

## **Appendix F**

# **Refuge Operations Needs System (RONS) and Maintenance Management System (MMS) Project Lists**

**Terms used in this appendix:**

**Project:** This list includes proposed projects expected to cost more than \$20,000. Table F-1 includes those projects currently in the RONS database. Tables F-2 and F-3 include those projects proposed in the CCP Alternatives.

**Project Number:** This is the number used to identify the project in Regional database system.

**Tier:** Tier 1 projects are given priority over Tier 2 projects.

**Regional Ranking:** This number indicates the project's rank in relation to all other similar refuge projects in Region 5.

**Refuge Rank:** This number indicates the project's rank in relation to all other projects on the Refuge. The number "999" indicates the Refuge has not ranked the project.

**FTE:** Full Time Staffing Equivalent. One FTE equals one person working full time for one whole year.

**First Year Cost:** Estimated costs incurred during the first year of a project - typically higher than recurring costs, due to construction, equipment purchased, or other start-up expenses.

**Recurring Cost:** Estimated average annual project cost for subsequent years; includes recurring salary and maintenance costs.

**Table F-1:** Proposed projects currently in the RONs database (FY2003).

Project Description	Tier	Refuge Rank	Regional Rank	FTEs	First Year Cost (\$1,000)	Recurring Cost (\$1,000)	Project Duration (yrs.)
Inventory resources and apply adaptive management techniques (bio/biotech)	1	999	16	1	\$128	\$63	15
Protect resources and ensure public safety (Law enforcement officer)	1	999	20	1	\$129	\$64	15
Improve maintenance of refuge infrastructure and equipment (Main/Equip Op)	1	999	34	1	\$122	\$57	15
Monitor biological resources on Fisherman Island Refuge	1	1	28	1	\$139	\$74	15
Initiate inventorying and monitoring of biological resources on ESV	2	2	65	0	\$174	\$34	15
Control nonnative plant species on ESV	1	3	223	0	\$36	\$12	15
Protect visitor safety and refuge resources	1	4	198	1	\$117	\$52	15
Enhance environmental education programs	1	5	327	0	\$102	\$6	15
Design, implement, and maintain a geographical information system (GIS) database	2	6	359	0	\$29	\$5	15
Expand public tours of FSH	1	7	285	.5	\$55	\$22	15
Study predation on colonial nesting birds on FSH	1	8	134	0	\$57	\$16	3
Create 50 acres of shrub and 50 acres of hardwood habitat on ESVNWR	2	9	385	0	\$65	\$2	5
Restore 120 acres of grassland on ESVNWR	2	11	414	0	\$54	\$4	8
Develop new visitor center exhibits including a diorama and video segment	2	10	999	0	\$116	\$3	2
Construct a 3-mile bike trail to Kiptopeke State Park	1	12	600	0	\$44	\$6	2
Construct 2 vehicle pull-offs for habitat management interpretation	1	13	600	0	\$32	0	1
Conduct deer surveys and habitat impact analysis on FSH NWR	2	14	999	0	\$122	\$37	3
Construct a boat ramp for fishing opportunity if the Service acquires the Wise Point Corporation property	1	15	999	0	\$629	\$78	15

Tables F-2 and F-3 do not include a project number, Tier, Refuge rank or Regional Rank because they are proposed RONS projects. They are not in the current RONS system, and therefore have not been assigned a project number and have not been ranked.

**Table F-2:** Additional biological projects proposed for Alternative B, none of which are currently identified in the RONS database.

Project Description	FTEs	First Year Cost (\$1,000)	Recurring Cost (\$1,000)	Project Duration
Contract a forester to develop appropriate hardwood and pine forest management techniques, also to include understory, shrub, grassland, and invasive species management recommendations.	0	\$20	0	1 yr
Hire 2 seasonal biological technicians to monitor; (1) invasive species response to control methods, (2) shrub fruit production, and (3) deer enclosure and control plots. These people would also assist in invasive species control on approx. 175 impacted acres.	2 Temp/ Seasonal	\$30	\$24	15 yrs
Fencing for deer enclosures (1,260 meters), herbicide for treatment of approx. 175 acres of invasive species, and contract Animal Damage Control to remove feral cats on the ESVNWR.	0	\$25 total \$14 - pred. Contract \$8 - fencing \$3 - herbicide	\$3 - herbicides	8 yrs
Hire 1 seasonal maintenance worker to apply multiple applications of herbicide to approximately 175 impacted acres, assist in removal of 15 acres of pine, and assist in planting 31 acres of hardwood. Hire a seasonal biological technician to assist in bird, mammal, reptile, and amphibian surveys on ESV and FI NWRs, and to assist in tiger beetle surveys on refuge's southern tip beach.	.5 .5	\$12.5 \$15 \$27.5 total	\$12.5 \$12	15 yrs
Contract a vegetation survey on FINWR. Contract an invertebrate survey for FI and ESVNWR. Contract a tiger beetle larval survey on refuge's southern tip beach and Fisherman Island (2 days/season for 3 years).	0	\$5 \$30 \$1 \$36 total	\$1 for beetle study (total of 3 yrs)	3 yrs
Burn test plots of invasive species to determine the effectiveness of using fire management for eradicating invasives*.	0	\$45	\$20	3 yrs

\* This project would not be included in the RONS database. Instead, they would be funded through a separate pool of money that is set aside for fire management.

**Table F-3:** Additional public use projects proposed for Alternative B, none of which are currently identified in the RONS database.

Project Description	Staff	Yr.1 cost x 1k	Recurring x 1k	Project Dur.
Hire a Recreational Assistant to help develop 9 interpretive displays for trail kiosks, develop table top exhibits for outreach, update 3 interpretive signs; develop 11 new environmental lesson plans, annual teacher's workshops, photography workshops, and a series of monthly educational programs.	1.0	GS-5 Rec. Assistant \$40  \$10 for exhibits	\$34	15 yrs
Develop and produce an additional management video segment describing hardwood and understory management techniques, also install a closed circuit color TV system in the VC for the active osprey nest platform. Construct a new Diorama (Rewrite existing RONS # 93111).	0	(this would be a revision to an existing RONS project) Osprey cam-\$ 2	0	3 yrs
Hire one seasonal Recreational Assistant to staff the Visitor Center, help coordinate the volunteer program, and assist in starting a refuge "Friends" group.	1.0	GS-5 Rec. Assistant  \$40	\$34	15 yrs
Hire a Realty Specialist to coordinate acquisition and easement efforts on the lower Delmarva Peninsula between the Service and partners.	1.0	GS-9/11 Realty Specialist - \$55	\$58	15 yrs
Hire a full-time Maintenance Worker to maintain landscaping around VC, construction of two butterfly gardens and 2 demonstration plots and 1-3 private home gardens emphasizing landscaping practices for neotropical migrants, work with local nurseries to stock native plants, construct a refuge greenhouse, construct and maintain 3-mile bike trail.	.5	WG-4  Maintenance Worker  \$15	\$12.5	15 yrs
Contract a study to assess the socio-economic benefits of the refuge to the county.	0	\$50	0	2yrs
Construct a boardwalk, deck, two interpretive panels, trailhead sign, and gate as part new Wise Point trail.	0	\$22		1yr

**Table F-4.** Refuge Maintenance Management System.

Project #	Project Name	Refuge Rank	Regional Rank	Cost Estimate (\$1,000)
00001	Replace 1988 Dodge pick-up	1	1	\$19
97001	Repair leaking Visitor Center roof	2	9	\$64
97003	Repair heating system in residence and motor pool	3	87	\$25
00003	Regrade Environmental Education trail and build boardwalk	4	91	\$42
93016	Phase I: Chip or resurface and seal coat 1.75 miles of Refuge roads	6	53	\$500
01006	Replace 1989 Chevy pickup	7	93	\$19
00008	Replace existing low band communication system	8	36	\$82
99001	Replace 1992 Ford Tempo	9	65	\$18
98507	Replace Visitor Center exhibits	10	193	\$124
99004	Replace residence windows and vinyl siding	11	999	\$43
00007	Replace 1977 International Truck and Lowboy Trailer	12	999	\$207
01005	Replace 1994 Ford Taurus	13	267	\$19
93016	Phase II: Chip or resurface and seal coat 1.75 miles of Refuge roads	14	500	\$500
01003	Remove old military towers on FSH NWR	14	999	\$10
01002	Remove old water plant and four well houses on ESV NWR	15	999	\$36
01001	Remove communication building at GATR tract of the ESV NWR	16	999	\$67
01004	Remove generator and pump house at the GATR tract of the ESV NWR	17	999	\$31
93035	Replace 1975 farm tractor	18	500	\$49
93113	Replace hot water heating unit in motor pool	99	999	\$11
00004	Seal coat Visitor Center entrance road and parking lots	99	999	\$8
02001	Repair Wise Point Road and boat ramp	999	999	\$300