

Appendix E— Goals-Setting Worksheets

Summary of Sources and Process

Regional Goals Habitats	Past	Present	Future (Reg. Ec. Goals)	Protected
Tidal Flat	SFEI (1)	SFEI (1)	JV (5)	GI/SFEI (7)
Tidal Marsh	SFEI (1)	SFEI (1)	GP (4)	GI/SFEI (7)
Lagoon	SFEI (1)	SFEI (1)	GP (4)	GI/SFEI (7)
Beach	SFEI (1)	SFEI (1)	JV (5)	GI/SFEI (7)
Salt Pond	SFEI (1)	SFEI (1)	GP (4)	GI/SFEI (7)
Storage/Treatment Pond	SFEI (1)	SFEI (1)	GP (4)	GI/SFEI (7)
Diked Wetland	SFEI (1)	SFEI (1)	GP (4)	GI/SFEI (7)
Agricultural Bayland	SFEI (1)	SFEI (1)	GP (4)	GI/SFEI (7)
Moist Grassland	SFEI (1)	SFEI (1)	JV (6)	GI/SFEI (7)
Vernal Pool Complex	SFEI (1)	SFEI (1)	JV (6)	GI/SFEI (7)
Lake	na	NWI/SFEI (3)	JV (6)	GI/SFEI (7)
Creek and Riparian Zone	SFEI/NWI/USGS(2)	SFEI/NWI/USGS(2)	JV (5)	GI/SFEI (7)

All values acres except “Creek and Riparian Zone,” which are miles. (Summed total “Creeks and Lakes” is in acres.)

Definitions

Past: Habitat acreage circa 1800.

Present: Habitat acreage circa 1998.

Future: Regional ecological goal for the habitat.

Protected: Public lands (or lands protected by easement) dedicated to the habitat type. Includes lands proposed for restoration of the habitat type.

Acquire: Land which needs to be placed in protective ownership to meet JV goals. (Difference between “Future” and “Protected”.)

Restore: 20 year SFBJV restoration goal. Restoration refers to conversion from one habitat type to a different habitat type.

Enhancement: 20 Year goal for enhancement of currently existing habitat. Enhanced habitats do not change habitat type.

tr: less than 500 acres (trace).

Sources

JV: San Francisco Bay Joint Venture.

SFEI: San Francisco Estuary Institute, from the EcoAtlas and analyses for JV.

NWI: National Wetlands Inventory, as reported in SFEP 1992.

GP: San Francisco Bay Area Wetlands Ecosystem Goals Project, as reported in *Baylands Ecosystem Habitat Goals, 1999*.

GI: Bay Area Open Space Coverage developed by John Woodbury and GreenInfo Network

na: not available

Process

(1) Calculated from EcoAtlas V1.50. Expected error <10%.

(2) Estimated from NWI, EcoAtlas Riparian Forest coverage, USGS 1:100,000 Hydrology coverage. Expected error up to 50%.

(3) Estimated from NWI. Expected error up to 25%.

(4) Calculated from *Habitat Goals*.

(5) Based upon *Habitat Goals* research and/or narrative recommendations.

(6) Goal is preservation of present acreage.

(7) Estimated from Open Space coverage and known parcel ownership. Expected error up to 25% (potentially larger for TM, Lakes, and C/RZ)

Rounding:

If less than 100 acres, value is rounded to nearest 10.

If 100 <x< 1,000 acres, value is rounded to nearest 100.

If 1,000 <x< 3,000 acres, value is rounded to nearest 500.

If greater than 3,000 acres, value is rounded to nearest 1000.

(Because of rounding, subregional values do not always sum to regional total.)

SFBAY Region

EcoAtlas Habitats		Past	Present		Future (Reg. Ec. Goals)	Protected		
Tidal Flat		49,000	28,000		28,000	8,000		
Tidal Marsh		133,000	32,000		74,000	16,500		
Lagoon		80	4,000		3,000	1,000		
Beach		200	70		150	tr		
Salt Pond		1,500	34,000		15,000	19,000		
Storage/Treatment Pond		—	4,000		4,000	2,000		
Diked Wetland		—	17,000		25,000	5,000		
Agricultural Bayland		—	30,000		0	tr		
Moist Grassland		60,000	8,000		8,000	tr		
Vernal Pool Complex		24,000	15,000		15,000	tr		
Lake		NA	12,000		NA	8,000		
Creek and Riparian Zone		NA	NA		NA	tr		
EcoAtlas Habitats	SFBJV Tracked Habitats	Past	Present	Future	Protected	Acquire	Restore	Enhance
Tidal Flat	Tidal Flat	49,000	28,000	28,000	8,000	12,000	4,000	6,000
Tidal Marsh	Tidal Marsh	133,000	32,000	74,000	16,500	43,000	32,000	20,000
Lagoon	Lagoon	80	4,000	3,000	1,000	1,500	50	2,000
Beach	Beach	200	70	150	tr	113	6035	
Salt Pond	Salt Pond	1,500	34,000	15,000	19,000	6,000	1,000	8,000
Storage/ Treatment Pond	Diked Wetland	—	21,000	29,000	7,000	16,000	6,000	12,000
Diked Wetland								
Agricultural Bayland								
Moist Grassland	Grassland and Assoc. Wetlands	84,000	53,000	NA	tr	21,000	1000	10,500
Vernal Pool Complex								
Lake	Lake	NA	12,000	NA	8,000	3,000	1000	6,000
Creek and Riparian Zone	Creek and Riparian Zone	NA	NA	NA	tr	250	250	1,000
EcoAtlas Habitats	SFBJV Tracked Habitats	SFBJV Goals Habitats		Acquire	Restore	Enhance		
Tidal Flat	Tidal Flat							
Tidal Marsh	Tidal Marsh							
Lagoon	Lagoon	Bay Habitats		63,000	37,000	36,000		
Beach	Beach							
Salt Pond	Salt Pond							
Storage/Treatment Pond	Diked Wetland							
Diked Wetland		Seasonal Wetlands		37,000	7,000	23,000		
Agricultural Bayland								
Moist Grassland	Grassland and Assoc. Wetlands							
Vernal Pool Complex								
Lake	Lake	Creeks and Lakes		7,000	5,000	22,000		
Creek and Riparian Zone	Creek and Riparian Zone							
Total					107,000	49,000	81,000	

Full Bay Area (m2) 11,681,459,630.6013 Full Bay Area (acres) 2,886,552

Suisun ***(note area includes Contra Costa Shoreline plus upland habitats)

EcoAtlas Habitats	Past	Present	Future (Reg. Ec. Goals)	Protected
Tidal Flat	1,201	209	209	tr
Tidal Marsh	9,204	5,556	5,804	2,500
Lagoon	0	6	6	0
Beach	0	0	0	0
Salt Pond	0	0	0	0
Storage/Treatment Pond	—	632	632	632
Diked Wetland	—	2,145	2,145	tr
Agricultural Bayland	—	160	0	0
Moist Grassland	7,000	1,000	1,000	tr
Vernal Pool Complex	14,000	9,000	9,000	tr
Lake	NA	2,500	2,500	tr
Creek and Riparian Zone	NA	NA	NA	tr

EcoAtlas Habitats	SFBJV Tracked Habitats	Past	Present	Future	Protected	Acquire	Restore	Enhance
Tidal Flat	Tidal Flat	1,201	209	209	tr	294	98	147
Tidal Marsh	Tidal Marsh	9,204	5,556	5,804	2,500	2,976	2,214	1,384
Lagoon	Lagoon	0	6	6	0	0	0	4
Beach	Beach	0	0	0	0	0	0	0
Salt Pond	Salt Pond	0	0	0	0	0	0	0
Storage/ Treatment Pond	Diked Wetland	—	2,777	2,786	tr	1,537	576	1,153
Agricultural Bayland								
Moist Grassland	Grassland and Assoc. Wetlands	21,000	10,160	NA	tr	9,130	435	4,565
Vernal Pool Complex								
Lake	Lake	NA	2,500	2,500	tr	625	208	1,250
Creek and Riparian Zone	Creek and Riparian Zone	NA	NA	NA	tr	36	36	146

EcoAtlas Habitats	SFBJV Tracked Habitats	SFBJV Goals Habitats	Acquire	Restore	Enhance
Tidal Flat Tidal Marsh Lagoon Beach	Tidal Flat Tidal Marsh Lagoon Beach	Bay Habitats	3,000	2,000	2,000
Salt Pond Storage/Treatment Pond Diked Wetland	Salt Pond Diked Wetland	Seasonal Wetlands	11,000	1,000	6,000
Agricultural Bayland Moist Grassland Vernal Pool Complex	Grassland and Assoc. Wetlands				
Lake Creek and Riparian Zone	Lake Creek and Riparian Zone	Creeks and Lakes	1,000	1,000	4,000

North Bay

EcoAtlas Habitats	Past	Present	Future (Reg. Ec. Goals)	Protected
Tidal Flat	13,000	9,000	9,000	3,000
Tidal Marsh	55,000	16,000	38,000	9,000
Lagoon	40	2,500	2,000	1,000
Beach	30	0	20	tr
Salt Pond	300	7,000	4,000	
Storage/Treatment Pond	—	1,500	1,000	1,000
Diked Wetland	—	8,000	17,000	4,000
Agricultural Bayland	—	28,000	0	3,000
Moist Grassland	15,000	6,000	6,000	tr
Vernal Pool Complex	4,000	3,000	3,000	0
Lake	NA	2,000	2,000	1,000
Creek and Riparian Zone	NA	NA	NA	tr

EcoAtlas Habitats	SFBJV Tracked Habitats	Past	Present	Future	Protected	Acquire	Restore	Enhance
Tidal Flat	Tidal Flat	13,000	9,000	9,000	3,000	3,184	1,061	1,592
Tidal Marsh	Tidal Marsh	55,000	16,000	38,000	9,000	17,782	13,233	8,271
Lagoon	Lagoon	40	2,500	2,000	1,000	750	31	1,333
Beach	Beach	30	0	20	0	17	0	5
Salt Pond	Salt Pond	3,000	7,000	4,000	6,000	1,235	206	3,133
Storage/ Treatment Pond Diked Wetland	Diked Wetland	—	9,500	18,000	tr	9,931	3,724	7,448
Agricultural Bayland Moist Grassland Vernal Pool Complex	Grassland and Assoc. Wetlands	19,000	37,000	NA	tr	8,217	391	4,109
Lake	Lake	NA	2,000	2,000	1,000	500	167	1,000
Creek and Riparian Zone	Creek and Riparian Zone	NA	NA	NA	tr	52	52	208

EcoAtlas Habitats	SFBJV Tracked Habitats	SFBJV Goals Habitats	Acquire	Restore	Enhance
Tidal Flat Tidal Marsh Lagoon Beach	Tidal Flat Tidal Marsh Lagoon Beach	Bay Habitats	23,000	15,000	13,000
Salt Pond Storage/Treatment Pond Diked Wetland	Salt Pond Diked Wetland	Seasonal Wetlands	18,000	4,000	12,000
Agricultural Bayland Moist Grassland Vernal Pool Complex	Grassland and Assoc. Wetlands				
Lake Creek and Riparian Zone	Lake Creek and Riparian Zone	Creeks and Lakes	1,000	1,000	4,000

Central Bay

EcoAtlas Habitats		Past	Present	Future (Reg. Ec. Goals)	Protected			
Tidal Flat		14,000	4,000	4,000	1,000			
Tidal Marsh		13,000	1,000	1,500	tr			
Lagoon		50	700	500	tr			
Beach		200	50	100	tr			
Salt Pond		0	0	0	0			
Storage/Treatment Pond		—	60	60	0			
Diked Wetland		—	1,300	1,500	0			
Agricultural Bayland		—	30	0	tr			
Moist Grassland		5,000	tr	tr	0			
Vernal Pool Complex		0	0	0	0			
Lake		NA	1,000	1,000	1,000			
Creek and Riparian Zone		NA	NA	NA	tr			
EcoAtlas Habitats	SFBJV Tracked Habitats	Past	Present	Future	Protected	Acquire	Restore	Enhance
Tidal Flat	Tidal Flat	14,000	4,000	4,000	1,000	3,429	1,143	1,714
Tidal Marsh	Tidal Marsh	13,000	1,000	1,500	tr	4,203	3,128	1,955
Lagoon	Lagoon	50	700	500	tr	938	9	333
Beach	Beach	200	50	100	tr	113	43	23
Salt Pond	Salt Pond	0	0	0	0	0	0	0
Storage/ Treatment Pond	Diked Wetland	—	1,360	1560	tr	861	323	646
Diked Wetland								
Agricultural Bayland								
Moist Grassland	Grassland and Assoc. Wetlands	5,000	30	NA	tr	0	0	0
Vernal Pool Complex								
Lake	Lake	NA	1,000	1,000	1,000	250	83	500
Creek and Riparian Zone	Creek and Riparian Zone	NA	NA	NA	tr	42	42	167
EcoAtlas Habitats	SFBJV Tracked Habitats	SFBJV Goals Habitats			Acquire	Restore	Enhance	
Tidal Flat	Tidal Flat	Bay Habitats			9,000	4,000	4,000	
Tidal Marsh	Tidal Marsh							
Lagoon	Lagoon							
Beach	Beach							
Salt Pond	Salt Pond	Seasonal Wetlands			1,000	0	1,000	
Storage/Treatment Pond	Diked Wetland							
Diked Wetland								
Agricultural Bayland		Grassland and Assoc. Wetlands						
Moist Grassland								
Vernal Pool Complex								
Lake	Lake	Creeks and Lakes			1,000	1,000	3,000	
Creek and Riparian Zone	Creek and Riparian Zone							

South Bay

EcoAtlas Habitats	Past	Present	Future (Reg. Ec. Goals)	Protected
Tidal Flat	21,000	15,000	15,000	4,000
Tidal Marsh	56,000	9,000	29,000	5,000
Lagoon	0	600	600	tr
Beach	10	20	10	0
Salt Pond	1,500	27,000	11,000	13,000
Storage/Treatment Pond	—	2,000	2,000	tr
Diked Wetland	—	6,000	4,000	1,000
Agricultural Bayland	—	1,500	0	tr
Moist Grassland	33,000	700	700	tr
Vernal Pool Complex	6,000	3,000	3,000	tr
Lake	NA	6,000	6,000	6,000
Creek and Riparian Zone	NA	NA	NA	tr

EcoAtlas Habitats	SFBJV Tracked Habitats	Past	Present	Future	Protected	Acquire	Restore	Enhance
Tidal Flat	Tidal Flat	21,000	15,000	15,000	4,000	5,143	1,714	2,571
Tidal Marsh	Tidal Marsh	56,000	9,000	29,000	5,000	18,105	13,474	8,421
Lagoon	Lagoon	0	600	600	tr	0	8	400
Beach	Beach	10	20	10	0	6	17	2
Salt Pond	Salt Pond	1,500	27,000	11,000	13,000	4,765	794	5,867
Storage/ Treatment Pond	Diked Wetland	—	8,000	6,000	tr	3,310	1,241	2,483
Diked Wetland								
Agricultural Bayland								
Moist Grassland	Grassland and Assoc. Wetlands	39,000	5,200	NA	tr	3,378	161	1,689
Vernal Pool Complex								
Lake	Lake	NA	6,000	6,000	6,000	1,500	500	3,000
Creek and Riparian Zone	Creek and Riparian Zone	NA	NA	NA	tr	120	120	479

EcoAtlas Habitats	SFBJV Tracked Habitats	SFBJV Goals Habitats	Acquire	Restore	Enhance
Tidal Flat	Tidal Flat				
Tidal Marsh	Tidal Marsh				
Lagoon	Lagoon	Bay Habitats	28,000	16,000	17,000
Beach	Beach				
Salt Pond	Salt Pond				
Storage/Treatment Pond	Diked Wetland				
Diked Wetland		Seasonal Wetlands	7,000	1,000	4,000
Agricultural Bayland					
Moist Grassland	Grassland and Assoc. Wetlands				
Vernal Pool Complex					
Lake	Lake				
Creek and Riparian Zone	Creek and Riparian Zone	Creeks and Lakes	3,000	2,000	11,000