

Appendix F. Refuge Operating Needs¹

¹ R5 NWRS Budget and Administration

Station	Project Title	Project No.	Ranks		Budget Category	C M N P S C E B	Costs \$ (000)		FTE		
			Region	Station			Yr1	Recurring			
Chesapeake Marshlands NWR Complex											
<i>Tier2</i>											
Chesapeake Marshlands NWR Complex	Biological/Forestry Internship Program	01001	999	2	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$45	\$15	0.00
Chesapeake Marshlands NWR Complex	Satellite Telemetry Study of Lesser Snow Geese	01004	999	23	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$50	\$0	0.00
Chesapeake Marshlands NWR Complex	Enhance Geographic Information System Capability for the Complex	01003	999	24	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$25	\$5	0.00
Chesapeake Marshlands NWR Complex	Monitoring the effects of selective timber harvesting on Forest Interior Birds and Endangered Delmarva Fox Squirrels	01002	999	26	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$78	\$10	0.00
Chesapeake Marshlands NWR Complex	Develop Visitor Education and Outreach for the Nanticoke Division.	01005	999	41	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$75	\$20	0.00
Chesapeake Marshlands NWR Complex	Control Gypsy Moth Populations	04022	999	49	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$65	\$55	0.00
Chesapeake Marshlands NWR Complex	Construct Visitor Center/Administration /Environmental Education Complex Building for Nanticoke Division	03009	999	999	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$700	\$25	0.00
Chesapeake Marshlands NWR Complex	Provide Staff, Equipment & Materials to Implement Environmental Education Programs for Nanticoke Division	03010	999	999	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$0	\$52	1.00
Chesapeake Marshlands NWR Complex	Provide Staff, Kiosk, Signs, and Interpretive Exhibits for Nanticoke Visitor Center/Environmental Education Area	03011	999	999	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$430	\$76	1.00
Chesapeake Marshlands NWR Complex	Develop Outreach with Public Events and Installing a Traveler's Information Radio Station at Nanticoke Division	03012	999	999	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$35	\$0	0.00
Chesapeake Marshlands NWR Complex	Develop Wildlife Observation Trail and Observation Tower at Nanticoke Division	03013	999	999	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$110	\$3	0.00
Chesapeake Marshlands NWR Complex	Develop Fisheries/Wildlife Dependent Recreational Opportunities for Nanticoke Division	03014	999	999	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$160	\$5	0.00
Chesapeake Marshlands NWR Complex	Develop Wildlife-Dependent (Hunting) Recreational Opportunities Nanticoke Division	03015	999	999	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$0	\$58	1.00
Chesapeake Marshlands NWR Complex	American black duck production and preferred habitats	04054	999	64	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$72	\$0	0.00
Chesapeake Marshlands NWR Complex	Restore Wetlands on Shorter's Wharf Road	04083	999	7	Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$60	\$0	0.00
Chesapeake Marshlands NWR Complex	Implement Integrated Wildlife Damage Plan for Resident Canada Geese	04084	999	60	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$25	\$5	0.00
Chesapeake Marshlands NWR Complex	Restore 7000 acres of freshwater marsh/wetlands	04085	999	8	Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$245	\$20	0.00
Chesapeake Marshlands NWR Complex	Create 89 acres of new freshwater impoundments	04087	999	15	Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$65	\$5	0.00
Station Totals	#Projects 18	Total Mgr 0.00	Total Res Spec 0.00	Total Bio's 0.00	Total LE 1.00	Total Ed/Rec 2.00	Total Cler/Admin 0.00	Total Maint 0.00	\$2240	\$354	3.00

Tier1

Blackwater NWR	Wildlife Surveys and Census at Blackwater NWR	00113	56	2	Wildlife	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$74	\$42	0.00
Blackwater NWR	Implement Timber Stand Improvement Plan	00104	91	3	Habitat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$147	\$84	0.00
Blackwater NWR	Study the Relationship of Forest Succession and use by Delmarva Fox Squirrels.	99101	106	7	Wildlife	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$192	\$0	0.00
Blackwater NWR	Enhance Volunteer Program (Education Specialist)	99023	110	8	People	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$65	\$52	1.00
Blackwater NWR	Control Invading Exotic Plant Species.	93054	120	9	Habitat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$12	\$10	0.00
Blackwater NWR	Increase Services to the Public and Help Meet Increasing Visitor Needs (Administrative Assistant)	99106	122	11	People	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$65	\$62	1.00
Blackwater NWR	Improve Maintenance of Refuge Infrastructure and Equipment (Maintenance Worker)	00016	226	15	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$65	\$63	1.00
Blackwater NWR	Inventory Resources and Apply Adaptive Management Techniques (Biologist)	00017	265	15	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$65	\$86	1.00
Blackwater NWR	Develop and Implement Refuge Management Programs (Refuge Manager)	00018	266	15	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$65	\$102	1.00
Blackwater NWR	Enhance Visitor Services (Administrative Assistant)	00019	295	15	People	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$32.5	\$26	0.50
Blackwater NWR	Develop New Visitor Center Exhibits	99022	311	21	People	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$151	\$10	0.00

Tier2

Blackwater NWR	Land Protection: survey and post newly acquired properties.	00005	374	33	Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$79	\$10	0.00
Blackwater NWR	Effects of Timber Stand Improvement practices on the endangered Delmarva Fox Squirrel and forest interior dwelling birds	99002	400	14	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$120	\$50	0.00

Station	Project Title	Project No.	Ranks		Budget Category	C M N F S C E B				Costs \$ (000)		FTE
			Region	Station		Yr1	Recurring					
Blackwater NWR	Field Validation of Delmarva Fox Squirrel Habitat Suitability Index Model	99006	400	28	Wildlife	■	■	■	■	\$76	\$0	0.00
Blackwater NWR	Historical and Cultural Resource Protection (Folk Museum)	00010	400	31	People	■	■	■	■	\$109	\$15	0.00
Blackwater NWR	Outreach to Adjacent Landowners on Resource Issues	00003	400	36	People	■	■	■	■	\$55	\$15	0.00
Blackwater NWR	Expand Grassland Bird Management Program	00008	400	37	Habitat	■	■	■	■	\$55	\$10	0.00
Blackwater NWR	Additional Wetland Restoration at Blackwater NWR	00014	400	39	Habitat	■	■	■	■	\$216	\$0	0.00
Blackwater NWR	Enhance LE Access to Refuge Lands	00015	400	40	People	■	■	■	■	\$65	\$5	0.00
Blackwater NWR	Evaluation of Delmarva Fox Squirrel use of Nest Boxes	99008	400	43	Wildlife	■	■	■	■	\$66	\$9	0.00
Blackwater NWR	Response of Delmarva Fox Squirrel to Urban Development	99009	400	44	Wildlife	■	■	■	■	\$39	\$10	0.00
Blackwater NWR	Expand Fire Management and Control Capabilities	99003	400	47	Habitat	■	■	■	■	\$168	\$7	0.00
Blackwater NWR	Enhanced Storage Facilities for Refuge Fire Control Equipment	99010	400	48	Habitat	■	■	■	■	\$48	\$0	0.00
Blackwater NWR	Expand Fire Crew Quarters	99012	400	50	Habitat	■	■	■	■	\$156	\$5	0.00
Blackwater NWR	Conduct Archaeological Background Research	98444	453	34	People	■	■	■	■	\$54	\$0	
Blackwater NWR	Improve Wildlife Observation and Environmental Education Opportunities	99016	468	32	People	■	■	■	■	\$244	\$7	0.00
Blackwater NWR	Evaluate Moist-Soil Management For Shorebirds	98006	472	30	Wildlife	■	■	■	■	\$52	\$0	0.00
Blackwater NWR	Research/Control Strategy Component of Pilot Nutria Program	99013	999	4	Wildlife	■	■	■	■	\$940	\$194	1.00
Blackwater NWR	Marsh Restoration Component of Pilot Nutria Program	99015	999	5	Habitat	■	■	■	■	\$515	\$0	0.00
Blackwater NWR	Public Education Component of the Nutria Pilot Program	99014	999	6	People	■	■	■	■	\$86	\$76	1.00
Blackwater NWR	Implement Comprehensive Forest Management Plan	00004	999	12	Habitat	■	■	■	■	\$195	\$55	0.00
Blackwater NWR	Implement Law Enforcement Program	99025	999	13	People	■	■	■	■	\$94	\$80	1.00
Blackwater NWR	Invasive, Exotic, and Overabundant Species Control	00007	999	16	Wildlife	■	■	■	■	\$75	\$10	0.00
Blackwater NWR	Develop a landowner outreach and education program for the Delmarva Fox Squirrel (HCP, Safe Harbor, etc).	98005	999	22	Habitat	■	■	■	■	\$65	\$10	
Blackwater NWR	Improve Wildlife Forage through Refuge Farming	98010	999	13	Habitat	■	■	■	■	\$75	\$86	
Blackwater NWR	Enhance Environmental Education Programs with Staff and Use of Environmental Education Manual	99020	999	27	People	■	■	■	■	\$74	\$86	1.00
Blackwater NWR	Enhance Wildlife-Dependent (Hunting) Recreational Opportunities	00001	999	29	People	■	■	■	■	\$74	\$10	0.00
Blackwater NWR	Expand Wildlife Monitoring Program	00011	999	38	Wildlife	■	■	■	■	\$32.5	\$5	0.00
Blackwater NWR	Remodel Visitor Center to provide Public Use Opportunities	98003	999	42	People	■	■	■	■	\$1680	\$30	0.00
Blackwater NWR	Develop Visitor and Resource Protection capacity at Nanticoke Refuge	99026	999	999	People	■	■	■	■	\$130	\$136	2.00
Blackwater NWR	Enhanced Prescribed Burning and Fire Suppression Control Program	99005	999	46	Habitat	■	■	■	■	\$151	\$112	1.00
Blackwater NWR	Additional Wildlife Surveys and Census at Blackwater NWR	00013	999	66	Wildlife	■	■	■	■	\$74	\$52	1.00
Blackwater NWR	Relationship of Forest Succession and use by Delmarva Fox Squirrels.	99001	999	65	Wildlife	■	■	■	■	\$118	\$16	0.00
Blackwater NWR	Improve fisheries/wildlife dependent recreational opportunities and alleviate use safety	03002	999	51	People	■	■	■	■	\$225	\$32	0.00
Blackwater NWR	Enhance Wildlife Observation Opportunities with 3 photo-blinds, observation platform, and 15 miles of hiking trails	03003	999	19	People	■	■	■	■	\$261	\$35	0.00
Blackwater NWR	Improve Visitor Observation by Redesigning Wildlife Drive, Signs and Kiosks	03001	999	10	People	■	■	■	■	\$180	\$0	0.00
Blackwater NWR	Reforestation of Prior Converted Forested Wetlands	04020	999	11	Habitat	■	■	■	■	\$120	\$11	0.00
Blackwater NWR	Contract Outdoor Classroom and Increased Environmental Education Programs	03004	999	52	People	■	■	■	■	\$255	\$59	1.00
Blackwater NWR	Implement Timber Harvesting objectives to enhance forest health and ensure forest stand replacement	04021	999	61	Habitat	■	■	■	■	\$86	\$6	0.00
Blackwater NWR	Construct Canoe Ramp, Develop Canoe Trails & Guides	03005	999	25	People	■	■	■	■	\$93	\$3	0.00
Blackwater NWR	Construct Boat Ramp at Shorters Wharf	03006	999	54	People	■	■	■	■	\$130	\$5	0.00
Blackwater NWR	Increase Outreach by Installing a Traveler's Information Radio Station, Exhibits, and Public Events	03007	999	56	People	■	■	■	■	\$38	\$3	0.00

Station	Project Title	Project No.	Ranks		Budget Category	C M N P S C E B				Costs \$ (000)		FTE
			Region	Station		Yr1	Recurring					
Blackwater NWR	Long-term Water Quality Monitoring	04052	999	20	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$13	\$2	0.00
Blackwater NWR	Continental movements of a unique population of lesser snow geese (<i>Anser c. caerulescens</i>)	04053	999	21	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$40	\$13	0.00
Blackwater NWR	Develop Habitat Management Plan	04080	999	63	Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$40	\$0	0.00
Blackwater NWR	Install Plug at Stewarts Canal	04081	999	53	Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$90	\$0	0.00
Blackwater NWR	Manage a maximum of 420 acres in croplands	04086	999	999	Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$0	\$0	0.00
Station Totals	#Projects	Total Mgr	Total Res Spec	Total Bio's	Total LE	Total Ed/Rec	Total Cler/Admin	Total Maint		\$8735	\$1809	14.50

Tier1

Martin NWR	Smith Island Restoration and Protection Feasibility Study	99031	28	1	Habitat	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$150	\$14	0.00
------------	---	-------	----	---	---------	--------------------------	-------------------------------------	--------------------------	--------------------------	-------	------	------

Tier2

Martin NWR	Colonial Waterbird Monitoring for the Chesapeake Islands Unit (Martin NWR)	00009	342	59	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$47	\$7	0.00
Martin NWR	Assess causes of SAV decline within the boundaries of the Martin NWR and Tangier Sound.	99027	400	45	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$119	\$20	0.00
Martin NWR	Evaluation of Methods to Increase the Smith Island Black Duck Population	99029	400	55	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$36	\$0	0.00
Martin NWR	Develop and provide interpretive displays and programs.	96001	400	9	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$80	\$11	
Martin NWR	Survival & Breeding Performance of Clapper Rails in Relation to Avian & Mammalian Predation	99028	400	35	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$35	\$5	0.00
Martin NWR	Construct and maintain nesting structures for birds of prey	95008	400	49	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$28	\$4	
Martin NWR	Perform archaeological background research.	98555	400	58	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$30	\$0	
Martin NWR	Protect Eroding Shoreline on Barren and Watts Islands.	98101	400	67	Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$110	\$20	
Martin NWR	Evaluate the Effect of Erosion on Trust Resources on Smith's Island.	99030	400	68	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$49	\$10	0.00
Martin NWR	Develop and implement Refuge Management programs for the Chesapeake Islands Unit (Martin NWR)	01010	999	3	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$75	\$20	0.00
Martin NWR	Inventory resources & apply adaptive management techniques for the Chesapeake Islands Unit (Martin NWR)	01011	999	18	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$80	\$10	0.00
Martin NWR	Develop resource and visitor protection and safety programs for the Chesapeake Islands Unit (Martin NWR)	01012	999	1	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$105	\$65	0.00
Martin NWR	Enhance visitor experiences to Visitor Contact station at the Chesapeake Islands Unit (Martin NWR)	01013	999	17	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$32.5	\$5	0.00
Martin NWR	Enhance Staffing Presence at Martin NWR for Full Operational Efficiency	00006	999	69	People	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$410.5	\$323	4.50
Martin NWR	Wildlife Inventory and Surveys.	93015	999	70	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$74	\$52	1.00
Martin NWR	Accomplish all Delmarva Fox Squirrel Recovery Tasks Delegated to the Refuge By 2015	04023	999	62	Wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$115	\$60	1.00

Station Totals	#Projects	Total Mgr	Total Res Spec	Total Bio's	Total LE	Total Ed/Rec	Total Cler/Admin	Total Maint		\$1576	\$626	6.50
-----------------------	------------------	------------------	-----------------------	--------------------	-----------------	---------------------	-------------------------	--------------------	--	---------------	--------------	-------------