

**California Clapper Rail Survey Rounds and Surveyors for 2005-2007  
at Invasive *Spartina* Control Sites  
Within Clapper Rail Population Regions Defined by USFWS**

USFWS Region	ISP Control Site Number	ISP Control Site Name	Number of Survey Rounds			Entity Conducting Surveys		
			2005	2006	2007	2005	2006	2007
<b>Don Edwards National Wildlife Refuge</b>								
	05b	Dumbarton / Audubon	3	3	3	PRBO	PRBO	PRBO
	05c	Newark Slough	3	3	3	PRBO	ISP	ISP
	05d	La Riviere / Mayhews	2	2	2	USFWS	USFWS	USFWS
<b>Hayward Region</b>								
	07a	Oro Loma East	3	3	4	EBRPD	ISP	ISP
	07b	Oro Loma West	3	3	3	EBRPD	ISP	ISP
	20c	Dogbone Marsh	1	3	3	ISP	ISP	ISP
	20d	Citation Marsh	3	3	3	ISP	ISP	ISP
	20e	East Marsh	3	3	3	ISP	ISP	ISP
	20f	North Marsh	3	3	3	ISP	ISP	ISP
	20g	Bunker Marsh	2	3	3	ISP	ISP	ISP
	20h	San Lorenzo Crk	3	3	3	ISP	ISP	ISP
	20i	Bockmann Channel	2	3	3	ISP	ISP	ISP
	20k	Hayward Landing	2	3	3	ISP	ISP	ISP
	20l	Johnsons Landing	1	3	3	ISP	ISP	ISP
	20m	Cogswell Sec A	3	3	3	EBRPD	ISP	ISP
	20n	Cogswell Sec B	4	3	3	EBRPD	ISP	ISP
	20o	Cogswell Sec C	4	3	3	EBRPD	ISP	ISP
<b>East Bay Region</b>								
	01a	AFCC - Channel Mouth	3	2	2	USFWS	USFWS	USFWS
	01b	AFCC - Lower Channel	3	2	2	USFWS	USFWS	USFWS
	01c	AFCC - Upper Channel	3	2	2	USFWS	USFWS	USFWS
	01d	AFCC - Union City Blvd to I-880	3	2	2	USFWS	USFWS	USFWS
	01f	AFCC - Pond 3	3	2	2	USFWS	USFWS	USFWS
	13a	OAC North Bank	2	2	2	USFWS	USFWS	USFWS
	13b	OAC Central Island	2	2	2	USFWS	USFWS	USFWS
	13c	OAC South Bank	2	2	2	USFWS	USFWS	USFWS
	13d	N Whales Tail	2	1	2	USFWS	USFWS	USFWS
	13e	S Whales Tail	1	1	2	USFWS	USFWS	USFWS
	13f	Cargill Mitigation Marsh	1	1	2	USFWS	USFWS	USFWS
	13g	Upstream of 20 Tides	3	2	2	USFWS	USFWS	USFWS
	21a	Ideal Marsh North	2	3	2	USFWS	USFWS	USFWS
	21b	Ideal Marsh South	2	1	2	USFWS	USFWS	USFWS
<b>West Bay Region</b>								
	02c	B2 North Quadrant	3	3	2	PRBO	ISP	PRBO
	02f	Greco Island North	3	3	3	PRBO	ISP	ISP
<b>San Leandro Bay Region</b>								
	17a	Elsie Roemer	3	3	4	EBRPD	ISP	ISP
	17b	Bay Farm Island	1	3	3	ISP	ISP	ISP
	17c	Arrowhead Marsh	3	3	2	EBRPD	EBRPD	EBRPD/ISP
	17d	MLK Regional Shoreline	3	3	3	EBRPD	ISP	ISP
	17e	San Leandro Crk	3	3	3	ISP	ISP	ISP
	17h	MLK Restoration Marsh	3	3	3	EBRPD	ISP	PRBO
	17j	Fan Marsh	3	3	3	ISP	ISP	ISP
	17k	Airport Channel	1	3	3	ISP	ISP	ISP
	17l	Doolittle Pond	1	3	3	ISP	ISP	ISP
	17m	Alameda Is East	1	3	3	ISP	ISP	ISP

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			2005	2006	2007	2005	2006	2007
<b>Peninsula Region</b>								
	18c	Old Marina	3	3	1	ARA	ARA	ARA
	18d	Inner Harbor	3	3	3	ARA	ARA	ARA
	18e	Sam Trans Peninsula	3	3	1	ARA	ARA	ARA
	18f	Confluence Marsh	3	3	1	ARA	ARA	ARA
	18g	San Bruno Marsh	3	3	3	ARA	ARA	ARA
	19b	Sierra Point	1	1	3	ARA	ARA	ISP
	19c	Oyster Cove	1	1	3	ARA	ARA	ISP
	19d	Oyster Pt Marina	2	1	3	ARA	ARA	ISP
	19e	Oyster Pt Park	1	1	3	ARA	ARA	ISP
	19f	San Bruno Point	1	1	3	ARA	ARA	ISP
	19i	Mills Creek Mouth	1	2	3	none	ARA	ISP
	19j	Easton Creek Mouth	1	2	3	none	ARA	ISP
	19k	Sanchez Marsh	2	3	3	none	ISP	ISP
	19m	Fisherman's Park	2	1	3	none	ARA	ISP
	19n	Coyote Point Marina	2	1	3	none	ARA	ISP
	19o	San Mateo Creek	1	1	3	none	ARA	ISP
	19p	Seal Slough	1	3	3	ARA	ISP	PRBO

**California Clapper Rail Survey Data and Trends for 2005-2007  
at Invasive Spartina Control Sites  
Within Clapper Rail Population Regions Defined By USFWS**

USFWS Region	ISP Control Site Number	ISP Control Site Name	Clapper Rail Abundance (average number of birds counted*)			Slope	R-squared
			2005	2006	2007		
<b>Don Edwards National Wildlife Refuge</b>							
	05b	Dumbarton / Audubon*	42.12	75.53	53.88	5.88	0.12
	05c	Newark Slough*	4.64	20.11	17.53	6.45	0.60
	05d	La Riviere / Mayhews	16.00	21.00	22.00	3.00	0.87
<b>Hayward Region</b>							
	07a	Oro Loma East	1.50	0.00	7.00	2.75	0.56
	07b	Oro Loma West	6.50	10.67	3.50	-1.50	0.17
	20c	Dogbone Marsh	0.00	0.50	1.33	0.67	0.98
	20d	Citation Marsh	6.00	4.00	7.50	0.75	0.18
	20e	East Marsh	0.50	1.50	1.50	0.50	0.75
	20f	North Marsh	6.67	14.83	18.00	5.67	0.94
	20g	Bunker Marsh	7.50	7.83	4.67	-1.42	0.66
	20h	San Lorenzo Crk	6.00	7.67	10.00	2.00	0.99
	20i	Bockmann Channel	0.00	0.00	0.00	0.00	nul
	20k	Hayward Landing	0.00	0.50	0.00	0.00	0.00
	20l	Johnsons Landing	0.00	0.00	0.50	0.25	0.75
	20m	Cogswell Sec A	0.67	16.00	10.67	5.00	0.41
	20n	Cogswell Sec B	22.00	26.13	32.33	5.17	0.99
	20o	Cogswell Sec C	9.75	14.50	13.67	1.96	0.60
<b>East Bay Region</b>							
	01a	AFCC - Channel Mouth	10.00	8.00	4.00	-3.00	0.96
	01b	AFCC - Lower Channel	25.00	23.50	11.00	-7.00	0.83
	01c	AFCC - Upper Channel*	8.48	12.40	4.57	-1.96	0.25
	01d	AFCC - Union City Blvd to I-880*	1.09	4.38	0.00	-0.55	0.06
	01f	AFCC - Pond 3	5.18	6.22	11.41	3.11	0.87
	13a	OAC North Bank	4.50	6.50	4.50	0.00	0.00
	13b	OAC Central Island	12.50	19.00	20.50	4.00	0.88
	13c	OAC South Bank	4.50	6.50	4.50	0.00	0.00
	13d	N Whales Tail*	5.21	8.33	13.54	4.17	0.98
	13e	S Whales Tail*	16.35	21.16	34.63	9.14	0.93
	13f	Cargill Mitigation Marsh	4.00	9.00	6.00	1.00	0.16
	13g	Upstream of 20 Tides	0.00	0.00	1.84	0.92	0.75
	21a	Ideal Marsh North	5.50	7.50	3.00	-1.25	0.31
	21b	Ideal Marsh South*	6.16	22.34	17.72	5.78	0.48
<b>West Bay Region</b>							
	02c	B2 North Quadrant*	43.35	77.77	26.53	-8.41	0.10
	02f	Greco Island North*	44.09	24.80	41.89	-1.10	0.01
<b>San Leandro Bay Region</b>							
	17a	Elsie Roemer	7.50	10.33	4.63	-1.44	0.25
	17b	Bay Farm Island	6.00	4.83	4.33	-0.84	0.95
	17c	Arrowhead Marsh	95.00	134.00	142.25	23.63	0.88
	17d	MLK Regional Shoreline	10.24	30.15	20.38	5.07	0.26
	17e	San Leandro Crk	0.50	3.33	4.17	1.83	0.91
	17h	MLK Restoration Marsh	5.50	20.83	30.50	12.50	0.98
	17j	Fan Marsh	8.50	7.50	14.83	3.17	0.63
	17k	Airport Channel	4.50	5.50	12.17	3.83	0.85
	17l	Doolittle Pond	3.00	0.50	2.00	-0.50	0.16
	17m	Alameda Is East	1.50	0.67	1.17	-0.17	0.16

\* Results shown for sites 05b, 05c, 01c, 01d, 13d, 13e, 21b, 02c, and 02f were estimated based on surveys conducted on less than 100% of the ISP treatment site.

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			2005	2006	2007		
<b>Peninsula Region</b>							
	18c	Old Marina	1.50	1.50	0.00	-0.75	0.75
	18d	Inner Harbor	17.50	4.00	3.00	-7.25	0.80
	18e	Sam Trans Peninsula	16.50	13.50	9.00	-3.75	0.99
	18f	Confluence Marsh	8.00	9.50	9.00	0.50	0.43
	18g	San Bruno Marsh	25.00	14.00	18.00	-3.50	0.40
	19b	Sierra Point	0.00	1.00	1.17	0.58	0.85
	19c	Oyster Cove	0.00	1.50	0.50	0.25	0.11
	19d	Oyster Pt Marina	0.00	0.00	0.00	0.00	nul
	19e	Oyster Pt Park	0.00	0.00	0.00	0.00	nul
	19f	San Bruno Point	0.00	0.00	0.50	0.25	0.75
	19i	Mills Creek Mouth	0.00	0.00	0.50	0.25	0.75
	19j	Easton Creek Mouth	0.00	0.00	0.00	0.00	nul
	19k	Sanchez Marsh	0.00	0.00	0.00	0.00	nul
	19m	Fisherman's Park	0.00	0.00	0.00	0.00	nul
	19n	Coyote Point Marina	0.00	0.00	0.00	0.00	nul
	19o	San Mateo Creek	0.00	0.00	0.00	0.00	nul
	19p	Seal Slough	11.30	16.67	21.00	4.85	1.00
<b>TOTALS</b>			<b>547.82</b>	<b>757.48</b>	<b>708.77</b>		

\* Results shown for sites 05b, 05c, 01c, 01d, 13d, 13e, 21b, 02c, and 02f were estimated based on surveys conducted on less than 100% of the ISP treatment site.