



APPENDIX B

BISCAYNE NATIONAL PARK

Appendix B: Biscayne National Park

Maps

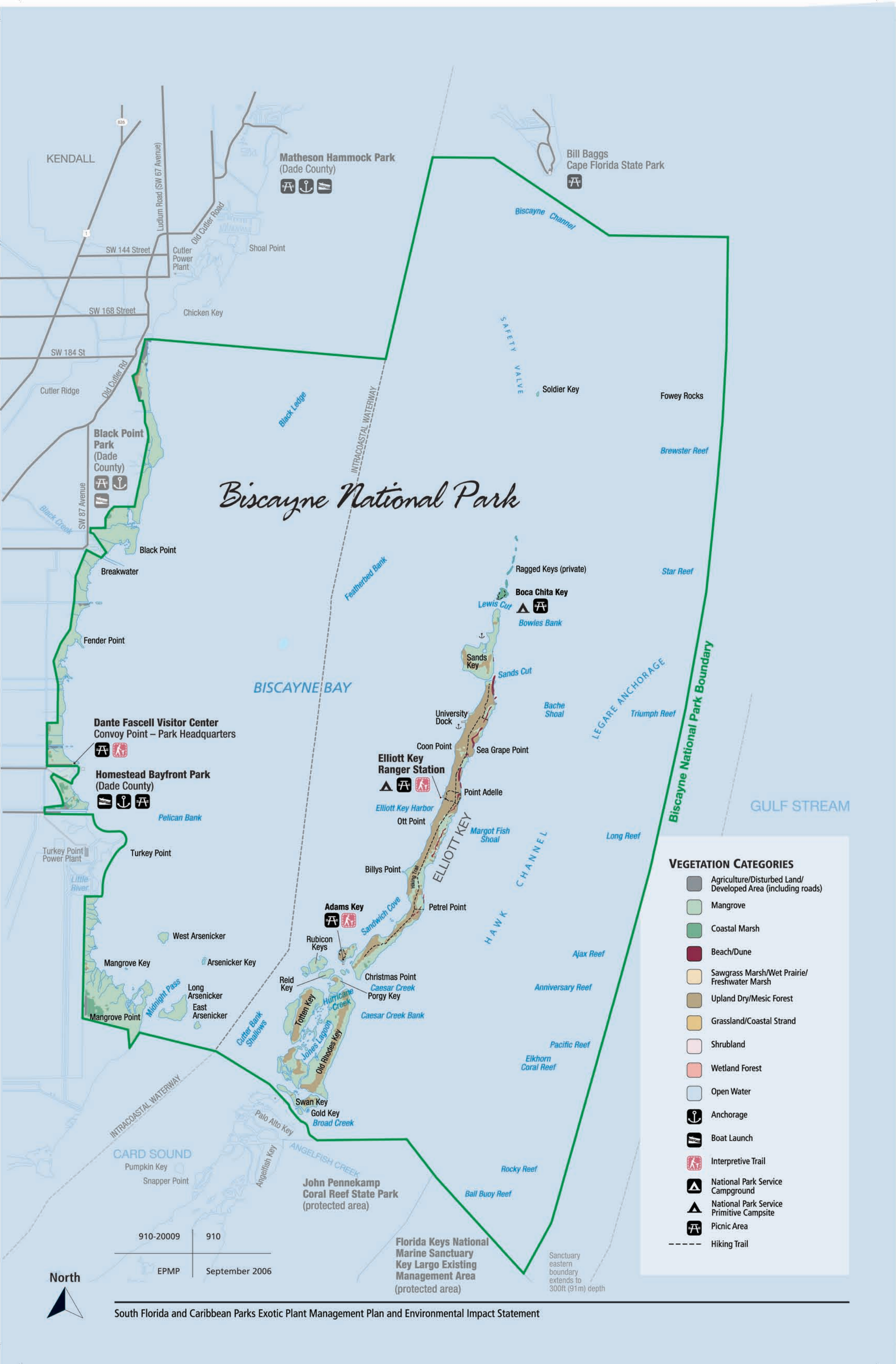
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SUMMARY DESCRIPTION OF VEGETATION CATEGORIES REFERENCED IN APPENDIX

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.
Sawgrass 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.



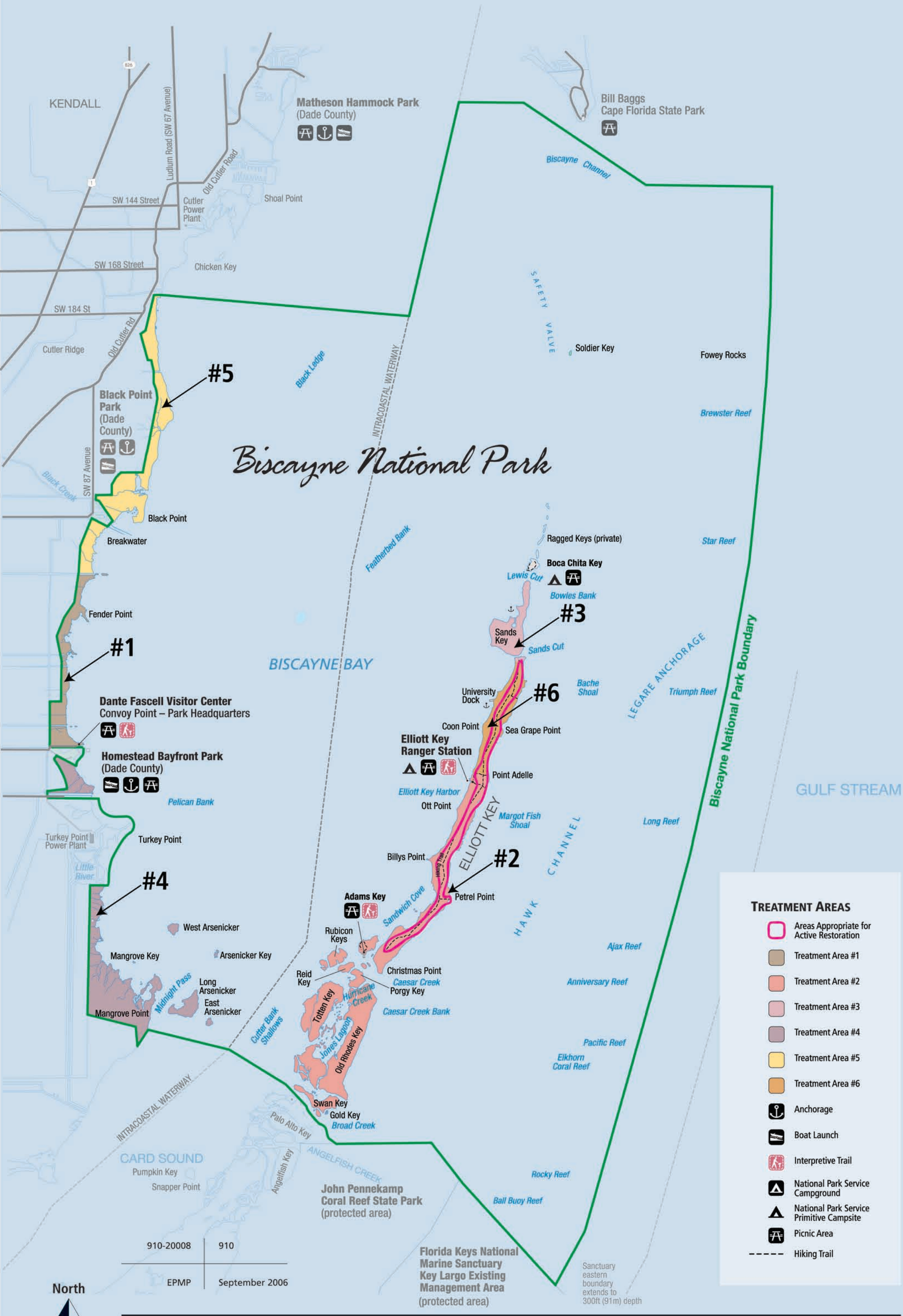
Biscayne National Park

VEGETATION CATEGORIES

- Agriculture/Disturbed Land/Developed Area (including roads)
- Mangrove
- Coastal Marsh
- Beach/Dune
- Sawgrass Marsh/Wet Prairie/Freshwater Marsh
- Upland Dry/Mesic Forest
- Grassland/Coastal Strand
- Shrubland
- Wetland Forest
- Open Water
- Anchorage
- Boat Launch
- Interpretive Trail
- National Park Service Campground
- National Park Service Primitive Campsite
- Picnic Area
- Hiking Trail

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North



APPENDIX B: BISCAYNE NATIONAL PARK TREATMENT AREAS

**TABLE B-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
Biscayne National Park				
Agriculture / Disturbed Land / Developed Area (including roads)	2	2	0	2
Grassland / Coastal Strand	0	0	0	0
Mangrove	106	106	102	4
Coastal Marsh	5	5	5	<1
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	1	1	1	<1
Beach / Dune	1	1	1	<1
Shrubland	0	0	0	0
Upland Dry / Mesic Forest	47	47	32	15
Wetland Forest	<1	<1	0	<1
Total	162	162	141	21

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 B-2 below

- Gross infested acres of exotic plants within Biscayne National Park were based on data provided by park staff.
- Initial treatment methods for each area under alternatives A, B and C 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 and Alternative B, Treatment Method Decision Tool section). As all areas have been treated and are re-treated under an optimal treatment schedule the methods of initial treatment are assumed to be the same for all alternatives.
- Re-treatment methods under alternatives A, B, and C were based on data provided by park staff. As all areas have been treated and are re-treated under an optimal treatment schedule the methods of re-treatment are the same for all alternatives. (see the "Alternatives" Chapter, Alternative A, Initial Treatment section and Alternative B, Maintaining Treated Sites section).
- Herbicides applied under alternatives A, B, and C are based on prior treatment data provided by EPMT in the APCAM database.
- The potential herbicide use under alternative A 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.
- 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 in the "Environmental Consequences" Chapter, Alternative C, Proposed Restoration Program.



TABLE B-2: BISCAYNE NATIONAL PARK
ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK

Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Methods ^b	Herbicides ^d	Total Initial Herbicide Applied to Treatment Area (undiluted gal) ^e	Vegetation Category	Sensitive Resources	Restoration ^f
Alternatives A and B										
1	NA	Brazilian pepper Australian pine Thespesia Scaevola Colubrina Neyraudia	13	Basal bark Cut-surface application Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	12	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	E. indigo snake Visitor use areas	Passive
2	NA	Thespesia Manilkara Australian pine Brazilian pepper Colubrina Phoenix Agave Scaevola	84	Cut stump Basal bark Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr	17–76	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Beach / Dune Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	American crocodile E. indigo snake Florida semaphore cactus Visitor use areas	Passive

**TABLE B-2: BISCAYNE NATIONAL PARK
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 Methods ^b	Herbicides ^d	Total Initial Herbicide Applied to Treatment Area (undiluted gal) ^e	Vegetation Category	Sensitive Resources	Restoration ^f
3	NA	Colubrina Australian pine Thespesia Brazilian pepper Neyraudia	12	Cut stump Foliar ground leave Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Glyphosate	2-11	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Beach / Dunes Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	E. indigo snake Visitor use areas	Passive
4	NA	Brazilian pepper Australian pine Thespesia Colubrina Neyraudia	14	Cut stump Basal bark Foliar ground leave Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	13	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	American crocodile E. indigo snake Visitor use areas	Passive
5	NA	Australian pine	24	Foliar ground leave Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	22	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Upland Dry / Mesic Forest	E. indigo snake Visitor use areas	Passive



TABLE B-2: BISCAYNE NATIONAL PARK
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 Methods ^b	Herbicides ^d	Total Initial Herbicide Applied to Treatment Area (undiluted gal) ^e	Vegetation Category	Sensitive Resources	Restoration ^f
6	NA	Neyraudia Brazilian pepper Thespesia Manilkara Rhoe Colubrina Agave Sansevieria Tradescantia	16	Basal bark Cut-surface application Foliar ground leave Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Glyphosate	2–15	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Beach / Dunes Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	E. indigo snake Visitor use areas	Passive
Alternative C										
1	1	Brazilian pepper Australian pine Thespesia Scaevola Colubrina Neyraudia	13	Basal bark Cut-surface application Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	12	Agriculture / Disturbed Land / Developed Area (including roads) Grassland / Coastal Strand Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	E. indigo snake Visitor use areas	Passive

**TABLE B-2: BISCAYNE NATIONAL PARK
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 Methods ^b	Herbicides ^d	Total Initial Herbicide Applied to Treatment Area (undiluted gal) ^e	Vegetation Category	Sensitive Resources	Restoration ^f
2	1	Thespesia Manilkara Australian pine Brazilian pepper Colubrina Phoenix Agave Scaevola	84	Cut stump Basal bark Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Imazapyr	17–76	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Beach / Dunes Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	American crocodile E. indigo snake Florida semaphore cactus Visitor use areas	Active Passive
3	1	Colubrina Australian pine Thespesia Brazilian pepper Neyraudia	12	Cut stump Foliar ground leave Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Glyphosate	2–11	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Beach / Dunes Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	E. indigo snake Visitor use areas	Passive



TABLE B-2: BISCAYNE NATIONAL PARK
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 Methods ^b	Herbicides ^d	Total Initial Herbicide Applied to Treatment Area (undiluted gal) ^e	Vegetation Category	Sensitive Resources	Restoration ^f
4	2	Brazilian pepper Australian pine Thespesia Colubrina Neyraudia	14	Cut stump Basal bark Foliar ground leave Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	13	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	American crocodile E. indigo snake Visitor use areas	Passive
5	2	Australian pine	24	Foliar ground leave Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	22	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Upland Dry / Mesic Forest	E. indigo snake Visitor use areas	Passive
6	1	Neyraudia Brazilian pepper Thespesia Manilkara Rhoe Colubrina Agave Sansevieria Tradescantia	16	Basal bark Cut-surface application Foliar ground leave Manual pulling	Foliar ground and leave Manual pulling	Triclopyr Glyphosate	2–15	Agriculture / Disturbed Land / Developed Area (including roads) Mangrove Coastal Marsh Beach / Dunes Sawgrass Marsh / Wet Prairie / Freshwater Marsh Upland Dry / Mesic Forest Wetland Forest	E. indigo snake Visitor use areas	Active Passive

**TABLE B-3: BISCAYNE NATIONAL PARK
AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVES A AND 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)	2	<1	2
Grassland / Coastal Strand	—	—	—
Mangrove	106	5	96
Coastal Marsh	5	<1	5
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	1	<1	1
Beach / Dune	1	<1	1
Shrubland	—	—	—
Upland Dry / Mesic Forest	47	2	43
Wetland Forest	—	—	—
Total	162	8	147

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. For a discussion on the average rate of herbicide application, see the "Environmental Consequences" Chapter, General Methodology, Treatment and Re-treatment of Exotic Plants section.

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 B-4: BISCAYNE NATIONAL PARK
AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVES A AND B ^{a,b}

Vegetation Category	Initial Treatment	Potential Minimum Application of Herbicide (gallons/acre)											
		Number of Months											
		6	12	18	24	30	36	42	48	54	60	66	72
Agriculture / Disturbed Land / Developed Area (including roads)	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Grassland / Coastal Strand	—	—	—	—	—	—	—	—	—	—	—	—	—
Mangrove	5	3	1	1	<1	0	0	0	0	0	0	0	0
Coastal Marsh	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Beach / Dune	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Shrubland	—	—	—	—	—	—	—	—	—	—	—	—	—
Upland Dry / Mesic Forest	2	1	1	<1	0	0	0	0	0	0	0	0	0
Wetland Forest	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	8	4	2	1	1	<1	0	0	0	0	0	0	0
		Potential Maximum Application of Herbicide (gallons/acre)											
Agriculture / Disturbed Land / Developed Area (including roads)	2	1	<1	0	0	0	0	0	0	0	0	0	0
Grassland / Coastal Strand	—	—	—	—	—	—	—	—	—	—	—	—	—
Mangrove	96	48	24	12	6	3	2	1	<1	0	0	0	0
Coastal Marsh	5	2	1	1	<1	0	0	0	0	0	0	0	0
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	1	<1	0	0	0	0	0	0	0	0	0	0	0
Beach / Dune	1	<1	0	0	0	0	0	0	0	0	0	0	0
Shrubland	—	—	—	—	—	—	—	—	—	—	—	—	—
Upland Dry / Mesic Forest	43	21	11	5	3	1	1	<1	0	0	0	0	0
Wetland Forest	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	147	74	37	18	9	5	2	1	1	0	0	0	0

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.

b. Note that Biscayne National Park is currently under an optimal re-treatment schedule and therefore the amount of potential herbicide applied is same for these alternatives.

TABLE B-5: BISCAYNE NATIONAL PARK
POTENTIAL MINIMUM AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE C

Vegetation Category	Potential minimum application of herbicide (gallons) for initial treatment	Potential minimum application of herbicide (gallons) for re-treatment ^a	Potential Minimum Application of Herbicide (gallons/acre) ^b											
			Number of Months											
			6	12	18	24	30	36	42	48	54	60	66	72
Agriculture / Disturbed Land/ Developed Area (including roads)	<1	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Grassland / Coastal Strand	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mangrove	5	5	3	1	1	<1	0	0	0	0	0	0	0	0
Coastal Marsh	<1	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	<1	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Beach / Dune	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shrubland	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Upland Dry / Mesic Forest	2	2	1	<1	0	0	0	0	0	0	0	0	0	0
Wetland Forest	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	8	7	4	2	1	<1	0	0	0	0	0	0	0	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 B-6: BISCAYNE NATIONAL PARK
POTENTIAL MAXIMUM AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE C

Vegetation Category	Potential maximum application of herbicide (gallons) for initial treatment	Potential maximum application of herbicide (gallons) for re-treatment ^a	Potential Maximum Application of Herbicide (gallons/acre) ^b											
			Number of Months											
			6	12	18	24	30	36	42	48	54	60	66	72
Agriculture / Disturbed Lands / Developed Areas (including roads)	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Grassland / Coastal Strand	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mangrove	96	93	46	23	12	6	3	1	1	<1	0	0	0	0
Coastal Marsh	5	5	2	1	1	<1	0	0	0	0	0	0	0	0
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	1	1	<1	0	0	0	0	0	0	0	0	0	0	0
Beach / Dune	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shrubland	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Upland Dry / Mesic Forest	43	29	15	7	4	2	1	<1	0	0	0	0	0	0
Wetland Forest	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	147	128	64	32	16	8	4	2	1	<1	0	0	0	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 B-7: BISCAYNE NATIONAL PARK
DISTRIBUTION OF APPROPRIATE TREATMENT METHODS BY VEGETATION CATEGORY UNDER ALTERNATIVES A AND B**

Biscayne National Park ^a	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	Foliar Ground and Leave, Manual Pulling
Agriculture / Disturbed Land / Developed Area (including roads)	174	2	2	2
Grassland / Coastal Strand	<1	0	0	0
Mangrove	5,519	106	106	106
Coastal Marsh	419	5	5	5
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	32	1	1	1
Beach / Dune	58	1	1	1
Upland Dry / Mesic Forest	1,615	47	47	47
Wetland Forest	22	<1	<1	<1
Total	7,839	162	162	162

a. All areas infested have been treated and are re-treated under an optimal treatment schedule under alternatives A and B, therefore, it is assumed that the methods used for initial treatment and re-treatment under alternative A would be the same for alternative B.



TABLE B-8: BISCAYNE NATIONAL PARK
DISTRIBUTION OF APPROPRIATE TREATMENT METHODS BY VEGETATION CATEGORY UNDER ALTERNATIVE C

Biscayne National Park	Total Acres within Park	Total Potential Acres Infested within Park	Initial Treatment Methods ^a	Re-treatment Methods ^b
			Basal Bark, Cut / Stump, Cut Surface Application, Foliar Ground and Leave, or Manual Pulling	Foliar Ground and Leave, Manual Pulling
Agriculture / Disturbed Land / Developed Area (including roads)	174	2	2	0
Grassland / Coastal Strand	<1	0	0	0
Mangrove	5,519	106	106	102
Coastal Marsh	419	5	5	5
Sawgrass Marsh / Wet Prairie / Freshwater Marsh	32	1	1	1
Beaches / Dune	58	1	1	1
Shrubland	0	0	0	0
Upland Dry / Mesic Forest	1,615	47	47	32
Wetland Forest	22	<1	<1	0
Total	7,839	162	162	141

a. All areas infested have been treated and are re-treated under an optimal treatment schedule under alternatives A, B and C, therefore, the methods used for initial treatment and re-treatment under alternative C are the same as described for alternatives A and B.

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 B-1 for acres actively and passively restored).