Bird Counts
Cargill Pond 10, Redwood City, San Mateo Co., CA
All counts made within 3 hours of high tide
Blank cells = no birds
Bird seasons separated by two empty columns
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Date (MM/DD/YYYY)	12/22/2009
BBPL	
KILL	
SEPL	
BNST	
AMAV	80
GRYE	
XYEL	
WILL	1000
WHIM	
MAGO	50
WESA	
LESA	
DUNL	
XWLS	
XWLD	10
XWSD	
small shorebird	
LBDO	
XDOW	
GREG	
CANG	
NSHO	
GRSC	
LESC	
XSCA	
BUFF	
COGO	
FOTE	
UNGU	

TOTAL	1140
Notes	Numbers in red indicate that at least some birds were foraging

start time	1530
end time	1610
wind	0-1 mph
cloud cover %	0
precipitation	0

wind speed measured with Sper Sci. LTD Model 850070 Min. Env. Qual. Meter

Foraging/roosting counts from dates when foraging and roosting birds were counted separately

Date	SEPL foraging
12/22/2009	
1/11/2010	
1/30/2010	
4/6/2010	
1/18/2011	
2/18/2011	
3/4/2011	
3/18/2011	
4/6/2011	

11/13/2011	
4/5/2012	
4/22/2012	
4/27/2015	
12/14/2012	
12/15/2012	
12/18/2012	
1/5/2015	
1/9/2015	
1/26/2013	
1/27/2013	
2/23/2013	
3/16/2013	
4/9/2013	
4/17/2013	
3/16/2014	
4/1/2014	
12/23/2014	
1/7/2015	
1/8/2015	
1/22/2015	
2/7/2015	
2/18/2015	
3/10/2015	
3/18/2015	
4/1/2015	
4/16/2015	
11/11/2015	30
12/23/2015	
1/7/2016	
2/9/2016	
2/24/2016	
3/8/2016	
3/25/2016	
4/7/2016	
4/21/2016	
5/7/2016	

CODE	SPECIES
BBPL	Black-bellied Plover
KILL	Killdeer
SEPL	Semipalmated Plover
BNST	Black-necked Stilt
AMAV	American Avocet
GRYE	Greater Yellowlegs
XYEL	Greater/Lesser Yellowlegs
WILL	Willet
WHIM	Whimbrel
MAGO	Marbled Godwit
WESA	Western Sandpiper
LESA	Least Sandpiper
DUNL	Dunlin
XWLS	Western or Least Sandpiper

1/1/2010	1/11/2010	1/15/2010	1/23/2010	1/30/2010	2/14/2010	2/16/2010	3/11/2010
17	4		20	20	50	40	45
200	180	230	230	300	250	250	530
1100	2000	1500	1200	2300	2000	1250	1510
					1		1
300	260	350	210	265	350	310	50
		120					
300	300		200	75			880
						70	
20	70		20	45	90	50	78
11		1		5			
					2		

1948	2814	2201	1880	3010	2743	1970	3094
				video available at: https://www.youtube.com/watch?v=AmqTZCnAW6k			
1345	1130	1140	1630	1345	1430	1430	1045
1425	1200	1255	1710	1430	1500	1510	1116
0 - light breeze	0	0	light	light	0 - light	0	light
70	90	100	80	30	0	0	0
0	0	0	0	0	0	0	0
SEPL roosting	BNST foraging	BNST roosting	AMAV foraging	AMAV roosting	GRYE foraging	GRYE roosting	XYEL foraging
	4						
	20						
	35						

	2					
	12					
	25					
			90	240		1
						1
	13	98				
			2	131		
	60	70				
					1	
	5	25				
					1	
	260	100	60	550		3
	75	75	10	320	3	
	30	83	17	85		
100						
	184	96	32	429		
	87	240	54	260		
	220	22	55	540		15
		2		7	3	
			3			

CODE	SPECIES	4/6/2010	11/27/2010
XWLD	Western/Least/Dunlin		
XWSD	Western Sandpiper/Dunlin		120
small shorebird	"small shorebird" could include small *Charadrius* and/or small *Calidris* species	350	700
LBDO	Long-billed Dowitcher		750
XDOW	unidentified dowitcher species		
CANG	Canada Goose		
NSHO	Northern Shoveler		
GRSC	Greater Scaup		
LESC	Lesser Scaup		
XSCA	Greater/Lesser Scaup		
BUFF	Bufflehead		
COGO	Common Goldeneye		
FOTE	Forster's Tern		
UNGU	Unidentified Gull	10	

	360	1570
	1110	1630
	1125	1649
light		0 - light
	0	100
	0	0

XYEL roosting	WILL foraging	WILL roosting	MAGO foraging

20	980
10	1290
85	600

900	1000
110	200
200	700
30	45

55	660
110	440
500	500
3	

12/16/2010	12/20/2010	12/23/2010	1/18/2011	2/13/2011	2/18/2011	3/4/2011	3/18/2011	4/6/2011	4/17/2011
		95	35	95	80	157	96	45	53
	150	225	100	355	310	513	160	160	42
									2
730	1360	1090	1700	1000	730	1410		740	340
						2			
150	390	220	250	950	700	610	320	435	390
								18	
	15							342	
			3000	3500	400	630	660		
									5200
	40			78	115	85		680	1470
						1			
3									
					16	2	12		
				3	13	7	4	13	
					3	2	18	12	
					2				
		200	40	19					

883	1955	1830	5125	6000	2369	3419	1270	2445	7497
									video available at: https://www.youtube.com/watch?v=poQp-P4Ndyo
910	1140	1430	1415	830	120	1145	1420	1450	1220
915	1205	1500	1430	910	1300	1210	1440	1520	1320
0	light	0	light	light	0	slight	slight	strong	moderate
0	100	0	0	100	100	0	100	0	0
0	0	0	0	0	light	0	raining	0	0

MAGO	WESA	WESA	LESA	LESA	DUNL	DUNL	XWLS	XWLS	XWLD
roosting	foraging	roosting	foraging	roosting	foraging	roosting	foraging	roosting	foraging
									10
									3000
									660

		4				
		10				
	200					
	1	10	20			
	17					30
		30				
		20		500	500	
		80				
	115	75				
396						
		250				
				23		
		15		5	55	
		30	10			
		60	5			
		30				
	200	100	250		700	1300
	10	5100	20		300	1200
	25	475	150	1350		
			40	20		
			2			
	150	200	26		22	3600
	160	20	45		30	3000
	200	100	60	90	500	2900
	90	250	12		10	1200
	160	5300	20	15	160	2700
	590	924			20	50

5/1/2011	5/14/2011	6/8/2011	8/8/2011	8/24/2011	9/14/2011	10/7/2011	10/30/2011
3							
17	10						
27	12	1					
8	13						
8	3						
2330							
	2						
20							

2413	40	1		0	0	0	0	0	
Female northern harrier flushes shorebirds after count is finished.									
1205	1045	1850		1020	1410	1600	1100	1410	
1230	1100	1900		1026	1425	1610	1105	1414	
0 - slight	slight	very slight		0 - slight	0	slight	0	slight	
0	100	0		0	0	0	0	0	
0	0	0		0	0	0	0	0	

XWLD roosting	XWSD foraging	XWSD roosting	XDOW foraging	XDOW roosting	NSHO foraging	NSHO roosting	GRSC foraging	GRSC roosting	LESC foraging
				10					
					16		13		
					2		7		
					12		4		
							13		

12 6

4

2800

2	560
12	23
20	1880
15	130

11/13/2011	11/22/2011	11/27/2011	12/23/2011	1/15/2012	1/22/2012	2/12/2012	2/13/2012	2/14/2012
							360	
						2		
						1200	170	
						230	85	
						10	15	
4							50	
						160	40	2
		45	10					
						45	40	65

4	0	45	10	0	0	1647	760	67

1315	825	1405	925	1705	945	1530	1330	1730
1330	830	1410	935	1715	955	1600	1350	1750
slight	slight	slight	0	moderate	0	slight-mod	0	light
0	100	0	0	20	100	90	90	0
0	0	0	0	0	light showers	0	light-mod showers	0

LESC	XSCA	XSCA	BUFF	BUFF	COGO	COGO
roosting	foraging	roosting	foraging	roosting	foraging	roosting

3
2
18
12

6
4

8

28 8

11 1
51
2 55
47
40 56

4
5
35
9 10 3
5

2/18/2012	2/22/2012	3/3/2012	3/3/2012	3/8/2012	3/11/2012	3/20/2012	3/25/2012	4/5/2012	4/6/2012
								2	6
480	270	350	350	70	75	210	340	200	190
650	900	13	200	320	270	280	1180	900	500
360	400	16	30	220	250	270	340	350	420
							650	1000	180
	20	70				5		10	
	60			60	3	10	570	670	200
									180
85	40	110	70	2		85	25	600	1200

1575	1690	559	650	672	598	860	3105	3732	2876
		two counts made on this date	two counts made on this date						video available at: https://www.youtube.com/watch?v=DIqhDHP_IVE

1215	1530	755	1050	1515	1300	1450	1510	1220	1015
1230	1545	815	1105	1530	1315	1505	1420	1315	1030
5-10 mph	0-5 mph	0	0	1mph<	1-6 mph	0-3 mph	5-8 mph	2-6 mph	0-2 mph
5	5	0	0	0	90	10	99	5	1<
0	0	0	0	0	0	0	0	0	0

4/12/2012	4/22/2012	4/27/2012	5/6/2012	6/28/2012	9/20/2012	10/14/2012	10/28/2012
10	12	22	17				
150	87	36	28				
40	17	16	5				
25		1					
30	1500	200	35				
	1500	100					
30							
1200	1600	600	4				

1485	4716	975	89	0	0	0	0

1615	1455	1530	1340	910	1635	1050	1150
1630	1545	1545	1355	912	1640	1055	1155
6-11 mph	2-6 mph	0-6 mph	0-4 mph	1-3 mph	1-5 mph	0	1< mph
100	0	1<	1<	0	1<	100	0
0	0	0	0	0	0	0	0

11/12/2012	12/2/2012	12/13/2012	12/14/2012	12/15/2012	12/18/2012	1/3/2013	1/5/2013	1/9/2013	1/26/2013
	1	50	25	9	160	91	62	62	120
	210	300	320	220	220	360	220	295	240
	1800	1000	1300	1700	1300	1400	220	960	1240
	460	400	600	240	620	300	400	1000	580
	30		18	1	17			1000	300
	300			30					30
	30	80		30	520	260	5	700	940
					30				
					460				
	70	30	80	60	40	30		207	160
						25	37	12	
								6	
						8	6	4	

0	2901	1860	2343	2290	3367	2474	950	4246	3610

933	1350	1430	925	1220	1320	1300	900	915	1425
938	1410	1445	940	1245	1335	1315	915	955	1440
0-1 mph	0-3 mph	0-3 mph	1-3 mph	0-1 mph	3-8 mph	0	0-1<	1<	2-6 mph
0	95	10	100	100	1<	10	100	100	40
0	0	0	0	light rain	0	0	0	0	0

1/27/2013	2/9/2013	2/23/2013	3/16/2013	3/19/2013	4/5/2013	4/6/2013	4/9/2013	4/17/2013
160	240		111	92	65	33	20	6
330	190	280	520	600	150	165	57	13
1		1						
1060	1000	1280	1500	800	320	80	900	158
680	400	600	300	500	680	600	400	6
100	100	480	115		3100	300	1700	
20		80	75					
1000	1000	1000	820		3100	2400	1700	
				1600				
								2800
20	180	180	110	240	700	760	880	720
						1		
			20					
	22		4					
			8					
			2					

3371	3132	3901	3585		3832	8115	4339	5657	3703
	A pair of gray foxes on west levee, birds do not appear disturbed.					slide show available at: https://youtu.be/-hPWRI6DaKA			

905	1100	1330	1705		1718	1211	940	1556	1633
920	1130	1345	1745		1733	1226	1020	1611	1648
0-1 mph	0-1 mph	1-5 mph	1-5 mph	0-4 mph		1-6 mph	0-1 mph	1-5 mph	1-4 mph
1<	0	1<	1<		100	60	100	0	0
0	0	0	0	light beginning at 1732		0	0	0	0

4/19/2013	5/9/2013	9/15/2013	10/27/3013	11/22/2013	12/14/2013	1/2/2014	1/18/2014
					1		
					72	60	132
					1		
60					1000	960	270
1							
10					170	290	87
100							
2700					5	5	58
				500	40		
700					17		6

3571	0	0	0	500	1306	1315	553	Female northern harrier roosting on SE levee
1813	1425	1002	1758	1400	1125	1225	1155	
1828	1430	1008	1805	1420	1200	1255	1225	
0-4 mph	1-5 mph	0-1 mph	1-5 mph	1-3 mph	0-1 mph	1-2 mph	0-1 mph	
0	2	5	100	5<	1	3	0	
0	0	0	0	0	0	0	0	

2/9/2014	2/20/2014	3/2/2014	3/16/2014	4/1/2014	4/27/2014	5/11/2014
127	242	260	133	67	1	
	2	110				
		4				
				250		
			4			
			21			

	127	244	374	158	317	1	0
	925	1648	1409	1344	1449	1152	1232
	930	1655	1420	1355	1504	1206	1204
0-2 mph	0-2 mph	0-2 mph	0-1 mph	1-4 mph	0-2 mph	1-4 mph	
	100	70	100	1	95	70	0
slight occasional drizzle	0	light occasional sprinkles	0	0	0	0	

5/30/2014	6/6/2014	6/10/2014	6/11/2014	6/16/2014	8/8/2014	8/26/2014	9/19/2014
1	1	2	1				

1	1	2	1	0	0	0	0
Killdeer on nest, two eggs visible	Killdeer on nest	Killdeer exchange nesting duty	Killdeer on nest	No sign of killdeer			

1350	1035	1340	1253	1330	1105	1205	953
1430	1040	1345	1256	1335	1110	1212	959
3-5 mph	1< mph	1-2 mph	1-3 mph	1-4 mph	0-1 mph	0-1 mph	0-1 mph
0	0	0	0	1<	0	0	10
0	0	0	0	0	0	0	0

10/8/2014	10/22/2014	11/5/2014	11/21/2014	12/4/2014	12/9/2014	12/23/2014	1/7/2015	1/8/2015	1/22/2015
					1	130	2		
				139	150	235	150	145	90
									1
				800	1300	1500	1000	1300	685
				150	160	340	300	300	410
					30				
				21					15
					135			23	60
					60				
				75	50	145	150	170	562
								8	
						25		1	
						28		11	51
						8		1	

0	0	0	0	1185	1886	2411	1602	1959	1874

1447	1226	1245	1159	1058	1423	1220	1255	1250	1333
1455	1231	1253	1206	1120	1436	1310	1305	1312	1407
1-3 mph	0-2 mph	0 mph	0-1 mph	1-2 mph	0	0-1 mph	0-1 mph	0	0-1 mph
0	10	5	50	30	100	0	5	100	5<
0	0	0	0	0	0	0	0	0	0

2/7/2015	2/18/2015	3/10/2015	3/18/2015	4/1/2015	4/16/2015	5/1/2015	5/17/2015	6/2/2015
30	166	360	150	113				
270	372	610	330	102				
			3					
	1	3						
110	300	1900	310	900	75			
1		1	1					
450	550	480	860	1300	1310			
				300	5110			
40		65	30	250	20			
				2000	1500			
						630		
370	170	35	240	1900	860			
2		40	34					
55	47	56	45					
		2	11	8	1			

	1328	1606	3552	2014	6873	8876	630	0	0
					Female northern harrier flushes birds after count finished.				

	1437	1045	1558	1053	1140	1127	1208	1252	1347
	1506	1110	1640	1144	1258	1224	1230	1305	1357
0-1 mph	0-1 mph	1-5 mph	0-1 mph	1-4 mph	0-1 mph	1-2 mph	1-3 mph	2-3 mph	
	100	100	100	0	60	0	1	100	1<
occasional light showers	0	0	0	0	0	0	0	0	0

6/17/2015	7/1/2015	7/16/2015	8/3/2015	8/14/2015	8/31/2015	9/16/2015	9/30/2015
					350	67	1100
					5		500
							800

0	0	0	0	0	355	67	2400

1438	1231	1312	1523	1252	1344	1416	1444
1445	1237	1320	1553	1300	1418	1435	1521
1-3 mph	1-4 mph	1-2 mph	2-7 mph	0-3 mph	3-5 mph	1-9 mph	0 mph
1	30	0	1<	1<	0	95	100
0	0	0	0	0	0	0	0

10/16/2015	10/29/2015	11/11/2015	11/25/2015	12/9/2015	12/23/2015	1/7/2016	1/21/2016	2/9/2016
						1		
100	400	130		100	1	140		
		1	1	6	10	18	12	280
			100	250	250	270	130	461
			720	650	780	74	200	680
			456	680	630	580	560	250
2	7	500		2	3	756		210
900	1400	1500		30	60	2		
1	2	500			20	710	80	2200
100								
				4	30	22	110	

1103	1809	2631	1277	1722	1784	2573	1092	4085
		shorebirds flushed by stooping peregrine falcon (2 dives, unsuccessful)					all birds roosting.	WILL, MAGO, WESA and DUNL all roosting.

1335	1243	1027	1116	1037	958	1123	945	1136
1407	1317	1133	1144	1113	1031	1201	1005	1222
0-1 mph	1-4 mph	0 mph	0-2 mph	1-1< mph	0-9 mph	0 mph	0 mph	0 mph
1	0	0	20	100	0	30	10	30
0	0	0	0	0	0	0	0	0

2/24/2016	3/8/2016	3/25/2016	4/7/2016	4/21/2016	5/5/2016	5/17/2016*	6/2/2016*	6/15/2016	6/29/2016
					27				
					1				
327	242	2							
314	595	7	70	3					
		3							
	15								
715	550	1000	3	4					
530	590	700	1100						
350	180	300	340	5460	1514				
26	45	150	12	35					
3622	3030	3400	1210	2860	70				
22	145	900	1500	1310					
	5	19	5						
5	35	3							
1	2								

5912	5434	6484	4240	9672	1612	0	0	0	0
MAGO and XDOW all roosting		At end of count peregrine falcon makes one unsuccessful dive on shorebirds. BNST and AMAV all roosting. GRYE all foraging. WILL: 500 foraging + 500 roosting. MAGO all roosting. WESA: 200 foraging + 100 roosting. LESA: 60 foraging + 90 roosting. DUNL: 500 foraging + 2900 roosting. XDOW all roosting. XSCA: 9 foraging + 10 roosting. BUFF all foraging.	WILL all foraging. WESA: 90 foraging + 250 roosting. LESA all foraging. DUNL: 10 foraging + 1200 roosting. XSCA all diving.	One osprey roosting on post in pond. AMAV: all foraging. WILL: all roosting. WESA: 160 foraging, rest roosting. DUNL: 160 foraging, rest roosting. DUNL and WESA numbers determind by counts and estimated proportions. LESA: 20 foraging + 15 roosting. XDOW all roosting.		* Spotting scope not available today	* Spotting scope not available today		
1303	1018	1510	1203	1203	1222	1028	1107	1017	930
1350	1117	1601	1256	1315	1332	1037	1116	1026	939
0-1 mph	0-2 mph	1-3 mph	0-2 mph	0-2 mph	0-1 mph	0-1 mph	2-3 mph	1-5 mph	1-5 mph
5	40	1	80	90	100	0	0	20	0
0	0	0	0	0	0	0	0	0	0

7/16/2016	8/3/2016	8/16/2016	8/30/2016	9/13/2016	9/28/2016	10/18/2016	10/26/2016	11/3/2016
		550	180					
						42	15	183
							60	190
								1
							280	1200
							32	220
			560			80		1000
						570	90	180
						6		1500
							2600	
				900	480	3400	600	270

0	0	550	740	900	480	4098	3677	4744
		SEPL all roosting	All birds roosting. WESA includes adults and juveniles.	small shorebird: public access not available so could not count all to species. Species identified included SEPL and LESA, but other species may have been present. All roosting at east end of pond.	small shorebird: public access not available so could not count all to species. Species identified included SEPL and LESA, but other species may have been present. All roosting at east end of pond.	West end of pond: BNST: 38 roosting, 4 foraging. LESA: 500 roosting, 70 foraging. WESA: 70 roosting, 10 foraging. DUNL: all roosting. East end of pond: Small shorebirds: include SEPL, LESA, WESA, and DUNL, 3200 roosting, 200 foraging.	LESA all foraging, rest of birds roosting. XWSD, ratio of about 10 DUNL:1 WESA	BNST: 148 foraging, remainder roosting. AMAV: 3 foraging, remainder roosting. WESA: 20 foraging, remainder roosting. LESA: 20 foraging, remaining roosting. DUNL: 5 foraging, remainder roosting. Small shorebirds: 10 foraging, remainder roosting.

1119	1318	1209	1103	1125	1137	1359	1016	1340
1125	1335	1222	1137	1148	1157	1435	1035	1425
1-3 mph	4-6 mph	1-5 mph	0-1 mph	7-9 mph	2-4 mph	0 - 2 mph	0 mph	0 mph
0	0	1<	1%<	40	0	1<	5%	1%<
0	0	0	0	0	0	0	0	0

11/16/2016	12/1/2016	Date (MM/DD/YYYY)
		BBPL
		KILL
		SEPL
250	204	BNST
115	173	AMAV
		GRYE
		XYEL
1770	1600	WILL
		WHIM
370	300	MAGO
	520	WESA
130	63	LESA
32	960	DUNL
		XWLS
	40	XWLD
		XWSD
		small shorebird
		LBDO
		XDOW
		GREG
		CANG
		NSHO
		GRSC
		LESC
		XSCA
		BUFF
		COGO
		FOTE
		UNGU

2667	3860	TOTAL
BNST: 10 foraging, rest roosting. LESA: 120 foraging, rest roosting. All other species roosting.	BNST: 62 roosting, 142 foraging. AMAV: 140 roosting, 33 foraging. WILL all roosting. MAGO: all roosting. WESA: 500 roosting, 20 foraging. LESA: 42 roosting, 21 foraging. DUNL: 900 roosting, 60 foraging. XWLD: all foraging.	Notes
1214	1154	start time
1237	1228	end time
2-4 mph	0 - 1< mph	wind
10	0	cloud cover %
0	0	precipitation