

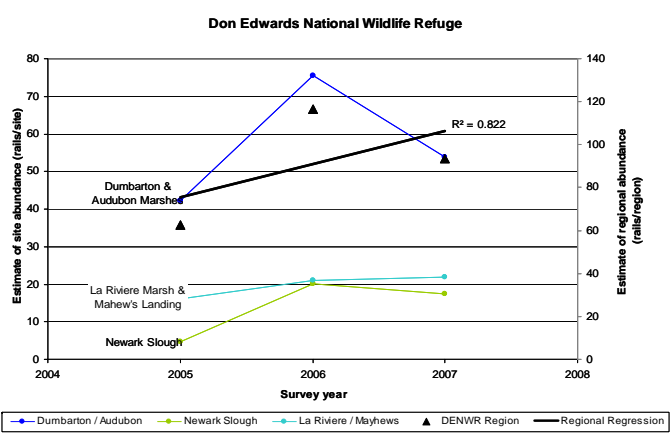
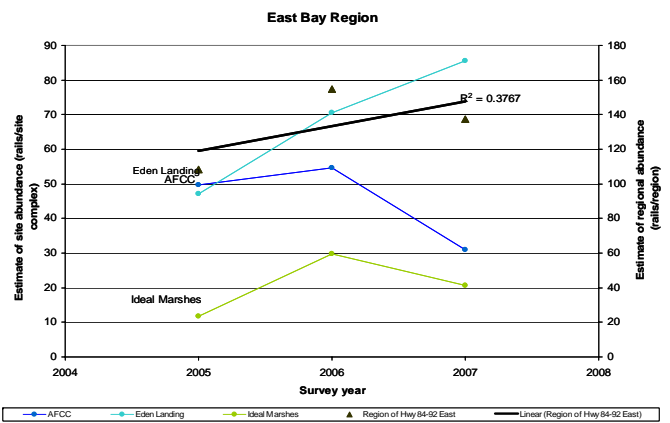
**SUMMARY OF CLAPPER RAIL DATA AND INVASIVE SPARTINA TREATMENT PLANS FOR 2008-2010, BY CLAPPER RAIL POPULATION REGION**

Sub-Area #	Sub-Area Name	Clapper Rail Surveys Conducted 2008?	Clapper Rail Present	Desired Treatment Entry Date (1)	Sub-Area Area (Acres)	GIS-Estimated 2008.000 Spartina Area (Acres)	EKG-Estimated 2008 Spartina Area (Acres)	SPARTINA TREATMENT METHODS						2005-2008 CALIFORNIA CLAPPER RAIL DATA for Sites w Comparable Data (3)				Population Trend (slope)	R-square	Clapper Rail Population Trends by Region (From Regional Trends in California Clapper Rail Abundance at Non-native Spartina-invaded Sites in the San Francisco Estuary from 2005 to 2007 (McBroom 2008))	
								Ground			Aerial			Average Count by Year (5)			Population Trend (slope)				R-square
								Mechanical	Herbicide		Aerial			2005	2006	2007					
Dig	Cover	Backpack	Amphibious Vehicle	Truck	Boat	Helicopter															
<b>EAST CENTRAL BAY REGION</b>					<b>1,726</b>	<b>3</b>	<b>11</b>							<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>+4.7</b>			Graphic not available for this region	
10a	Whittel Marsh		Yes	May 1	137	0.001	-0	X		X											
06b	Emeryville Crescent West	Yes	Yes	Jun 1	31	0.368	1.0			X	X	X		2	8	8	2.88	0.68			
10b	Southern Marsh		Yes	Jul 15	24	0.081	0.1	X													
10c	Giant Marsh		Yes	Jul 15	30		0.1			X											
22a	Wildcat Marsh	??	Yes	Jul 15	387	0.012	6.0			X				ND	12	9	-3.00	1.00			
22b	San Pablo Marsh		Yes	Jul 15	197	1.959	3.0			X		X									
22c	Rheem Creek Area	Yes	Yes	Jul 15	26	0.095	0.5			X											
22d	Stege Marsh		Yes	Jul 15	82	0.020	-0	X		X											
22f	Albany/South Richmond Shoreline		PP	Jul 15	659	0.262	-0			X											
22e	Hoffman Marsh		Yes	Aug 1	52	0.000	-0	X													
06a	Emeryville Crescent East		No	Jun 1	101	0.405	0.1			X	X	X									
<b>SAN LEANDRO BAY REGION</b>					<b>456</b>	<b>45</b>	<b>48</b>							<b>142</b>	<b>218</b>	<b>236</b>	<b>+4.7</b>				
sub1	Elsie Roemer Bird Sanctuary	Yes	Yes	Jun 1	17		2.5			X	X	X	X	18	15	7	-5.50	0.94			
17b	Bay Farm	Yes	Yes	Jun 1	9	1.331	1.0			X	X	X	X	6	8	6	0.00	0.00			
17j	Fan Marsh	Yes	Yes	Jun 1	13	0.599	8.5			X	X	X	X	10	9	19	4.75	0.71			
17m	Alameda Island East (Aeolian Yacht Cl and Eastern Shoreline)	Yes	Yes	Jun 1	13	3.053	3.5			X	X	X	X	2	2	2	0.25	0.75			
17c	Arrowhead Marsh	Yes (7)	Yes	Jul 15 (2)	42	12.507	17.5			X	X	X	X	99	149	154	27.50	0.82			
17d	MLK Regional Shoreline/Garretson Point	Yes	Yes	Jul 15	42	6.552	2.5			X	X	X	X	11	19	20	4.38	0.83			
17e	San Leandro Creek	Yes	Yes	Jul 15	10	1.083	1.5			X	X	X		2	3	8	3.00	0.92			
17h	MLK Marsh	Yes	Yes	Jul 15	35	9.882	2.0			X	X	X	X	14	27	41	13.50	1.00			
17k	Airport Channel	Yes	Yes	Jul 15	5	0.127	0.5			X	X	X	X	9	9	13	1.75	0.64			
17l	Doolittle Pond	Yes	Yes	Jul 15	5	0.330	0.5			X	X	X		3	2	4	0.75	0.36			
17a	Alameda Island South (CMSB, Crab Cove)	Yes	No	Jun 1	58	2.864	0.1			X	X	X	X								
17f	Oakland Inner Harbor		No	Jun 1	180	1.579	2.5			X		X	X								
17g	Coast Guard Island		No	Jun 1	8	3.087	3.0			X		X	X								
17i	Coliseum Channels	Yes	No	Jul 15	18	1.561	2.0			X	X	X									
<b>HAYWARD REGION</b>					<b>1,294</b>	<b>36</b>	<b>37</b>							<b>67</b>	<b>104</b>	<b>111</b>	<b>+1.6</b>				
07a	Oro Loma Marsh-east	Yes	Yes	Jun 1	197	0.471	1.5			X	X	X	X	2	0	7	2.50	0.48			
07b	Oro Loma Marsh-west	Yes	Yes	Jun 1	131	0.879	1.0			X	X	X	X	18	18	5	-6.75	0.75			
20j	Sulphur Creek		Yes	Jun 1	8	0.003	-0			X	X	X									
20k	Hayward Landing	Yes	Yes	Jun 1	13	0.025	-0			X	X	X		0	2	0	0.00	0.00			
20l	Johnson's Landing	Yes	Yes	Jun 1	26	0.096	-0			X	X	X		0	0	2	0.75	0.75			
20s	HARD Marsh	Yes	Yes	Jun 1	59	0.024	1.5			X	X	X	X								
20v	Hayward Landing Canal		Yes	Jun 1	8		0.5			X	X	X									
20w	Triangle Marsh		Yes	Jun 1	12		-0			X		X									
20c	Dog Bone Marsh	Yes	Yes	Jul 15	7		0.1			X	X	X		0	2	2	1.00	0.92			
20d	Citation Marsh	Yes	Yes	Jul 15	110	0.615	10.0			X	X	X		12	8	17	2.48	0.30			
20e	East Marsh	Yes	Yes	Jul 15	37	0.051	1.0			X	X	X		2	5	5	1.50	0.75			
20f	North Marsh	Yes	Yes	Jul 15	88	0.019	0.5			X	X	X		10	20	20	5.25	0.75			
20g	Bunker Marsh	Yes (8)	Yes	Jul 15	33	0.319	1.5			X	X	X		9	10	6	-1.35	0.62			
20h	San Lorenzo Creek & Mouth	Yes	Yes	Jul 15	31	1.158	0.5			X	X	X		8	9	14	3.23	0.86			

[Key for footnotes on page 5]

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								Ground				Aerial			Average Count by Year (5)						
								Mechanical		Herbicide		Dig	Cover	Backpack	Amphibious Vehicle	Truck	Boat	Helicopter	2005		
20m	Cogswell Marsh, Quadrant A	Yes	Yes	Jul 15	39	0.211	0.5			X	X	X		X	1	26	16	7.25	0.35		
20n	Cogswell Marsh, Quadrant B	Yes	Yes	Jul 15	106	28.317	8.0			X	X	X		X	28	33	43	7.75	0.97		
20o	Cogswell Marsh, Quadrant C	Yes	Yes	Jul 15	57	0.357	0.5			X	X	X		X	12	17	19	3.25	0.95		
20i	Bockmann Channel	Yes	No	Jun 1	7	0.006	-0			X	X	X			0	0	0	N/A	N/A		
20p	Hayward Shoreline Outliers		No	Jun 1	145	0.001	1.0			X	X	X		X	0	0	0	N/A	N/A		
20u	Estudillo Creek Channel		No	Jun 1	15	0.107	0.5			X	X	X									
20a	Oyster Bay Regional Shoreline	Yes	No	Jul 15	16	1.817	2.0			X		X		X							
20b	Low Galbraith Golf Course		No	Jul 15	2	0.441	1.0					X									
20q	San Leandro Shoreline Outliers		No	Jul 15	62	0.075	0.5			X	X	X		X	0	0	0	N/A	N/A		
20r	Oakland Airport Shoreline and Channels		No	Jul 15	53	1.013	5.0			X	X	X		X							
20t	San Leandro Marina		No	Jul 15	32	0.005	0.1			X	X	X		X							
<b>EAST BAY REGION (SM to Dumbarton Bridge)</b>					<b>1,443</b>	<b>11</b>	<b>35</b>								<b>108</b>	<b>155</b>	<b>137</b>	<b>+1.0</b>			
13g	Upstream of 20 Tide Gates	Yes (8)	Yes	Jun 15	22	0.121	0.1					X			0	0	2	0.75	0.75		
13k	Eden Landing-Mt Eden Creek	Yes (8)	Yes	Jun 15	114		0.5				X	X	X	X							
01a	Channel Mouth	Yes (8)	Yes	Jul 15	23	1.254	2.5			X	X	X		X	8	8	4	-2.00	0.75		
01b	Lower Channel	Yes (8)	Yes	Jul 15	133	2.733	15.0			X	X	X		X	25	24	11	-7.00	0.83		
01c	Upper Channel	Yes (8)	Yes	Jul 15	78	1.135	8.5			X	X	X		X	7	10	4	-1.50	0.25		
01d	Upper Channel - Union City Blvd to I-880	Yes (8)	Yes	Jul 15	40	0.587	2.0			X	X	X		X	1	2	0	-0.25	0.06		
01f	Pond 3-AFCC	Yes (8)	Yes	Jul 15	129	0.328	0.5			X	X	X		X	5	6	11	3.00	0.87		
13a	Old Alameda Creek North Bank	Yes (8)	Yes	Jul 15	47	1.262	0.5					X	X	X	5	7	5	0.00	0.00		
13b	Old Alameda Creek Island	Yes (8)	Yes	Jul 15	47		0.5				X	X		X	13	19	21	4.00	0.88		
13c	Old Alameda Creek South Bank	Yes (8)	Yes	Jul 15	46		0.5				X	X		X	5	7	5	0.00	0.00		
13d	Whale's Tail North Fluke	Yes (8)	Yes	Jul 15	160	0.136	0.5				X	X		X	3	4	7	2.00	0.98		
13e	Whale's Tail South Fluke	Yes (8)	Yes	Jul 15	146	0.760	2.0				X	X		X	9	11	18	4.75	0.93		
13f	Cargill Mitigation Marsh	Yes (8)	Yes	Jul 15	46	1.051	0.5				X			X	4	9	6	1.00	0.16		
21a	Ideal Marsh North	Yes (8)	Yes	Jul 15	38	0.326	0.5			X	X	X			6	8	3	-1.25	0.31		
21b	Ideal Marsh South	Yes (8)	Yes	Jul 15	127	0.901	0.5			X	X	X			4	14	12	3.75	0.52		
13h	Eden Landing-North Creek		No	Jun 15	25	0.560	0.5				X	X	X	X							
13i	Eden Landing-Pond 10		No	Jun 15	208	0.008	-0				X	X	X	X							
01e	Strip Marsh No. of Channel Mouth		No	Jul 15	14	0.020	-0			X	X	X		X	0	0	0	N/A	N/A		
<b>DON EDWARDS NATIONAL WILDLIFE REFUGE REGION</b>					<b>2,369</b>	<b>9</b>	<b>28</b>								<b>63</b>	<b>117</b>	<b>93</b>	<b>+5.11</b>			
05a	Mowry Marsh - Newark Slough to Calaveras Point		Yes	Jul 15	1256	3.055	7.0			X		X		X	14	21	ND	7.00	1.00		
05b	Dumbarton/Audubon	Yes	Yes	Jul 15	744	1.956	3.0			X		X		X	19	26	31	6.00	0.98		
05c	Newark Slough	Yes	Yes	Jul 15	230	0.712	4.5			X		X		X	8	21	18	4.83	0.55		
05d	LaRiviere Marsh		Yes	Jul 15	95	3.403	10.0			X		X		X	16	21	22	3.00	0.87		
05e	Mayhew's Landing		No	Jul 15	28	0.142	1.5			X		X									
05g	Cargill Pond (W Suites Hotel)		No	Jul 15	17	0.109	2.0					X									
<b>EASTERN SOUTH BAY REGION</b>					<b>1,507</b>	<b>0</b>	<b>18</b>														
15a	South Bay Marshes (1)	Yes (8)	Yes	Jun 1	877		8.0			X	X	X	X	X							
05f	Coyote Creek - Alameda County	Yes (8)	Yes	Jul 15	630	0.030	10.0						X	X							

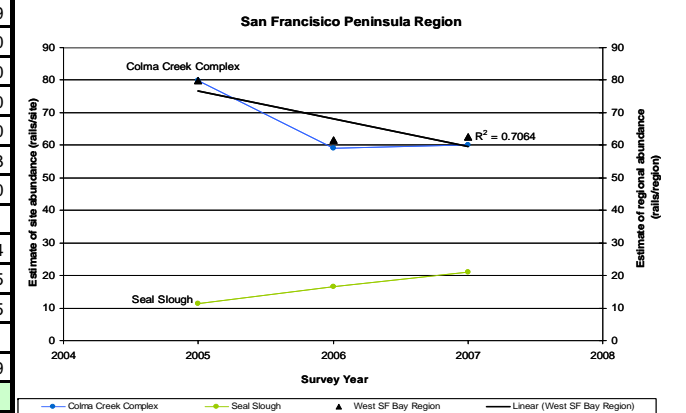
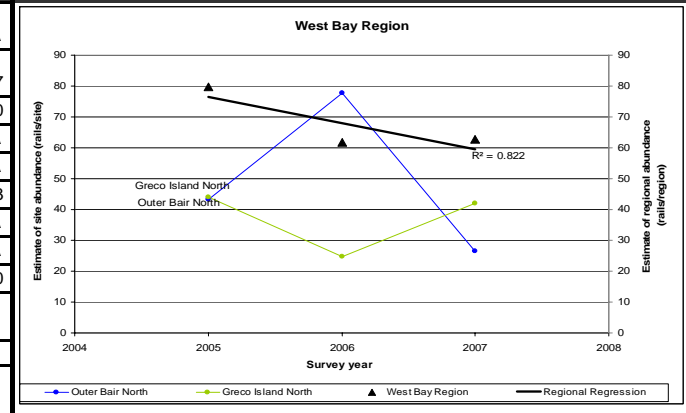
Clapper Rail Population Trends by Region  
 (From Regional Trends in California Clapper Rail Abundance at Non-native Spartina-invaded Sites in the San Francisco Estuary from 2005 to 2007 (McBroom 2008))



[Key for footnotes on page 5]

Sub-Area #	Sub-Area Name	Clapper Rail Surveys Conducted 2008?	Clapper Rail Present	Desired Treatment Entry Date (1)	Sub-Area Area (Acres)	GIS-Estimated 2008.000 Spartina Area (Acres)	EKG-Estimated 2008 Spartina Area (Acres)	SPARTINA TREATMENT METHODS						2005-2008 CALIFORNIA CLAPPER RAIL DATA for Sites w Comparable Data (3)					Population Trend (slope)	R-square	Clapper Rail Population Trends by Region (From Regional Trends in California Clapper Rail Abundance at Non-native Spartina-invaded Sites in the San Francisco Estuary from 2005 to 2007 (McBroom 2008))
								Ground			Aerial			Average Count by Year (5)							
								Mechanical		Herbicide			Helicopter			2005	2006	2007			
Dig	Cover	Backpack	Amphibious Vehicle	Truck	Boat	Helicopter	2005	2006	2007	2005	2006	2007	2005	2006	2007						
<b>WESTERN SOUTH BAY REGION</b>					<b>1,620</b>	<b>9</b>	<b>19</b>														
16	Cooley Landing Restoration (Ravenswd Open Space Preserve)	Yes	Yes	Jun 1	199	3.286	4.0			X	X	X	X	X							
15a	South Bay Marshes (1)		Yes	Jun 1	700		8.0			X	X	X	X	X							
15b	Faber/Laumeister Marsh		Yes	Jun 1	200	0.004	-0			X					45	76	97	26.00	0.99		
15c	Shoreline Regional Park at Mt View		Yes	Jun 1	163	4.348	3.0			X	X	X	X	X							
02j	Ravenswood Open Space Preserve	Yes	Yes	Jul 15	123	0.786	2.5			X	X	X	X	X							
08a	Palo Alto Baylands		Yes	Jul 15	234	0.427	1.0			X		X			14	24	ND	10.00	1.00		
<b>WEST BAY REGION (SM to Dumbarton Bridge)</b>					<b>3,983</b>	<b>38</b>	<b>41</b>								<b>87</b>	<b>103</b>	<b>68</b>	<b>-4.8</b>			
02a	Belmont Sl/Is, North Pt, Bird Isl, Steinberger Sl/Rdwd Shores	Yes	Yes	Jun 1	401	7.390	10.0			X	X	X	X	X	0	15	0	N/A	N/A		
02b	Steinberger Sl South, Corkscrew Sl Redwood Cr No	Yes (9)	Yes	Jun 1	430	4.816	2.0			X	X	X	X	X	30	5	0	-14.75	0.87		
02c	B2 North Quadrant	Yes (9)	Yes	Jun 1	521	10.017	5.0			X	X	X	X	X	31	ND	42	5.78	1.00		
02d	B2 South Quadrant - Rookery	Yes	Yes	Jun 1	135	1.149	2.5			X	X	X	X	X	ND	13	ND	N/A	N/A		
02e	West Point Slough NW	Yes (6)	Yes	Jul 15			4.0			X	X	X	X	X	ND	0	0	N/A	N/A		
02f	Greco Island North	Yes	Yes	Jul 15	595	4.858	3.0			X	X	X	X	X	54	54	50	-2.25	0.83		
02g	West Point Slough SW and East	Yes	Yes	Jul 15	126	1.268	3.0			X	X	X	X	X	ND	0	0	N/A	N/A		
02h	Greco Island South	Yes (9)	Yes	Jul 15	293	3.377	4.0			X	X	X	X	X	ND	55	ND	N/A	N/A		
02i	Ravenswood Slough & Mouth	Yes (9)	Yes	Jul 15	153	3.309	5.0			X	X	X	X	X	ND	35	20	-15.00	1.00		
02k	Redwood Creek and Deepwater Slough Restoration		Yes	Jul 15	602	1.350	2.5			X	X	X	X	X							
02l	Inner Bair Island Restoration		Yes	Jul 15	327		-0			X	X	X	X	X							
02m	Pond B3: Middle Outer Bair Island Restoration		Yes	Jul 15	399		-0			X	X	X	X	X							
<b>SAN FRANCISCO PENINSULA REGION</b>					<b>748</b>	<b>33</b>	<b>69</b>								<b>80</b>	<b>62</b>	<b>63</b>	<b>-0.5</b>			
18e	Sam Trans Peninsula	Yes	Yes	Jul 1	25	0.588	4.5			X	X	X		X	17	14	9	-3.75	0.99		
18a	Colma Creek	Yes	Yes	Jul 15	15	2.476	5.0			X	X				ND	10	4	-5.50	1.00		
18b	Navigable Slough	Yes	Yes	Jul 15	7	3.323	1.5			X	X				ND	4	3	-0.50	1.00		
18c	"Old Marina"	Yes	Yes	Jul 15	6	0.221	1.0			X		X			ND	2	0	-1.50	1.00		
18d	"Inner Harbor"	Yes	Yes	Jul 15	14	0.062	2.5			X	X	X		X	18	4	3	-7.25	0.80		
18f	"Confluence Marsh"	Yes	Yes	Jul 15 (2)	7	0.274	4.0			X	X			X	8	10	9	0.50	0.43		
18g	San Bruno Marsh	Yes	Yes	Jul 15 (2)	49	6.241	25.5			X	X			X	25	14	18	-3.50	0.40		
18h	San Bruno Creek	Yes	Yes	Jul 15	8	0.462	1.5				X	X									
19b	Sierra Point	Yes	Yes	Jul 15	37	0.968	1.0			X		X			0	1	4	1.75	0.94		
19c	Oyster Cove	Yes	Yes	Jul 15	17	0.335	0.5			X		X			0	2	2	0.75	0.75		
19f	Point San Bruno	Yes	Yes	Jul 15	9	1.025	0.1			X			X		0	0	2	0.75	0.75		
19h	SFO shoreline	Yes	Yes	Jul 15	90	4.994	4.0			X	X		X								
19p	Seal Slough Mouth	Yes	Yes	Jul 15	119	4.532	3.0			X				X	11	24	42	15.57	0.99		
19k	Sanchez Marsh	Yes	No	Jul 1	18	0.105	2.0				X										
19l	Burlingame Lagoon		No	Jul 1	43	0.219	1.0			X	X		X								
19a	Brisbane Lagoon	Yes	No	Jul 15	41	0.692	3.0			X		X									
19d	Oyster Point Marina	Yes (6)	No	Jul 15	33	0.012	1.0	X		X					0	0	0	N/A	N/A		
19e	Oyster Point Park	Yes	No	Jul 15	6	0.935	1.0			X	X				0	0	0	N/A	N/A		
19g	Seaplane Harbor		No	Jul 15	15	1.515	0.1			X			X								
19j	Mills Creek Mouth	Yes	No	Jul 15	7	1.478	1.5			X	X	X	X								
19j	Easton Creek Mouth	Yes (6)	No	Jul 15	18	0.549	1.5			X	X		X								
19m	Fisherman's Park		No	Jul 15	11	0.012	-0			X		X									
19n	Coyote Point Marina/Marsh	Yes (6)	No	Jul 15	62	0.803	0.5			X	X	X									
19o	San Mateo Creek /Ryder Park	Yes (6)	No	Jul 15	40	0.542	1.0			X	X										
19q	Foster City		No	Jul 15	48	0.169	1.0			X	X				0	0	0	N/A	N/A		
19r	Anza Lagoon		No	Jul 15	5	0.877	1.0			X		X									

Graphic not available for this region



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								Mechanical	Herbicide		Aerial			2005	2006	2007					
Dig	Cover	Backpack	Amphibious Vehicle	Truck	Boat	Helicopter															
<b>WEST CENTRAL BAY REGION</b>					<b>1,168</b>	<b>5</b>	<b>6</b>														
04a	Corte Madera Marsh Reserve	Yes	Yes	May 1	81	0.027	0.1	X		X					74	37	29	-22.25	0.88		
04b	College of Marin Ecological Reserve	Yes	Yes	May 1	3	0.018	0.1	X		X					0	0	0	N/A	N/A		
04c	Piper Park East		Yes	May 1	11	0.002	-0	X							ND	1	3	1.39	1.00		
04d	Piper Park West		Yes	May 1	14	0.001	-0	X							ND	1	3	1.33	1.00		
04f	Riviera Circle	Yes (6)	Yes	May 1	11	0.078	0.5	X		X			X								
04g	Creekside Park	Yes	Yes	May 1	20	1.417	2.0	X		X					7	10	13	3.00	1.00		
04h	Road)	Yes	Yes	May 1	19	0.636	0.1	X		X			X		ND	1	2	0.50	1.00		
04j	HWY 101)	Yes	Yes	May 1	29	1.018	0.5	X		X			X		ND	5	14	8.50	1.00		
04k	Boardwalk No. 1 (Arkites)		Yes	May 1	12	0.036	-0	X		X					ND	1	0	-0.72	1.00		
23e	Martas Marsh		PP	May 15	187	0.090	0.1	X		X			X								
9	Pickleweed Park	Yes	Yes	Jun 1	15	0.011	-0	X		X			X		ND	2	3	1.50	1.00		
23j	Bothin Marsh		Yes	Jul 15	159	0.418	0.1	X													
23o	Marin Islands NWR		PP	NA	45		-0														
04e	Larkspur Ferry Landing Area	Yes	No	May 1	11	0.077	-0	X		X											
04i	HWY 101)	Yes	No	May 1	72	0.119	0.5	X		X			X		ND	0	0	N/A	N/A		
sub1	Murphy Creek	Yes	No	May 1	12		-0	X		X			X		ND	0	0	N/A	N/A		
sub2	McCallister Ave/COM ESA NE	Yes	No	May 1	3		-0	X		X			X		ND	0	0	N/A	N/A		
04l	Murphy Creek		No	May 1	5		-0	X													
23g	Greenwood Beach Road/Harbor	Yes (6)	No	May 1	21	0.030	0.1	X		X											
23h	Strawberry Point	Yes	No	May 1	64	0.009	-0	X		X			X								
23i	Starkweather Park		No	May 1	34	0.000	-0														
23d	San Rafael Canal Mouth North		No	May 15	18	0.071	-0	X		X											
03a	Blackie's Creek (above bridge)	Yes	No	Jun 1	1	0.011	-0	X		X			X		0	0	0	N/A	N/A		
03b	Blackie's Creek Mouth	Yes	No	Jun 1	34	0.021	0.5	X		X			X		0	0	0	N/A	N/A		
23f	Paradise Cay		No	Jun 1	56	0.192	0.1	X		X											
23a	Brickyard Cove		No	<Jun 15	15	0.000	-0	X													
23b	Beach Drive		No	Jul 15	15	0.111	1.5	X		X			X								
23c	Loch Lomond Marina		No	Jul 15	13	0.009	-0	X		X											
23i	Strawberry Cove	Yes	No	Jul 15	11		-0			X											
23k	Sausalito		No	Jul 15	158	0.108	-0	X													
23n	Triangle Marsh		No	Jul 15	18	0.023	-0	X													
<b>NO ASSIGNED REGION</b>					<b>7,129</b>	<b>2</b>	<b>5</b>														
26b	San Pablo Bay NWR Shoreline		PP	Jun 1	45	0.025	0.01	X					X								
24a	Upper Petaluma River- Upstream of Grey's Field		PP	Jun 1	458	0.138	0.1	X					X								
24b	Grey's Field		PP	Jun 1	159		-0	X					X								
24c	Petaluma Marsh		PP	Jun 1	4139	0.003	0.1	X					X								
26a	White Slough/Napa River		PP	Jun 1	25	0.010	0.01	X													
24d	Antonio Cr		PP	NA	1765			X					X								
12a	Pier 94		No	Jun 1 (4)	5	0.002	-0	X	X	X											
12b	Pier 98/Heron's Head		No	Jun 1 (4)	19	0.050	-0	X	X	X											
12c	India Basin		No	Jun 1	10	0.135	0.1			X			X								
12d	Hunters Point Naval Reserve		No	Jun 1	15	0.429	2.0			X			X								
12e	Yosemite Channel		No	Jun 1	22	0.052	1.5			X			X								
12f	Candlestick Cove		No	Jun 1	34	0.584	0.5			X			X								
12g	Crissy Field		No	Jun 1	5		-0	X													
12h	Yerba Buena Island		No	Jun 1	71	0.002	0.1			X											
12i	Mission Creek (China Basin)		No	Jun 1 (4)	22	0.001	-0	X		X											
23m	Novato		No	Jul 15	155	0.023	0.1	X					X								
11	Southampton Marsh		No?	Aug 1	180	0.054	0.5	X		X											

Graphic not available for this region

Graphic not available for this region

Sub-Area #	Sub-Area Name	Clapper Rail Surveys Conducted 2008?	Clapper Rail Present	Desired Treatment Entry Date (1)	Sub-Area Area (Acres)	GIS-Estimated 2008.000 Spartina Area (Acres)	EKG-Estimated 2008 Spartina Area (Acres)	SPARTINA TREATMENT METHODS							2005-2008 CALIFORNIA CLAPPER RAIL DATA for Sites w Comparable Data (3)				Clapper Rail Population Trends by Region (From Regional Trends in California Clapper Rail Abundance at Non-native Spartina-invaded Sites in the San Francisco Estuary from 2005 to 2007 (McBroom 2008))	
								Ground			Aerial				Average Count by Year (5)			Population Trend (slope)	R-square	
								Mechanical	Herbicide		Aerial			2005	2006	2007				
								Dig	Cover	Backpack	Amphibious Vehicle	Truck	Boat	Helicopter						
					21717	187	305													

Footnotes:

- (1) Represents desired earliest entry date for effective Spartina control. Darker background colors indicate earlier desired entry. Treatment details are included in the site-specific plan for each sub-area.
- (2) Entry by June 15 for chemical mowing by helicopter, if needed.
- (3) A full review of California clapper rail population trends at sites and within clapper rail regions is provided in the ISP report "Regional Trends in California Clapper Rail Abundance at Non-native Spartina-invaded Sites in the San Francisco Estuary from 2005 to 2007 (McBroom 2008)
- (4) June 1 for herbicide application, mechanical work should be done year-round.
- (5) Regional clapper rail counts and trends are shown only for regions where data could appropriately be analyzed. See the trends report cited in (3), above, (McBroom 2008) for more information.
- (6) "F Protocol" survey for potential habitat only.
- (7) Clapper rail surveys conducted by East Bay Regional Park District
- (8) Clapper rail surveys conducted by US Fish and Wildlife Service
- (9) Clapper rail surveys conducted by Point Reyes Bird Observatory