APPENDER H

SALT RIVER BAY NATIONAL HISTORICAL PARK

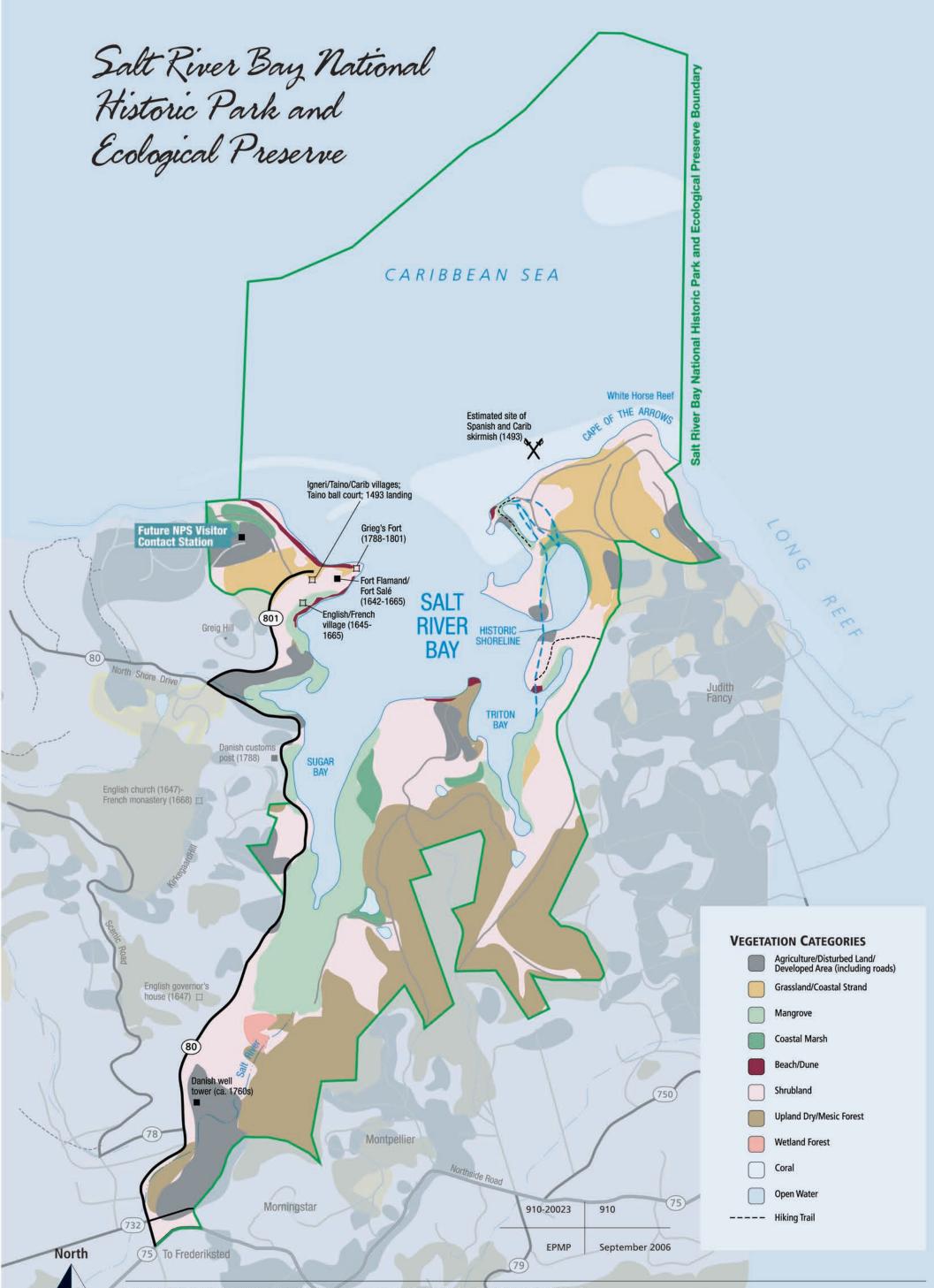
AND ECOLOGICAL PRESERVE

Appendix H: Salt River Bay National Historic Park and Ecological Preserve

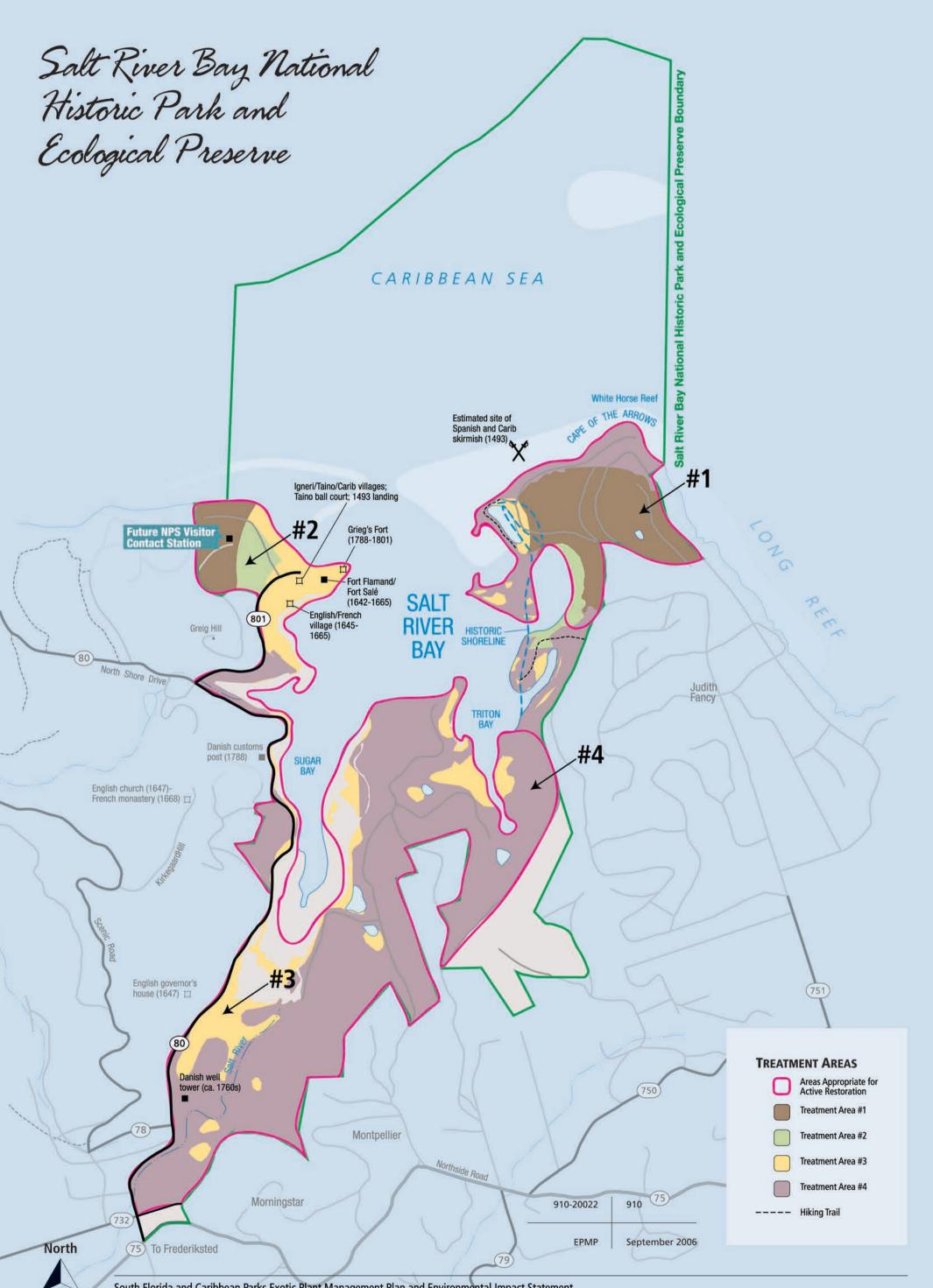
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SUMMARY DESCRIPTION OF VEGETATION CATEGORIES REFERENCED IN APPENDIX

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.
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.



South Florida and Caribbean Parks Exotic Plant Management Plan and Environmental Impact Statement



South Florida and Caribbean Parks Exotic Plant Management Plan and Environmental Impact Statement

APPENDIX H: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE

	Alternative A	Alternative B	Altern	ative C
Vegetation Category	Potential Acres Passively Restored	Potential Acres Passively Restored	Potential Acres Passively Restored	Potential Acres Actively Restored
Salt River Bay National Historic Park and Ecolo	gical Preserve			
Agriculture / Disturbed Land / Developed Area (including roads)	46	46	0	46
Grassland / Coastal Strand	53	53	1	52
Beach / Dune	0	0	0	0
Mangrove	<1	<1	<1	0
Coastal Marsh	17	17	7	10
Shrubland	136	136	37	98
Upland dry / Mesic Forest	134	134	0	134
Wetland Forest	3	3	3	0
Total	389	389	49	340

TABLE H-1: ACRES WITHIN VEGETATION CATEGORIES THAT Could Potentially be Restored under Alternatives^a A, B, and C

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 H-2 below

- Gross infested acres of exotic plants within Salt River Bay National Historic Park and Ecological Preserve were based on data a. provided by EPMT and park staff.
- Initial treatment methods for each area under alternative A were assumed to be the same as those that occur in other b. Caribbean parks (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).
- Re-treatment methods under alternative A were assumed to be the same as initial treatment (see the "Alternatives" Chapter. C. 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).
- Herbicides that could be applied under alternatives A, B, and C are based on prior treatment data in other Caribbean parks d. provided by EPMT staff.
- The potential herbicide use under alternative A was calculated based on the average use of each herbicide within the parks in e. the past 5 years as provided in the APCAM database. The average application rate of glyphosate was 0.14 undiluted gallons and triclopyr was 0.91 undiluted gallons. To determine the range of potential herbicide use for treatment areas under alternatives A, B, and C, the average application rate was multiplied by the gross infested acres.
- Under alternatives A and B all treatment areas would be restored passively. Under alternative C, areas within the park where f. active restoration could take place was based on a decision framework described in the "Environmental Consequences" Chapter, Alternative C, Proposed Restoration Program.





TABLE H-2: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK

				ALTERNATIVE SUN						r
Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Total Initial Herbicide Applied to Treatment Area (undiluted gal.) ⁶	Vegetation Category	Sensitive Resources	Restoration ^f
Altern	ative A									
1	_	Guinea grass	54	Foliar ground and leave	Same as initial treatment	Glyphosate	8	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Shrubland	_	Passive
2	NA	Tan tan	59	Basal bark and leave Foliar ground leave Manual pulling	Same as initial treatment	Triclopyr	54	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Coastal Marsh Shrubland Wetland Forest	Sensitive natural area Cultural resources Visitor use areas	Passive
3	NA	Guinea grass	11	Foliar ground and leave	Same as initial treatment	Glyphosate	2	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Coastal Marsh Shrubland	Sensitive natural area Cultural resources Visitor use areas	Passive
4	NA	Tan tan	269	Basal bark and leave Foliar ground leave Manual pulling	Same as initial treatment	Triclopyr	245	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Shrubland Upland Dry / Mesic Forests		Passive

				RNATIVE SUMMARY	ABLE OF TREAT	WENT AREAS WIT				
Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Total Initial Herbicide Applied to Treatment Area (undiluted gal.) ⁶	Vegetation Category	Sensitive Resources	Restoration ^f
Alterna	tive B									
1	2	Guinea grass	54	Foliar ground and leave	Foliar ground and leave	Glyphosate	8	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Shrubland		Passive
2	1	Tan tan	59	Basal bark and leave Cut stump leave or remove Foliar ground leave or remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	54	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Coastal Marsh Shrubland Wetland Forest	Sensitive natural area cultural resources Visitor use areas	Passive
3	1	Guinea grass	11	Foliar ground and leave	Foliar ground and leave	Glyphosate	2	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Coastal Marsh Shrubland	Sensitive natural area Cultural resources Visitor use areas	Passive
4	2	Tan tan	269	Basal bark and leave Cut stump leave or remove Foliar ground leave or remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	245	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Shrubland Upland Dry / Mesic Forests		Passive

TABLE H-2: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)





TABLE H-2: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE ALTERNATIVE SUMMARY TABLE OF TREATMENT AREAS WITHIN THE PARK (CONTINUED)

			ALIE	RNATIVE SUMMARY	ADLE OF IREAT	WENT AREAS WIT		6		
Treatment Area ID	Priority for Treatment	Exotic Species	Gross Infested (acres) ^a	Initial Treatment Methods ^b	Re-treatment Method ^c	Herbicides ^d	Total Initial Herbicide Applied to Treatment Area (undiluted gal.) ⁶	Vegetation Category	Sensitive Resources	Restoration ^f
Alterna	tive C									
1	2	Guinea grass	54	Foliar ground and leave	Foliar ground and leave	Glyphosate	8	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Shrubland	_	Passive Active
2	1	Tan tan	59	Basal bark and leave Cut stump leave or remove Foliar ground leave or remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	54	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Coastal Marsh Shrubland Wetland Forest	Sensitive natural area Cultural resources Visitor use areas	Passive Active
3	1	Guinea grass	11	Foliar ground and leave	Foliar ground and leave	Glyphosate	2	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Coastal Marsh Shrubland	Sensitive natural area Cultural resources Visitor use areas	Passive Active
4	2	Tan tan	269	Basal bark and leave Cut stump leave or remove Foliar ground leave or remove Manual pulling	Foliar ground and leave Manual pulling	Triclopyr	245	Agriculture / Disturbed Land / Developed Area (including roads) Grassland Shrubland Upland Dry / Mesic Forests	_	Passive Active

	Total Acres to be initially Treated	Potential Minimum Application of herbicide for Initial Treatment ^a (gallons)	Potential Maximum Application of herbicide for Initial Treatment ^b (gallons)		ntial Minimu Herbicide C		'n	Potential Maximum Application of Herbicide Over Time ^c				
Vegetation Category	to	Applic II	Applic I	Initial Treatment (gallons/acre)	36 (months)	72 (months)	108 (months)	Initial Treatment (gallons/acre)	36 (months)	72 (months)	108 (months)	
Agriculture / Disturbed Land / Developed Area (including roads)	46	2	42	2	2	2	2	42	38	34	30	
Grasslands / Coastal Strand	53	3	48	3	2	2	2	48	44	39	34	
Beach / Dune	_	_	—	_	_	_	_	_	_	_	_	
Mangrove	_	_									_	
Coastal Marsh	17	1	15	1	1	1	1	15	14	13	11	
Shrubland	136	7	124	7	6	6	5	124	113	100	88	
Upland Dry / Mesic Forest	134	7	122	7	6	5	5	122	111	99	87	
Wetland Forest	3	<1	3	<1	<1	<1	<1	3	2	2	2	
Total	389	19	354	19	18	16	14	354	322	287	251	

TABLE H-3: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE A

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.

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.





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	46	2	42
Grassland /Coastal Strand	53	3	48
Beach / Dune	_	_	_
Mangrove	_	_	
Coastal Marsh	17	1	15
Shrubland	136	7	124
Upland Dry / Mesic Forest	134	7	122
Wetland Forest	3	0	3
Total	389	19	354

TABLE H-4: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE B

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.

		Potential Minimum Application of Herbicide (gallons/acre)											
Vegetation	Initial		Number of Months										
Category	Treatment	6 12 18 24 30 36 42 48 54 60 66							66	72			
Agriculture / Disturbed Land / Developed Area (including roads)	2	1	1	<1	0	0	0	0	0	0	0	0	0
Grassland / Coastal Strand	3	1	1	<1	0	0	0	0	0	0	0	0	0
Beach / Dune	_												_
Mangrove	_												_
Coastal Marsh	1	<1	0	0	0	0	0	0	0	0	0	0	0
Shrubland	7	3	2	1	<1	0	0	0	0	0	0	0	0
Upland Dry / Mesic Forest	7	3	2	1	<1	0	0	0	0	0	0	0	0
Wetland Forest	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Total	19	10	5	2	1	1	<1	0	0	0	0	0	0
					P	otential M	aximum A (gallor	pplication ns/acre)	of Herbici	de			
Agriculture / Disturbed Land / Developed Area (including roads)	42	21	10	5	3	1	1	<1	0	0	0	0	0
Grassland / Coastal Strand	48	24	12	6	3	2	1	<1	0	0	0	0	0
Beach / Dune	_												_
Mangrove	_												_
Coastal Marsh	15	8	4	2	1	<1	0	0	0	0	0	0	0
Shrubland	124	62	31	15	8	4	2	1	<1	0	0	0	0
Upland Dry / Mesic Forest	122	61	30	15	8	4	2	1	<1	0	0	0	0
Wetland Forest	3	1	1	<1	0	0	0	0	0	0	0	0	0
Total	354	177	88	44	22	11	6	3	1	1	<1	0	0

TABLE H-5: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE B^a

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 H-6: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE POTENTIAL MINIMUM AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE C

	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											
Vegetation	ap	ap (gal	Number of Months											
Category			6	12	18	24	30	36	42	48	54	60	66	72
Agriculture / Disturbed Land / Developed Area (including roads)	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Grassland / Coastal Strand	3	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Beach / Dune														_
Mangrove	_			_		_	_		_	_	_	_	_	_
Coastal Marsh	1	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Shrubland	7	2	1	<1	0	0	0	0	0	0	0	0	0	0
Upland Dry / Mesic Forest	7	0	0	0	0	0	0	0	0	0	0	0	0	0
Wetland Forest	<1	<1	<1	0	0	0	0	0	0	0	0	0	0	0
Total	19	2	1	<1	0	0	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.

POTENTIAL MAXIMUM AMOUNT OF HERBICIDE TO BE APPLIED OVER TIME UNDER ALTERNATIVE C														
	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											
Vegetation Category	ອ	a (gi	6	12	18	24	30	36	42	48	54	60	66	72
Agriculture / Disturbed Land / Developed Area (including roads)	42	0	0	0	0	0	0	0	0	0	0	0	0	0
Grassland / Coastal Strand	48	1	<1	0	0	0	0	0	0	0	0	0	0	0
Beach / Dune		_												
Mangrove		_												
Coastal Marsh	15	6	3	2	1	<1	0	0	0	0	0	0	0	0
Shrubland	124	34	17	8	4	2	1	1	0	0	0	0	0	0
Upland Dry / Mesic Forest	122	0	0	0	0	0	0	0	0	0	0	0	0	0
Wetland Forest	3	3	1	1	<1	0	0	0	0	0	0	0	0	0
Total	230	44	22	11	5	3	1	1	<1	0	0	0	0	0

TABLE H-7: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE

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 H-8: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE DISTRIBUTION OF APPROPRIATE TREATMENT METHODS BY VEGETATION CATEGORY UNDER ALTERNATIVE A

Salt River Bay National Historic Park and Ecological Preserve	Total Acres within Park	Total Potential Acres Infested within Park	Initial Treatment Methods ^a Basal Bark, Foliar Ground and Leave, Manual Pulling	Re-treatment Methods ^a Basal Bark, Foliar Ground and Leave, Manual Pulling
Agriculture / Disturbed Land / Developed Area (including roads)	46	46	46	46
Grassland / Coastal Strand	53	53	53	53
Beach / Dune	3	0	0	0
Mangrove	48	<1	<1	<1
Coastal Marsh	17	17	17	17
Shrubland	136	136	136	136
Upland Dry / Mesic Forest	134	134	134	134
Wetland Forest	3	3	3	3
Total	440	389	389	389

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).

			Initial Treatment Methods ^a					Re-treatment			
			Basal Bark Foliar		iar	Cut Stump		Methods ^a			
Salt River Bay National Historic Park and Ecological Preserve	Total Acres within Park	Total Potential Acres Infested within Park	Leave in Place	Ground and Remove	Ground and Leave in Place	Remove	Leave in Place	Foliar Ground and Remove or Leave in Place; Manual Pulling			
Agriculture / Disturbed Land / Developed Area (including roads)	46	46	38	38	46	38	38	46			
Grassland / Coastal Strand	53	53	12	12	53	12	12	53			
Beach / Dune	3	0	0	0	0	0	0	0			
Mangrove	48	<1	0	0	<1	0	0	<1			
Coastal Marsh	17	17	15	15	17	15	15	17			
Shrubland	136	136	127	127	136	127	127	136			
Upland Dry / Mesic Forest	134	134	133	133	134	133	133	134			
Wetland Forest	3	3	3	3	3	3	3	3			
Total	440	389	329	329	389	329	329	389			

TABLE H-9: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE DISTRIBUTION OF APPROPRIATE TREATMENT METHODS BY VEGETATION CATEGORY UNDER ALTERNATIVE B

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





TABLE H-10: SALT RIVER BAY NATIONAL HISTORIC PARK AND ECOLOGICAL PRESERVE DISTRIBUTION OF APPROPRIATE TREATMENT METHODS BY VEGETATION CATEGORY UNDER ALTERNATIVE C

			Initial Treatment Methods ^a					
		Total Potential	Basal Bark	Foliar Cu		Cut S	tump	Re-treatment Methods ^b
Salt River Bay National Historic Park and Ecological Preserve	Total Acres within Park	Acres Infested within Park	Leave in Place	Ground and Remove	Ground and Leave in Place	Remove	Leave in Place	Foliar Ground and Remove or Leave, Manual Pulling
Agriculture / Disturbed Land / Developed Area (including roads)	46	46	38	38	46	38	38	0
Grassland / Coastal Strand	53	53	12	12	53	12	124	1
Beach / Dune	3	0						0
Mangrove	48	<1	0	0	<1	0	0	<1
Coastal Marsh	17	17	15	15	17	15	15	7
Shrubland	136	136	127	127	136	126	126	37
Upland Dry / Mesic Forest	134	134	133	133	134	133	133	0
Wetland Forest	3	3	3	3	3	3	3	3
Total	440	390	329	329	390	329	329	49

a. The distribution of appropriate treatment methods was determined based on application of a new treatment method decision tool described on 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 H-1 for acres actively and passively restored).