A photograph of a dense forest scene. On the left, a tall evergreen tree stands prominently. The background is filled with more trees, their green needles creating a textured pattern. Sunlight filters through the upper branches, casting dappled light and shadows on the forest floor. The overall atmosphere is serene and natural.

APPENDIX C

CANAVERAL NATIONAL SEASHORE

Appendix C: Canaveral National Seashore

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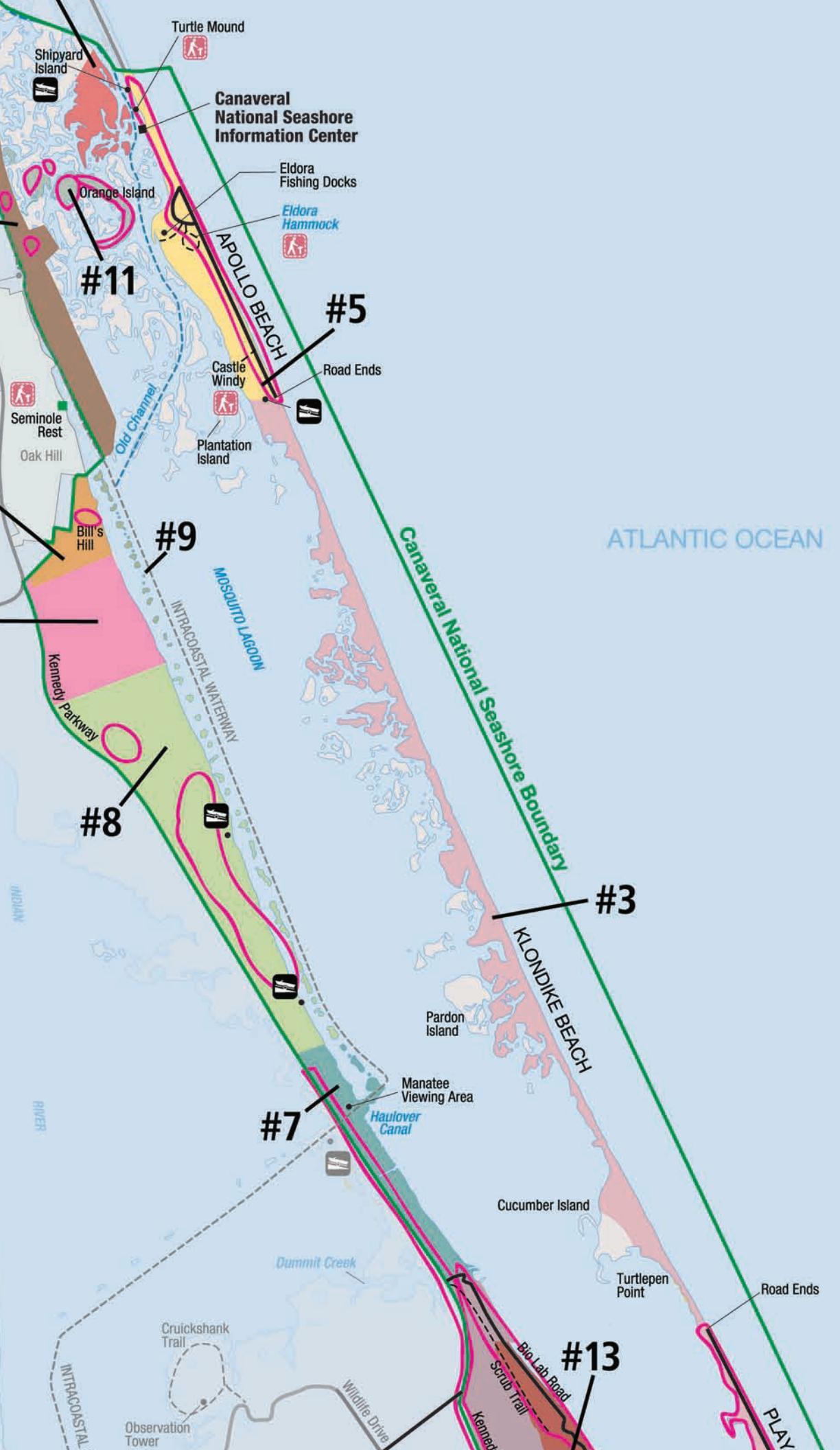
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SUMMARY DESCRIPTION OF VEGETATION CATEGORIES REFERENCED IN APPENDIX

Vegetation Category	Vegetation Subcategories
Agriculture / Disturbed Land / Developed Area	Agriculture areas, barren lands, mixed grasslands, drought-deciduous shrublands, shrub and brush lands, and exotic plants.
Grassland / Coastal Strand	Dry prairies, coastal grasslands, coastal strands, and coastal uplands.
Mangrove	Mangrove fringe, mangrove forest and woodland, and mangrove shrubland.
Coastal Marsh	Salt marshes, salt flats, and salt ponds.
Beach / Dune	Beach and dune areas.
Saw Grass Marsh / Wet Prairie / Freshwater Marsh	Freshwater marshes and wet prairies.
Shrubland	Sclerophyllous evergreen shrublands, mixed dry shrublands, gallery shrublands, thicket scrub, coastal scrub, thorn scrub, and coastal hedge. In the Virgin Island parks it includes gallery shrublands, mixed, dry shrublands, and coastal hedge.
Upland Dry / Mesic Forest	Tropical hardwood hammocks, pine flatwoods, south Florida rocklands, mixed hardwood/pine forests, coastal hammock, xeric oak scrub, oak-saw palmetto scrub, drought-deciduous forests, semi-deciduous forests, gallery semi-deciduous forests, semi-evergreen forests, evergreen woodlands, gallery semi-deciduous woodlands, semi-deciduous woodlands, drought-deciduous woodlands, upland moist forests, and gallery moist forests.
Wetland Forest	Mixed cypress strands, cypress sloughs, cypress domes, bay swamps, hardwood swamp forests, basin moist forests, mixed swamps, and shrub swamps.

VEGETATION CATEGORY	DESCRIPTION
Agriculture/Disturbed Developed Area (incl)	
Mangrove	
Coastal Marsh	
Grassland/Coastal Shrubland	
Sawgrass Marsh/Wetland Forest	
Beach/Dune	
Shrubland	
Upland Dry/Mesic Forest	
Wetland Forest	
Open Water	
Boat Launch	
Interpretive Trail	
Hiking Trail	





LAND MANAGEMENT

CNS	Canaveral National Seashore
KSC	Kennedy Space Center
MINWR	Merritt Island National Wildlife Refuge
	KSC+CNS
	KSC+CNS+MINWR
	CNS
	Boat Launch
	Interpretive Trail
	Hiking Trail



APPENDIX C: CANAVERAL NATIONAL SEASHORE

TABLE C-1: ACRES WITHIN VEGETATION CATEGORIES THAT COULD POTENTIALLY BE RESTORED UNDER ALTERNATIVES A, B, AND C^a

Vegetation Category	Alternative A	Alternative B	Alternative C	
	Potential Acres Passively Restored	Potential Acres Passively Restored	Potential Acres Passively Restored	Potential Acres Actively Restored
Canaveral National Seashore				
Agriculture / Disturbed Land / Developed Area (including roads)	95	95	0	95
Grassland / Coastal Strand	201	201	183	18
Mangrove	396	396	363	33
Beach / Dune	121	121	113	8
Coastal Marsh	854	854	784	70
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	52	52	52	<1
Shrubland	72	72	67	5
Upland Dry / Mesic Forest	1,356	1,356	1,281	75
Wetland Forest	126	126	126	0
Total	3,273	3,273	2,969	304

a. Although treatments would occur under alternative A to control exotic plant species, it is assumed that within the life of the plan all acres may not be restored. Under alternatives B and C, it is assumed all acres would be restored due to re-treatment of exotic plant species under an optimal re-treatment schedule (see the "Alternatives" Chapter, Alternative B, Maintaining Treated Sites section).

Key to Table C-2 below

- a. Gross infested acres of exotic plants within Canaveral National Seashore were based on data collected by the NPS exotic plant management team (APCAM database) and by park staff.
- b. Initial treatment methods for each area under alternative A were based on data provided by EPMT in the APCAM database or from communications with park staff (see the "Alternatives" Chapter, Alternative A, Initial Treatment section). Initial treatment methods for Alternatives B and C were determined by application of the treatment method decision tool (see the "Alternatives" Chapter, Alternative B, Treatment Method Decision Tool section).
- c. Re-treatment methods under alternative A were assumed to be the same as initial treatment (see the "Alternatives" Chapter, Alternative B, Maintaining Treated Sites section). Re-treatment methods under alternatives B and C were determined by application of the new treatment method decision tool (see the "Alternatives" Chapter, Alternative B, Treatment Method Decision Tool section).
- d. Herbicides applied under alternative A are based on prior treatment data provided by EPMT or the park staff. Herbicides that could be applied under alternatives B and C were determined based on the exotic species present.
- e. The amount of herbicide applied under alternative A was determined based on prior treatment data provided by EPMT or the park staff. If data on prior herbicide use for a treatment area under Alternative A could not be determined, the potential herbicide use was calculated based on the average use of each herbicide within the parks in the past 5 years as provided in the APCAM database. The average application rate of metsulfuron methyl was 0.05 undiluted gallons; glyphosate was 0.14 undiluted gallons; imazapyr was 0.20 undiluted gallons; and triclopyr was 0.91 undiluted gallons. To determine the range of potential herbicide use for treatment areas under alternative A when no prior information existed, the average application rate was multiplied by the gross infested acres. This same calculation was used to calculate the range of potential herbicide use under alternatives B and C. See the "Environmental Consequences" Chapter, General Methodology, Treatment and Re-treatment of Exotic Plants section for further explanation.
- f. Under alternatives A and B all treatment areas would be restored passively. Under alternative C, areas within the park where active restoration could take place was based on a decision framework described on the "Environmental Consequences" Chapter, Alternative C, Proposed Restoration Program.



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK**

Area ID Treatment	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Treating Area (undiluted gal.) ^e	Vegetation Category	Sensitive Resources	
									Restoration ^f	
Alternative A										
1	NA	Brazilian pepper Australian pine	91	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	208	Agriculture / Disturbed Land / Developed Area (including roads)	Wood stork E. indigo snake Beach mouse	Passive
2	NA	Brazilian pepper Australian pine	98	Basal bark Cut surface application Manual pulling	Same as initial treatment	Imazapyr	239	Agriculture / Disturbed Land / Developed Area (including roads)	Wood stork E. indigo snake Florida scrub jay Visitor use areas	Passive



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
3	NA	Brazilian pepper	1,186	Basal bark Manual pulling	Same as initial treatment	Triclopyr	398	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E. indigo snake Beach mouse Cultural resources Visitor use areas
4	NA	Brazilian pepper Australian pine	107	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	393	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	E. indigo snake Florida scrub jay Cultural resources Visitor use areas



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
5	NA	Brazilian pepper Australian pine	156	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	50	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Beach / Dune Mangrove Coastal Marsh Shrubland Upland Dry / Mesic Forest	E. indigo snake Beach mouse Cultural resources Visitor use areas
6	NA	Brazilian pepper	24	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	22	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E.indigo snake Bald eagle Cultural resources Visitor use areas



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Area ID	Treatment Priority for Removal	Treatment	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
7	NA	Brazilian pepper Australian pine	216	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	197	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Florida scrub jay Cultural resources Visitor use areas
8	NA	Brazilian pepper Australian pine	625	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	569	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use areas



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
9	NA	Brazilian pepper	18	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	16	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune	Cultural resources Visitor use areas Cultural resources Visitor use areas E. indigo snake Bald eagle Cultural resources Visitor use areas
10	NA	Brazilian pepper	186	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	169	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Shrubland Upland Dry / Mesic Forest	E. indigo snake Bald eagle Cultural resources Visitor use areas E. indigo snake Bald eagle Cultural resources Visitor use areas E. indigo snake Bald eagle Cultural resources Visitor use areas
11	NA	Brazilian pepper	78	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	71	Mangrove Coastal Marsh Beach / Dune Upland Dry / Mesic Forest	E. indigo snake Bald eagle Cultural resources Visitor use areas
12	NA	Brazilian pepper	51	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	46	Mangrove Coastal Marsh Upland Dry / Mesic Forest	E. indigo snake Cultural resources Visitor use area



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
13	NA	Brazilian pepper	77	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr Imazapyr	70 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E. indigo snake Florida scrub jay Cultural resources Visitor use area Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use area	Passive
14	NA	Brazilian pepper	360	Basal bark Cut surface application Manual pulling	Same as initial treatment	Triclopyr	328 Agriculture / Disturbed Land / Developed Area (including roads) Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest	Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use area	Passive

**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Area ID Treatment	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
									Therapeutic Area (undiluted gal.) ^e
Alternative B									
1	1	Brazilian pepper Australian pine	91	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate Imazapyr Triclopyr	13–83	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Beach / Dune Mangrove Coastal Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E. indigo snake Beach mouse
2	1	Brazilian pepper Australian pine	98	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate Imazapyr Triclopyr	14–89	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E. indigo snake Florida scrub jay Visitor use area Wetland Forest



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
3	1	Brazilian pepper	1,186	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate Imazapyr Triclopyr	169–1,097 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E. indigo snake Beach mouse Cultural resources Visitor use areas	Passive
4	1	Brazilian pepper	107	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate Imazapyr Triclopyr	15–97 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	E. indigo snake Florida scrub jay Cultural resources Visitor use areas	Passive



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
5	1	Brazilian pepper Australian pine	156	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate ImazaPyr Triclopyr	22–142 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Beach / Dune Mangrove Coastal Marsh Shrubland Upland Dry / Mesc Forest	E. indigo snake Beach mouse Cultural resources Visitor use areas	Passive
6	1	Brazilian pepper	24	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate ImazaPyr Triclopyr	3–22 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesc Forest	Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use areas	Passive



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Area ID Treatment	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f	
7	1	Brazilian pepper	216	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	30–197	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Florida scrub jay Cultural resources Visitor use areas	Passive
8	1	Brazilian pepper Australian pine	625	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	88–569	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use areas	Passive



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
9	2	Brazilian pepper	18	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	3–16	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune	Visitor use area Cultural resources Visitor use areas
10	1	Brazilian pepper	186	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	26–169	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Shrubland Beach / Dune Upland Dry / Mesic Forest	E. Indigo snake Bald eagle Cultural resources Visitor use areas
11	2	Brazilian pepper	78	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	11–71	Mangrove Coastal Marsh Beach / Dune Upland Dry / Mesic Forest	E. Indigo snake



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
12	1	Brazilian pepper	51	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	7–46	Mangrove Coastal Marsh Upland Dry / Mesic Forest	E. indigo snake Cultural resources Visitor use area
13	1	Brazilian pepper	77	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	11–70	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Florida scrub jay Cultural resources Visitor use area
14	1	Brazilian pepper	360	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	50–328	Agriculture / Disturbed Land / Developed Area (including roads) Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest	Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use area

**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Area ID Treatment	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f	
									Total initial Herbicide Applied to Treatment Area (undiluted gal.) ^e	Active Passive
1	1	Brazilian pepper Australian pine	91	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate Imazapyr Triclopyr	13-83	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Beach / Dune Mangrove Coastal Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E. indigo snake Beach mouse	Active Passive
2	1	Brazilian pepper Australian pine	98	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate Imazapyr Triclopyr	14-89	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E. indigo snake Florida scrub jay Visitor use areas	Active Passive



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
3	1	Brazilian pepper	1,186	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate Imazapyr Triclopyr	169–1,097 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest	Wood stork E. indigo snake Beach mouse Cultural resources Visitor use areas	Active Passive
4	1	Brazilian pepper	107	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate Imazapyr Triclopyr	15–97 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest	E. indigo snake Florida scrub jay Cultural resources Visitor use areas	Active Passive

**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
5	1	Brazilian pepper Australian pine	156	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate ImazaPyr Triclopyr	22–142 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Beach / Dune Mangrove Coastal Marsh Shrubland Upland Dry / Mesc Forest	E. indigo snake Beach mouse Cultural resources Visitor use areas	Active Passive
6	1	Brazilian pepper	24	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Glyphosate ImazaPyr Triclopyr	3–22 Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesc Forest	Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use areas	Active Passive



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Area ID Treatment	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f	
7	1	Brazilian pepper	216	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	30–197	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Florida scrub jay Cultural resources Visitor use areas	Active Passive
8	1	Brazilian pepper Australian pine	625	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	88–569	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use areas	Active Passive



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f
9	2	Brazilian pepper	18	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	3–16	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Beach / Dune	Visitor use areas Visitor use areas Cultural resources Visitor use areas
10	1	Brazilian pepper	186	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	26–169	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Shrubland Beach / Dune Upland Dry / Mesic Forest	E. Indigo snake Bald eagle Cultural resources Visitor use areas
11	2	Brazilian pepper	78	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	11–71	Mangrove Coastal Marsh Beach / Dune Upland Dry / Mesic Forest	E. Indigo snake



**TABLE C-2: CANAVERAL NATIONAL SEASHORE
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)**

Area ID Treatment	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Vegetation Category	Sensitive Resources	Restoration ^f	
12	1	Brazilian pepper	51	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	7-46	Mangrove Coastal Marsh Upland Dry / Mesic Forest	E. indigo snake Cultural resources Visitor use area	Active Passive
13	1	Brazilian pepper	77	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	11-70	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Shrubland Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Florida scrub jay Cultural resources Visitor use area	Active Passive
14	1	Brazilian pepper	360	Basal bark leave Foliar ground leave Foliar ground remove Cut surface leave Cut surface remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr Glyphosate	50-328	Agriculture / Disturbed Land / Developed Area (including roads) Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	Wood stork E. indigo snake Bald eagle Florida scrub jay Cultural resources Visitor use area	Passive



TABLE C-3: CANAVERAL NATIONAL SEASHORE AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE A

Vegetation Category	Total Acres to be initially Treated	Potential Minimum Treatment for herbicide (gallons)	Initial Treatment (gallons/acre)	Potential Minimum Application of Herbicide Over Time ^c			Potential Maximum Application of Herbicide Over Time ^c		
				36 (months)	72 (months)	108 (months)	Initial Treatment (gallons/acre)	36 (months)	72 (months)
Agriculture / Disturbed Land / Developed Area (including roads)	95	5	86	5	4	3	86	79	70
Grassland / Coastal Strand	201	10	183	10	9	8	7	183	166
Mangrove	396	20	360	20	18	16	14	360	328
Beach / Dune	121	6	110	6	6	5	4	110	100
Coastal Marsh	854	43	777	43	39	35	30	777	707
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	52	3	47	3	2	2	2	47	43
Shrubland	72	4	66	4	3	3	3	66	60
Upland Dry / Mesic Forest	1,356	68	1,234	68	62	55	48	1,234	1,123
Wetland Forest	126	6	115	6	6	5	4	115	104
Total	3,273	164	2,978	164	149	133	116	2,978	2,710
									2,115

a. Potential minimum application of herbicide is calculated by taking the average minimum concentration of herbicide that could be applied (0.05 undiluted gallons/acre) multiplied by the acres to be treated. See "Environmental Consequences" Chapter, General Methodology, Treatment and Re-treatment of Exotic Plants section for a discussion on the average rate of herbicide application.

b. Potential maximum application of herbicide is calculated by taking the average maximum concentration of herbicide that could be applied (0.91 undiluted gallons/acre) multiplied by the acres to be treated.

c. It was assumed that re-treatment on average would occur every 3 years and that the number of stems treated would decline by a rate of approximately 11%. See the "Environmental Consequences" Chapter, General Methodology, Treatment and Re-treatment of Exotic Plants section.

**TABLE C-4: CANAVERAL NATIONAL SEASHORE
AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE B**

Vegetation Category	Total Acres to be Initially Treated	Potential Minimum Application of Herbicide (gallons) ^a	Potential Maximum Application of Herbicide (gallons) ^b
Agriculture / Disturbed Land / Developed Area (including roads)	95	5	86
Grassland / Coastal Strand	201	10	183
Mangrove	396	20	360
Beach / Dune	121	6	110
Coastal Marsh	854	43	777
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	52	3	47
Shrubland	72	4	66
Upland Dry / Mesic Forest	1,356	68	1,234
Wetland Forest	126	6	115
Total	3,273	164	2,978

a. Potential minimum application of herbicide is calculated by taking the average minimum concentration of herbicide that could be applied (0.05 undiluted gallons/acre) multiplied by the acres to be treated. See the "Environmental Consequences" Chapter, General Methodology, Treatment and Re-treatment of Exotic Plants section for a discussion on the average rate of herbicide application.

b. Potential maximum application of herbicide is calculated by taking the average maximum concentration of herbicide that could be applied (0.91 undiluted gallons/acre) multiplied by the acres to be treated.



TABLE C-5: CANAVERAL NATIONAL SEASHORE

AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE B^a

Vegetation Category	Initial Treatment	Number of Months										Potential Minimum Application of Herbicide (gallons/acre)				Potential Maximum Application of Herbicide (gallons/acre)			
		6	12	18	24	30	36	42	48	54	60	60	66	72	60	66	72		
Agriculture / Disturbed Land / Developed Area (including roads)	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Grassland / Coastal Strand	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
Mangrove	20	10	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0		
Beach / Dune	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Coastal Marsh	43	21	11	5	3	1	1	0	0	0	0	0	0	0	0	0	0		
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Shrubland	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Upland Dry / Mesic Forest	68	34	17	8	4	2	1	1	0	0	0	0	0	0	0	0	0		
Wetland Forest	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	164	82	41	20	10	5	3	1	1	0	0	0	0	0	0	0	0		
Agriculture / Disturbed Lands / Developed Area (including roads)	86	43	22	11	5	3	1	1	0	0	0	0	0	0	0	0	0		
Grasslands / Coastal Strand	183	91	46	23	11	6	3	1	1	0	0	0	0	0	0	0	0		
Mangrove	360	180	90	45	23	11	6	3	1	1	0	0	0	0	0	0	0		
Beach / Dune	110	55	28	14	7	3	2	1	0	0	0	0	0	0	0	0	0		
Coastal Marsh	777	389	194	97	49	24	12	6	3	2	1	0	0	0	0	0	0		
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	47	24	12	6	3	1	1	0	0	0	0	0	0	0	0	0	0		
Shrubland	66	33	16	8	4	2	1	1	0	0	0	0	0	0	0	0	0		
Upland Dry / Mesic Forest	1,234	617	308	154	77	39	19	10	5	2	1	1	0	0	0	0	0		
Wetland Forest	115	57	29	14	7	4	2	1	0	0	0	0	0	0	0	0	0		
Total	2,978	1,489	745	372	186	93	47	23	12	6	3	1	1	1	1	1	1		

a. It was assumed that re-treatment on average every 6 months would result in 50% less the number of stems that would need to be treated and therefore only 50% of the prior herbicide use would be applied. See the "Environmental Consequences" Chapter, General Methodology, Treatment and Re-treatment of Exotic Plants section.

**TABLE C-6: CANAVERAL NATIONAL SEASHORE
POTENTIAL MINIMUM AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE C**

Vegetation Category	Potential minimum application of herbicide (gallons) for initial treatment ^a	Potential minimum application of herbicide (gallons) for re-treatment ^a	Number of Months									
			6	12	18	24	30	36	42	48	54	60
Agriculture / Disturbed Land / Developed Area (including roads)	5	0	0	0	0	0	0	0	0	0	0	0
Grassland / Coastal Strand	10	9	5	2	1	1	<1	0	0	0	0	0
Mangrove	20	18	9	5	2	1	1	<1	0	0	0	0
Beach / Dune	6	6	3	1	1	<1	0	0	0	0	0	0
Coastal Marsh	43	39	20	10	5	2	1	1	<1	0	0	0
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	3	3	1	1	<1	0	0	0	0	0	0	0
Shrubland	4	3	2	1	<1	0	0	0	0	0	0	0
Upland Dry / Mesic Forest	68	64	32	16	8	4	2	1	1	<1	0	0
Wetland Forest	6	6	3	2	1	<1	0	0	0	0	0	0
Total	164	148	74	37	19	9	5	2	1	1	<1	0

a. It was assumed for the analysis that only those acres that would be allowed to passively restore would continue to be re-treated with herbicides.

b. It was assumed that re-treatment on average every 6 months would result in 50% less the number of stems that would need to be treated and therefore only 50% of the prior herbicide use would be applied. See the "Environmental Consequences" Chapter, General Methodology, Treatment and Re-treatment of Exotic Plants section.



**TABLE C-7: CANAVERAL NATIONAL SEASHORE
POTENTIAL MAXIMUM AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE C**

Vegetation Category	Potential maximum application of herbicide (gallons/acre) ^a	Number of Months							Potential Maximum Application of Herbicide (gallons/acre) ^b
		6	12	18	24	30	36	42	
Agriculture / Disturbed Land / Developed Area (including roads)	86	0	0	0	0	0	0	0	0
Grasslands / Coastal Strands	183	167	83	42	21	10	5	3	1
Mangroves	360	330	165	83	41	21	10	5	3
Beach / Dune	110	103	51	26	13	6	3	2	1
Coastal Marsh	777	713	357	178	89	45	22	11	6
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	47	47	24	12	6	3	1	1	<1
Shrubland	66	61	30	15	8	4	2	1	<1
Upland Dry / Mesic Forest	1,234	1,166	583	291	146	73	36	18	9
Wetland Forests	115	115	57	29	14	7	4	2	1
Total	2,978	2,702	1,351	675	338	169	84	42	21
									11
									5
									3
									1
									1

a. It was assumed for the analysis that only those acres that would be allowed to passively restore would continue to be re-treated with herbicides.

b. It was assumed that re-treatment on average every 6 months would result in 5% less the number of stems that would need to be treated and therefore only 50% of the prior herbicide use would be applied. See the "Environmental Consequences" Chapter, General Methodology, Treatment and Re-treatment of Exotic Plants section.

**TABLE C-8: CANAVERAL NATIONAL SEASHORE
DISTRIBUTION OF APPROPRIATE TREATMENT METHODS BY VEGETATION CATEGORY UNDER ALTERNATIVE A**

Canaveral National Seashore	Total Acres within Park	Total Potential Acres Infested within Park	Initial Treatment Methods ^a	Re-treatment Methods ^a
			Basal Bark, Cut / Stump, Cut Surface Application, Foliar Ground and Leave, or Manual Pulling	Basal Bark, Cut / Stump, Cut Surface Application, Foliar Ground and Leave, or Manual Pulling
Agriculture / Disturbed Land / Developed Area (including roads)	527	95		95
Grassland / Coastal Strand	1,040	201	201	201
Mangrove	1,153	396	396	396
Beach / Dune	199	121	121	121
Coastal Marsh	3,131	854	854	854
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	378	52	52	52
Shrubland	312	72	72	72
Upland Dry / Mesic Forest	7,231	1,356	1,356	1,356
Wetland Forest	646	126	126	126
Total	14,617	3,273	3,273	3,273

a. It was assumed under alternative A that re-treatment methods occur approximately every 3 years and would therefore be the same as initial treatment methods (see the "Alternatives" Chapter, Alternative B, Maintaining Treated Sites section).



**TABLE C-9: CANAVERAL NATIONAL SEASHORE
DISTRIBUTION OF APPROPRIATE TREATMENT METHODS BY VEGETATION CATEGORY UNDER ALTERNATIVE B**

Canaveral National Seashore	Total Acres within Park	Total Potential Acres Infested within Park	Initial Treatment Methods ^a						Re-treatment Methods ^a Foliar Ground and Remove or Leave; Manual Pulling	
			Basal Bark		Foliar		Cut Stump			
			Leave in Place	Ground and Remove	Ground and Leave in Place	Remove	Leave in Place			
Agriculture / Disturbed Land / Developed Area (including roads)	527	95	45	51	41	55	45	95		
Grassland / Coastal Strand	1,040	201	74	104	74	106	74	201		
Mangrove	1,153	396	277	280	289	281	277	396		
Beach / Dune	199	121	84	84	84	84	84	121		
Coastal Marsh	3,131	854	498	501	514	503	498	854		
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	378	52	19	20	20	20	19	52		
Shrubland	312	72	33	39	32	40	33	72		
Upland Dry / Mesic Forest	7,231	1,356	543	706	542	714	543	1,356		
Wetland Forest	646	126	44	50	44	50	44	126		
Total	14,617	3,273	1,616	1,835	1,639	1,855	1,617	3,273		

a. The distribution of appropriate treatment methods was determined based on application of a new treatment method decision tool described in the "Alternatives" Chapter, Alternative B. Treatment Method Decision Tool section.

**TABLE C-10: CANAVERAL NATIONAL SEASHORE
DISTRIBUTION OF APPROPRIATE TREATMENT METHODS BY VEGETATION CATEGORY UNDER ALTERNATIVE C**

Canaveral National Seashore	Total Acres within Park	Total Potential Acres Infested within Park	Initial Treatment Methods ^a				Re-treatment Methods ^b Foliar Ground and Remove or Leave, Manual Pulling
			Basal Bark	Foliar	Cut Stump	Leave in Place	
			Leave in Place	Ground and Remove	Ground and Leave in Place	Remove	
Agriculture / Disturbed Land / Developed Area (including roads)	527	95	45	51	41	55	45
Grassland / Coastal Strand	1,040	201	74	104	74	106	74
Mangrove	1,153	396	277	280	289	281	277
Beach / Dune	199	121	84	84	84	84	84
Coastal Marsh	3,131	854	498	501	514	503	498
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	378	52	19.	20	20	20	19
Shrubland	312	72	33	39	32	40	33
Upland Dry / Mesic Forest	7,231	1,356	543	706	542	714	543
Wetland Forest	646	126	44	50	44	50	44
Total	14,617	3,273	1,616	1,835	1,639	1,855	1,617
							2,969

a. The distribution of appropriate treatment methods was determined based on application of a new treatment method decision tool described in the "Alternatives" Chapter, Alternative B, Treatment Method Decision Tool section.

b. The acres to be re-treated are those that would be allowed to passively restore and are not subject to active restoration (see table C-1 for acres actively and passively restored).