.					
Fla.					
Ga.					
Md.			1.50		LKB Rackgamma (Gamma Counter), AutoAnalyzer System
N.C.	2.00	1.00	4.00	10-20	
S.C.			0.50		Gamma Trak 1290, TM analytes, Searle Analytic 1197
Va.					
W.Va.					
EAST SOUTH CENTRAL*					
Ala.			1.00	2.00	Micromedic 4/200 (2), 10/200 (1) gamma counters
Ky.					Abbott ABA 109 Clinical Chemistry Analyzer, Finnigan MS/GC
Miss.					
Tenn.					
WEST SOUTH CENTRAL*					
Ark.	0.09		0.01		Canberra Scorpio Multichannel Analyzer Gamma Spectrometer 3000, EB&B Ortec Tube Excited X-ray Fluorescence Analyzer 6110-40, Instrumentation Labs. Atomic Absorption Unit IL Video 22, Spectra Physics 4100, Finnigan GC/MS 3200F-6103, Kallestad Labs. Hydragamma 1a Gamma Counter
		0.50	0.25		
			0.25		
	0.40		0.10		
La.			4.00	3.00	Tracor Gamma Counter
Okl.				0.20	Packard Instruments PRIAS Gamma Counter
Tex.		1.00			GC/MS
MOUNTAIN*					
Ariz.	0.25		0.50		
Colo.					
Ida.	0.50				
	0.25				
	0.25				
Mont.					
Nev.					
N.M.					
Utah	0.25	0.25	0.25		Finnigan Mass Spectrophotometer, Nuclear Data 6600
Wyo.					
PACIFIC*					
Alaska					
Cal.					
Hawaii					
Or.	1.00	1.00	4.00	1.50	Micromedic 600 Gamma Counter
Wash.		3.00	3.00		Micromedic 4200 Gamma Counters (2), Auto Logic Gamma Counter, Beckman Wide Beta Counter, Canberra 4 Gamma Counter, Nuclear Data 180 Gamma Counter
TERRITORIES*					
Guam					
P.R.					
V.I.					

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

Lab & Region	Description of Future (1-2 years) ADP Plans
NEW ENGLAND*	
Conn.	Develop management information system, interface instruments with CPU, Wang word processors conversion to PC's and link with Health Dept., CDC, and others
Mass.	Networking of multiple user microcomputers
Me.	Automation of all lab data, probably on HD computer
N.H.	
R.I.	Total computerization of all sample tracking
Vt.	Use H.D. Central System for a centralized accession, identification, and worksheet generation. Attempt to flesh out the 28 or so identified testing and reporting activities from sample entry to report.
MIDDLE ATLANTIC*	
N.J.	
N.Y.	
Pa.	Addition of 3 additional terminals and 1 letter quality printer online for State HD mainframe. Word processing will be a major area of development for the next year.
EAST NORTH CENTRAL*	
Ill.	Implement a Data Base Management (Nomad-II) to support follow-up activities of the Newborn Screening Program.
Ind.	Add 4 gas chromatographs. Develop a basis for a computerized laboratory management system.
Mich.	
Ohio	Add one 8-user North Star per year. Add multi-user capability to the system dedicated to the Gamma Counter. Networking of all systems; introducing H-P Cabsam System.
Misc.	Develop a comprehensive laboratory-wide data base system.
WEST NORTH CENTRAL*	
Ia.	Purchase of a minicomputer and software in near future.
Kans.	Additional equipment: printers, Multiplexer, modem, additional ports and terminals. Additional instrumentation automations: 2 Finnegan GC/MS, Technicon IIC+.
Minn.	To install PHLDBMS. To automate result recording and reporting functions. To connect lab instruments for T4 analyses. To implement total office automation using DB's CED. To provide management aids, billing, expenditures and budgeting.
Mo.	
Nebr.	
N.D.	
S.D.	Lab. is currently completing a study that will automate the Lab. It appears that it will be a system using some microcomputers for data collection tied to the mainframe for storage and data analysis.
SOUTH ATLANTIC*	
Del.	
D.C.	
Fla.	To convert microcomputers to intelligent terminals and integrate to State mainframe.
Ga.	One IBM PCAT requested in FY 1985 budget is on order. FY 1986 budget request for 5 personal computers and software (2 for Central Lab. and 1 each for Regional Labs.).
Md.	Computerize lab. accession and reports with terminals at each county health department and State hospital.
N.C.	Complete various programs now partially completed.
S.C.	Complete on-line lab system, interface Coulter Counters, chemistry analyzer (Hitachi) and toxicology instrumentation (GC's, Ames Optimate and Syva immunoassay) to mainframe.
Va.	
W.Va.	

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

Lab & Region	Description of Future (1-2 years) ADP Plans
EAST SOUTH CENTRAL*	
Ala.	Continue development of local area network to include laboratory-wide system.
Ky.	Neometrics Newborn Screening Program ADP system to be implemented 10/84. Digital Equipment Corp. VAX system network to be installed in late 1984 or early 1985. Modified CDC Microbiology software will be used. CDC Clinical and Environmental software will be considered when it becomes available. Other software will be purchased or developed in-house.
Miss.	
Tenn.	Purchase minicomputer for inventory control, budget information, and preventive maintenance.
WEST SOUTH CENTRAL*	
Ark.	Automation of all lab. data handling and interfacing data with users using CPU capable of from 3 megabytes to 8 megabytes or 1 billion external characters and 128 support devices (remote/printer units).
La.	Expand computerization of demographics and test result entry into all areas of laboratory and regional labs. Increase report capabilities. Provide instrumentation interface with computer where feasible. Upgrade data entry and retrieval. Interact with outside departments to provide data and reports as needed.
Okla.	Expansion of laboratory ADP capabilities into areas of administrative management, workload statistics, fee billing, budget tracking, etc.
Tex.	Expansion of soon-to-be implemented data management system for environmental chemistry to include other areas of laboratory.
MOUNTAIN*	
Ariz.	Develop a network program.
Colo.	
Ida.	Adapt CDC-developed software for microbiology testing programs to existing or new hardware. Develop software for genetics lab. and forensic lab. programs. Acquire additional software.
Mont.	
Nev.	
N.M.	Complete automation of specimen entry, sample tracking, result reporting, and storage by July 1985.
Utah	Continue with VS-80 computerizing our billing system and workload reporting system.
Wyo.	
PACIFIC*	
Alaska	Network Regional Lab. records to State mainframe.
Cal.	
Hawaii	In process of inputting Lab.'s needs into departmental ADP planning document.
Ore.	Fully implement the system, incorporating OCR
Wash.	Support additional terminals as the need arises.
TERRITORIES*	
Guam	
P.R.	
V.I.	

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

Lab & Region	Areas in Which MDC Might Provide Assistance in Planning, Development, or Upgrading of Computer Capabilities
NEW ENGLAND*	
Conn.	Management information system for environmental and toxicological areas
Mass.	Establish standard file designs for automated reporting of diagnostic laboratory results to CDC
Me.	Possible implementation of PHLDDBMS and related consultation.
N.H.	
R.I.	
Vt.	Systems analysis and development. Costing alternative approaches, i.e., private consultants.
MIDDLE ATLANTIC*	
N.J.	
N.Y.	
Pa.	
EAST NORTH CENTRAL*	
Ill.	
Ind.	
Mich.	
Ohio	Information on computerization of Microbiology.
Wisc.	
WEST NORTH CENTRAL*	
Ia.	
Kans.	
Minn.	Help install PHLDDBMS.
Mo.	
Nebr.	
N.D.	
S.D.	Provide a copy of the Lab. System now developed.
SOUTH ATLANTIC*	
Del.	
D.C.	
Fla.	
Ga.	
Md.	Software design for specimen accession and lab. data reporting.
N.C.	
S.C.	
Va.	
W.Va.	
EAST SOUTH CENTRAL*	
Ala.	
Ky.	Develop general clinical and environmental chemistry software. Act as clearinghouse for software owned by State labs. which the lab. would be willing to share with other labs. Provide local consultation.
Miss.	
Tenn.	
WEST SOUTH CENTRAL*	
Ark.	Automation of sample/patient data at Local Health Units and in the laboratory. Integrate same into a data base.
La.	Information on capabilities of interacting with outside agencies to exchange information and data. Coordinating efforts of States and agencies to provide means of networking with least amount of overlapping or duplication of efforts. Information on software and interfaces currently in place in one area that might be useful elsewhere. Creation, update and analysis of public health software addressing the unique problems of PHL's.
Okla.	
Tex.	
MOUNTAIN*	
Ariz.	Develop and provide software packages tailored to the technical and management needs of PHL's.
Colo.	
Ida.	All items listed under Future Plans.
Mont.	
Nev.	
N.M.	
Utah	Computerized workload reporting system and billing system.
Wyo.	
PACIFIC*	
Alaska	All areas.
Cal.	
Hawaii	Technical support with hardware and software compatible with other States and CDC.
Ore.	A King flow chart on tape or floppy disk with program for operation, as an aid in microorganism identification.
Wash.	Information on alternatives to keyboard data entry.
TERRITORIES*	
Guam	
P.R.	
V.I.	

Table 3-2
LABORATORY AUTOMATIC DATA PROCESSING (ADP)-Continued
Laboratory ADP Contact

Lab & Region	Individual Responsible for Laboratory ADP	Title of Individual Responsible for Laboratory ADP	Telephone No. of Individual Responsible for Laboratory ADP
NEW ENGLAND*			
Conn.	John Marren	Data System Analyst	(203) 566-3789
Mass.	John Sorrentino	Controller	(617) 522-3700
Me.	Glenda Winn	Systems Analyst	(207) 289-2727
N.H.			
R.I.	Robert Mellor	Supervising Chemist	(401) 274-1011
Vt.	Mary Ann Freedman	Director, Statistics and Data Processing	(802) 863-7300
MIDDLE ATLANTIC*			
N.J.			
N.Y.			
Pa.	Richard J. Haag	Systems Analyst	(215) 363-8500
EAST NORTH CENTRAL*			
Ill.	Robert Dobbins	Microbiologist V	(312) 793-4703
Ind.	Jack Wells	Supervisory Chemist	(317) 633-0223
Mich.			
Ohio	Charles Little	Chemist Laboratory Supervisor	(614) 421-1078, Ext. 52
Wisc.	David E. Miran	Chief of Data Processing	(608) 262-0019
WEST NORTH CENTRAL*			
Ia.	William Berger	Systems Analyst	(319) 353-5990
Kans.	Robert E. Bostrom	Chief, Air Quality/Environ. Toxicology	(913) 862-9360, Ext. 413
Minn.	Rick Kantorowicz	Chief	(612) 623-5384
Mo.			
Nebr.			
N.D.			
S.D.	Montie Gloe	Department Programmer	(605) 773-3365
SOUTH ATLANTIC*			
Del.			
D.C.			
Fla.	Ming S. Chan, Ph.D.	Asst. Laboratory Services Administrator	(904) 354-3961, Ext. 3247
Ga.			
Md.	J. Mehsen Joseph, Ph.D.	Director, Laboratories Administration	(301) 383-2880
N.C.	Mildred A. Kerbaugh	Director of North Carolina SPHL	(919) 733-7834
S.C.	Sarah Robinson	Assistant Chief	(803) 758-4491
Va.			
W.Va.			
EAST SOUTH CENTRAL*			
Ala.	William J. Callan, Ph.D.	Assistant Director	(205) 277-8660
Ky.	B. F. Brown, M.D., M.P.H.	Director, Div. of Laboratory Services	(502) 564-4446
Miss.			
Tenn.	Dale Brinkley	Administrative Services Assistant	(615) 741-3596
WEST SOUTH CENTRAL*			
Ark.	Robert L. Horn	Director, Public Health Laboratories	(501) 661-2191
La.	Susan Daigle	Laboratory Technologist V	(504) 568-5393
Okl.	James Hanan	Chief Chemist	(405) 271-5463
Tex.	Tom Langham	Laboratory Computer Officer	(512) 458-7568
MOUNTAIN*			
Ariz.			
Colo.			
Ida.	David Elliott	Account Technician	(208) 334-2236
Mont.			
Nev.			
N.M.	Dr. Blaine, Dr. Romero, Dr. Hughes		(505) 841-2500
Utah	Robert H. Anderson	Management Services Coordinator	(801) 533-6131
Wyo.			
PACIFIC*			
Alaska	Harry Colvin	Chief, Section of Laboratories	(907) 465-3077
Cal.			
Hawaii	Glenn Kobayashi	Supervisor, Medical Microbiology Section	(808) 548-6330
Ore.	Peter Beach	Program Exec. B	(503) 229-5882
Wash.	James L. Thomas	Computer Programmer/Analyst IV	(206) 464-6278
TERRITORIES*			
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	Cuts, Needle Pricks	Chemicals	Infection	Radio-logical		
NEW ENGLAND*											
Conn.	8	X	X	X			10	2			9-Bruises, fractured finger
Mass.	16	X	X	X			9	6			7-Falls, lifting
Me.		X	X	X			3				2-Falls on snow/ice
N.H.	9	X	X	X							
R.I.	8	X	X	X			3				
Vt.	4	X		X	1		1				
MIDDLE ATLANTIC*											
N.J.	11	X	X	X			18				Aerosol exposure, rash, 3-burns, 3-neck and back injuries, 2-sprains
N.Y.											
Pa.	3	X	X	X			3				3-Falls
EAST NORTH CENTRAL*											
Ill.	7	X	X	X			4	1			
Ind.	10	X	X	X							
Mich.	11	X	X	X							
Ohio	13	X	X	X			7				Fall
Wis.	6		X	X			9	2			Eye injury; 3-falls
WEST NORTH CENTRAL*											
Ia.	6	X	X	X			1	2			Fainting, burn, bruise
Kans.	9	X	X	X			3	3			
Min.	7	X	X	X	1		10	4			
Mo.	7	X	X	X			3				
Nebr.											
N.D.	10	X	X	X			4				
S.D.			X	X			2				
SOUTH ATLANTIC*											
Del.	4	X	X	X			1	1			
D.C.											
Fla.	5		X	X							
Ga.	4	X	X	X			3				Burn from hot steam in Autoclave
Md.		X	X	X			3	2			Mechanical injuries
N.C.	8	X	X	X			26	6	1		Bacterial spill, UV burn, bruise
S.C.	7	X	X	X			9				Lifting, fall
Va.											
W.Va.	5	X	X	X			1				
EAST SOUTH CENTRAL*											
Ala.	6	X	X	X			11				Back hurt, fall, hand pinched on file
Ky.	6		X	X			2				Burn, washed finger
Miss.		X	X	X							
Tenn.	X		X	X			1	1			Automobile accident
WEST SOUTH CENTRAL*											
Ark.	12	X	X	X			2				
La.	30	X	X	X	7		22	1			2-Fingers washed, 1-foot hit by door, 2-falls, 2-corneal abrasion
Okla.	6	X	X	X			1				
Tex.	5	X	X	X			8	1			
MOUNTAIN*											
Ariz.	5	X	X	X							
Colo.											
Ida.	8	X	X	X			4				
Mont.											
Nev.											
N.M.	4	X	X	X	1		3				
Utah	4	X	X	X				1			
Wyo.											
PACIFIC*											
Alaska	3	X	X	X	1		7				
Cal.	14		X	X			4	1			Physical injury, e.g., back strain
Hawaii	7	X	X	X			4	1			
Ore.	6	X	X	X			3				Head bump, wrist wrench, 2-falls, eye splash, scratch from wires,
Nash.	8	X	X	X			3	1	1		Fall
TERRITORIES*											
Guam				X			1				
P.R.	3	X	X	X				1			
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 Sactec)	Lab Has Radiation Safety Program	Radionuclides Used By Lab
NEW ENGLAND*				
Conn.	X	X	X	137-Cs, 60-Co, 131-I, 90-Sr, 133-Ba, U-235, 241-Am, 40-K, 57-Co, 22-Na, 109-Cd, 54-Mn, 103-Ru, 106-Ru, 65-Zn, 95-Zr, 232-Th, 141-Ce, 144-Ce, 59-Fe, 51-Cr, 134-Cs, 3-H, 226-Ra, 228-Ra, 89-Sr, UO ₂ (NO ₃) ₂ , UO ₂ (C ₂ H ₃ O ₂) ₂
Mass.	X		X	
Me.	X	X	X	Calibrators for environmental radiation monitoring
N.H.	X			
R.I.	X		X	
Vt.				
MIDDLE ATLANTIC*				
N.J.	X	X	X	3-H, 63-Ni, sealed sources in gas chromatographs
N.Y.				
Pa.	X		X	
EAST NORTH CENTRAL*				
Ill.	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, Ra-228, Am-241
Misc.	X	X	X	Standards to calibrate methods in environmental monitoring program
WEST NORTH CENTRAL*				
Ia.	X	X	X	226-Ra, 228-Ra, tritium, 131-I, 90-Strontium, 137-Cs, 60-Co, 241-Am, 134-Cs
Kans.	X	X	X	Sealed standards for a variety of nuclides of environmental interest.
Minn.	X		X	
Mo.	X		X	
Nebr.				
N.D.	X	X	X	226-Ra, 137-Cs, bi-I, 60-Co, 3-H, 63-Ni, 241-Am, 90-Sr, 90-Y, 14-C, plus others
S.D.			X	
SOUTH ATLANTIC*				
Del.		X	X	238-U, 137-Cs
D.C.				
Fla.	X			
Ga.			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, 51-Cr, 60-Co, 65-Zn, 89Sr/90-Sr, Zr/95Nb, 131-I, 134-Cs, 137-Cs, 140-Ba, 144-Ce, 226-Ra/228-Ra, 232-Th, 238-U, 63-Ni, 239-Pu, 241-Am, 210-Po. Mixed gamma ray reference standard consisting of: tritium, cadmium 109, cerium 139, mercury 203, tin 113, strontium 85, yttrium 88.
N.C.	X	X	X	63-Ni
S.C.	X	X		
Va.				
W.Va.	X		X	
EAST SOUTH CENTRAL*				
Ala.	X		X	
Ky.	X			
Miss.	X			
Tenn.				
WEST SOUTH CENTRAL*				
Ark.	X	X	X	Atomic Bi - 95 inclusive
La.	X	X	X	Alpha, Beta, Gamma emitters
Okla.	X		X	
Tex.	X	X	X	63-Ni, 3-H, 125-I, 14-C
MOUNTAIN*				
Ariz.	X		X	
Colo.				
Ida.	X		X	
Mont.				
Nev.				
N.H.	X	X	X	Radium 226, 228, pb-210
Utah	X	X	X	110-Ag, 241-Am, 133-Ba, 140-Ba, 7-Be, 207-Bi, 14-C, 144-Ce, 134-Cs, 137-Cs, 57-Co, 51-Cr, 3-H, 125-I, 129-I, 131-I, 40-K, 22-Na, 63-Ni, 234-Pu, 241-Pu, 226-Ra, 228-Ra, 106-Ry, 146-Sc, 85-Sr, 89-Sr, 228-Th, 232-Th, 204-Tl
Wyo.	X			
PACIFIC*				
Alaska			X	
Cal.	X	X	X	14-C, 35-S, 51-Cr, 125-I, plus small quantities of calibration standards
Hawaii		X		
Or.	X		X	63-Ni for gas chromatography detector
Wash.	X		X	
TERRITORIES*				
Guam	X			
P.R.				
V.I.				

Table 3-4
CHLAMYDIA

Lab & Region	Number of Specimens Cultured FY 1984	Number of Positive Specimens	Transport Procedure Followed			Specimens Used For Chlamydia Testing
			Special Transport Medium (Specify)	Frozen > 24 Hours	Refrigerated < 24 Hours	
NEW ENGLAND*						
Conn.						
Mass.						
Me.	327	9	2 SP	X	X	Genital, nasopharyngeal, other
N.H.						
R.I.						
Vt.						
MIDDLE ATLANTIC*						
N.J.	100	3	2 SP			Endourethral and endocervical swabs
N.Y.						
Pa.	319	71			X	Cervical/urethral swabs, seears
EAST NORTH CENTRAL*						
Ill.						
Ind.						Paired, acute-convalescent sera for CF test
Mich.	252	12	2 SP			Urethral and urogenital swabs
Ohio	1644	66	2 SP	X	X	Genital infections - males: endourethral swab, Female: endocervical swab. Ocular infections - conjunctival swab. Infant Respiratory Infections - Nasopharyngeal swab, tracheobronchial aspirate or lung biopsy. Middle Ear Infections: aspirate Cervical, urethral cultures Tracheal aspirates-babies
Wisc.	8790	777	2 SP		X	
WEST NORTH CENTRAL*						
Ia.	490	28	2 SP		X	Urethral swab
Kans.	1,417	217	CTM	X	X	Urethral swab, cervical swab after initially cleaning away any mucosal debris
Minn.						
Mo.						
Nebr.						
N.D.	24	1	Antibiotics		X	Urethral discharges and swabs for culturing
S.D.						Sera for CF
SOUTH ATLANTIC*						
Del.	393	107	Bartels Gen. Virus trans. Media	X	X	MBU-urethral swab from male and female PFD-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.						Sera
Ga.	170	4	Special	X		Specimens where infected cells can be collected
Md.	4,973	636	2 SP		X	Nasopharyngeal swabs, cervical, vaginal, urethral Bubo biopsy
N.C.	2,080	224	TSP		X	Eye-conjunctiva, endocervix, tracheal aspirates, nasopharynx
S.C.	4,073	455	2 SP	X	X	Urethral, cervical, eye, and nasopharyngeal swabs
Va.						
W.Va.						Sera
EAST SOUTH CENTRAL*						
Ala.						
Ky.						
Miss.						
Tenn.	897	161	2 SP		X	Genital (urethral)
WEST SOUTH CENTRAL*						
Ark.						
La.						
Okla.						
Tex.	1,222	86	2 SP		X	X Cervix and urethral
MOUNTAIN*						
Ariz.	108	46	2 SP	X		Male and female uro-genital tract
Colo.						
Ida.	521	119	Microtrak		X	Endocervix and urethral
Mont.						
Nev.						
N.M.	500	50	2 SP			Psittacosis (bird parts) Trachomatous - urethral, endocervical
Utah	967	250	2 SP		X	Endourethral, endocervical, urethral swabs; epididymis aspirate; fallopian tubes; lumen swab or biopsy; bubo pus and aspirates
Wyo.						
PACIFIC*						
Alaska						
Cal.	410	82	Eagles in Earles, 10% fetal go-vine serum			Urethral and cervical swabs
Hawaii						
Or.						
Wash.						Paired sera - CF. Microtrak FA.
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.	7,991	FA, Enzyme immunoassay	X
Mass.	2,200	Direct and indirect immunofluorescence	X
Me.	1,583	CPE and FA	X
N.H.			
R.I.			
Vt.			
MIDDLE ATLANTIC*			
N.J.	687	FA	X
N.Y.			
Pa.	184	FA-monoclonal antibody	X
EAST NORTH CENTRAL*			
Ill.	623	Chloroform sensitivity CPE	X
Ind.	596	IFA (monoclonal), type 1 & 2	X
Mich.		Serologic procedures, neutralization, ELISA	
Ohio	5,617	Immunofluorescence	X
Wisc.		Direct FA	X
WEST NORTH CENTRAL*			
Ia.	6,422	CF, Immunofluorescence	X
Kans.	354	Tissue culture CPE, Neutralization assay	X
Minn.	1758	Neutralization	X
Mo.	500	FA	X
Nebr.			
N.D.	260	IFA, FA, CF	X
S.D.	474	FA	X
SOUTH ATLANTIC*			
Del.	1,284	Immunofluorescence, CF, HI, Neutralization	X
D.C.			
Fla.	3,021	FA (Direct & indirect), serum neutralization	X
Ga.	2,076	Ortho enzyme immunoassay	X
Md.	80	Cytopathogenic effect, Direct FA	X
N.C.	3,048	CPE in tissue culture, bivalent fluorescein labelled anti-HSV antisera, or monoclonal antibodies to HSV1 and HSV2	X
S.C.	3,231	FA	X
Va.			
W.Va.	296	Serological EIA	
EAST SOUTH CENTRAL*			
Ala.	765	CF	
Ky.	66	FA (Culture ID), Direct FA, Neutralization (TC)	X
Miss.			
Tenn.	1,427	Neutralization	X
WEST SOUTH CENTRAL*			
Ark.	16	CF	
La.	1,397	Serologies performed	
Okla.	486	Neutralization	X
Tex.	502	FA	X
MOUNTAIN*			
Ariz.	2,150	Cell culture-CPE, DFA Direct Fluorescence, Serological Conf.	X
Colo.			
Ida.	1,675	Typical CPE	X
Mont.			
Nev.			
N.M.		FA	X
Utah	1,572	Neutralization, FA	X
Wyo.		Complement Fixation	
PACIFIC*			
Alaska	232	Cell culture	X
Cal.	529	Immunofluorescence	X
Hawaii	1,048	Neutralization, FA	X
Ore.	686	Neutralization, CFT-FA	X
Wash.	300	FA conjugate, monoclonal	X
TERRITORIES*			
Guam			
P.R.			
V.I.			

Table 5-6
PREMARITAL EXAMINATION LAWS*

Lab & Region	Effective Year of Law or Latest Revision	Minimum Age Legal		Minimum Age Consent		Certificate Required May Be From (h)	Valid Period in Days	Waiting Period Exceptions (c)	Conditions of Waiver (d)	Physical Exam. Required- Qualifications (e)	Kind of Serology Required- Qualifications (f)	Serology Test for Other Disease (g)	Accepted From Other Than State Approved Labs (h)	Provision for Free Test- Qualifications (i)	Provision for Free Physical Exam	Premarital Form of Other States Accepted- Qualifications (j)	Test Results Filed with State Health Department- Qualifications (k)
		M	F(a)	M	F(a)												
NEW ENGLAND*																	
Conn.	1980	18	18	16	16	(1-3,5)	35	4 days	(6)	Yes(1)	(1)	(8)	(1-5,8,10)	Yes		Yes(6)	Yes(10)
Mass.	1974	18	18	(11)	18	(1-3,5,6)	30	3 days	(1,3,8)	Yes	(1)	(8)	(1-4,9,10)	Yes		Yes(4)	
Me.	No Law	18	18	18	18		30						(1-4,6)				
N.H.	1981	18	18	14	13												
R.I.	1975	18	18	18	16	(1-3,5)	40			Yes	(1)	(1,8)	(1,3,5)	Yes	Yes	Yes(9)	Yes
Vt.	1951	21	18	18	16	(1-3,4)	30	5 days	(1,5)		(1)		(1-6)	Yes		Yes	Yes
MIDDLE ATLANTIC*																	
N.J.	1953	18	18	16	16(10)	(1-3)	30	3 days	(6)		(4)		(1)	Yes		Yes(7)	Yes
N.Y.	1938	21	18	16	14	(1-3)	30	3 days	(6)	Yes	(1)		(1-5)	Yes		Yes(4)	Yes
Pa.	1975	18	18	14	16	(1-3,5)	30	3 days(3)	(5)	Yes	(1)		(1-6)	Yes		Yes(4)	Yes(11)
EAST NORTH CENTRAL*																	
Ill.	1981	21	18	18	16	(1)	15	1 day		Yes	(8)		(1-5,8,9,10,11)	Yes			Yes
Ind.	1981	18	18	17	17(3)	(1-3,5)	30	3 days	(6)	Yes	(4)	(8)	(1-5,8,9)	Yes			
Mich.	1978	18	18	18	16	(1-3,5)	30	3 days	(6)	Yes	(1)	(3)	(1-5,8-10)	Yes		Yes	
Ohio	No Law	18	18	18	16		30	3 days	(6)				(7)				
Wis.	1981	18	18	14	16		20	5 days					(7)				
WEST NORTH CENTRAL*																	
Ia.	No Law	18	18	17	17(5)		No Limit						(7)				
Kans.	1981	18	18	16	16(17)												
Minn.	No Law	18	18	18	15												
Mo.	No Law	18	18	18	15												
Nebr.	1978	19	18	17	17	(1)	30	2 days	(6)	Yes	(1)	(8)	(1,3-5)	Yes		Yes(4,6)	Yes
N.D.	No Law	18	18	16	16(19)								(7)				
S.D.	No Law	18	18	16	16												
SOUTH ATLANTIC*																	
Del.	No Law	18	18	16	16	(1-3)	No Limit	5 days			(1)		(1-5,8-11,14)	Yes		Yes	Yes
D.C.	1987	18	18	16	14(15)	(1-3,5)	60			(6)	(1,4)		(1-5,8,9,11)	Yes			Yes
Fla.	1984	18	18	16	16	(1)	30	(4)	(1)	(12)	(1)	(9,10)	(1-5,13)	Yes	Yes	Yes(4)	
Ga.	1978	21	18	18	16	(1)											
Ms.	No Law	18	18	18	16			2 days									
N.C.	1981	18	18	16	16(7)	(1-3)	30			Yes	(3)	(4-6)	(7)	Yes		Yes(8)	Yes
S.C.	No Law	18	18	16	16	(1-3)	60	1 day					(1-5)				Yes
Va.	1979	18	18	16	16	(1-3)	30	3 days	(9)	Yes(1)	(1)		(1-5,8,9,11)	Yes(16)		Yes	Yes
W.Va.	1983	18	18	18	18(8)	(4)				Yes	(4)						
EAST SOUTH CENTRAL*																	
Ala.	1975	21	18	17	14	(1-3)	30			Yes	(1,4,5)		11-5,8,11)	Yes(3)	Yes	Yes(4)	Yes(10)
Ky.	1982	(10)	(18)	(12)													
Miss.	1957	21	21	17	15	(1-4)	30	3 days	(2,6)	Yes(1)	(1)		(1-5)	Yes	Yes	Yes(4)	Yes
Tenn.	1950	18	18	14	14	(1)	30	(1)	(1)	Yes	(1)	(1)	(1,3,4)	Yes	Yes	Yes(4)	Yes
WEST SOUTH CENTRAL*																	
Ark.	No Law	18	18	17	16(14)								(7)	Yes(2)			
La.	1975	18	18	(6)	16	(2,4)	30	3 days	(6)	Yes(5)	(3)	(4)	(7)	Yes	Yes		
Okla.	1975	18	18	16	16(2)	(2,4,6,7)	30	(1)	(6)		(1,4)		(1-5,8,9,11)	Yes		Yes	Yes
Tex.	No Law	18	18	14	16								(7)	Yes(2)			
MOUNTAIN*																	
Ariz.	No Law	18	18	16	16	(1-3,5)						(8)	(1-5,8-11)			Yes	Yes
Colo.	1979	18	18	16	16(16)	(2,4)		(1)		Yes			(1,3,5)			Yes	Yes
Ida.	1979	18	18	16	16(4)	(1-3,5)	20				(4)	(7)	(1-5,8-11)	Yes		Yes(4)	
Mont.	1981	18	18	16	16												
Nev.	No Law	18	18	16	16												
N.M.	1979	18	18	16	16	(1-4)	30			(7)	(4)	(10)	(1-5,8-11)			Yes(4)	Yes
Utah	No Law	18	18	16	16	(1-3)	30			Yes	(1)	(3)	(1-5)	Yes			Yes
Wyo.	1941	19	19	16	16	(1-3)	30		(1,3)	Yes	(1)	(3)	(1-5)	Yes			Yes
PACIFIC*																	
Alaska	No Law																
Cal.	1975	18	18	(11)	16	(2,4,6)	30			Yes(3)	(4)	(7)	(1,2a,3,5a,8)	Yes		Yes	Yes
Hawaii	1983	18	18	16	16	(1-3)	30					(11)	(17)	Yes(2)		Yes	Yes
Orn.	1981	18	18	17	17		30	3 days	(6)					Yes(15)		Yes(4)	Yes
Wash.	No Law																
TERRITORIES*																	
Guam	No Law	21	21	18	18	(4)	10			Yes	(3)		(7)				
P.R.	No Law																
V.I.	No Law																

FOOTNOTED - TABLE 5-6

(a) MINIMUM AGE:

- (2) Requirements may be varied by order of the Judge of the County Court.
- (3) With Consent--(15 for pregnant female or mother with court order).
- (4) Judicial approval required if either party aged 16 or 17. The court must require both to take marriage counselling of at least 2 sessions 10 days apart with a designated counsellor.
- (5) With Consent--(Consent of 1 parent).
- (6) With Consent--(Permission of parents and Juvenile Court).
- (7) With Consent--(Female more than 12 years of age who is pregnant or has given birth).
- (8) With Consent--(May be waived by judge if girl is pregnant).
- (11) With Consent--Subject to judicial review if under 18.
- (12) Under 18 must have consent.
- (14) Exception by court order.
- (15) Exception by court order for pregnancy at any age.
- (16) Under age 16 only with written consent of parents and upon order of the court.
- (17) Parental consent and consent of the juvenile court in the county of residence is required.
- (18) Male and Female - Under age 16 judicial approval of consent form is required.
- (19) No license issued for an applicant 15 years of age or younger, even with parents' consent.

(b) CERTIFICATES REQUIRED FROM:

- (1) Any licensed physician.
- (2) Medical officers of the Armed Forces.
- (3) Medical officers of the Public Health Service.
- (4) State licensed physician only.
- (5) Any licensed osteopath.
- (6) State licensed osteopath.
- (7) State licensed chiropractor.

(c) EXCEPTIONS:

- (1) If not of age, 3 days.
- (3) Unusual condition as to make marriage advisable.
- (4) None, if both are 18 or over, 3 days if either is 16 or 17.

(d) CONDITIONS OF WAIVER:

- (1) Pregnancy or to legitimize a child.
- (2) Emergency defined by State Board of Health or a judge.
- (3) Imminent death.
- (5) Religious objections.
- (6) Good cause as defined by a judge.
- (7) No danger to either party.
- (8) Infected applicants must take treatment.
- (9) Only in pregnancy of minor.

(e) QUALIFICATIONS:

- (1) If serology is positive or doubtful.
- (2) Physician must sign statement that he has counselled female regarding her immunity against rubella. Physician must determine that patient is free of infectious syphilis.
- (3) Statement from physician saying person is free of all venereal diseases.
- (5) Requires a physician's statement of non-infectious state.
- (6) Physician certifies the patients free of communicable form of syphilis and has advised and counselled female partner of immune status to rubella.
- (7) Rubella.

(f) KIND OF SEROLOGY REQUIRED:

- (1) Serological test for syphilis listed in PHS Publication 8411 (1949) or later revision may be used.
- (3) Physician must certify applicant free of VD.
- (4) Any test approved by State Board of Health or State Department of Health.
- (5) Probate judge may waive requirements if emergency exists (pregnancy, impending death, or other causes as may be defined by the State Board of Health).

(g) TESTS FOR OTHER DISEASE:

- (1) Physical inspection for gonorrhoea.
- (3) Must be certified free from gonorrhoea and chancroid.
- (4) Must be certified free from all venereal diseases.
- (5) Tuberculosis.
- (6) Mental competence.
- (7) Rubella test for female applicants. (North Dakota--Not mandated by law).
- (8) Tests for rubella on females under age 50 and capable of bearing children.
- (9) Sickie cell test must be offered and counselling provided to all applicants.
- (10) Rubella test on all females capable of pregnancy.
- (11) Prenatal rubella testing to determine immune status of the woman, if unknown, and counselling on her immune status.

(h) SEROLOGY ACCEPTED FROM OTHER THAN STATE APPROVED LABORATORIES:

- (1) Department of Health Laboratories of other States.
- (2) Branch laboratories of other State Health Departments.
 - A. If State has comparable premarital blood test law.
- (3) Laboratories of the Armed Forces.
- (4) Public Health Service Laboratories.
- (5) Laboratories approved by other State Health Departments.
 - A. If State has comparable premarital blood test law.
- (6) New York City and District of Columbia.
- (7) Serology is not State required.
- (8) District of Columbia.
- (9) Laboratories of U. S. Territorial Health Departments.
- (10) Laboratories of Official Provincial Health Departments of Canada.
- (11) Laboratories of U. S. Veterans Administration Medical Center.
- (13) Provided documentation furnished that sickie cell test and rubella test requirements met.
- (14) Foreign laboratories if certified by U. S. Embassy in that country.

(i) QUALIFICATIONS:

- (2) Will test if submitted for out-of-state marriage requirements.
- (3) Charge of \$10.00 for rubella tests required for applicants of other States.
- (4) If other State has comparable premarital law.
- (6) Premarital forms of other States will be accepted only if the other State has a comparable premarital law on test for rubella.
- (7) If laboratory is State approved and if form is signed by physician and applicant.
- (8) If accompanied by qualifying statement as regards note G, 4-5.
- (9) If form is from other State laboratories or other State approved laboratories (not physician laboratories form).
- (10) If positive.
- (11) If positive test performed by State laboratory.
- (13) Except those accepted by Dept. of Health Services for testing.
- (15) Premaritals for other States are charged a fee for the office paperwork.
- (16) If the applicants are indigent.

REVISION This chart has been checked for accuracy to May 1985. Persons noting errors or suggesting revisions are urged to write (citing references) to: CAR Editor, CPD/MDC, 24 Executive Park, Centers for Disease Control, Atlanta, Georgia 30333.

TABLE 5-7
UTILIZATION OF PRESENT FACILITIES

Region	Professional and Technical Space				Laboratory Support Service Space			
	Gross Sq. Feet Central Lab.	Gross Sq. Feet Branch Lab. (if applicable)	Net Sq. Feet Central Lab.	Net Sq. Feet Branch Lab. (if applicable)	Gross Sq. Feet Central Lab.	Gross Sq. Feet Branch Lab. (if applicable)	Net Sq. Feet Central Lab.	Net Sq. Feet Branch Lab. (if applicable)
NEW ENGLAND*								
Conn.	93,287		65,300		18,791		13,154	
Mass.				8,999			12,827	
N.H.				7,607			4,066	
R.I.			18,040				3,138	
Vt.	5,150		4,950		1,450		1,250	
MIDDLE ATLANTIC*								
N.J.								
N.Y.								
Pa.	16,100		15,500		13,500		10,500	
EAST NORTH CENTRAL*								
Ill.	24,096	9,641	21,184	8,003	16,262	7,204	10,811	5,872
Ind.	18,048		15,824		4,736		4,480	
Mich.								
Ohio			18,472	3,192			11,191	1,300
Wis.	33,145	6,070	25,266	4,859	20,293	2,195	14,130	1,756
WEST NORTH CENTRAL*								
Ia.	23,780	5,941	14,268	4,159	17,667	795	10,600	557
Kans.	16,220		12,300		4,400		3,100	
Minn.	21,889		9,565		8,683		5,816	
Mo.	18,842		12,935		18,684		15,812	
Nebr.								
N.D.	6,850		6,500		2,358		2,200	
S.D.	5,600		3,400		4,000		2,400	
SOUTH ATLANTIC*								
Del.			4,018				2,172	
D.C.								
Fla.			12,374	40,282			10,855	24,855
Ga.			15,273	6,408			3,136	4,059
Md.	78,200		59,165		8,518		6,667	
N.C.	29,000	400	17,725	400	20,000	9,800	10,991	7,400
S.C.	31,400		17,200		21,161		11,900	
Va.								
W.Va.	7,506		7,458		3,535		2,843	
EAST SOUTH CENTRAL*								
Ala.	13,909	13,711	9,170	11,484	21,760	6,186	14,346	5,083
Ky.			14,664				5,500	
Miss.								
Tenn.	15,525		12,420	9,376	10,601		8,481	5,215
WEST SOUTH CENTRAL*								
Ark.			24,400				8,687	
La.	25,000	16,300	24,500	13,600	4,300	10,500	4,000	8,600
Okla.	8,882				6,800			
Tex.	65,086		27,402				12,838	
MOUNTAIN*								
Ariz.			11,652	1,740			6,827	870
Colo.								
Ida.	31,940		12,592	3,724	2,873		5,944	768
Mont.								
Nev.								
N.M.								
Utah	26,441		13,580		7,607		3,932	
Wyo.	5,903		4,446		2,890		2,000	
PACIFIC*								
Alaska		7,741		7,134		6,014		5,549
Cal.								
Hawaii	12,080	5,650	10,800	5,000	2,800	400	2,200	400
Ore.	10,460		8,263		11,048		7,456	
Wash.	9,066				3,368			
TERRITORIES*								
Guam	3,424	264	3,154	264	975	35	975	35
P.R.								
V.I.								

TABLE 5-7
UTILIZATION OF PRESENT FACILITIES-Continued

Lab Region	Administrative and Clerical Space				Total Space Available			
	Gross Sq. Feet Central Lab.	Gross Sq. Feet Branch Lab. (if applicable)	Net Sq. Feet Central Lab.	Net Sq. Feet Branch Lab. (if applicable)	Gross Sq. Feet Central Lab.	Gross Sq. Feet Branch Lab. (if applicable)	Net Sq. Feet Central Lab.	Net Sq. Feet Branch Lab. (if applicable)
NEW ENGLAND*							62,139	
Conn.	11,484		8,038		123,562	0	86,492	0
Mass.					0	0	0	0
Me.			1,655		25,110	0	23,481	0
N.H.			1,028		0	0	12,701	0
R.I.			3,441		0	0	24,619	0
Vt.	1,200		1,200		7,800	0	7,400	0
MIDDLE ATLANTIC*								
N.J.					0	0	0	0
N.Y.					0	0	0	0
Pa.	7,900		5,800		37,500	0	31,800	0
EAST NORTH CENTRAL*								
Ill.	9,260	2,325	8,807	1,884	49,618	19,170	40,802	15,759
Ind.	2,088		2,088		24,872	0	22,392	0
Mich.					0	0	0	0
Ohio			7,321	603	0	0	36,984	5,095
Wisc.	12,896	3,026	8,748	2,350	66,334	11,291	48,144	8,965
WEST NORTH CENTRAL*								
Ia.	9,650	3,176	5,790	2,660	51,097	9,912	30,658	7,376
Kans.	4,050		3,100		24,670	0	18,500	0
Minn.	3,209		2,688		33,781	0	18,069	0
Mo.	7,426		7,426		44,952	9,980	36,173	8,900
Nebr.					0	0	0	0
N.D.	1,292		1,100		10,500	0	9,800	0
S.D.	1,000		600		10,600	0	6,400	0
SOUTH ATLANTIC*								
Del.			1,710		12,176	0	7,900	0
D.C.					0	0	0	0
Fla.			5,061	8,532	46,712	91,454	28,290	73,669
Ga.			4,909	963	0	0	23,318	11,430
Md.	16,872		9,100		103,590	0	74,932	0
N.C.	10,064		5,529		59,064	10,200	34,245	7,800
S.C.	15,699		8,700		68,260	0	37,800	0
Va.					0	0	0	0
W.Va.	10,807		4,745		21,848	700	15,046	650
EAST SOUTH CENTRAL*								
Ala.	5,691	3,519	3,752	3,028	41,360	23,416	27,268	19,597
Ky.			4,024		0	0	24,188	0
Miss.					19,060	0	11,356	0
Tenn.	5,297		4,278	3,552	31,423	0	25,179	18,143
WEST SOUTH CENTRAL*								
Ark.			2,124		0	0	35,211	0
La.	3,600	5,600	3,200	4,450	32,900	32,400	31,700	26,650
Okl.	1,016				16,698	0	0	0
Tex.			6,389		65,066	0	46,629	0
MOUNTAIN*								
Ariz.			5,527	490	0	0	24,006	3,100
Calo.					0	0	0	0
Ida.	5,800		6,870	562	40,613	0	25,406	5,054
Mont.					0	0	0	0
Nev.					0	0	0	0
N.M.					0	0	0	0
Utah	2,174		1,117		36,222	0	18,629	0
Wyo.	1,926		1,338		10,719	0	7,784	0
PACIFIC*								
Alaska	441	3,437	400	3,171	441	17,192	400	15,854
Cal.					0	0	0	0
Hawaii	1,000	200	1,000	200	15,880	6,250	14,000	5,600
Ore.	5,540		3,610		27,048	0	19,329	0
Wash.	2,000				14,434	0	0	0
TERRITORIES*								
Guam	320		320		4,719	299	4,449	299
P.R.					0	0	0	0
V.I.					0	0	0	0

TABLE 5-8
LABORATORY FACILITY PLANNING AND ENERGY CONSERVATION

Lab & Region	Year Laboratory Completed	Facilities Shared by Labs Not Under SPHL'S Supervision	Laboratories Sharing Space with SPHL	New Laboratory Facility Planning								
				Planning In Progress	Planning Anticipated	Planning Funds Provided	Const. Funds Provided	Date Const. to Begin	Cost of Construction	Architect Selected	Estimated Gross Sq. Feet	
NEW ENGLAND*												
Conn.	1967											
Mass.	1904-73	I	Tufts Vet. Diag. Lab., State Racing Con.	I	I	I	I	FY 86	11,000,000	I	50,000	
Me.	1969											
N.H.	1973											
R.I.	1978											
Vt.	1933			I	I	I	I	FY 85	1,400,000	I		
MIDDLE ATLANTIC*												
N.J.	1965											
N.Y.												
Pa.	1976											
EAST NORTH CENTRAL*												
Ill.		I	Dept. of Nuclear Safety	I		I	I	FY 85	13,700,000	I	60,200	
Ind.	1950	I	Air Monitoring Lab., Industrial Hygiene Lab., Radiological Health Lab., Water Biology Lab.									
Mich.												
Ohio		I	Seal Vector-Borne Disease Unit of Bureau of Preventive Medicine									
Misc.	1952	I	Respiratory Research, Zoonosis Research, and Enterovirus Research (Dept. of Preventive Medicine)		I			FY 87	7,500,000		43,000	
WEST NORTH CENTRAL*												
La.	1979			I	I			FY 85	308,000	I	11,800	
Kans.	1974											
Minn.	1969	I	Environmental Health Labs.									
Mo.	1978											
Wear.												
N.B.	1968			I	I			Unknown	3,500,000		28,000	
S.B.	1973				I				2,000,000		28,000	
SOUTH ATLANTIC*												
Del.	1960			I	I			Unknown	3,000,000		21,700	
D.C.												
Fla.	1966			I		I		FY 84-87	7,000,000		28,000	
Ga.	1959				I	I						
Md.	1974	I	Power Plant-Siting Program (GMR)									
N.C.	1973											
S.C.	1979	I	Environmental Quality Control Labs									
Va.												
N.Va.	1954			I	I			Unknown	2,500,000		2,500	
EAST SOUTH CENTRAL*												
Ala.	1979			I	I	I		FY 1985	450,000	I	6,000	
Ky.	1960	I	Radiological Health Lab. (Div. of Consumer Health Protection)									
Miss.	1958					I	I	Begin FY 1985	160,000	I		
Tenn.	1952	I	Department of Labor.	I		I			9,700,000	I	140,000	
WEST SOUTH CENTRAL*												
Ark.	1980			I								
La.	1957											
Okla.	1973	I	Environmental Labs, Air Quality Lab., Radiological Safety Lab.		I(2)			Unknown	10M & 5M			
Tex.	1958				I			FY 1987	1,500,000		2,000	
MOUNTAIN*												
Ariz.	1976											
Colo.												
Ida.	1981	I	Dept. of Agriculture Lab.									
Mont.												
Nev.												
N.M.												
Utah	1975											
Wyo.	1974	I	Dept. of Environmental Quality, Crime Lab.									
PACIFIC*												
Alaska	1970			I				Unknown	12,000,000		20,000	
Cal.	1955											
Hawaii	1961											
Ore.	1978											
Wash.				I		I	I	Begin	9,000,000	I		
TERRITORIES*												
Guam	1973			I	I	I	I	FY 1984	3,500,000	I	27,600	
P.R.	1959			I		I	I	Begin	895,000	I		
V.I.												

TABLE 5-B
LABORATORY FACILITY PLANNING AND ENERGY CONSERVATION-Continued

Lab Region	New Laboratory Facility Planning						Energy Conservation Program			
	Estimated Net Space	Laboratory To Be Separate Building	Laboratory to Replace Present Laboratory	Building To Be An Addition	New Facility Will Contain Labs Not Under SPML'S Supervision	Laboratory to Share New Facilities with SPML	Alterations To Be Made	Energy Conservation Program Proposed	Energy Conservation Practices Implemented	Energy Conservation Committee Established
NEW ENGLAND*										
Conn.										
Mass.	40,000	X		X	X	County Med. Examiner, State Police Crime Lab.		X	X	X
N.H.								X		
N.Y.								X		
R.I.								X		
Vt.	25,500	X	X				X	X		X
MIDDLE ATLANTIC*										
N.J.										
N.Y.								X	X	X
Pa.								X		X
EAST NORTH CENTRAL*										
Ill.	36,130	X	X		X	Dept. of Nuclear Safety, Environmental Protection Agency, So. Ill. U. School of Medicine		X	X	
Ind.								X	X	
Mich.								X	X	
Ohio								X	X	
Misc.	24,000	X		X				X	X	X
WEST NORTH CENTRAL*										
Ia.	8,300			X				X	X	X
Kans.								X	X	X
Mich.								X	X	
Mo.								X	X	
Nebr.								X	X	
N.D.	20,000	X	X		X	S.B. Transportation Lab., Crime Lab.		X	X	X
S.D.		X	X					X	X	
SOUTH ATLANTIC*										
Del.	14,100	X	X					X	X	
D.C.								X	X	X
Fla.	16,000	X	X	X	X	Dept. of Agriculture Lab., Dept. of Natural Resources Lab.	X	X	X	X
Ga.		X	X					X	X	
Md.								X	X	X
M.C.								X	X	
S.C.								X	X	
Va.								X	X	
M.Va.	2,000	X		X				X	X	
EAST SOUTH CENTRAL*										
Ala.	4,000	X						X	X	
Ky.								X	X	
Miss.								X	X	
Tenn.	85,000	X	X				X	X	X	
WEST SOUTH CENTRAL*										
Ark.								X	X	
La.	65,000/40,000	X	X					X	X	
Okla.								X	X	
Tex.	1,000	X		X				X	X	
MOUNTAIN*										
Ariz.								X	X	
Colo.								X	X	
Ida.								X	X	
Mont.								X	X	
Nev.								X	X	
N.M.								X	X	
Utah								X	X	
Wyo.								X	X	
PACIFIC*										
Alaska	15,000	X	X					X	X	
Cal.								X	X	
Hawaii								X	X	X
Ore.								X	X	
Wash.	50,000	X	X					X	X	
TERRITORIES*										
Guam				X						
P.R.	30,000		X				X			
V.I.										

TABLE 5-9
CUTBACK MANAGEMENT

LAB : Problems and Experiences in Cutback Management In the Past Year

- CT : Loss of personnel was not as great as in previous years. Only two positions were lost during this fiscal year.
- FL : Medicaid billing, initiated the previous year, was continued.
- ID : Budget situation has stabilized. The Laboratory did not experience any cutbacks for FY 1984 or FY 1985.
- IN : No serious cutback problems. Most of Lab's funding problems are manageable.
- MD : Reduction in federal funds for essential programs were offset by demand on programs using laboratory data to provide funds. Additional funds were raised by requesting major using institutions to contribute to reagent/supply budget as an additional offset. These strategies have generated the money to continue funding of laboratory programs.
- MN : Laboratory has been charging the University of Minnesota for tuberculosis examinations. The monies received helped to cover one microbiologist position and approximately \$5,000 in supplies.
- NH : Loss of laboratory space.
- ND : Laboratory has suffered no declines--it actually has been able to start new programs and extend others. The Laboratory has added, modernized, and refined several areas both in Microbiology and Chemistry. Salaries have been and will continue to be upgraded.
- OH : The Ohio Legislature is pushing harder for self-sufficiency through user fees. However, the major portion of the fee system is a "Handling Charge". The Laboratory is presently preparing to introduce fee restructuring to come more in line with costs. Major problems have arisen as to what should be exempt for "Public Health" reasons; and if exempt, who should be responsible for funding. Since last year one branch lab. has been closed to compensate for reduced funding. So far two out of four have been closed. The question now is whether or not there will be sufficient funds to keep the other two branch labs open. In light of recent cutbacks in personnel, the Laboratory is attempting to automate as much as possible to maintain its testing capacity at the current levels. At the same time, the services that are currently provided are being evaluated, with the intention of eliminating those which are least significant in terms of Public Health and which do not support themselves fiscally.

TABLE 5-9
CUTBACK MANAGEMENT
(Continued)

LAB	Problems and Experiences in Cutback Management In the Past Year
PA	Budget monies are adequate and staff size is marginal for maintaining current activities. Freezes on all vacancies effectively reduced the available staff. Reduction of activities is ongoing as a necessary means of coping with the loss of staff.
RI	The Laboratory has not been forced into an actual cutback management situation. Although the budget is tight, the Laboratory has been able to maintain its programs at essentially the same levels as the previous fiscal year with only minor adjustments.
VT	The Laboratory suffered only minor damages from cuts in EPA funding and general fund equipment requests. Fortunately, these were augmented by excess receipts. These monies will not be available in the future, however.
WV	Although cutbacks in personnel and budget were faced by the Hygienic Laboratory during the third quarter of last fiscal year, the resulting impacts are still being felt. For the programs carried, the number of personnel is still short in several areas.
GU	The Laboratory is having trouble receiving funding for increase in workload, purchase of new equipment, and preventive maintenance.
