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UNITED STATES MARINE CORPS
 MARINE CORPS BASE
 NORTH CAROLINA 28542

IN REPLY REFER TO
 7100
 NREAD
 MAY 14 1987

From: Commandant of the Marine Corps Base, Camp Lejeune
 To: Commandant of the Marine Corps (Code LFL)

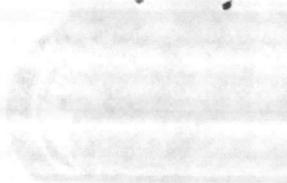
Subject: Copy to ^{Betz} EM+m Section PLAN (AOP)

Reference: (a) MCO-P11000.8B

Enclosure: (1) FY-88 AOP for Forestry, Fish and Wildlife, Agricultural
 Outlease, Soil, water and Environmental Branch and
 Recycling Management
 (2) Environmental Projects FYs 87-90

1. In accordance with the reference, enclosures (1) and (2) are provided.
2. Point of contact for enclosure (1) is Mr. Julian Wooten, Director, Natural Resources and Environmental Affairs Division, and for enclosure (2) is Mr. Bob Alexander, AUTOVON 484-5003/3034 respectively.

T. J. DALZELL
 By direction



UNITED STATES
NAVY

MAY 1 1981

Commanding General, Marine
Commandant of the Marine
FY-88 ANNUAL OPERATIONAL

(a) MCO P11000 88

(ii) FY-88 SOP for Force

Danny



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MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

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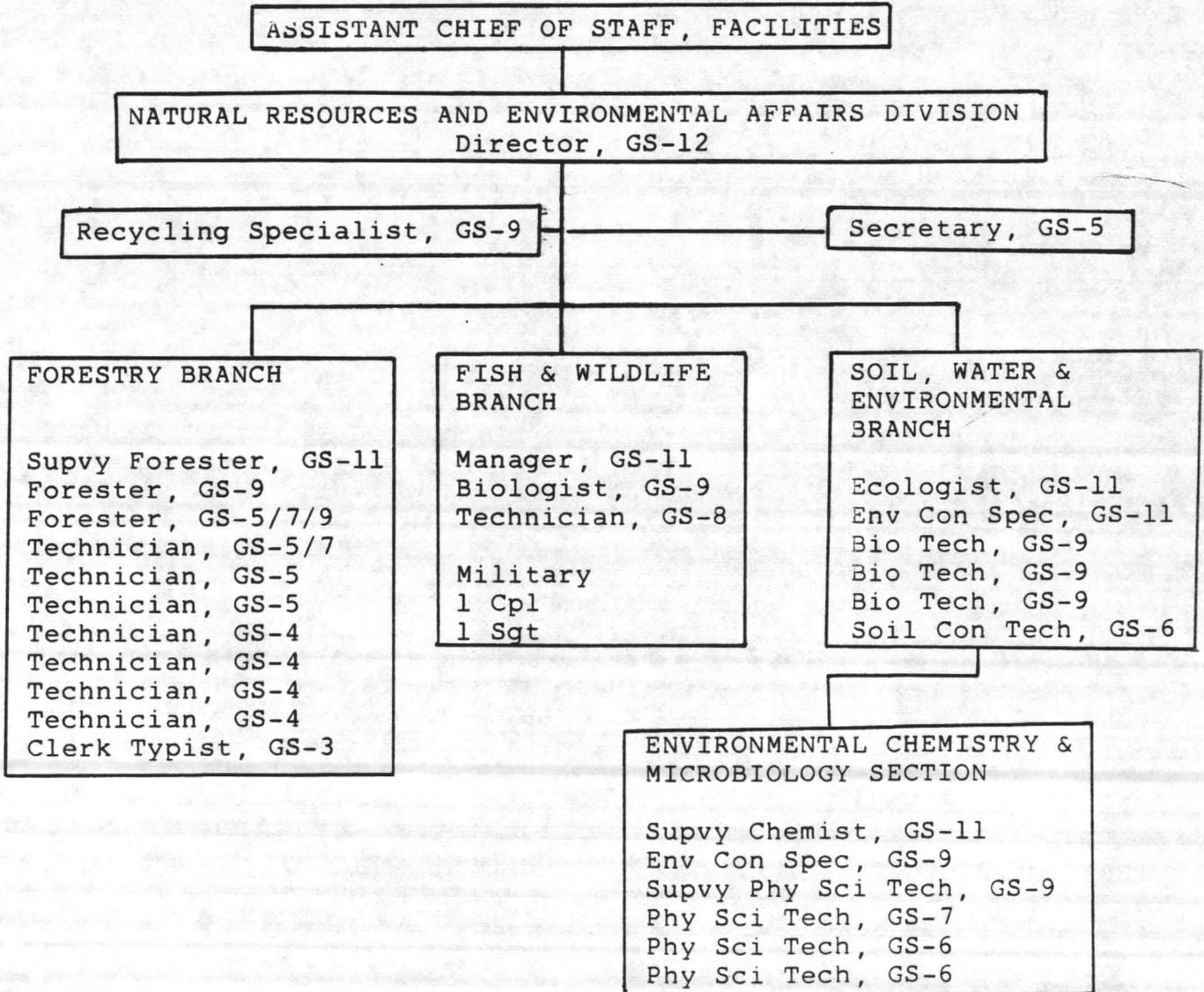
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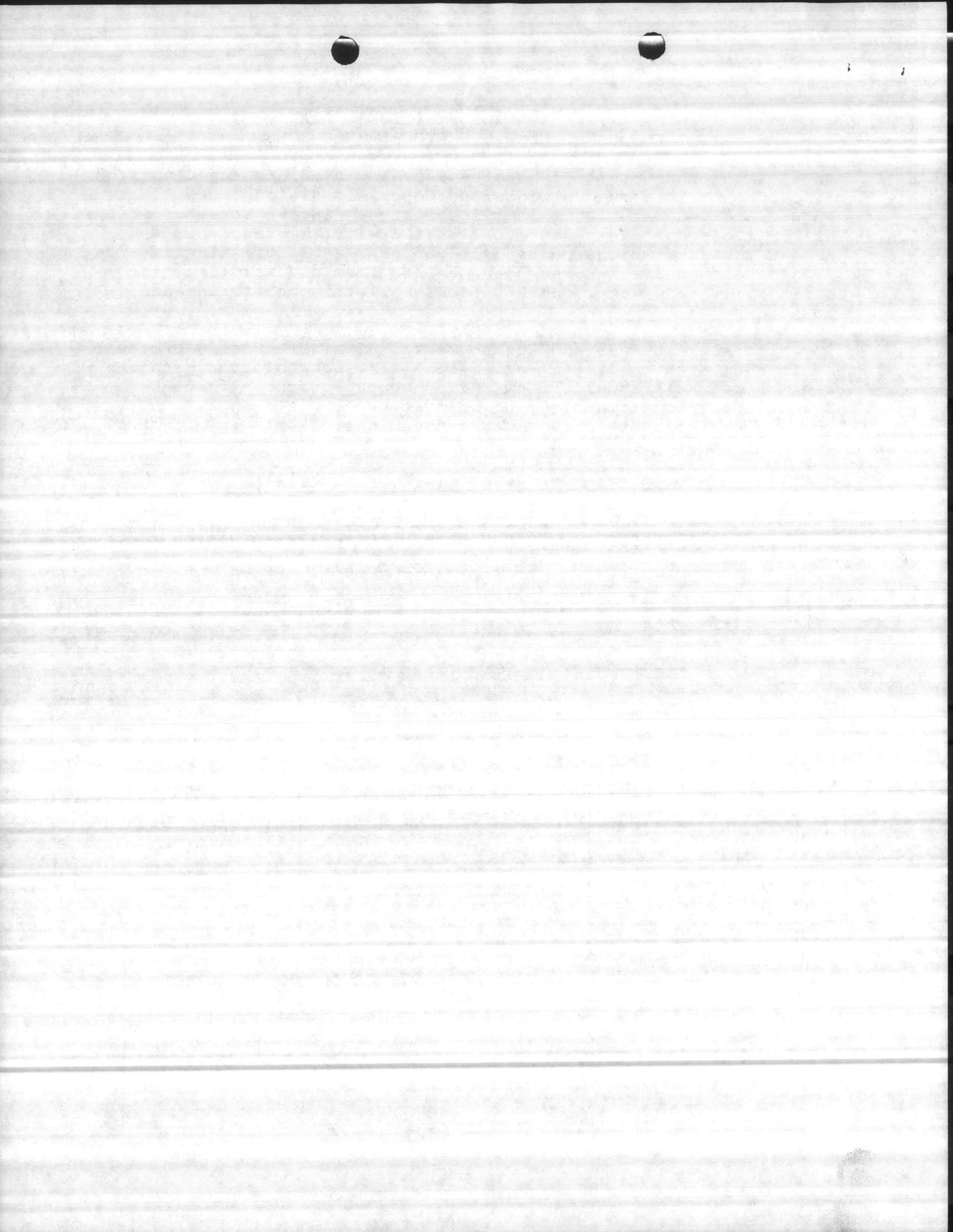
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FY-1988 ANNUAL OPERATIONAL PLAN
FOR MANAGEMENT OF NATURAL RESOURCES

In addition to support of base real property maintenance functions, like support is provided to Marine Corps Air Station, New River. Total land and water area is 112,459 acres, 86,596 acres of which are suitable for management of fish and wildlife resources and 62,365 acres of which are readily manageable as forestlands. Program elements are forest management, fish and wildlife management, soils, and water conservation, pollution monitoring and abatement.

The Natural Resources and Environmental Affairs Division of the Assistant Chief of Staff, Facilities is responsible for management of natural resources and environmental programs through direct operational involvement in most program elements. In certain environmental programs, a coordinating role is provided. The division is organized thusly:





The Annual Operational Plan is a reflection of the long term multiple-use management plan prepared for guiding yearly accomplishments in woodland management operations (Part I), fish and wildlife management (Part II) and soils, water and environmental management (Part III) to assure use of operational funds in a manner that implements higher policy and minimizes misdirected efforts. Resource recovery (Part IV) and agriculture outlease (Part V), initiatives are developed to assure use of funds in a manner that implements higher policy and minimizes misdirected efforts. The planning and budgeting functions necessary to support the above goal are positive influences for a more effective resources management effort. Variables in the resource recycling program and the long term natural resource management formula cannot always be adequately predicted. For example quality and quantity of recyclable resources may vary and the market may fluctuate. Timber sales and income may be influenced by military training operations, wildfires and southern pine beetle epidemics. Also threatened and endangered species management and protection can be significant impact on the fish and wildlife program. The installation hazardous material/hazardous waste management program has been assigned to the NREAD function for development, and implementation. This program has created a significant impact requiring additional manpower and other resources.



PART I

FOREST RESOURCE MANAGEMENT

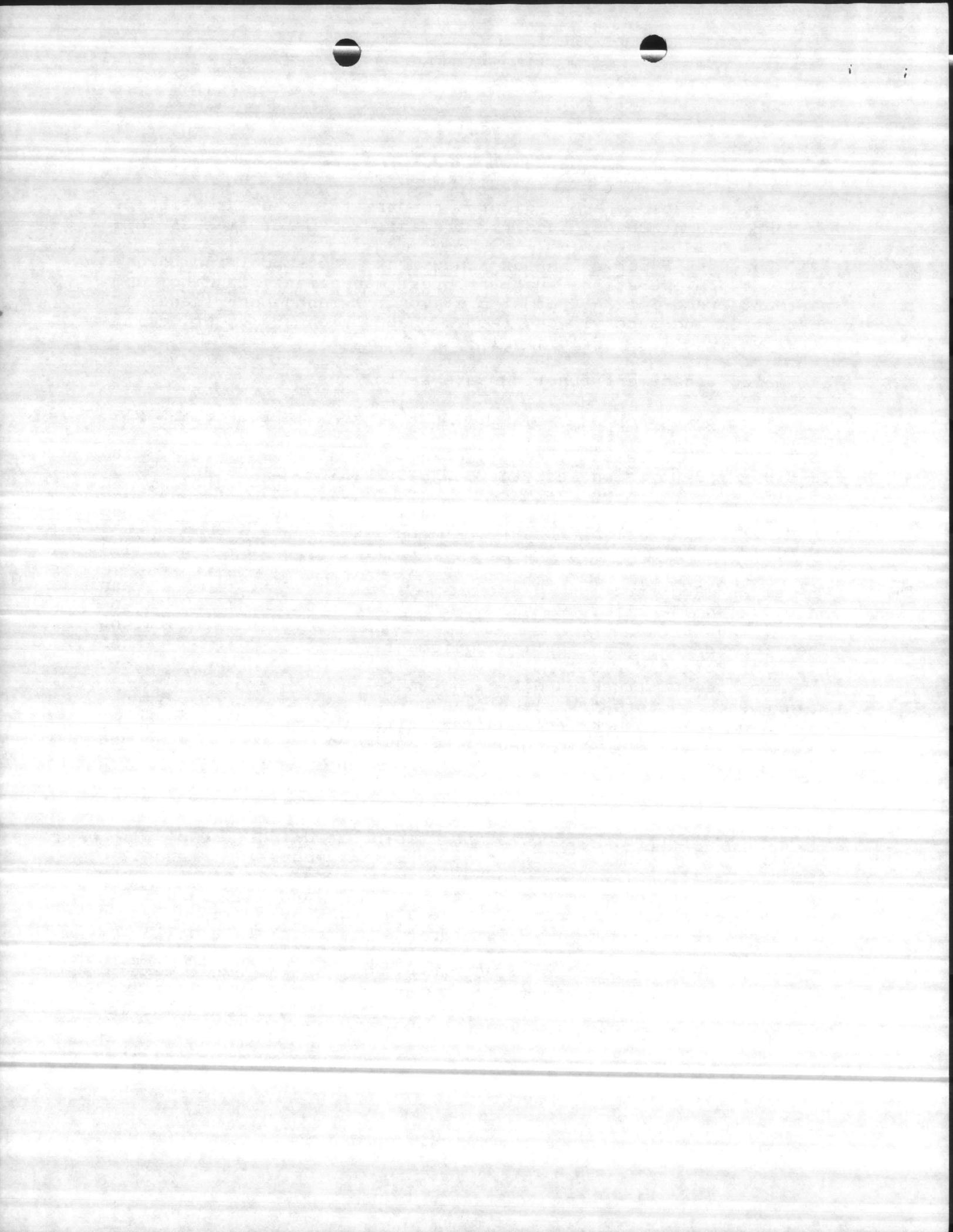
Forestry operations are indicated for treatment and are listed by cost account codes, fund requirements and priorities as follows:

3B10 Forestry Supervision and Management. Personnel included will perform operations such as forest management planning, compartment prescription, forest pest control management, general inspection and supervision, report preparation and other administrative functions (Priority 1).

Estimated management functions are as follows:

	<u>SALARIES</u>	<u>PLUS 15.45% F.B.</u>
GS-12(8) 1/2 Division Director, NREAD	(\$40,169)	\$23,187
GS-5(9) 1/3 Division Secretary, NREAD	(\$18,774)	7,225
GS-3(5) Forestry Clerk	(\$13,374)	15,440
GS-11(5) Forester Administrative	(\$30,796)	35,523
GS-9(3) Assistant Forester	(\$23,956)	27,657
GS-7(1) Timber Management Forester	(\$18,358)	21,194
Travel and Registration		5,000
Material and Supplies		3,500
Miscellaneous Support		4,500
Fuel for Forestry Engineering Equipment		8,000
Fuel for Forestry Fleet		6,500
(management trucks and hauling units)		
Maintenance of Forestry Fleet		18,000
(management trucks and hauling units)		
Maintenance of Forestry Engineering Equipment		<u>30,000</u>
		\$205,726

3B20 Reforestation. The planting of pine seedlings (sold 86, prep 87) is scheduled on 36 acres in Compartments 27 (stand 12). Site preparation (sold 87) for artificial regeneration is scheduled on 82 acres in Compartments 8 (stands 2 & 8) and 53 (stand 12). Natural regeneration (sold 86, prep 87) for pine is scheduled on 207 acres in Compartment 27 (stands 6 & 7) and 49 (stand 11) and 7 (stands 14 & 15). Site preparation (sold 87) for natural regeneration is scheduled on 306 acres of pine in Compartments 2 (stands 8 & 12), 8 (stand 5), 14 (stand 10), 38 (stands 4, 14 & 19), and 53 (stand 1 & 10). Survival checks are scheduled on 230 acres and regeneration checks are scheduled on 222 acres (Priority 4).



Estimated expenses for reforestation:

	<u>Salaries</u>	<u>Plus 15.75% F.B.</u>
GS-7(1)	17% Forest Technician	\$3,577
GS-5(5)	12% Forest Technician	2,230
GS-4(3)	8% Forest Technician	1,251
GS-4(3)	8% Forest Technician	1,251
Materials and Supplies		1,500
Pine Seedlings (30k Loblolly)		1,000
Maintenance and Repair of KG Blade		500
Maintenance and Repair of Rootrake		500
Maintenance and Repair of Bedding Harrow		1,000
Maintenance and Repair of Drum Chopper		1,000
WG-10 Heavy Equipment Operator (820 hrs @ \$17.55/hr)		<u>14,390</u>
		\$28,199

3B30 Timber Stand Improvement. Perform timber stand improvement by drum chopper for precommercial thinning on 165 acres in Compartments 5 (stand 13), 15 (stand 14), 48 (stand 25), and 24 (stand 7), (Priority 5)

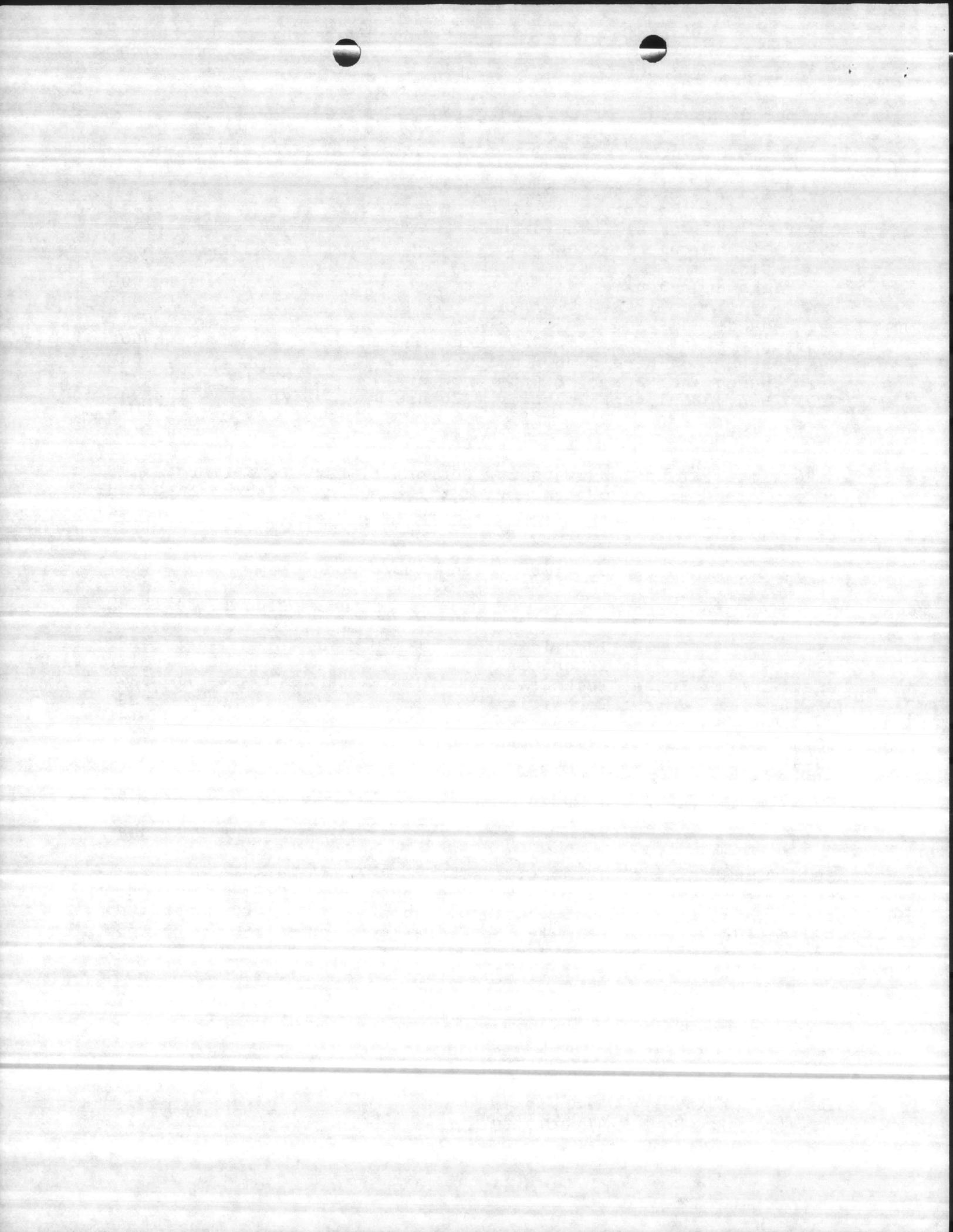
Estimated expenses for Timber Stand Improvement:

	<u>Salaries</u>	<u>Plus 15.54% F.B.</u>
GS-7(1)	2% Forest Technician	\$ 406
GS-5(5)	6% Forest Technician	1,115
GS-4(3)	6% Forest Technician	939
GS-4(3)	6% Forest Technician	939
GS-5(5)	6% Forest Technician	1,115
GS-4(3)	6% Forest Technician	939
GS-4(3)	6% Forest Technician	939
WG-10 Heavy Equipment Operator (120 hrs @ \$17.55/hr)		<u>2,106</u>
		\$8,498

3B40 Timber Sales. The estimated income from the sale of forest products in FY-88 is \$500,000. The income for FY-89 is estimated to be \$450,000. Most of the income for FY-88 will be generated by regularly scheduled sales in Compartments 15, 18, 22, 29, 33 and 50. Salvage harvesting, seedtree harvesting and construction sales will be made as required. (Priority 3)

Estimated expenses from timber sales:

	<u>Salaries</u>	<u>Plus 15.45% F.B.</u>
GS-7(1)	2% Forest Technician	406
GS-5(5)	17% Forest Technician	3,317
GS-4(3)	41% Forest Technician	6,624



GS-4(3)	41% Forest Technician	\$ 6,624
GS-5(5)	74% Forest Technician	14,186
GS-4(3)	66% Forest Technician	10,690
GS-4(3)	66% Forest Technician	10,690

Material and Supplies		<u>17,000</u>
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\$69,537

3B50 Timber Access Roads. Maintain 20 miles of timber access roads by seeding to perennial grasses for erosion control and right-of-way maintenance for fire control purposes. Install culverts, apply stone, and ditch and crown as required on approximately 13 miles in Compartments 1, 4, 37, 54 and 55.

Estimated expenses for access roads: (Priority 6)

	<u>Salaries</u>	<u>Plus 15.45% F.B.</u>
GS-7(1)	2% Forest Technician	\$ 406
GS-5(5)	8% Forest Technician	1,487
GS-4(3)	8% Forest Technician	1,251
GS-4(3)	8% Forest Technician	1,251
WG-10 Heavy Equipment Operator (520 hrs @ \$17.55/hr)		9,126
Material and Supplies		15,000
Heavy Equipment Rental		2,856

Motorgrader (80 hrs @ 8.93/hr = \$714)
 850B Case Dozer (160 hrs @ 6.43/hr = \$1,029)
 Gradeall (80 hrs @ \$13.91/hr = \$1,113)

\$31,377

3B60 Forest Protection. Prescribe burn 12 Compartments for hazard reduction and wildlife habitat improvement totaling approximately 15,169 acres. Control burn ranges and impact areas totaling 11,588 acres and red-cockaded woodpecker habitat totaling 844 acres. Perform southern pine beetle, other insects and disease measures over the entire Base. Perform forest fire suppression as required aboard the Base. (Priority 2)

Estimated expenses for forest protection:

	<u>Salaries</u>	<u>Plus 15.45% F.B.</u>
GS-7(1)	77% Forest Technician	\$16,409
GS-5(5)	58% Forest Technician	11,241
GS-4(3)	38% Forest Technician	6,256
GS-4(3)	38% Forest Technician	6,256
GS-5(5)	21% Forest Technician	4,088
GS-4(3)	29% Forest Technician	4,692
GS-4(3)	29% Forest Technician	4,692



Overtime and Hazard Duty for Forestry Personnel \$ 5,500

Wildfire Suppression:

WG-10 Heavy Equipment Operator (600 hrs @ 21.94/hr)	11,164
WG-10 Heavy Equipment Operator Weekend Standby (160 hrs @ \$26.33/hr)	4,213
WG-10 Heavy Equipment Operator Overtime for	4,500
TD-12 LGP Tractor and plow rental (300 hours @ \$17.22/hr)	5,166

Prescribed Burning:

WG-10 Heavy Equipment Operator (120 hrs @ \$17.55/hr)	2,106
TD-12 LGP Tractor and plow rental (40 hrs @ \$17.22/hr)	689
WG-10 Heavy Equipment Operator for standby on prescribed burning (240 hrs @ \$17.55/hr)	4,212

Miscellaneous Support:

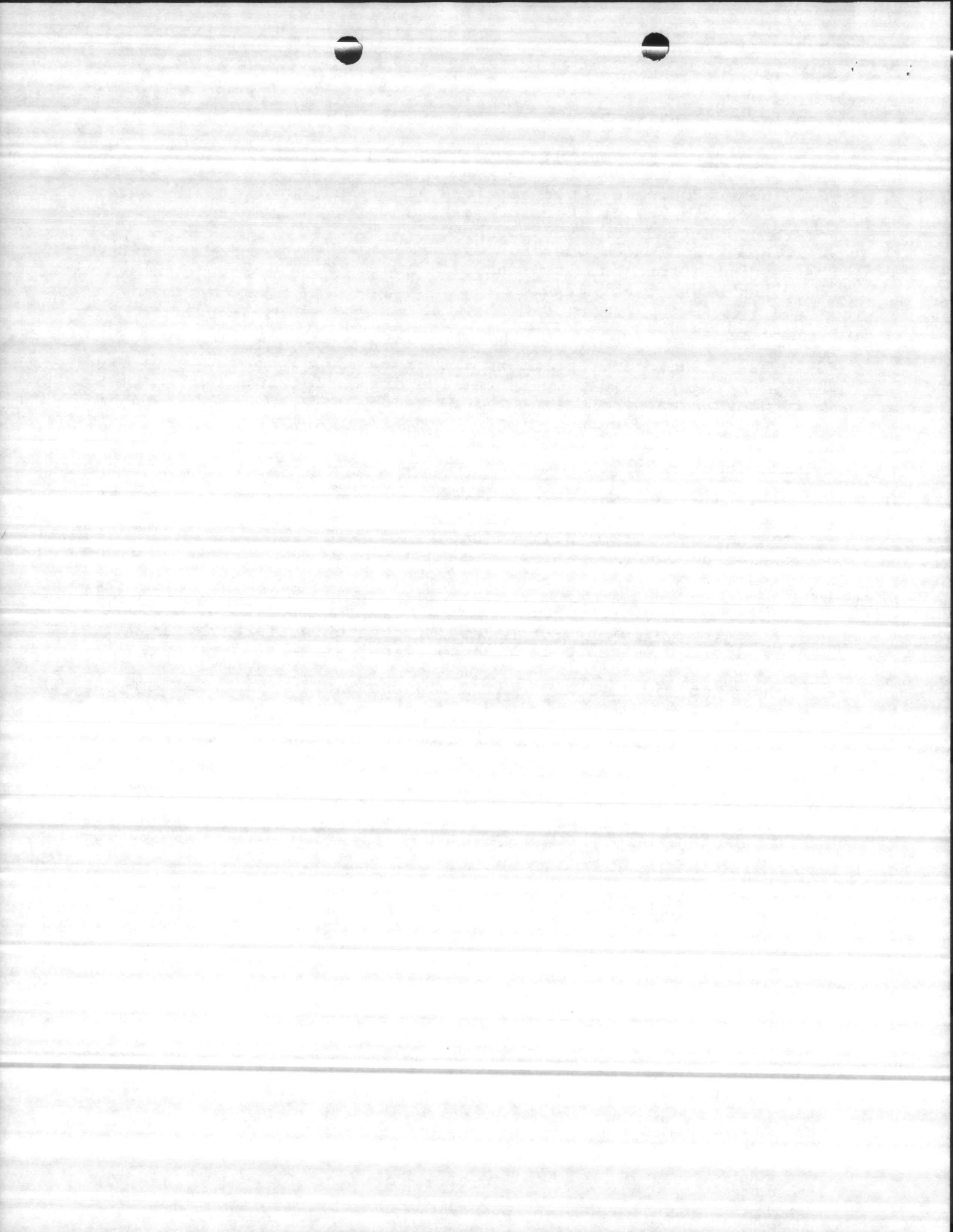
Radio rental and maintenance	3,800
Torch Fuel	700
Maintenance and repair Slip-on-units	1,500
Materials and Supplies	4,000
	<hr/>
	\$101,184

3B70 Forestry Equipment Purchases. Purchase two forestry crew cab 4 x 4's to replace older, uneconomical trucks. (Priority 7)

Crew Cab 4 x 4 Pickups (2 @ \$14,000 each)	\$28,000
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SUMMARY OF ESTIMATED EXPENSES

3B10 Forestry Supervision and Management (Priority 1)	\$205,726
3B20 Reforestation (Priority 4)	28,199
3B30 Timber Stand Improvement (Priority 5)	8,498
3B40 Timber Sales (Priority 3)	69,537
3B50 Timber Access Roads (Priority 6)	31,377
3B60 Forest Protection (Priority 2)	101,184
3B70 Forestry Equipment Purchase (Priority 7)	28,000



TOTAL FY FUNDING DATA - ACTUAL AND ESTIMATED

Current FY-87

\$444,907

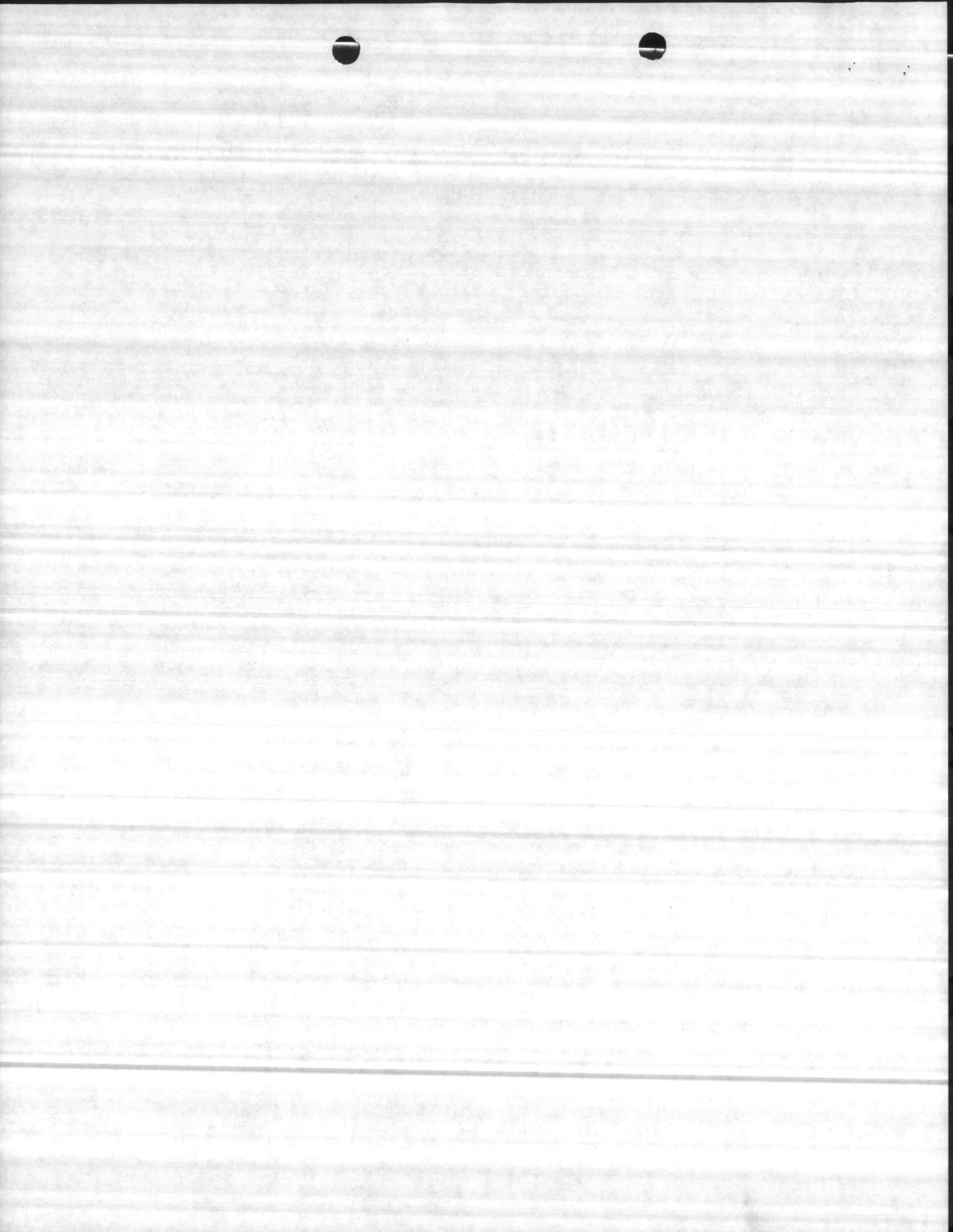
Budget FY-88

\$472,521*

Budget FY-89

\$455,000

*Includes the \$22,521 unfunded requirements. If required, 3B70 Forestry Equipment Purchases, will be reduced the unfunded amount.



PART II

FISH AND WILDLIFE MANAGEMENT

Programmed operations by cost account codes, fund requirements and priorities for habitat improvement projects by station personnel as follows:

<u>CAC 9170 SALARIES</u>	<u>SALARY PLUS 15.45% F.B.</u>
GS-12(7) 1/4 Director, NREAD	\$11,310
GS-11(10) Wildlife Management Supervisor	40,783
GS-9(4) Wildlife Biologist	28,521
GS-8(9) Wildlife Technician	29,736
GS-5(8) 1/3 Secretary, NREAD	7,034
GS-5(1) Wildlife Technician (Temporary)	5,584
GS-4(1) Wildlife Technician (Temporary)	3,824
Travel & Registration	<u>4,438</u>
	\$131,230

WILDLIFE MANAGEMENT PROJECTS FUNDED UNDER MARINE CORPS HEADQUARTERS FUNDS CAC 9170 FOR COMPLETION DURING FY 1987

<u>PROJECT</u>	<u>ESTIMATED COST</u>
1. Conduct aerial surveys over Onslow Beach and Brown's Island area during nesting season of threatened sea turtles.	\$ 3,500
<u>IMPACT STATEMENT.</u> Failure to complete project would limit availability of winter cover crops for supplementing grazing by game and nongame species. (Priority 2)	
2. Repair water control structures and drain pipe for Green-tree waterfowl impoundment.	3,700
<u>IMPACT STATEMENT.</u> Failure to make repairs to the impoundment could cause the dam to break and result in siltation to a salt water shellfish area. (Priority 4)	
3. Apply liquid nitrogen to wildlife openings planted to winter grains for game and nongame species.	3,485
<u>IMPACT STATEMENT.</u> Failure to make nitrogen application to winter cover crops will limit the productivity and maximum utilization of the wildlife clearings for game and nongame species. (Priority 5)	



4. Professional assistance including water chemistry evaluations, population inventories, fertilization and limestone. Recommendation for freshwater ponds aboard base. \$ 1,340

IMPACT STATEMENT. Failure to complete project will limit productivity of freshwater ponds for recreational fishing opportunity. (Priority 6)

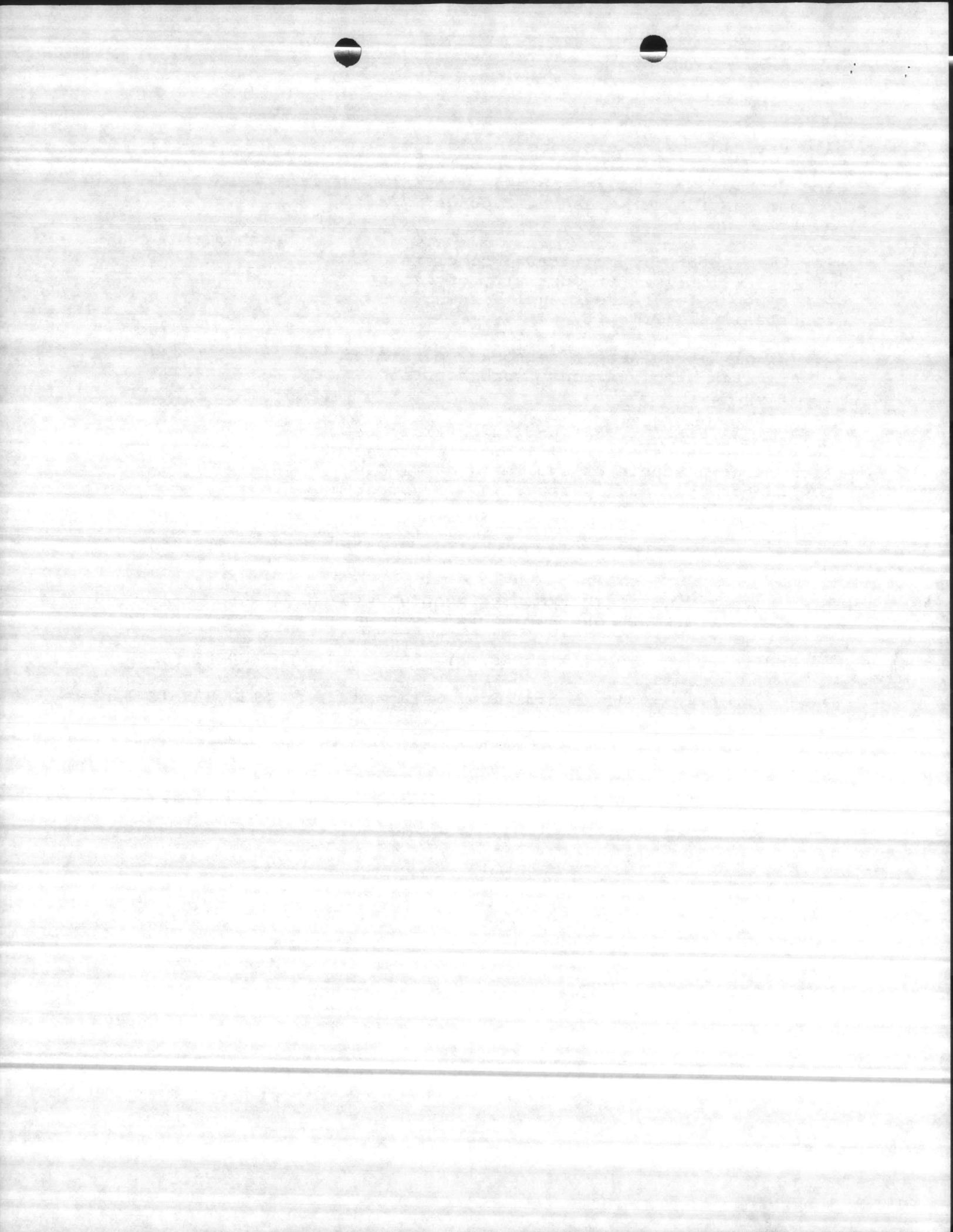
5. Wildlife Management personnel participation in training sessions, workshops and conferences. 1,438

IMPACT STATEMENTS. Failure to participate in training sessions will limit the implementation of new techniques and research findings needed for continually improving the program for management of wildlife resources. (Priority 8)

Total Cost \$13,463

**WILDLIFE FUNDING REQUIREMENTS DATA
(MARINE CORPS HEADQUARTERS FUNDING CAC 9170)**

<u>CURRENT FY-87</u>	<u>BUDGET FY-88</u>	<u>BUDGET FY-89</u>
\$124,722 (Salaries)	\$131,230 (Salaries)	\$137,899 (Salaries)
<u>23,150</u> (Projects)	<u>13,463</u> (Projects)	<u>38,755</u> (Projects)
\$147,872	\$117,767	\$176,654

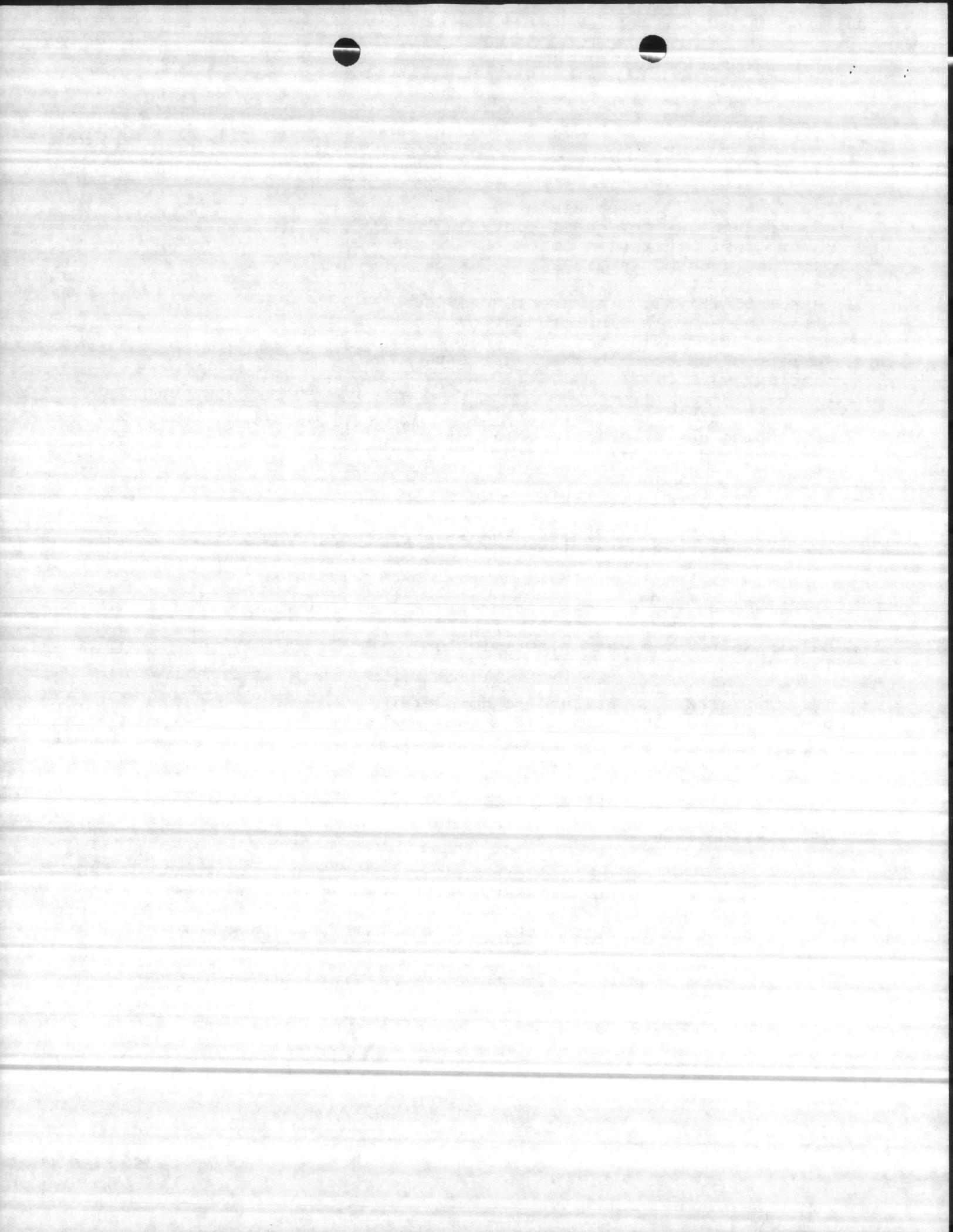


WILDLIFE MANAGEMENT PROJECTS FUNDED UNDER CAC-17X NONAPPROPRIATED

<u>PROJECT</u>	<u>ESTIMATED COST</u>	<u>PRIORITY</u>
1. Plant wildlife openings to summer annuals, for quail, dove, rabbit, wild turkey, & other game and nongame species.	\$15,313	1
<u>IMPACT STATEMENT.</u> Failure to provide will limit habitat improvement projects designed to provide diversity for a variety of species in the vegetative complex.		
2. Improve habitat diversity by developing new wildlife openings for game and nongame species.	4,679	2
<u>IMPACT STATEMENT.</u> Failure to complete project will limit long range planning efforts to improve habitat conditions for wildlife resources listed in the ten year plan.		
3. Disc out leave areas for quail nesting cover prior to prescribed burning activities and plant bicolor lespedeza seedlings.	4,964	3
<u>IMPACT STATEMENT.</u> Failure to complete project would limit long range management efforts in the quail management and other habitat throughout the base.		
4. Miscellaneous expenses for materials and supplies in support of the fish and wildlife program.	1,248	

TOTAL NONAPPROPRIATED FUNDS REQUIRED

<u>WILDLIFE FY FUNDING REQUIREMENT DATA (PERMIT FUND)</u>		
<u>CURRENT FY-87</u>	<u>BUDGET FY-88</u>	<u>BUDGET FY-89</u>
\$23,390	\$26,204	\$28,422



PART III

AGRICULTURAL OUTLEASE MANAGEMENT

Agricultural Outlease Supervision and Management. Personnel will perform various multi-land use management activities including general administrative support for the Natural Resources and Environmental Affairs program, budget preparation; soil conservation program implementation, archaeological and historical resources program implementation; natural resources research project management and Natural Resources and Environmental Affairs LUMS manager. Existing position is to be financed by Agricultural Outlease (H-6) Funds.

Estimated management functions are as follows:

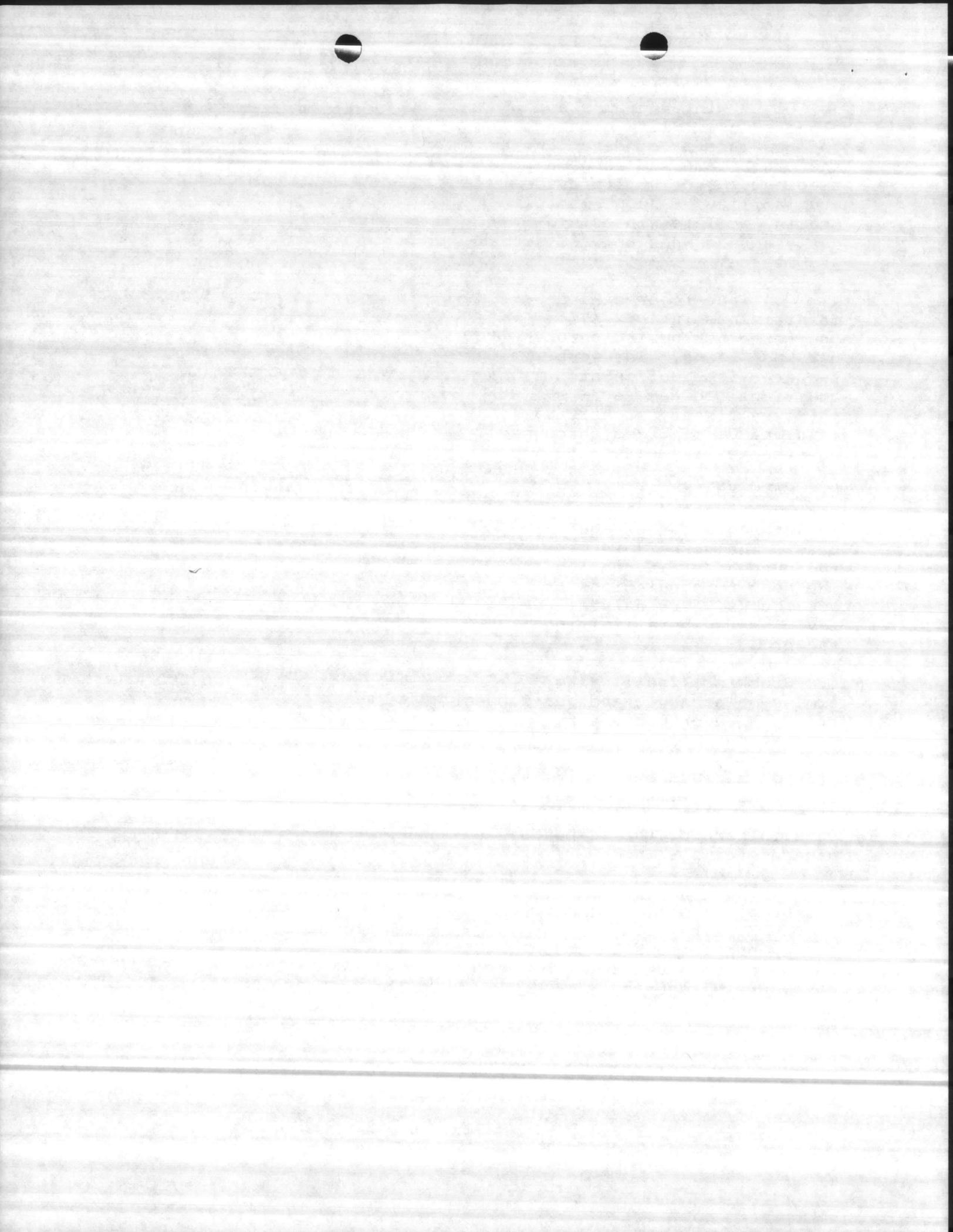
<u>SALARIES</u>	<u>PLUS 15.75% F.B.</u>
GS-9 (5) Intergrated Multiple-Use Land Management Administrator	\$25,500
GS-4 (2) Clerk Typist (NREAD)	<u>13,248</u>
TOTAL	\$38,748

WILDLIFE PROJECTS FUNDED UNDER ANNUAL AGRICULTURAL OUTLEASE PROGRAM (H-6 FUNDS)

<u>PROJECT</u>	<u>FUNDS REQUIRED</u>
1. Maintain and stablize 20 miles of forest access roads through the planting of forage crops for wildlife resources. Plant materials will consist of various legumes and annual mixtures for utilization by both game and nongame species.	\$ 8,000
2. Prescribe burn, perform maintenance and monitor the habitat/population of Red-Cockaded Woodpecker. The work of cleaning woody debris from around 270 cavity trees and prescribed burning is designed to protect cavity trees from the danger of wildfires.	35,000



3. Plant winter grains and clovers in wildlife openings for the benefit of deer, turkeys, and other game and nongame species. Crops will provide availability of supplemental grazing in late winter and early spring when natural foods are scarce. \$ 22,000
4. Continue to erect and maintain nesting boxes for the Eastern bluebird throughout base lands. The work requires fabrication of additional boxes, repairs to boxes already in use and maintenance of boxes throughout the nesting season. 4,000
5. Maintenance of nesting boxes for wood ducks in wetlands habitat of the base. The work is for the purpose of increasing the nesting populations of wood ducks where natural cavities may be a limiting factor. 5,000
6. Stocking, fertilizing, liming maintenance and development of fresh water ponds for recreational fishing opportunity. Work will provide maximum productivity of channel catfish, bluegill, redear sunfish and largemouth bass in each of the 12 ponds managed for fishing. 6,000
7. Monitor the nesting and brooding habitat of the Eastern wild turkey populations including home range movements, dispersal and survival rates of broods. 30,000



8. Monitor the home range movements, habitat preferences and reproductive rates of the Eastern black bear at Camp Lejeune.

\$ 36,000

Total

\$145,000

TOTAL FUNDING REQUIREMENTS:

Current FY-87

\$38,000

Budget FY-88

\$ 39,500

145,000

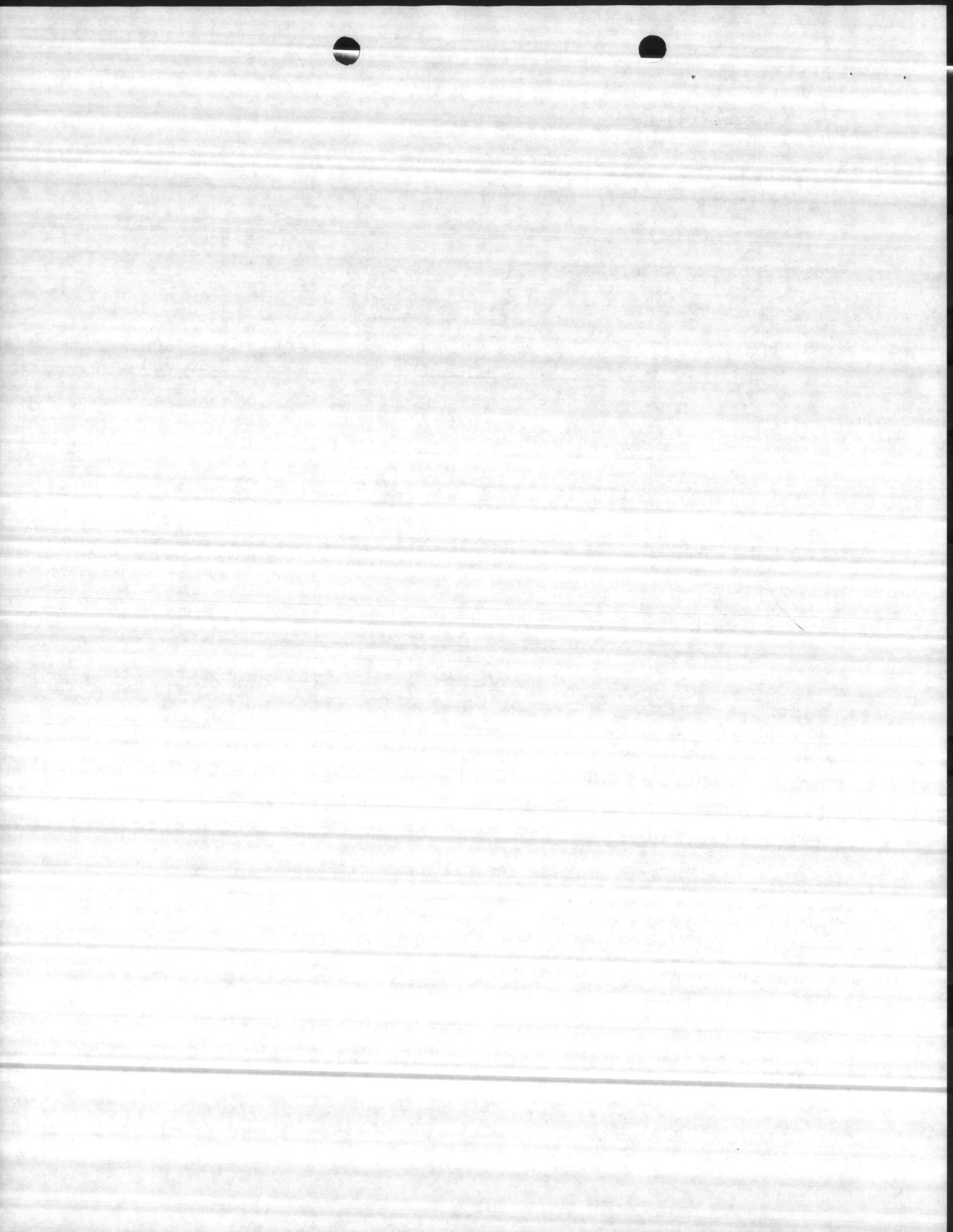
\$184,500

Budget FY-89

\$ 43,500

160,000

\$203,500



PART IV

SOIL, WATER AND ENVIRONMENTAL BRANCH

1. Mission. The Soil and Water Conservation Program is managed by the Soil, Water and Environmental Branch, Natural Resources and Environmental Affairs Division (hereafter referred to as "the Branch"). The Branch is responsible for developing and implementing the natural resources planning and environmental protection program. The program is directed in the following general areas:

a. Providing compliance monitoring and related laboratory support for drinking water supplies and treatment and distribution systems.

b. Providing compliance monitoring and related laboratory support to the operation of sewage treatment facilities and the collection, pretreatment and disposal of industrial wastes and wastewater.

c. Providing technical assistance, compliance monitoring, related laboratory support required for the identification of hazardous materials and hazardous wastes regulated under the Resource Conservation and Recovery Act and related state regulatory programs.

d. Developing/updating contingency plans and providing related technical assistance required to manage spills and related state regulatory programs.

e. Coordinating NREAD review of environmental impact assessments and development and revision of the Long Range Natural Resources Management Plan.

f. Monitoring implementation of erosion and sedimentation control plans and projects.

FISCAL YEAR - 88

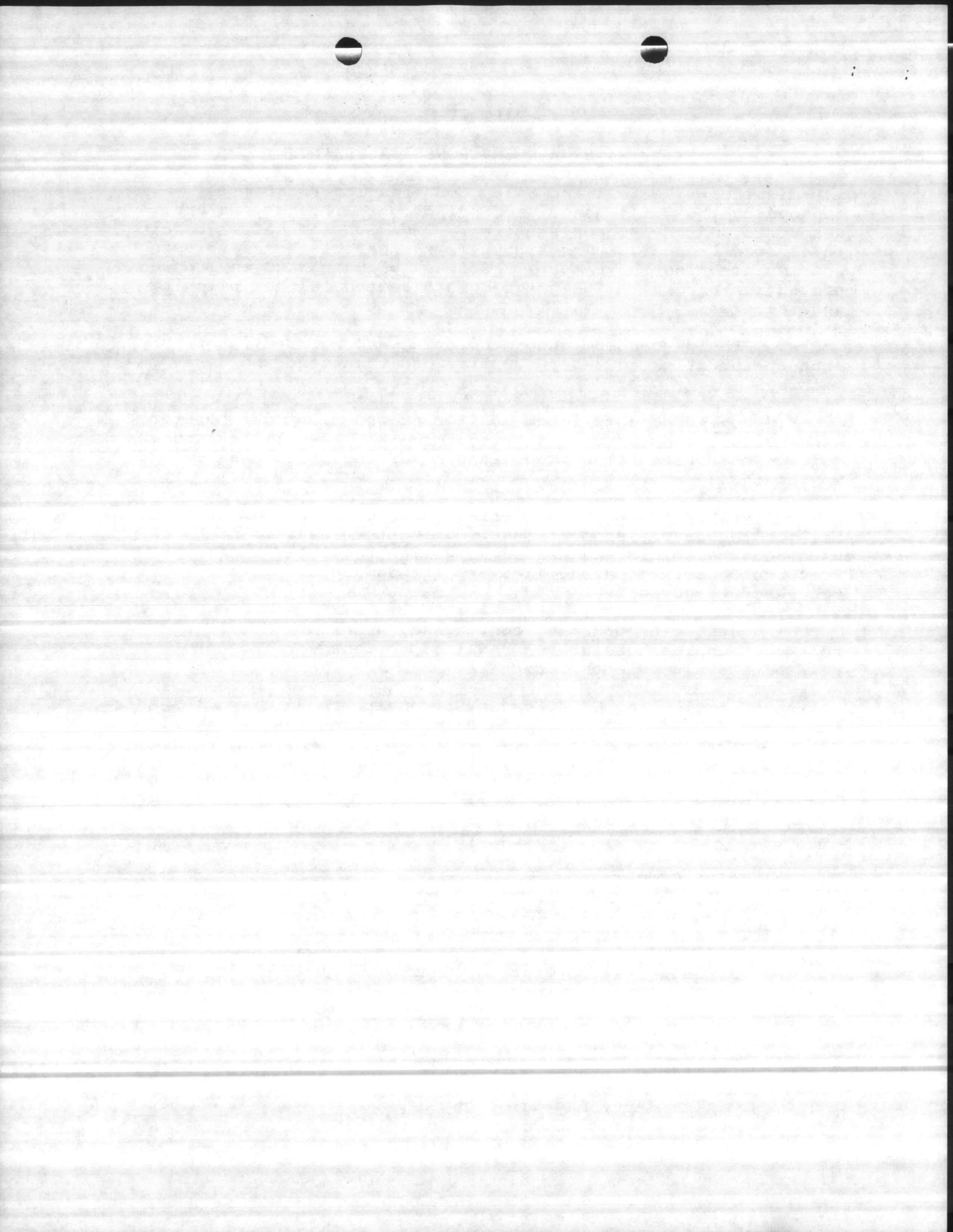
2. Operating Budget

Projected Amount

a. Personnel (Salary (as of 4 Jan 87)
Plus 15.75% and Overtime):

(1) Salaries and Overtime Chargeable to
Environmental Chemistry & Microbiology Section

(a) Supvy Chemist GS-11 (4)	\$ 34,598
(b) Env Con Spec GS-9 (2)	26,862
(c) Supvy Phy Sci Tech GS-9 (1)	25,995
(d) Phy Sci Tech GS-7 (9)	26,917



(e) Phy Sci Tech GS-6 (2)	19,761
(f) Phy Sci Tech GS-6 (1)	19,123
(g) Laboratory Related Overtime (GS-7 (1) @ 10 hrs/mo = \$1,986.27)	2,000
(h) Clerical Support (1/2 Clerk/Typist GS-3 (1))	<u>6,831</u>
TOTAL	\$162,087

(2) Other Branch Salaries and Overtime

(a) Supvy Ecologist GS-11 (8)	38,792
(b) Env Control Specialist GS-11 (3)	33,549
(c) Biological Tech GS-9	36,695
(d) Biological Tech GS-9 (1)	25,995
(e) Biological Tech GS-9 (1)	25,995
(f) Soil Cons Tech GS-6 (4)	21,036
(g) 1/4 Div Director GS-12 (7)	11,310
(h) Emergency Spill Response Overtime	1,500
(i) Clerical Support (1/2 Clerk/Typist GS-3 (1))	<u>6,831</u>
TOTAL	\$201,703

TOTAL SALARIES \$363,790

b. Supplies & Equipment Maintenance 45,000

c. Contract Laboratory Services

(1) Compliance Monitoring & Laboratory Quality Control \$ 20,000

(2) Hazardous Waste, Waste Oil & Groundwater Monitoring 120,000

Total \$140,000



d. TAD

(1) Cost of On-Site Training for Hazardous Waste Managers and Hazardous Waste Handlers within each major command aboard the Camp Lejeune-MCAS New River Complex	\$20,000
(2) Other Seminars	2,000
Total	\$ 22,000

e. Equipment Purchases

(1) Replacement	16,250
(2) New	7,500
Total	\$ <u>23,750</u>

Grand Total \$594,540

FY-89

1. No increase in personnel expected except step increases.
2. No major increases in funding for equipment expected.
3. No major increases in supplies or maintenance expected.

Estimated: \$600,000

SOIL, WATER AND ENVIRONMENTAL BRANCH FUNDING REQUIREMENTS

<u>Current FY-87</u>	<u>FY-88</u>	<u>FY-89</u>
\$360,750	\$594,540	\$600,000



PART V

RECYCLING PROGRAM

Recycling Program. Marine Corps Base stands to receive several thousand dollars to use in defraying the cost of collecting and transporting certain recyclable items and to fund Base pollution abatement, morale, welfare, recreation activities, occupational safety and health and energy conservation programs.

During FY-86, \$138,000 was generated for brass and \$30,000 for metal and \$2,000 for cardboard totaling \$170,000.

Estimated management functions are as follows:

<u>SALARY</u>	<u>PLUS 15.75% F.B.</u>
GS-9 (1) Recycling Program Administrator	\$22,458
Estimated cost for Labor and Vehicle Use to Cardboard and Metal - Collection and Transportation	42,002
Workshops, Conferences, Meetings	<u>1,500</u>
Total	\$65,960

Projects Planned for Accomplishment in FY-87

a. Corrugated Cardboard and site preparation and installation recycling equipment	\$ 52,020
b. Morale, Welfare & Recreation Activities (Complete Risley Fishing Pier)	52,020

Total	<u>\$104,040</u>
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Grand Total	\$170,000
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TOTAL FUNDING REQUIREMENTS:

<u>Current FY-87</u>	<u>Budget FY-88</u>	<u>Budget FY-89</u>
\$170,000	\$187,000	\$205,700



ENVIRONMENTAL PROJECTS

<u>FY-87 Funded</u>	<u>Amount</u>
Environmental Impact Statement (Land Acquisition)	\$450,000
USGS Groundwater Study, Phase IIA	112,000
Onslow Beach Outfall Relocation	29,000
Solid Waste Study	14,300
Tank Trail Environmental Study	29,000
New River Shoreline Protection Study	<u>30,000</u>
Total	\$654,300

<u>FY-88</u>	<u>Amount</u>
USGS Groundwater Study, Phase IIB	\$114,000
Underground Tank Measures	140,000
Asbestos Monitoring	<u>100,000</u>
Total	\$354,000

<u>FY-89</u>	<u>Amount</u>
USGS Study - Final Phase III	\$120,000
Underground Tank Measures	<u>20,000</u>
Total	\$140,000

	<u>Current FY-87</u>	<u>Budget FY-88</u>	<u>Budget FY-89</u>
Environmental Projects	\$654,300	\$354,000	\$140,000



LUMS PROGRAM AND ENVIRONMENTAL PROJECTS FUNDED UNDER AGRICULTURAL
OUTLEASE PROGRAM (H-6 FUNDS)

<u>FY-87 Funded</u>	<u>Amount</u>
LUMS Personnel Expenses	\$ 27,000
LUMS Operating Expenses	11,000
LUMS Digital Soil Data	18,000
LUMS Site Preparation	21,000
Tank Trail Environmental Study	11,000
Onslow Beach Coastal Management Study, Phase II	<u>50,000</u>
Total	\$138,000

<u>FY-88</u>	<u>Amount</u>
1. LUMS Operating Expenses: Hardware supplies (plotter pens, paper, computer tapes) required to operate a network of computer mapping equipment being installed 3d Qtr FY-87 under HQMC contract. Annual recurring requirement.	\$ 15,000

Impact if not provided: Automated system will not function; Marine Corps can not conduct acceptance test of \$1.0 mil contract.

2. LUMS Data Base Digitizing Contract: Acquisition of digital data from Defense Mapping Agency, USGS, and NC Land Resource Information Service for land management including support for the EIS for Land Acquisition. Annual requirement.	\$ 50,000
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Impact if not provided: Delays in completing EIS may occur, resulting in delays in Marine Corps acquisition process and training land development.

3. Onslow Beach Coastal Management Study, Phase II: Design protective measures to ensure amphibious training area is perpetually maintained for Marine Corps training. Phase I developed baseline geologic and oceanographic data; Phase II evaluates natural vs. man-induced erosion and designs protection plan. Study complete FY-89.	\$ 55,000
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Impact if not provided: Planning of major military exercises and FY-90 construction projects is hampered due to lack of documented erosion rates and design data; compliance with NC Coastal Management rules can be questioned.

Total	\$120,000
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FY-89

LUMS Operating Expenses	\$ 15,000
LUMS Data Base Digitizing Contract	<u>30,000</u>
Total	\$ 45,000

TOTAL H-6 FUNDING REQUIRMENTS:

	<u>Current FY-87</u>	<u>Budget FY-88</u>	<u>Budget FY-89</u>
Projects	\$138,000	\$120,000	\$ 45,000

HISTORIC RESOURCES PROTECTION

Preservation of historic properties will be conducted following completion of a draft Historic Preservation Plan in FY-87. Funds necessary to implement the plan are shown below:

FY-87 (Funded)

Microfilming Historic Records	\$ 7,000
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FY-88

Historic Site Testing: Jarrett's Point Mechanized Maneuver Course New River Shoreline Sites	\$242,000
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FY-89

Historic Site Testing	\$203,000
Development of Predictive Model	<u>100,000</u>
Total	\$303,000



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