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Annual Report on Utilization of State Research & Development Appropriations for Operations and State Research Capital Bonds Fiscal Year Ending June 30, 1999

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**ANNUAL REPORT ON UTILIZATION OF
STATE RESEARCH & DEVELOPMENT APPROPRIATIONS
FOR OPERATIONS
AND
STATE RESEARCH CAPITAL BONDS
FISCAL YEAR ENDING JUNE 30, 1999 (FY99)**



University of Maine System

Office of Finance and Treasurer

**December 30, 1999
Z63(27)**

UNIVERSITY OF MAINE SYSTEM

INTRODUCTION

The University of Maine System is required to submit in January of each year an annual report on the utilization of state research appropriations for operations and state research capital bonds. This report is to cover the most recently completed fiscal year. The following is the report for fiscal year 1999 (FY99) that covers the period from July 1, 1998 to June 30, 1999.

Because this report includes only activity for fiscal year 1999, excluded from this annual report is the additional appropriation of \$5,550,000 for research and development (R&D) that was made available beginning in fiscal year 2000 as well as the additional \$50,000 for FY2001. Also excluded was an appropriation of \$2,500,000 for fiscal year 2001 to be used to pay the debt service on \$25,000,000 of University bonds to be issued in the fall of 2000 for capital improvements to support research and development. Activity on these additional funds will be reported in subsequent annual reports (e.g., the FY2000 report).

EXECUTIVE SUMMARY

I. State Research Appropriations for Operations

The University of Maine System received an appropriation of \$500,000 in FY98 and an additional \$4,000,000 in FY99 bringing the total available for research in FY99 to \$4,500,000. The FY99 appropriation of \$4,500,000 was distributed between the University of Maine (UM - \$3,600,000) and the University of Southern Maine (USM - \$900,000).

Of the FY99 allocation of \$4.5 million, UM and USM (1) expended a total of \$2.1 million, (2) matched external grants & contracts with \$2.0 million, and (3) carried forward \$0.4 million in unspent funds to FY2000 for R&D use.

With these state research dollars, UMS was able to:

- 1. Attract \$18.9 million in external grant & contract funding (primarily federal), a ratio of 4.2 to 1.**
- 2. Support 303 positions.**

The State's \$4.5 million thus resulted in a total of \$23.4 million being made available for research & development.

The following is a summary of the utilization of state research appropriation funds during FY99.

Summary of Utilization of FY99 State Research Appropriations for Operations

	<u>FY99 Expenditures¹</u>	<u>Used to Match Grants & Contracts¹</u>	<u>Unused Funds Carried Forward to FY2000²</u>	<u>Total Funds Utilized</u>
<u>E&G Funds Utilized</u>				
UM	\$1,432,379	\$1,797,021	\$370,600	\$3,600,000
USM	<u>687,234</u>	<u>138,805</u>	<u>73,961</u>	<u>900,000</u>
Total E&G Funds	\$2,119,613	\$1,935,826	\$444,561	\$4,500,000
<u>Grants & Contracts Generated</u>				<u>18,858,188</u>
<u>Total Funds</u>				<u>\$23,358,188</u>

¹The research and development funding provided by the State of Maine was used to support (1) salaries of new faculty and staff, (2) start-up packages for new faculty (equipment, instrumentation, laboratory set-up, and computer purchases), (3) direct equipment purchases, and (4) matching funds for grants and/or contracts.

²The unused funds have been distributed to research units or principal investigators.

II. State Research Capital Bonds

On November 3, 1998, the voters of Maine approved a \$20.0 million bond issue to improve the Maine economy by supporting innovative research and development. The University of Maine System will receive \$13.5 million from this bond issue to be used for capital improvements and equipment purchases to support research and development. The bond proceeds will be distributed between the University of Maine (\$10,800,000) and the University of Southern Maine (\$2,700,000). Because this bond issue was approved after the beginning of fiscal year 1999 and because capital improvements and construction require a great deal of time prior to the commencement of major projects, the amount of funds from this bond issue that were spent in FY99 was relatively small. The FY2000 report will better reflect activity related to the fall 1998 bonds.

A summary of the utilization of state research capital bonds during FY99 is shown on the next page.

UNIVERSITY OF MAINE SYSTEM

FY99 SUMMARY OF STATE RESEARCH CAPITAL BONDS BY ACCOUNT/PROJECT

<u>Project Name</u>	<u>Attachment</u>	<u>Bond Portion</u>	<u>Other Funds</u>	<u>Total Project Budget</u>	<u>FY1999 Expenditures</u>	<u>Funds Carried Forward To FY2000</u>
<u>UM</u>						
Hitchner Expansion & Renovation	I	\$5,650,000	\$0	\$5,650,000	\$129,539	\$5,520,461
Food Science Building	II	3,250,000	544,220	3,794,220	84,440	3,709,780
Aquaculture Renovation & Expansion	III	700,000	0	700,000	18,402	681,598
Software Eng & Adv Materials Labs	IV	<u>1,200,000</u>	<u>0</u>	<u>1,200,000</u>	<u>208,768</u>	<u>991,232</u>
		\$10,800,000	\$544,220	\$11,344,220	\$441,149	\$10,903,071
<u>USM</u>						
Science Building Information/Bioscience	V	<u>\$2,700,000</u>	<u>0</u>	<u>\$2,700,000</u>	<u>\$9,368</u>	<u>\$2,690,632</u>
<u>TOTAL</u>		<u>\$13,500,000</u>	<u>\$544,220</u>	<u>\$14,044,220</u>	<u>\$450,517</u>	<u>\$13,593,703</u>

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UNIVERSITY OF MAINE SYSTEM

**FY99 NARRATIVE SUMMARY OF STATE RESEARCH CAPITAL
BONDS BY ACCOUNT/PROJECT**

UM

Account Number: 8-7-75163

Project Name: Hitchner Expansion & Renovation

Bond Fund Amount: \$5,650,000

Other Funds: \$0

Construction Start: mid 2000

Construction End: December 2001

Campus Contact: Name Dave Trefethen
 Department Facilities Management
 Phone/fax/e-mail 581-2675

Purpose of Project/Program(s) Involved:

Renovation to Hitchner Hall and construction of a new wing will address the acute need for new research space on campus. The goal of this project is to provide 8 to 10 new research laboratories and related support space. The addition to Hitchner will include the following: research laboratories of 500 to 1000 sq. ft. of usable space with adequate floor and open wall space for refrigerators, freezers, and incubators; faculty offices located adjacent to laboratory or in close proximity; adequately ventilated and cooled equipment rooms; adequate graduate student, research technician and post-doctoral space; and provision for some "long-term" storage. Needs that will be addressed in the renovation of Hitchner include the following: Addition of emergency back-up power; Adequate electrical input and line conditioning; Installation of adequate fume hoods in laboratories; Air conditioning and temperature control; Upgrade of benches in laboratories; General repair and refurbishing. The construction will improve U Maine's capability and productivity in molecular and cellular research. It will also serve to consolidate researchers using molecular and cellular biology techniques into a common modern facility.

Description of Construction Work:

Building design is in the early stages, but sketches show a 3-story brick structure.

ATTACHMENT II

UNIVERSITY OF MAINE SYSTEM

FY99 NARRATIVE SUMMARY OF STATE RESEARCH CAPITAL BONDS BY ACCOUNT/PROJECT

UM

Account Number:	8-7-75164
Project Name:	Food Science Building
Bond Fund Amount:	\$3,250,000
Other Funds:	\$544,220
Construction Start:	mid 2000
Construction End:	mid to late 2001
Campus Contact:	Name Dave Trefethan Department Facilities Management Phone/fax/e-mail 581-2675

Purpose of Project/Program(s) Involved:

The FSN facility will house: food processing pilot plant; chemical food safety laboratory; sensory evaluation facility; research/office space; food microbiology lab; physical properties of food laboratory; conference/seminar room; administrative offices; office space for graduate and post-doctoral students; commercial kitchen for food preparation classes; computer cluster; phlebotomy laboratory; classrooms; teaching laboratories; and controlled temperature and humidity storage. The construction will unite the faculty and research facilities into a single building and allocate that space on the basis of function and efficiency.

Description of Construction Work:

Building design has not started, but conceptual sketches show a 3-story brick structure.

ATTACHMENT III

UNIVERSITY OF MAINE SYSTEM

FY99 NARRATIVE SUMMARY OF STATE RESEARCH CAPITAL BONDS BY ACCOUNT/PROJECT

UM

Account Number:	8-7-75473
Project Name:	Aquaculture Renovation and Expansion
Bond Fund Amount:	\$700,000
Other Funds:	\$0
Construction Start:	April 2000
Construction End:	September 2000
Campus Contact:	Name Stewart Harvey Department Facilities Management Phone/fax/e-mail 581-2668

Purpose of Project/Program(s) Involved:

The Aquaculture Research Center is the central area on campus for research activities in Aquaculture Sciences. Applied research on a variety of marine species is currently being done and the renovation and addition will improve and expand current capabilities. The following spaces will be renovated: feed mixing lab; ocean engineering lab; lobster lab; environmental lab; bathroom; aquaculture engineering lab; furnace room; live feed production lab; chiller barrel room; wet lab; shellfish lab; dry lab; larval rearing lab; and physiology lab. The following will be added: feed mixing dry lab, walk-in freezer, walk-in cooler, agal production lab, entrance area, general storage, invertebrate dry lab, invertebrate wet lab, juvenile fish rearing lab, incubation room, experimental engineering lab, general use marine holding facility, general use experimental lab, cleaning and processing area, natural sea water holding and treatment area, general use walk-in cooler, and chemical storage and hood area.

Description of Construction Work:

Construction plans include lab renovations, elevator installation, ventilation and improved heating control, and telecom improvements.

ATTACHMENT IV

UNIVERSITY OF MAINE SYSTEM

**FY99 NARRATIVE SUMMARY OF STATE RESEARCH CAPITAL
BONDS BY ACCOUNT/PROJECT**

UM

Account Number: 8-7-75755

Project Name: Software Eng. and Advanced Materials Lab

Bond Fund Amount: \$1,200,000

Other Funds: \$0

Construction Start: January 1999

Construction End: July 2000

Campus Contact: Name Dave Trefethan
Department Facilities Management
Phone/fax/e-mail 581-2675

Purpose of Project/Program(s) Involved:

The money will be used for improvements in the infrastructure of Boardman Hall and Crosby laboratory. In Boardman, approximately \$400k in improvements will be made to facilitate information technology and software engineering research, especially in the area of geographic information systems. \$550k will be used to make improvements in the Crosby laboratory, while the remaining \$250k will be used in the Advanced Engineering Wood Composites building. Improvements will also be made to the Machine Tool Lab and Barrows Hall. Numerous pieces of specialized equipment will be purchased for use in research activities.

Description of Construction Work:

Lab and office renovation including telecom, lighting, ventilation and A/C, cabinets and lab furnishings.

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UNIVERSITY OF MAINE SYSTEM

**FY99 NARRATIVE SUMMARY OF STATE RESEARCH CAPITAL BONDS
BY ACCOUNT/PROJECT**

USM

Account Number: 8-7-76700
Project Name: Research & Development Capital Facilities
Bond Fund Amount: \$2,700,000
Other Funds: \$0
Construction Start: May 2000
Construction End: August 2002
Campus Contact: Name: Robert J. Goettel
Department: Executive Assistant to the President
Phone/fax/e-mail: goettel@usm.maine.edu

Purpose of Project/Program(s) Involved:

The USM Southern Maine Bioscience Research Institute will draw faculty researchers and staff from academic programs such as biology, chemistry, immunology and molecular biology, environmental science and policy, nursing, sports medicine, and natural and applied sciences; and affiliated faculty and associates from the Foundation for Blood Research, the Maine Medical Center Research Institute, and biotechnology companies. The Institute would have two major purposes: (1) to serve as the focal point for attracting external funding for R & D in the biosciences by fostering small group collaborations as well as individual research, and by assembling inter-institutional teams of researchers for large scale projects, and (2) to facilitate the participation of USM and affiliated faculty in delivery of the U Maine's Ph.D. programs in the biosciences. We expect that the Bioscience Institute will require laboratories for as many as 15 senior researchers, 30-40 graduate research assistants and technicians, and other support staff. To meet the external funding goals of the targeted legislative R&D appropriation, that number of research faculty and staff would have to increase considerably. USM currently has only three bioscience laboratories that might provide a research setting consistent with the needs and expectations of faculty who will be associated with the new institute.

Planning for the Information Science Research Institute has just begun. While there are a variety of academic programs that could be involved, the specific focus has not been determined. We expect that 7-8 faculty researchers and about 15 graduate research assistants plus technicians and other support staff ultimately will be involved.

In addition to these two new research institutes that will require appropriate laboratory facilities, some renovations will be required in the microelectronics laboratory in the Mitchell Building on USM's Gorham campus.

Description of Construction Work:

The original intention of the project was to add three stories to the top of the Portland Science building built in the early 1970's. A structural engineering firm was employed to study the feasibility of such an addition which represents the major expenditure to date. The structural engineering firm's report indicated it was not possible to add three floors to the existing building and now the Building Committee involved with the project is developing a new conceptual design for the project. The conceptual plan currently being developed will be utilized by an architectural/design firm to develop a project which will integrate the research efforts in the current Portland Science building with an addition to the building for the new Maine Bioscience Research Institute research laboratories and the Information Science Research Institute efforts. The project will also involve renovation of areas in the current Science Building to bring them up-to current standards for research spaces.

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UNIVERSITY OF MAINE SYSTEM

Research Funding

Operating Appropriation

The 118th Maine Legislature appropriated research funds to the University of Maine System in the 1st regular session and an additional amount in the 2nd regular session.

- ♦ On March 26, 1997, the Governor signed into law the Economic Improvement Strategy (Chapter 24) that appropriated \$500,000 to the University of Maine System for research.
- ♦ On April 1, 1998, the Governor signed into law the Economic Improvement Strategy (Chapter 643, Part LL, Section S-3) that appropriated \$4,000,000 to the University of Maine System for research. These funds were allocated from the FY98 year-end state surplus for use in FY99.

The following is a summary of the allocation of these research funds to UM and USM.

	<u>FY98 New Appropriation</u>	<u>FY99 New Appropriation</u>	<u>Total Two-Year Appropriation</u>
UM	\$400,000	\$3,200,000	\$3,600,000
USM	100,000	800,000	900,000
TOTAL	<u>\$500,000</u>	<u>\$4,000,000</u>	<u>\$4,500,000</u>

In reviewing the following summary, it should be realized that this report is prepared as of December 1998, just a few months after receiving the \$4.0 million appropriation in September 1998.

It is estimated that a total of \$15.5 million will be generated in external funding within the State of Maine as a result of the current fiscal year's \$4.5 million allocated to R&D.

UNIVERSITY OF MAINE SYSTEM
SUMMARY OF FY98/FY99 RESEARCH FUNDING UTILIZATION
UM/USM

	<u>Amount Utilized or Anticipated to Be Utilized</u>	<u>External Funds Generated or Anticipated to Be Generated</u>
<u>FY98</u>		
Biotechnology, Marine Science, and Aquaculture	\$500,000	\$3,380,975
<u>FY99</u>		
Core Support	\$350,000	\$250,000
Biotechnology	642,702	677,931
Advanced Materials Engineering and Development	1,288,871	9,855,905
Aquaculture and Marine Science	376,561	1,161,787
Advanced Technologies for Forestry and Agriculture	1,246,143	1,985,088
Computer Software and Info Technology	<u>595,723</u>	<u>1,641,416</u>
FY99 Total	<u><u>\$4,500,000</u></u>	<u><u>\$15,572,127</u></u>

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UNIVERSITY OF MAINE SYSTEM

SUMMARY OF FY98/FY99 RESEARCH FUNDING UTILIZATION

UM

	Amount Utilized or Anticipated to Be Utilized	External Funds Generated or Anticipated to Be Generated
<u>FY98</u>		
Marine Science and Aquaculture	\$400,000	\$3,066,975
<u>FY99</u>		
Computer Software Engineering and Development		
Support Research Faculty/Technicians and Start-up Costs	\$45,493	
Matching Funds	392,230	
Federal Funding Generated		\$1,641,416
Subtotal	<u>437,723</u>	<u>1,641,416</u>
Advanced Materials Engineering and Development		
Support Research Faculty/Technicians and Start-up Costs	743,778	
Matching Funds	488,093	
Federal Funding Generated		9,855,905
Subtotal	<u>1,231,871</u>	<u>9,855,905</u>
Aquaculture and Marine Science		
Support Research Faculty/Technicians and Start-up Costs	229,855	
Matching Funds	146,706	
Federal Funding Generated		1,161,787
Subtotal	<u>376,561</u>	<u>1,161,787</u>
Advanced Technologies for Forestry and Agriculture		
Support Research Faculty/Technicians and Start-up Costs	137,500	
Matching Funds	1,108,643	
Federal Funding Generated		1,985,088
Subtotal	<u>1,246,143</u>	<u>1,985,088</u>
Biotechnology		
Support Research Faculty/Technicians and Start-up Costs	302,702	
Matching Funds	5,000	
Federal Funding Generated		390,931
Subtotal	<u>307,702</u>	<u>390,931</u>
FY99 Total	<u><u>\$3,600,000</u></u>	<u><u>\$15,035,127</u></u>

UNIVERSITY OF MAINE SYSTEM

SUMMARY OF FY98/FY99 RESEARCH FUNDING UTILIZATION

USM

	Amount Utilized or Anticipated to Be Utilized	External Funds Generated or Anticipated to Be Generated
<u>FY98</u>		
Biotechnology	\$100,000	\$314,000
<u>FY99</u>		
Core Support		
Matching Funds	\$250,000	
Library Resources	60,000	
Grant Technical Writer	40,000	
Federal Funding Generated		\$250,000
Subtotal	<u>350,000</u>	<u>250,000</u>
Biotechnology		
Matching Funds	100,000	
Research Equipment	155,000	
Upgrading Computers	45,000	
Laboratory Technician	35,000	
Federal Funding Generated		287,000
Subtotal	<u>335,000</u>	<u>287,000</u>
Microelectronics		
Wire Bonding Equipment	35,000	
Upgrading Computers	22,000	
Subtotal	<u>57,000</u>	
Computer Software and Info Technology		
Research Equipment	60,000	
Upgrading Computers	63,000	
Computer Technician	35,000	
Subtotal	<u>158,000</u>	
FY99 Total	<u><u>\$900,000</u></u>	<u><u>\$537,000</u></u>

UNIVERSITY OF MAINE SYSTEM

FY99 \$4.0 MILLION RESEARCH & DEVELOPMENT COMMITMENTS

UM

Account Number	Account Title	Beginning Balance	Amount	Ending Balance	Description	Offsetting Account	
						Account Number	Account Title
5-2-61180	Comp Software Eng & Devlpmnt	327,723.00	(57,617.00)	270,106.00	R&D Funding from \$4.0 Million Appropriation NCGIA Technicians-\$25,493; D. Bradley (math) Faculty Start-Up-\$10,000; Turners (ONR) Matching Funds-\$22,124	8-1-22070	State Appropriation
5-2-61181	Adv Materials Eng & Devlpmnt	979,371.00	(91,390.00)		R&D Funding from \$4.0 Million Appropriation Brian Frederick (LASST) Salary-\$32,000; Doug Gardner Matching Funds-\$59,390	8-1-22070	State Appropriation
			(225,000.00)		Asst Professor, Instrument Purchase & Year 2 Start-Up (Chem)	5-2-61177	Research Distribution Account
			(15,000.00)		Jill Schoof Faculty Start-Up Funding (SET)	5-2-11405	Chemistry
			(20,000.00)		Start-Up Commitment for Aria Amirbahman (Civil & Env Engin.)	5-2-11410	Civil & Envir Engineering
			(134,000.00)	493,981.00	Start-Up Commitment for Touradj Solouki (Chem)	5-2-11405	Chemistry
5-2-61182	Aquaculture & Marine Sci	385,885.00	(10,555.00)		R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
			(9,900.00)		Sara Lindsay Scholarly Program (Marine Sciences) Year 1 of 3	5-2-11230	School of Marine Sciences
			(45,000.00)	320,430.00	Cardente Proper (accounts payable) Start-Up Commitment for Dr. Carol Kim (BMMB)	5-2-11222	Biochem Microb & Molecular
5-2-61183	Adv Technologies For/Agric	1,194,319.00	(77,998.00)		R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
			(83,458.00)		R&D Funding Aram Calhoun 1 Month Salary-\$3,458; Dave Field Faculty Start-Up-\$5,000; McEntire/Stennis-\$75,000	5-5-38092	R&D Funding
			(47,000.00)		Start-Up for Robert Causey (A&V)-\$22,000; Start-Up for Donglin Zhang (Hort.)-\$20,000; Start-Up for Reeser Manley (Hort.)-\$5,000	5-2-61177	Research Distribution Account
			(6,000.00)		R&D Funding - Greenhouses	5-2-11215	Animal, Vet and Aquatic Sci
			(10,000.00)		R&D Funding - Forest	5-5-38894	R&D Special Greenhouse
			(20,000.00)		R&D Funding - Witter Center	5-5-38695	R&D Special Forests
			(10,000.00)		R&D Funding Various Depts for Start-Up, DNA Lab, Libby, Gmhs	5-5-38964	R&D Special-Witter Center
			(10,000.00)		R&D Funding Various Depts for Start-Up, DNA Lab, Libby, Gmhs	5-5-38601	R&D Special-FORM
			(5,000.00)		R&D Funding Various Depts for Start-Up, DNA Lab, Libby, Gmhs	5-5-38560	R&D Special-FSN
			(31,766.00)		R&D Funding Various Depts for Start-Up, DNA Lab, Libby, Gmhs	5-5-38602	R&D Special-FES
			(15,000.00)		R&D Funding Various Depts for Start-Up, DNA Lab, Libby, Gmhs	5-5-38500	R&D Special-SMS
			(8,736.00)		R&D Funding Various Depts for Start-Up, DNA Lab, Libby, Gmhs	5-5-38755	R&D Special-BMMB
			(50,000.00)		R&D Funding Various Depts for Start-Up, DNA Lab, Libby, Gmhs	5-5-38894	R&D Special-Greenhouse
			(35,000.00)		R&D Funding for Highmoor Farm	5-5-38998	Highmoor Farm
			(23,042.00)		R&D Funding for Darling Center	5-5-38501	R&D Special-Darling Center
			(38,000.00)		Aram Calhoun Salary (Wetland Ecology)	5-2-28902	MAFES Univ Funds Control
			(11,000.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38913	R&D Special-Aroostook Farm
			(44,000.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38914	R&D Special-Blueberry Hill
			(62,600.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38755	R&D Special-BMMB
			(64,500.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38460	R&D Special-BIO
			(33,000.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38320	R&D Special-BSE
			(38,500.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38560	R&D Special-FSN
			(69,200.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38602	R&D Special-FES
			(46,600.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38601	R&D Special-FORM
			(50,600.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38150	R&D Special-GES
			(36,100.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38820	R&D Special-PSE
			(71,500.00)		Allocation of R&D Funds for Depts. & Special Projects	5-5-38220	R&D Special-REP
			(7,843.33)		GE Capital Publ.	5-5-38500	R&D Special-SMS
			(37,900.00)		R&D Allocation to Wildlife Dept.	5-5-38668	R&D Special-WLE
			(15,000.00)	134,975.67	Start-Up Commitment for Denise Skonbert (Food Science)	5-2-11245	Food Science & Human Nutr

UNIVERSITY OF MAINE SYSTEM

FY99 \$4.0 MILLION RESEARCH & DEVELOPMENT COMMITMENTS

UM

Account Number	Account Title	Beginning Balance	Amount	Ending Balance	Description	Offsetting Account	
						Account Number	Account Title
5-2-61184	Biotechnology	312,702.00			R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
			(61,257.00)		Start-Up Commitment for Dr. Robert Cashon (BMMB)	5-2-11222	Biochem Microb & Molecular
			(135,000.00)		Start-Up Commitment for Forensic Lab	5-2-61177	Research Distribution Account
			(107,000.00)		Start-Up Commitment for Alan Cobo-Lewis (CLAS)	5-2-46360	Administration CLAS
			(9,445.00)	0.00	Sara Lindsay Scholarly Program (Marine Sciences) Year 1 of 3	5-2-11230	School of Marine Sciences
	UM Total	3,200,000.00		1,219,492.67			

UNIVERSITY OF MAINE SYSTEM
FY99 \$4.0 MILLION RESEARCH & DEVELOPMENT COMMITMENTS

USM						Offsetting Account	
Account Number	Account Title	Beginning Balance	Amount	Ending Balance	Description	Account Number	Account Title
6-2-11267	Research Technicians/CAS	35,000.00		35,000.00	R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
6-2-11415	Research Technicians/APS	35,000.00		35,000.00	R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
6-2-21001	Research Grant Writing	40,000.00		40,000.00	R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
6-2-21081	Research Match Funds	250,000.00		250,000.00	R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
6-2-21082	Research Equipment	250,000.00		250,000.00	R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
6-2-41607	Library Research Upgrades	60,000.00		60,000.00	R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
6-2-45260	Research Computer Upgrades	130,000.00			R&D Funding from \$4.0 Million Appropriation	8-1-22070	State Appropriation
			(32,121.75)	97,878.25	Various pieces of equipment		
	USM Total	800,000.00		767,878.25			