

Office of the
Legislative Fiscal Analyst

FY 2001 Budget Recommendations

Joint Appropriations Subcommittee for
Health and Human Services

Utah Department of Health
Epidemiology and Laboratory Services

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1.0 Department of Health – Epidemiology and Laboratory Services

Summary

The Division of Epidemiology and Laboratory Services encompasses a director's office, three programs which make up the State Health Laboratory and three programs associated with community health services.

	Analyst FY 2001 Base	Analyst FY 2001 Changes	Analyst FY 2001 Total
Financing			
General Fund	\$4,598,400		\$4,598,400
Federal Funds	4,721,900		4,721,900
Dedicated Credits Revenue	1,622,300		1,622,300
GFR - State Lab Drug Testing Account	149,400		149,400
Transfers	459,200		459,200
Total	<u>\$11,551,200</u>	<u>\$0</u>	<u>\$11,551,200</u>
Programs			
E.L.S. Director's Office	\$624,900		\$624,900
Environmental Chemistry and Toxicology	1,887,000		1,887,000
Laboratory Improvement	901,900		901,900
Microbiology	1,851,200		1,851,200
HIV/AIDS/TB Control/Refugee Health	4,164,900		4,164,900
Food Safety and Environmental Health	433,200		433,200
Epidemiology	1,688,100		1,688,100
Total	<u>\$11,551,200</u>	<u>\$0</u>	<u>\$11,551,200</u>
FTE	126.5		126.5

2.0 Issues: Epidemiology and Laboratory Services

2.1 Donation of Laboratory Equipment Intent

The Legislature approved intent language to allow the donation of laboratory equipment. No equipment has been donated during the past three years.

3.1 Epidemiology and Laboratory Services – Director’s Office

Recommendation

The Analyst recommends a budget of \$624,900 for the Director's Office for FY 2001. The Analyst's recommendation includes eight FTE positions. The FY 2001 recommended General Fund level is slightly below the FY 2000 level. The total recommended funding level is \$438,500 below the FY 2000 estimated level because of non-lapsing, one-time appropriations by the 1995 and the 1996 Legislatures for laboratory equipment. The division has been prudent in its use of the funding for equipment as it has reserved the funding for the most essential items and for unexpected failures of equipment. The division expects to continue using the funding as it has in the past. The Analyst shows the usage of the full amount (\$430,400) in FY 2000 but if it is not spent, it will be carried forward to FY 2001.

	FY 1999	FY 2000	FY 2001	Est/Analyst
Financing	Actual	Estimated	Analyst	Difference
General Fund	\$615,600	\$631,300	\$624,900	(\$6,400)
General Fund, One-time		1,700		(1,700)
Dedicated Credits Revenue	4			
Beginning Non-lapsing	320,419	430,400		(430,400)
Closing Non-lapsing	(430,419)			
Lapsing Balance	238,894			
Total	<u>\$744,498</u>	<u>\$1,063,400</u>	<u>\$624,900</u>	<u>(\$438,500)</u>
Expenditures				
Personal Services	\$440,631	\$424,700	\$420,200	(\$4,500)
In-State Travel	893	900	800	(100)
Out of State Travel	4,883	5,000	5,000	
Current Expense	85,183	100,000	95,800	(4,200)
DP Current Expense	89,620	102,400	103,100	700
Capital Outlay	123,288	430,400		(430,400)
Total	<u>\$744,498</u>	<u>\$1,063,400</u>	<u>\$624,900</u>	<u>(\$438,500)</u>
FTE	9.0	8.0	8.0	

Purpose

The Division of Epidemiology and Laboratory Services was formed during FY 1996 with the consolidation of other divisions within the Department. This program provides administration of public health and environmental health programs. These programs include environmental chemistry and toxicology, laboratory licensure, microbiology, HIV/AIDS/refugee services, food safety and environmental health, and epidemiology.

Previous Budget Increases

The 1996 Legislature appropriated \$240,000 in one-time funds for the purchase of new laboratory equipment. The 1997 Legislature added \$286,300 to that figure. These funds were designated as non-lapsing by intent language. Approximately \$200,000 of these funds has been expended since the appropriations were made. In addition to this appropriation, the division was given non-lapsing authorization in Senate Bill 1 for \$110,000 worth of laboratory equipment, if the funds were not spent by the end of FY 1999.

Intent Language

The Legislature approved the following intent language to allow the donation of laboratory equipment.

It is the intent of the Legislature that the Division of Epidemiology and Laboratory Services may receive donated laboratory equipment and shall use such donated equipment for the purpose of promoting and protecting the public health.

Response

The purpose of this intent language is to allow the division to receive donated equipment in conjunction with Department of Environmental Quality (DEQ) fines. No equipment has been donated during the past three years. However, the Analyst recommends the continuation of this intent language, as it allows the division the room and the authority to negotiate fines. If it is not required, it has no effect.

3.2 Environmental Chemistry and Toxicology

Recommendation The Analyst recommends a budget of \$1,887,000 and a staffing level of 30 FTEs for FY 2001.

The dedicated credits come from fees charged by the Health Laboratory, as authorized in the Appropriations Act. The Analyst's projection for fees reflects the level of collections over the past few years. The major portions of the \$88,700 listed as Revenue Transfer is from the Department of Environmental Quality and the Department of Natural Resources for laboratory testing provided by this bureau.

During the 1998 Legislative session, House Bill 71, "Alcohol and Drug Testing Fee", passed which established a new restricted fund and provides annual funding to cover the costs of the lab's drug and alcohol tests for state and local law enforcement agencies.

	FY 1999	FY 2000	FY 2001	Est/Analyst
	Actual	Estimated	Analyst	Difference
Financing				
General Fund	\$1,314,100	\$1,353,100	\$1,333,800	(\$19,300)
General Fund, One-time		3,700		(3,700)
Dedicated Credits Revenue	330,617	310,000	315,100	5,100
GFR - State Lab Drug Acct.	150,000	150,000	149,400	(600)
Transfers	93,979	88,000	88,700	700
Lapsing Balance	(44,679)			
Total	\$1,844,017	\$1,904,800	\$1,887,000	(\$17,800)
Expenditures				
Personal Services	\$1,436,146	\$1,486,000	\$1,468,600	(\$17,400)
In-State Travel	673	700	700	
Out of State Travel	3,205	6,200	6,200	
Current Expense	374,126	390,200	396,400	6,200
DP Current Expense	14,706	15,100	15,100	
Capital Outlay	15,161	6,600		(6,600)
Total	\$1,844,017	\$1,904,800	\$1,887,000	(\$17,800)
FTE	28.1	30.0	30.0	

Purpose The Bureau of Environmental Chemistry and Toxicology provides testing of water, soil, and air to monitor the environment to assure compliance with health and safety standards, and to respond to emergencies such as chemical spills. The Bureau also provides drug and alcohol analysis needed by law enforcement agencies to support driving under the influence violations, including automobile homicide. In addition, the Bureau provides testing for drug, alcohol, and other poisons in autopsy specimens to assist the Office of the Medical Examiner in determining the cause and manner of death.

The following table shows the laboratory workload for this bureau for the fiscal years 1996 through 1999.

LABORATORY WORKLOAD (Tests)				
	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
Inorganic Chemistry Section	95,540	112,122	103,540	120,804
Radiation Chemistry	756	418	532	624
Organic Chemistry	2,396	2,630	3,960	3,412
Law Enforcement Toxicology	11,941	12,579	13,577	12,231
Medical Examiner Toxicology	6,768	6,188	6,598	6,752
Totals	<u>117,401</u>	<u>133,937</u>	<u>128,207</u>	<u>143,823</u>

3.3 Laboratory Improvement

Recommendation The Analyst has recommended a budget for this Bureau of \$901,900 for FY 2001. The recommended General Fund level of \$405,200 is slightly more than the FY 2000 estimated level.

The recommended level of dedicated credits of \$385,900 is the amount projected to be collected from laboratory fees.

	FY 1999	FY 2000	FY 2001	Est/Analyst
Financing	Actual	Estimated	Analyst	Difference
General Fund	\$449,400	\$397,300	\$405,200	\$7,900
General Fund, One-time		1,300		(1,300)
Federal Funds	90,967	129,000	110,800	(18,200)
Dedicated Credits Revenue	386,819	387,000	385,900	(1,100)
Lapsing Balance	(73,888)			
Total	\$853,298	\$914,600	\$901,900	(\$12,700)
Expenditures				
Personal Services	\$714,253	\$757,400	\$748,900	(\$8,500)
In-State Travel	3,621	5,300	4,800	(500)
Out of State Travel	40,632	46,400	45,200	(1,200)
Current Expense	83,655	94,300	91,800	(2,500)
DP Current Expense	11,137	11,200	11,200	
Total	\$853,298	\$914,600	\$901,900	(\$12,700)
FTE	18.5	18.5	18.5	

Purpose The Bureau of Laboratory Improvement sets and enforces standards for those laboratories that perform tests that impact public health.

The following table shows the total number of laboratory service units (certifications and inspections, safety, training, internal quality assurances, and other support functions for the laboratory) accomplished during the past four years.

LABORATORY WORKLOAD (Tests)				
	FY 1996	FY 1997	FY 1998	FY 1999
Service Units	5,837	5,616	5,893	5,380
Sample receiving		3,776	6,218	6,785
Totals	5,837	9,392	12,111	12,165

3.4 Microbiology

Recommendation

The Analyst recommends a total FY 2001 budget of \$1,851,200, with \$563,900 from the General Fund.

This budget has increased since last year, due mostly to the following three factors: (1) a new federal grant for bioterrorism added almost \$60,000, (2) a continuing federal grant dealing with emerging pathogens was increased by \$12,500, and (3) the newborn screening process was required to change methodology and has increased over \$200,000, funded from an increase in the fee for the screening from \$21.50 to \$28.50 (dedicated credits).

Approximately 2/3 of the dedicated credits come from metabolic screening fees, with the remainder from the other laboratory fees. The major portion of Revenue Transfers is for tests performed for other programs within the Department of Health, specifically the Bureaus of HIV/AIDS/TB Control and Epidemiology. Additional Revenue Transfers come from other departments of state government, specifically, the Department of Corrections for HIV testing, the Department of Environmental Quality, the Department of Natural Resources, and the Department of Public Safety.

	FY 1999	FY 2000	FY 2001	Est/Analyst
	Actual	Estimated	Analyst	Difference
Financing				
General Fund	\$482,300	\$559,500	\$563,900	\$4,400
General Fund, One-time		900		(900)
Federal Funds		131,500	175,000	43,500
Dedicated Credits Revenue	887,317	905,000	921,300	16,300
Transfers	207,994	186,800	191,000	4,200
Lapsing Balance	(110,339)			
Total	<u>\$1,467,272</u>	<u>\$1,783,700</u>	<u>\$1,851,200</u>	<u>\$67,500</u>
Expenditures				
Personal Services	\$933,924	\$1,011,000	\$1,024,700	\$13,700
Out of State Travel	4,583	11,500	13,000	1,500
Current Expense	500,943	706,100	788,500	82,400
DP Current Expense	17,154	20,100	25,000	4,900
DP Capital Outlay	10,668			
Capital Outlay		35,000		(35,000)
Total	<u>\$1,467,272</u>	<u>\$1,783,700</u>	<u>\$1,851,200</u>	<u>\$67,500</u>
FTE	21.0	21.1	21.6	0.5

Purpose

The Bureau of Microbiology provides laboratory support services for local health departments; hospitals, clinics, labs, and physicians throughout Utah; the Utah Department of Agriculture; State Mosquito Abatement; the Department of Environmental Quality; the Division of Community and Family Health Services; and the State Medical Examiner. The areas of support include newborn screening, HIV, sexually-transmitted diseases, arbovirus surveillance, virology, rabies testing, bacteriology, mycology, mycobacteriology, parasitology, as well as outbreak control (food and waterborne), and testing of swimming pools, drinking water, water pollution, water microbiology, drinking water parasitology, and virology.

The following table shows the bureau's workload for the past several years.

LABORATORY WORKLOAD (Tests)				
	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
Bacteriology Section	48,197	45,251	43,005	43,065
Virology Section	72,275	71,405	70,945	65,966
Immunology Section *	125,336	74,557	70,799	52,387
Newborn Screening	198,526	212,495	220,431	228,273
Molecular Biology				592
Totals	<u>444,334</u>	<u>403,708</u>	<u>405,180</u>	<u>390,283</u>

* The Immunology figure in FY 1997 and FY 1998 reflect the loss of federal funds for seroprevalence of HIV in newborns.

3.5 HIV/AIDS/TB Control/Refuge Health

Recommendation

The Analyst recommends \$4,164,900 for this bureau for FY 2001. Federal funds comprise the largest single source of funding for this bureau – over 80 percent of the total budget comes from the Ryan White grant and AIDS prevention and surveillance. The bureau also receives funding from the Department of Workforce Services for TB treatment for refugees, which is included as a Revenue Transfer.

	FY 1999	FY 2000	FY 2001	Est/Analyst
Financing	Actual	Estimated	Analyst	Difference
General Fund	\$690,100	\$715,800	\$708,700	(\$7,100)
General Fund, One-time		1,200		(1,200)
Federal Funds	3,237,485	3,346,100	3,349,500	3,400
Transfers	119,955	106,800	106,700	(100)
Lapsing Balance	2,846			
Total	\$4,050,386	\$4,169,900	\$4,164,900	(\$5,000)
Expenditures				
Personal Services	\$888,135	\$985,300	\$972,500	(\$12,800)
In-State Travel	12,192	12,600	12,600	
Out of State Travel	18,141	29,700	29,700	
Current Expense	1,552,376	2,054,500	2,057,500	3,000
DP Current Expense	51,377	35,100	33,400	(1,700)
Other Charges/Pass Thru	1,528,165	1,052,700	1,059,200	6,500
Total	\$4,050,386	\$4,169,900	\$4,164,900	(\$5,000)
FTE	22.2	20.9	20.9	

Purpose

The Bureau of HIV/AIDS, Tuberculosis Control and Refugee Health focuses its efforts in the five major areas of (1) HIV Prevention, (2) Surveillance of HIV and AIDS and Tuberculosis, (3) HIV/AIDS Treatment and Care, (4) Tuberculosis Control, and (5) Refugee Health. Services are provided by bureau staff and through contracts with other governmental agencies, local health departments, private agencies, and community-based organizations. Federal funding sources are the Centers for Disease Control and Prevention (CDC); Health Resources Services Administration (HRSA); Administration for Children and Families, Office of Refugee Resettlement, Department of Health and Human Services; and the Office of Family Support, Utah Department of Workforce Services.

The mission of the Bureau of HIV/AIDS/TB Control/Refugee Health is to protect the public health by:

1. documenting and analyzing the incidence and prevalence of tuberculosis and HIV disease,
2. implementing strategies to prevent and control tuberculosis and HIV infection, and
3. providing treatment and care services to refugees and other individuals with HIV disease or tuberculosis.

**HIV/AIDS
Prevention
Education Program**

The goal of the HIV/AIDS Education Program is to provide education and training programs which emphasize reduction and prevention for diverse populations, including individuals at high risk (men who have sex with men, youth, women, injecting drug users, and ethnic populations).

The Community Planning Committee (CPC) was mandated by the Centers for Disease Control and Prevention in 1994. Every state is required to establish a planning committee that is representative of the epidemic for their state. The Utah Community Planning Committee was established in 1994 and helps to develop a comprehensive HIV prevention plan for the State.

Counseling, Testing,
Referral, Partner
Notification (CTRPN)

This program provides confidential HIV/AIDS pre- and post-test counseling, testing, and referral. Approximately 6,500 individuals are tested annually at clinic sites (local health departments). Another 100 individuals who have reported occupational exposures and the source patients involved in those exposures also receive services. Nearly 450 individuals test at a designated anonymous test site at Salt Lake City/County Health Department. Partner counseling was provided to at least 47 individuals and 94 of their partners received counseling and referral services in FY 1999. Other services include post-test positive counseling at the Utah State Prison where HIV testing is mandatory by statute. The program also specifically handles other counseling and testing activities involved in several judicial statutes that pertain to individuals exposed through sexual assaults, prostitution, and child abuse situations.

**HIV/AIDS
Surveillance
Program**

Surveillance program activities include public health efforts to study HIV/AIDS morbidity and prevalence within the state. HIV/AIDS data are analyzed by demographic factors, i.e. race, risk, age, and gender in order to determine infection trends and to formulate strategies.

The incidence rate of new cases has been decreasing over the past couple of years, as is shown in the following table.

<u>New Cases</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u> *
HIV	53	88	69	37	35
AIDS	158	187	149	143	85
Total	211	275	218	180	120

* through July 1999

The Surveillance Program also documents tuberculosis infection and disease in Utah. The program works closely with laboratories and health providers in order to encourage disease reporting to the Department.

**HIV/AIDS
Treatment and Care**

The goal of the Title II program is to provide for the development, organization, coordination, and operation of a more effective and cost-effective system for the delivery of essential services to individuals and families with HIV disease. Individuals and their families affected by HIV are provided essential health and support services if they are not covered or are under-insured by private health insurance and do not qualify for Medicaid, Medicare, or other state or local programs. These activities are accomplished primarily through an HIV care consortium, a home and community based care program, and an HIV drug assistance program.

The home health program, established in 1990, provides the following services: homemaker, health aide, personal care, routine diagnostic tests administered in the home and durable medical equipment.

The AIDS Drug Assistance Program (ADAP), established in 1987, assists people living with HIV/AIDS to access AIDS-related medications.

The Health Insurance Continuation Program pays all or part of a person's health insurance premium if the person has HIV disease and is eligible to COBRA their health benefits. A premium payment program assists individuals with HIV disease who are not eligible for other insurance coverage, to obtain insurance through the Utah Comprehensive Health Insurance Pool (HIP), by providing monthly premium payments.

Consortium services provide individuals with HIV the following services: dental services, mental health counseling, transportation, benefits advocacy, eye exams and glasses, legal advocacy, information on living with HIV disease, nutrition services, and substance abuse services.

Between July 1996 and June 1999, a total of 525 individuals received AIDS drugs, another 41 received home health services and 68 received insurance continuation. The table below reflects the increase of use of services by individuals who have been diagnosed with HIV.

	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
ADAP	125	180	220
Home Health	12	17	12
Insurance Continuation	12	18	30

**Tuberculosis (TB)
Control Program**

The goal of the Tuberculosis (TB) Control Program is to reduce the incidence of TB in Utah through prompt identification and treatment of active TB cases, and the investigation and treatment of those who may have been in contact with someone with active TB. Medications, medical expertise, and public health nursing are provided at no charge to the client. The program also provides preventive treatment to those with TB infection that has not progressed to the disease.

TB is a preventable disease, but if contracted is curable, when promptly and properly treated. The Program follows the guidelines established by the CDC for treatment, isolation, and testing. Cases in Utah are consistently treated with four-drug therapy because of persistent drug resistance. Homeless and foreign-born individuals are most susceptible to TB disease and infection in Utah.

Between January 1995 and August 31, 1999, a total of 276 cases of active TB were reported and treatment was initiated. Between January 1, 1999 and August 31, 1999, four cases of drug-resistant TB were reported and treated.

<u>TB Cases</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>
TB Cases	48	58	36	52	26
Drug-resistant case:	7	7	3	7	4

Refugee Health Program

This federally-funded program provides health screening and follow-up to newly arriving refugees in the State. Health screening is essential to protect Utah's resident population from exposure to communicable diseases and related problems.

From January 1, 1999 through August 31, 1999, refugees arrived in Utah, primarily from Bosnia, Croatia, Somalia, and Iraq. Most of the refugees have one or more medical conditions which require follow-up care. Local health departments and resettlement agencies identified 4 refugees who were infected with TB upon admission to the United States. No cases of active TB disease have been identified in newly arriving refugees during the past two years.

<u>Refugees</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u> *
Total Refugees	827	1,200	627	615
Refugees with Active TB	5	15	11	4

* through 8/31/99

3.6 Food Safety and Environmental Health

Recommendation

The Analyst recommends a budget of \$433,200 for this bureau for FY 2001. The recommended level of \$14,000 of Revenue Transfer comes from the State Office of Education for its summer food inspection program at various schools throughout the State. The inspections are required by the Department of Education and are done by the local health departments.

	FY 1999	FY 2000	FY 2001	Est/Analyst
Financing	Actual	Estimated	Analyst	Difference
General Fund	\$407,800	\$421,200	\$419,200	(\$2,000)
General Fund, One-time		700		(700)
Transfers	14,960	14,000	14,000	
Lapsing Balance	578			
Total	<u>\$423,338</u>	<u>\$435,900</u>	<u>\$433,200</u>	<u>(\$2,700)</u>
Expenditures				
Personal Services	\$198,066	\$195,600	\$193,400	(\$2,200)
In-State Travel	2,645	3,700	3,800	100
Out of State Travel	675	1,700	1,700	
Current Expense	13,445	19,950	19,100	(850)
DP Current Expense	1,526	2,450	2,700	250
Other Charges/Pass Thru	206,981	212,500	212,500	
Total	<u>\$423,338</u>	<u>\$435,900</u>	<u>\$433,200</u>	<u>(\$2,700)</u>
FTE	3.5	3.5	3.5	

Purpose

The Bureau of Food Safety and Environmental Health, in conjunction with local health departments, protects the health of Utahns and visitors to the state from many agents of disease. Responsibilities include food protection, plumbing code, clean indoor air, swimming pools, recreation areas, schools, hotels and motels, and public buildings. The Bureau serves as the health expert on inter-agency committees; develops state rules; implements compliance monitoring procedures and standards; provides technical assistance, training, and consultation to local health departments, other agencies, industry and the public; serves as health liaison with many federal agencies; assesses health protection needs; and evaluates the service delivery system in order to make policy recommendations.

3.7 Epidemiology

Recommendation

The Analyst recommends a funding level of \$1,688,100 for the Epidemiology program for FY 2001. Federal funding is projected to be decreased by over \$100,000, mainly due to decreases in the hantavirus grant and health hazard grant. The \$58,800 listed as Revenue Transfer comes from the Immunization program within the Division of Community and Family Health Services for data management and surveillance.

	FY 1999	FY 2000	FY 2001	Est/Analyst
Financing	Actual	Estimated	Analyst	Difference
General Fund	\$535,700	\$548,200	\$542,700	(\$5,500)
General Fund, One-time		1,300		(1,300)
Federal Funds	756,975	1,200,300	1,086,600	(113,700)
Transfers	51,703	58,400	58,800	400
Lapsing Balance	(37,259)			
Total	\$1,307,119	\$1,808,200	\$1,688,100	(\$120,100)
Expenditures				
Personal Services	\$852,793	\$1,135,900	\$1,131,000	(\$4,900)
In-State Travel	5,964	24,200	19,300	(4,900)
Out of State Travel	20,748	37,800	31,700	(6,100)
Current Expense	175,811	293,700	232,900	(60,800)
DP Current Expense	33,222	21,100	18,700	(2,400)
Other Charges/Pass Thru	218,581	295,500	254,500	(41,000)
Total	\$1,307,119	\$1,808,200	\$1,688,100	(\$120,100)
FTE	21.6	23.9	24.0	0.1

Purpose

The Bureau of Epidemiology is responsible for the detection, investigation, and control of communicable and infectious diseases. The Bureau operates three programs:

- Communicable Disease Control
- Environmental Epidemiology
- Sexually Transmitted Disease Control

The Bureau provides assistance and training to local health departments, physicians, hospitals, and schools. The agency also identifies carriers of sexually transmitted diseases and provides partner notification services.

Communicable Disease Control

The goal of this program is to quickly identify disease outbreaks and prevent their spread as well as to provide assistance to citizens and health care providers regarding communicable and infectious diseases.

Standard epidemiological methods include surveillance of disease to determine baseline levels and recognize disease outbreaks; investigation of outbreaks, both of known and newly recognized pathogens; characterization of risk factors; and evaluations of interventions.

The Center for Disease Control and Prevention provided grant money to improve epidemiological and laboratory capacity for the control of infectious diseases. The five-year grant began in September 1997. In addition, the CDC provided grant funds to improve the public health response to bioterrorism.

The following table shows a sampling of the cases handled by this program.

<u>Number of Cases Reported</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999 Est.</u>
Viral Hepatitis (all types)	1,224	648	284	110
Salmonellosis	525	271	355	550
Shigellosis	307	101	48	70

Environmental Epidemiology

In recent years, scientists and the public have become more aware that some occupational and environmental exposures present a serious risk of chronic illness, disability, and even death. In order to identify and evaluate these risks, this program conducts a variety of investigations and gathers information regarding a variety of exposures.

Three new grants were received this year, “Asthma Surveillance”, “Child Lead (Medicaid)”,” and “Hazard Assessment for Emergency Events”. The grants increase surveillance capacity and assessment expertise for occupational and environmental diseases.

This program provides assistance and consultation to staff in the Department, other state agencies, local health departments, health care providers, and to the general public regarding issues related to environmental health and infection control. A historical summary of the program's activities is shown in the following table.

<u>Activities</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999 Est.</u>
Consultations provided	550	237	396	400
Investigations conducted	46	28	24	26
Elevated blood lead levels				
Adults	129	263	186	190
Children	95	71	97	60

Sexually Transmitted Diseases (STDs)

More than 40 sexually transmissible diseases are known to occur in Utah. Major efforts concern the control of gonorrhea, syphilis, chlamydia, and herpes through identifying and treating patients and their sexual contacts in order to decrease the rate of new infections. The following table shows the STD cases identified since 1996.

<u>Number of Cases Identified</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999 Est.</u>
Syphilis (Primary & Secondary)	3	5	4	4
Gonorrhea	277	278	235	220
Chlamydia	1,598	1,760	2,216	2,100

4.0 Additional Information: Epidemiology and Laboratory Services

4.1 Funding History

	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Financing	Actual	Actual	Actual	Estimated	Analyst
General Fund	\$4,712,600	\$4,380,300	\$4,495,000	\$4,626,400	\$4,598,400
General Fund, One-time				10,800	
Federal Funds	2,598,060	3,266,034	4,085,427	4,806,900	4,721,900
Dedicated Credits Revenue	1,486,063	1,584,971	1,604,757	1,602,000	1,622,300
GFR - State Lab Drug Testing Account			150,000	150,000	149,400
Transfers	409,271	506,435	488,591	454,000	459,200
Beginning Non-lapsing	234,724	501,024	320,419	430,400	
Closing Non-lapsing	(501,024)	(320,418)	(430,419)		
Lapsing Balance	(12,439)	(10,136)	(23,847)		
Total	\$8,927,255	\$9,908,210	\$10,689,928	\$12,080,500	\$11,551,200
% Change		11.0%	7.9%	13.0%	-4.4%
Programs					
E.L.S. Director's Office	\$856,437	\$894,118	\$744,498	\$1,063,400	\$624,900
Environmental Chemistry and Toxicology	1,723,578	1,799,582	1,844,017	1,904,800	1,887,000
Laboratory Improvement	801,509	868,928	853,298	914,600	901,900
Microbiology	1,335,747	1,443,059	1,467,272	1,783,700	1,851,200
HIV/AIDS/TB Control/Refugee Health	2,732,450	3,242,460	4,050,386	4,169,900	4,164,900
Food Safety and Environmental Health	415,407	425,184	423,338	435,900	433,200
Epidemiology	1,062,127	1,234,879	1,307,119	1,808,200	1,688,100
Total	\$8,927,255	\$9,908,210	\$10,689,928	\$12,080,500	\$11,551,200
Expenditures					
Personal Services	\$5,062,628	\$5,489,007	\$5,463,948	\$5,995,900	\$5,959,300
In-State Travel	23,570	27,158	25,988	47,400	42,000
Out of State Travel	84,250	74,357	92,867	138,300	132,500
Current Expense	2,389,145	2,990,446	2,785,539	3,658,750	3,682,000
DP Current Expense	252,275	236,815	218,742	207,450	209,200
DP Capital Outlay	27,335	5,877	10,668		
Capital Outlay	249,203	261,872	138,449	472,000	
Other Charges/Pass Thru	838,849	822,678	1,953,727	1,560,700	1,526,200
Total	\$8,927,255	\$9,908,210	\$10,689,928	\$12,080,500	\$11,551,200
FTE	115.1	119.2	123.8	125.9	126.5

4.1 Federal Funds

Program		FY 1999 Actual	FY 2000 Estimated	FY 2001 Analyst
Laboratory Improvement	Federal	\$90,967	\$129,000	\$110,800
CLIA	Required State Match	0	0	0
	Total	90,967	129,000	110,800
Microbiology	Federal	0	131,500	175,000
Bioterrorism	Required State Match	0	0	0
	Total	0	131,500	175,000
HIV/AIDS/TB Control/Refugee Health	Federal	25,800	25,800	25,800
Preventative Block Grant	Required State Match	0	0	0
	Total	25,800	25,800	25,800
HIV/AIDS/TB Control/Refugee Health	Federal	720,735	765,200	770,600
AIDS Prevention	Required State Match	0	0	0
	Total	720,735	765,200	770,600
HIV/AIDS/TB Control/Refugee Health	Federal	177,024	152,400	152,400
AIDS Surveillance	Required State Match	0	0	0
	Total	177,024	152,400	152,400
HIV/AIDS/TB Control/Refugee Health	Federal	1,390,368	2,061,500	2,059,500
Ryan White Federal Grant	Required State Match	0	0	0
	Total	1,390,368	2,061,500	2,059,500
HIV/AIDS/TB Control/Refugee Health	Federal	248,076	287,600	287,600
TB Elimination	Required State Match	0	0	0
	Total	248,076	287,600	287,600
HIV/AIDS/TB Control/Refugee Health	Federal	48,950	53,600	53,600
Refugee General	Required State Match	0	0	0
	Total	48,950	53,600	53,600
HIV/AIDS/TB Control/Refugee Health	Federal	621,928	0	0
Ryan White Federal Grant	Required State Match	0	0	0
	Total	621,928	0	0
HIV/AIDS/TB Control/Refugee Health	Federal	4,604	0	0
HIV Prevention Conference	Required State Match	0	0	0
	Total	4,604	0	0

Program		FY 1999 Actual	FY 2000 Estimated	FY 2001 Analyst
Epidemiology	Federal	92,836	93,700	91,200
Preventive Block Grant	Required State Match	0	0	0
	Total	92,836	93,700	91,200
Epidemiology	Federal	184,856	229,500	215,300
STD Federal Grant	Required State Match	0	0	0
	Total	184,856	229,500	215,300
Epidemiology	Federal	140,735	212,500	161,900
Hantavirus Federal Grant	Required State Match	0	0	0
	Total	140,735	212,500	161,900
Epidemiology	Federal	47,437	0	0
Child NLB Lead	Required State Match	0	0	0
	Total	47,437	0	0
Epidemiology	Federal	205,350	219,700	209,700
Infectious Diseases	Required State Match	0	0	0
	Total	205,350	219,700	209,700
Epidemiology	Federal	59,513	95,200	80,700
Work-Related Burns	Required State Match	0	0	0
	Total	59,513	95,200	80,700
Epidemiology	Federal	26,249	117,000	82,500
Health Hazard	Required State Match	0	0	0
	Total	26,249	117,000	82,500
Epidemiology	Federal	0	95,300	95,300
Child Lead Prevention	Required State Match	0	0	0
	Total	0	95,300	95,300
Epidemiology	Federal	0	99,500	99,500
Child Lead Med	Required State Match	0	0	0
	Total	0	99,500	99,500
Epidemiology	Federal	0	37,900	50,500
Surv Hazard EE	Required State Match	0	0	0
	Total	0	37,900	50,500
	Federal	4,085,428	4,806,900	4,721,900
	Required State Match	0	0	0
	Total	\$4,085,428	\$4,806,900	\$4,721,900

4.3 Fees

	Current FY 1999-00	Proposed FY 2000-01	Difference	Projected Revenue
EPIDEMIOLOGY AND LABORATORY SERVICES				
Bureau of Environmental Chemistry and Toxicology				
Chain of Custody Sample Handling	10.00	10.00	0.00	1,100
Priority Handling of Samples (Surcharge)				
Minimum charge	10.00	10.00	0.00	30
Expert Preparation Time (Research), per hour	25.00	25.00	0.00	50
Expert Witness Fee (Portal to Portal), per hour	50.00	50.00	0.00	150
Drinking Water Tests				
Lead and Copper (Metals Type 8)	28.00	28.00	0.00	16,800
Drinking Water Organic Contaminants				
THMs EPA Method 502.2	75.00	75.00	0.00	15,000
Maximum Total Potential THM Method 502.2	80.00	80.00	0.00	640
Other Drinking Water Organic Tests:				
Haloacetic Acids Method 6251B	130.00	130.00	0.00	26,000
Haloacetonitriles Method 551	100.00	100.00	0.00	0
TOX	100.00	100.00	0.00	0
Chlorate/Chlorite	25.00	25.00	0.00	500
Chloral Hydrate/THM	100.00	100.00	0.00	0
Bromide	25.00	25.00	0.00	0
Bromate	30.00	30.00	0.00	600
Chlorite	25.00	25.00	0.00	0
Ion Chromatography (multiple ions)	50.00	50.00	0.00	12,500
UV Absorption	15.00	15.00	0.00	750
TOC	20.00	20.00	0.00	4,020
Primary Inorganics and Heavy Metals				
(Type 9 Chemistry) (18 parameters)	250.00	250.00	0.00	25,000
New Drinking Water Sources				
(Total Inorganic Chemistry - 46 parameters)	525.00	525.00	0.00	26,250
Drinking Water Inorganic Tests:				
Nitrate <u>plus nitrite</u>	20.00	<u>12.00</u>	(8.00)	204
Nitrite	20.00	20.00	0.00	360
VOCs (combined regulated and unregulated)	190.00	190.00	0.00	12,920
VOCs (Unregulated List 1 & List 3)	190.00	190.00	0.00	0
Pesticides (combined regulated and unregulated)	875.00	875.00	0.00	52,500
<u>2,3,7,8-TCDD (Dioxin) Subcontract Price, plus handling fee</u>				
Pesticides (List II: 10 unregulated contaminants)	650.00	650.00	0.00	0
Unregulated Organics (Lists 1, 2 & 3)	825.00	825.00	0.00	24,750
Unregulated VOC List 1 (by itself)	190.00	190.00	0.00	0
Unregulated VOC List 3 (by itself)	190.00	190.00	0.00	0
Unregulated VOC List 1 & 3	190.00	190.00	0.00	0
Inorganics Tests (per sample for preconcentration)	15.00	15.00	0.00	0
Type 1 - Individual water chemistry parameters				
Alkalinity (Total)	9.00	9.00	0.00	0
Aluminum	17.00	17.00	0.00	0
Ammonia	16.00	<u>20.00</u>	4.00	0
Antimony	17.00	17.00	0.00	0
Arsenic	17.00	17.00	0.00	0
Barium	12.00	12.00	0.00	0
Beryllium	12.00	12.00	0.00	0

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BOD ₅	30.00	30.00	0.00	3,000
Boron	12.00	12.00	0.00	0
Cadmium	17.00	17.00	0.00	0
Calcium	12.00	12.00	0.00	0
Chromium	17.00	17.00	0.00	0
Chromium (Hexavalent)	25.00	25.00	0.00	0
Chloride	8.00	8.00	0.00	0
Chloride (IC)	30.00	30.00	0.00	3,000
Chlorophyll A	20.00	20.00	0.00	1,340
COD	20.00	20.00	0.00	0
Color	20.00	20.00	0.00	0
Copper	12.00	12.00	0.00	0
Cyanide	45.00	45.00	0.00	0
Fluoride	9.00	9.00	0.00	0
Iron	12.00	12.00	0.00	0
Langlier Index (Calculation: pH, calcium, TDS, alkalinity)	5.00	5.00	0.00	0
Lead	17.00	17.00	0.00	510
Lithium	12.00	12.00	0.00	360
Magnesium	12.00	12.00	0.00	0
Manganese	12.00	12.00	0.00	0
Mercury	25.00	25.00	0.00	0
Molybdenum	12.00	12.00	0.00	0
Nickel	17.00	17.00	0.00	0
Nitrogen, Total Kjeldahl (TKN)	30.00	30.00	0.00	0
Nitrate	20.00	0.00	(20.00)	0
Nitrite	20.00	20.00	0.00	0
Nitrate and <u>plus</u> Nitrite	12.00	12.00	0.00	6,360
Odor	25.00	25.00	0.00	0
Perchlorate	30.00	30.00	0.00	900
pH	5.00	<u>10.00</u>	5.00	0
Phosphate, ortho	20.00	20.00	0.00	0
Phosphorus, total	15.00	15.00	0.00	5,475
Potassium	12.00	12.00	0.00	0
Selenium	17.00	17.00	0.00	0
Silica	15.00	15.00	0.00	0
Silver	17.00	17.00	0.00	0
Sodium	12.00	12.00	0.00	0
Solids, Total Dissolved (TDS)	13.00	13.00	0.00	0
Solids, Total Suspended (TSS)	13.00	13.00	0.00	0
Solids, Settable (SS)	13.00	13.00	0.00	0
Solids, Total Volatile	15.00	15.00	0.00	0
Solids, Percent	13.00	13.00	0.00	0
Solids, Residual Suspended	25.00	25.00	0.00	0
Specific Conductance	9.00	9.00	0.00	0
Surfactants	60.00	60.00	0.00	0
Sulfate	15.00	15.00	0.00	2,400
Sulfide	40.00	40.00	0.00	0
Thallium	17.00	17.00	0.00	0
Tin	17.00	17.00	0.00	0
Turbidity	10.00	10.00	0.00	0
Vanadium	12.00	12.00	0.00	0
Zinc	12.00	12.00	0.00	0
Zirconium	17.00	17.00	0.00	0

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Inorganic Chemistry Groups:				
Type 2 - Partial Chemistry (19 Major Anions/Cations)	110.00	110.00	0.00	5,500
Type 4 - Total Surface Water Chemistry (33 parameters, Metals are dissolved)	270.00	270.00	0.00	7,290
Type 5 - Total Surface Water Chemistry (33 parameters as in Type 4, Metals are acid soluble)	270.00	270.00	0.00	7,290
Type 6 - Total Surface Water Chemistry (33 parameters as in Type 4, Metals are totals)	270.00	270.00	0.00	7,290
Metals Tests:				
Type 1 - Metals (Tissues, Paint, Sediment, Soil)	16.00	16.00	0.00	320
Sample preparation	20.00	20.00	0.00	0
Type 2 - Acid Soluble Metals (12 Metals - Acidified, Unfiltered Water - No Digestion)	145.00	145.00	0.00	0
Type 3 - Dissolved metals (12 Metals - No Digestion)	145.00	145.00	0.00	3,625
Type 7 - Total Metals In Water (12 Metals - Digested)	195.00	195.00	0.00	0
Nutrient Tests:				
Type 9 - 4 parameters	65.00	65.00	0.00	0
Organics Tests				
BTEXN (Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene)	75.00	75.00	0.00	0
EPA 8020 (BETXN soil)	75.00	75.00	0.00	0
Chlorinated Pesticides (Soil) 8081	175.00	175.00	0.00	0
Chlorinated Acid Herbicides (Soil) 8150	250.00	250.00	0.00	0
EPA 8270 Semi Volatiles	400.00	400.00	0.00	0
EPA 8260 (VOCs)	200.00	200.00	0.00	0
Ethylene Glycol in water	75.00	75.00	0.00	0
Aldehydes (Air) TO-11	85.00	85.00	0.00	0
Oil and Grease	100.00	100.00	0.00	700
EPA 508A Total PCBs	200.00	200.00	0.00	0
EPA 8082 PCBs	175.00	175.00	0.00	0
PCBs in oil	75.00	75.00	0.00	0
PCE	75.00	75.00	0.00	1,500
Aromatic VOCs (602)	75.00	75.00	0.00	0
EPA Method 625 Base/Neutral Acids by GC/MS	400.00	400.00	0.00	0
Total Organic Carbon (TOC)	30.00	30.00	0.00	0
Total Petroleum Hydrocarbons (non-BTEX)	75.00	75.00	0.00	900
Volatiles (Purgeables - EPA Method 624)	200.00	200.00	0.00	0
EPA Method 504 EDB	90.00	90.00	0.00	0
EPA Method 505 PCB and Organochlorine Pesticides	150.00	150.00	0.00	0
EPA Method 531.1 N-Methy Carbamates and Carbamoyloximes	200.00	200.00	0.00	4,000
EPA Method 515.1 Chlorinated Acids and Herbicides	200.00	200.00	0.00	4,000
EPA Method 525.2 Semivolatiles (A/B/Na) by GC/MS	350.00	350.00	0.00	7,000
EPA Method 524.2 VOCs (Volatiles Purge and Trap) by GC/MS	190.00	190.00	0.00	3,800
Miscellaneous Organic Chemistry				
TCLP - Extraction procedure	100.00	100.00	0.00	0
TCLP Zero Headspace Extraction (ZHE)	160.00	160.00	0.00	0
Corrosivity (HW)	15.00	15.00	0.00	0
Ignitability	60.00	60.00	0.00	0

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Reactive Sulfide	60.00	60.00	0.00	0
Reactive Cyanide	60.00	60.00	0.00	0
Radiochemistry				
Gross alpha or beta	60.00	60.00	0.00	4,200
Gross alpha and beta	60.00	60.00	0.00	0
Radium226, (Deemanation)	125.00	125.00	0.00	2,500
Radium228, (ppt/separation)	155.00	155.00	0.00	3,100
Uranium (Total Activity)	100.00	100.00	0.00	900
Uranium (ICP/MS)	50.00	50.00	0.00	500
Radon by Liquid Scintillation	75.00	<u>65.00</u>	(10.00)	2,015
Tritium	80.00	80.00	0.00	0
Gamma Spectroscopy By HPGe (water and solid samples.) Analysis includes nuclide identification and quantitation, per nuclide	150.00	150.00	0.00	3,000
Toxicology				
Alcohol in Beverage or Urine	25.00	25.00	0.00	0
Blood alcohol	40.00	40.00	0.00	0
Blood or Tissue Drug Analysis	200.00	200.00	0.00	0
Blood Cannabinoids	200.00	200.00	0.00	0
Cannabinoid (Marijuana) ADX Screen (Urine)	25.00	25.00	0.00	0
Cannabinoids ADX Screen (Blood)	30.00	30.00	0.00	0
Cocaine ADX Screen	25.00	25.00	0.00	0
Confirmation of positive drug screens	50.00	50.00	0.00	1,950
Confirmation of positive urine cannabinoid screen	60.00	60.00	0.00	0
Drug preparations (identification or quantitation)	50.00	50.00	0.00	0
Expert testimony (portal to portal), per hour	50.00	50.00	0.00	150
Opiate ADX Screen	25.00	25.00	0.00	0
Bureau of Laboratory Improvement				
Environmental Laboratory Certification				
Annual certification fee (chemistry and/or microbiology) (Laboratories applying for certification are subject to the annual certification fee, plus the fee listed for each category in each they are to be certified.)				
Utah laboratories	450.00	450.00	0.00	24,300
Out of state laboratories (plus travel expenses)	2,000.00	<u>2,500.00</u>	500.00	100,000
Reciprocal certification fee	350.00	350.00	0.00	23,100
Certification change fee	50.00	50.00	0.00	0
Safe Drinking Water by Analyte and Method				0
Microbiological - Each Method	40.00	40.00	0.00	2,200
Inorganic test procedure each method				0
Group I	25.00	25.00	0.00	8,750
Group II	30.00	30.00	0.00	4,200
Miscellaneous each method				0
Group I	25.00	25.00	0.00	1,500
Group II	30.00	30.00	0.00	2,700
Group III	25.00	25.00	0.00	1,125
Organic Compounds each method				0
Group I	50.00	50.00	0.00	5,300
Group II	70.00	70.00	0.00	280
Group III	80.00	80.00	0.00	4,800
Group IV	160.00	160.00	0.00	3,200
Radiological each method	30.00	30.00	0.00	3,600
Clean Water by Analyte and Method				0

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Microbiological each method	40.00	40.00	0.00	2,200
<u>Toxicity Testing</u>		<u>150.00</u>	150.00	600
Inorganic test procedure each method				0
Group I	25.00	25.00	0.00	32,375
Group II	30.00	30.00	0.00	450
Group III	35.00	35.00	0.00	12,250
Organic Compounds each method				0
Group I	70.00	70.00	0.00	11,200
Group II	130.00	130.00	0.00	1,040
Group III	160.00	160.00	0.00	6,080
Radiological each method	30.00	30.00	0.00	2,100
RCRA by Analyte and Method				0
Microbiological each method	40.00	40.00	0.00	40
Inorganic test procedure each method				0
Group I	25.00	25.00	0.00	40,000
Group II	30.00	30.00	0.00	6,000
Miscellaneous Groups each method				0
Group I	25.00	25.00	0.00	9,000
Group II	30.00	30.00	0.00	3,450
Group III	35.00	35.00	0.00	3,500
Group IV	40.00	40.00	0.00	2,680
Radiological each method	30.00	30.00	0.00	1,350
Hazardous Waste Characteristics each method	35.00	35.00	0.00	4,900
Sample Extraction Procedures each method				0
Group I	30.00	30.00	0.00	4,200
Group II	25.00	25.00	0.00	250
Group III	70.00	70.00	0.00	8,750
Organic Compounds each method				0
Group I	70.00	70.00	0.00	11,130
Group II	80.00	80.00	0.00	1,600
Group III	130.00	130.00	0.00	7,800
Other Programs Analytes by Method				
Each individual analyte by each specific method	300.00	300.00	0.00	1,500
Travel expenses reimbursement for out of state environmental laboratory certifications	Cost Recovery	Cost Recovery		26,000
Permits for authorized individuals to withdraw blood for The purpose of determining alcohol or drug content.				
Triennial fee	20.00	20.00	0.00	600
Laboratories applying for certification are subject to the annual certification fee, plus the fee listed for each category in each they are to be certified.				
Impounded Animals Use Certification				
Annual fee	300.00	300.00	0.00	900
Bureau of Microbiology				
Immunology				
Hepatitis B Surface Antigen(HBsAg)	10.00	10.00	0.00	4,170
Hepatitis B Surface Antibody (HBsAb)	15.00	15.00	0.00	7,500
Hepatitis C	30.00	30.00	0.00	0
HIV-1 - Antibody (Note: this test includes a confirmatory Western Blot if needed)	10.00	10.00	0.00	31,150
HIV-1 - Confirmation (Note: this is for a Western Blot only, a reactive EIA is not required)	30.00	30.00	0.00	0
<u>HIV-1 - Orasure (includes confirmatory Western Blot)</u>		<u>20.00</u>	20.00	0

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Hantavirus	40.00	40.00	0.00	200
Syphilis RPR	5.00	5.00	0.00	25,000
Syphilis FTA	7.00	7.00	0.00	0
Rubella immune status	10.00	10.00	0.00	0
HIV prostitute law - research and testimony, per hour	100.00	100.00	0.00	0
Chain of Custody sample surcharge	10.00	10.00	0.00	400
Samples for research	5.00	5.00	0.00	0
Virology				
Herpes culture	10.00	10.00	0.00	0
Viral typing	135.00	135.00	0.00	0
Verotoxin bioassay	25.00	25.00	0.00	0
Gonorrhea (GenProbe collection kit req.)	4.50	4.50	0.00	22,500
Chlamydia (GenProbe collection kit req.) - Genprobe	6.00	6.00	0.00	114,000
GenProbe collection kit	2.50	2.50	0.00	40,905
Rabies	75.00	75.00	0.00	375
CMV culture	10.00	10.00	0.00	0
<u>Chlamydia LCR unpooled</u>		<u>15.00</u>	15.00	0
<u>Chlamydia LCR pooled</u>		<u>8.50</u>	8.50	0
<u>Gonorrhea LCR unpooled</u>		<u>15.00</u>	15.00	0
<u>Gonorrhea LCR pooled</u>		<u>8.50</u>	8.50	0
Bacteriology				
Clinical				
LCR Chlamydia	15.00		0.00	0
TB (bone marrow and blood samples only)	10.00	10.00	0.00	500
Direct TB test	300.00	300.00	0.00	0
Environmental				
Drinking water bacteriology	12.00	12.00	0.00	12,000
Swimming pool bacteriology (MF and HPC)	25.00	25.00	0.00	12,500
Polluted water bacteriology per parameter	12.00	12.00	0.00	0
Environmental legionella (swab)	7.00	7.00	0.00	0
Environmental legionella (water)	30.00	30.00	0.00	0
Water Microbiology				
Drinking water parasitology (Cryptosporidium and Giardia)				
Flow Proportioner, per day	25.00			0
Pump, per day	10.00			0
<u>Method 1623 analysis</u>		<u>300.00</u>	300.00	37,800
<u>Filter</u>		<u>100.00</u>	100.00	12,600
Drinking water virology (not including filter)	850.00			0
MPA	200.00	200.00	0.00	2,400
Bacillus subtilis	25.00	25.00	0.00	5,000
Crypto & Giardia by method 1622	300.00			0
ICC/PCR	100.00			0
PFGE	25.00	<u>30.00</u>	5.00	0
Food Microbiology				
Total and fecal coliform	20.00	20.00	0.00	0
Plate count, per dilution	15.00	15.00	0.00	0
pH and water activity	15.00	15.00	0.00	0
Clostridium perfringens, Staphylococcus aureus, and Bacillus cereus culture	75.00	75.00	0.00	0
Clostridium perfringens, Staphylococcus aureus, and Bacillus cereus toxin assay	270.00	270.00	0.00	0
Salmonella isolation and speciation	205.00	205.00	0.00	0

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Shigella isolation and speciation	50.00	50.00	0.00	0
Campylobacter isolation and speciation	65.00	65.00	0.00	0
Listeria isolation and speciation	140.00	140.00	0.00	0
E. coli O157:H7	90.00	90.00	0.00	0
Botulism toxin assay	125.00	125.00	0.00	0
Environmental swab	12.00	12.00	0.00	0
Coliform count	20.00	20.00	0.00	0
Newborn Screening:				
Routine first and follow-up screening	28.50	28.50	0.00	1,254,000
Diet Monitoring	7.00	7.00	0.00	0
Bureau of HIV/AIDS Tuberculosis Control/Refugee Health				
Notification and post-test counseling of patients involved in an emergency medical services (EMS) body fluid exposure.				
Counseling of an individual with a positive HIV antibody test.	Cost recovery	Cost recovery	0.00	0.00
Notification of an individual with a negative HIV antibody test by phone.	6.00	6.00	0.00	0
Notification of an individual with a negative HIV antibody test by certified letter and phone.	10.00	10.00	0.00	0
Counseling and Testing Workshops	385.00	385.00	0.00	0
HIV/AIDS education presentations:				
AIDS 101	40.00	40.00	0.00	0
Business Responds to AIDS	40.00	40.00	0.00	0
Emergency Medical Services	57.00	57.00	0.00	0

Other

The Laboratory performs a variety of tests under contract and in volume to other agencies of government. The charge for these services is determined according to the type of services and the test volume, and is based on the cost to the Laboratory and therefore may be lower than the fee schedule. Because of changing needs, the Laboratory receives requests for new tests or services that are impossible to anticipate and list fully in a standard fee schedule. Charges for these services are authorized and are to be based on costs.