

SAVE OUR SHOREBIRDS



Long-billed Curlew—Inglennook Fen-Ten Mile Dunes Preserve

Becky Bowen

2017 Annual State of the Shorebirds Report

Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop

Mackerricher State Park—Mendocino County, CA

Save Our Shorebirds, Mendocino Coast Audubon Society

In partnership with California State Parks

Mendocino North Coast, California Audubon Important Bird Area

Part 1—Watchlisted Shorebirds

**Save Our Shorebirds—Mendocino Coast Audubon Society
In Partnership with California State Parks
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Save Our Shorebirds is an on-going long term Mendocino Coast Audubon Society citizen science program in partnership with California State Parks Sonoma-Mendocino District. Surveyors are supervised by California State Parks environmental scientists and data are made available to the public at no charge. Additional data also are submitted to State Parks, USFWS Western Snowy Plover Recovery Unit 2, and Cornell University Lab of Ornithology’s international eBird database. Save Our Shorebirds (SOS) was established in 2007 and has been supported primarily by grants, private donations, and more than 10,500 hours of volunteer service. Mendocino Coast Audubon Society is a 501C(3) non-profit organization.

*National Audubon Society and the American Bird Conservancy published a national “Watchlist” of birds in 2007. Species that appear on the watchlist are described as birds in serious decline as a result of climate change, loss and degradation of habitat, human disturbance, and predation. Data in this report include species on the watchlist that were observed from 2007-2017 on five Mackerricher State Park survey routes stretching along 15.7 km. of shoreline from Ten Mile River south to the southern boundary of Glass Beach in Fort Bragg, CA. Mackerricher State Park is located in Mendocino County, CA. Some 67 per cent of all shorebird sightings recorded on SOS surveys are watchlisted shorebirds. Heermann’s Gulls (watchlisted seabirds) are not shorebirds but frequently are seen on SOS surveys, so those data are included in this report.

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Save Our Shorebirds

Angela M. Liebenberg, Environmental Scientist, MCAS Save Our Shorebirds Chair

Nathan M. Cooley, Director, Summers 2007, 2008

Joleen Ossello, Director, Summers 2009, 2011

Anne Harvey, Outreach and Education Summer 2015, 2016

Becky Bowen, Volunteer Compiler

Save Our Shorebirds Volunteers 2007-2017

Daniella Aguirre	Terra Fuller (SP)	John Mitchell	Students of the College of the Redwoods North Coast Birding Class, Fall 2010
Andarin Arvola	Bob Gerbi	Barbara Moller	
Barbara Auerbach	Alan Gillespie	Elly Montoya	
Ellen Baron	Greg Grantham	Art Morley	Students of Three Rivers Charter School, Fall 2009
Greg Baron	Jamie Griffith	Cindy Moyer	
Henrietta Bensussen	Jim Griswold	Gail Nsentip	Alex Takone (SP)
Jim Bogue	Sarah Grimes	Suzye Ogawa	
Winston Bowen	Jeremy Gulick	Daniela Ogden	Chuck Taylor
Karen Bowers	Michael Haas	Jose Orellana	Dorothy Tobkin
Charles Brandenburg IV	Karen Havlena	Autumn Ossello	Susan Tubbesing
Jeanette Boyer	Jim Havlena	Renee Pasquinelli (SP)	Ron LeValley
Kevin Braun	Bill Heil	Linda Perkins	Chuck Vaughn
Cheryl Burton	Richard Hubacek	Eric Pinkham	Ginny Wade
Kathy Carl	Teresa Hurray	Boyd Poulsen	Warren Wade
Alison Cebula (SP)*	Adam Hutchins (SP)	Martha Racine	Mark Wasserman
George Chaniot	Naomi Jasper	Lydia Rand	John Wilder
Jan Chaniot	David Jensen	Loren Rex (SP)	David Wolf
Chris Chavez	Trudy Jensen	Kenelly Reyes	Woodlands Home School Students, September 2016
Samantha Coddington-Gordon (SP)	Steve Johnson	Barbara Salvatore	
Joan Collins	Robert Kunicki (SP)	Sal Salvatore	Chuck Worden
Christy Cox	Matt Liebenberg	Colleen Shephard	Molly Worden
Jack Daily	Ana Lytle	Donald Shephard	And in memory of Nancy Pacquette and her SOS surveys on Glass Beach
Enrique Delgadillo	Peggy Martin	Teresa Shumaker	
Pat Dunbar	Louise Mariana	Jary Stavely	
Tony Eppstein	Charlene McAllister	Judy Steele	*SP—California State Parks
Maureen Eppstein	Danuta McCall	Trish Steele	
David Flaim	Frank Menhams	Emily Strachan	
Lisa Free	Susan Mitchell		

WESTERN SNOWY PLOVER

SOS Western Snowy Plover Average Totals 2007-2017
Virgin Creek and Ten Mile Beach Combined
Mackerricher State Park, Mendocino County, CA



Source: SOS Data Sheets, SOS eBird Total Species Counts

SOS Western Snowy Plover Average Totals June, 2007-December, 2017

Source: SOS Data Sheets, SOS eBird Total Species Counts

	Avg. # WSP Per Survey	# Surveys When WSP Observed	Total WSP Sightings
2007	12.57	70	880
2008	7.03	105	738
2009	15.01	74	1,111
2010	16.15	67	1,082
2011	18.19	98	1,783
2012	25.05	74	1,854
2013	23.57	54	1,273
2014	30.80	81	2,495
2015	34.31	88	3,019
2016	48.64	72	3,502
2017	37.70	76	2,865
Yr.Total	23.98	859	20,602

SOS Western Snowy Plover High Counts 2007-2017 Virgin Creek, Ten Mile Combined*

Source: SOS Data Sheets, SOS eBird High Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						1	12	21	24	42	8	32
2008	25	31	5	7	0	1	5	14	16	34	29	31
2009	33	31	14	1	2	0	8	23	24	33	38	38
2010	41	31	34	11	2	0	10	23	28	38	31	42
2011	27	32	16	13	1	0	14	22	34	45	53	55
2012	55	49	35	2	2	0	18	28	45	37	53	48
2013	36	38	23	13	3	1	14	30	41	53	53	48
2014	48	42	41	28	0	2	31	47	52	63	70	63
2015	73	68	59	20	6	4	32	45	74	105	104	116
2016	108	90	71	30	6	1	36	65	53	93	106	93
2017	86	82	63	28	5	4	21	47	66	87	86	82

SOS Western Snowy Plover Monthly Average Counts 2007-2017 Virgin Creek, Ten Mile Beach Combined

Source: SOS Data Sheets, SOS eBird Average Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						1.00	5.00	12.03	14.95	32.75	8.00	32.00
2008	25.00	31.00	5.00	7.00	0.00	1.00	2.31	4.92	7.23	20.83	29.00	31.00
2009	32.50	31.00	14.00	1.00	2.00	0.00	3.33	12.52	16.00	25.67	36.67	22.00
2010	41.00	27.33	26.00	8.33	1.50	0.00	5.50	13.70	17.07	26.20	30.00	41.50
2011	27.00	30.00	16.00	13.00	1.00	0.00	5.75	13.18	13.25	28.29	32.83	51.78
2012	43.00	40.78	35.00	2.00	1.50	0.00	9.29	19.82	22.92	14.00	47.33	48.00
2013	30.00	33.00	23.00	11.00	2.50	1.00	5.00	20.27	27.09	46.25	31.83	36.75
2014	41.80	37.33	31.67	10.50	0.00	2.00	12.93	27.00	36.20	34.60	62.17	46.50
2015	61.00	43.00	35.00	11.75	4.17	3.33	11.91	17.67	26.62	60.50	100.67	97.40
2016	100.00	73.00	50.67	12.62	3.14	1.00	14.62	49.00	38.50	85.00	99.00	89.70
2017	80.50	65.00	44.50	12.56	2.60	2.29	10.11	34.86	35.80	78.20	81.80	74.33



Becky Bowen

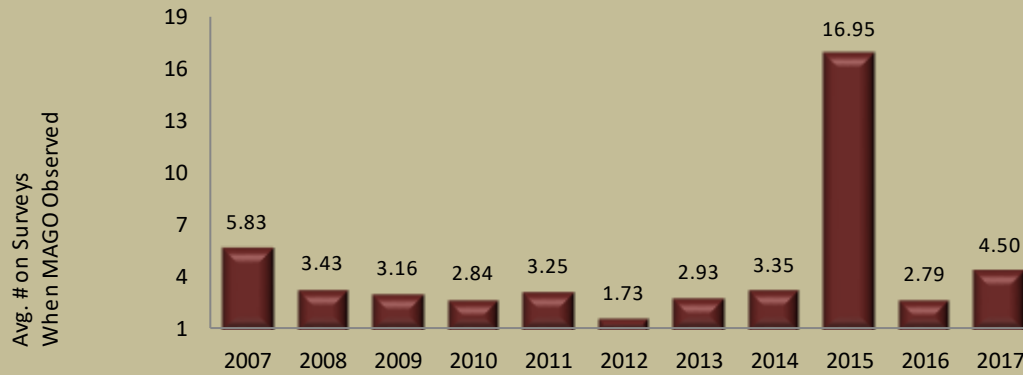
Western Snowy Plover– Ten Mile Beach

November 11, 2017

*Shaded areas indicate months when species were observed on SOS surveys. Light shaded cells indicate highest number of species ever recorded on SOS survey.

MARBLED GODWIT

SOS Marbled Godwit Average Totals 2007-2017
Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, and Lighthouse Loop Combined
Mackerricher State Park, Mendocino County, CA



Source: SOS Data Sheets, SOS eBird Total Species Counts
Note: Trestle Loop and Lighthouse Loop added to survey routes in 2014

SOS Marbled Godwit Average Yearly Totals 2007-2017

Source: SOS Data Sheets, SOS eBird Total Species Counts

	Avg. # MAGO Per Survey	# Surveys When MAGO observed	Total MAGO Sightings
2007	5.83	76	443
2008	3.43	81	278
2009	3.16	45	142
2010	2.84	32	91
2011	3.25	36	117
2012	1.73	30	52
2013	2.93	30	88
2014	3.35	52	174
2015	16.95	40	678
2016	2.79	33	92
2017	4.50	24	108
Yr.Total	4.72	479	2,263

SOS Marbled Godwit Total High Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile, Trestle Loop, Lighthouse Loop

Source: SOS Data Sheets, SOS eBird High Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						3	11	50	16	4	10	0
2008	0	0	0	0	0	2	12	7	16	2	0	0
2009	0	0	0	0	0	0	4	29	6	0	0	0
2010	0	0	0	0	0	1	2	19	8	1	0	0
2011	0	0	0	0	1	0	4	35	4	2	0	0
2012	0	3	0	0	1	0	7	4	7	1	0	0
2013	1	0	0	1	3	0	3	11	7	2	0	0
2014	0	0	0	4	5	8	9	15	14	3	0	0
2015	0	0	0	4	3	1	8	21	67	75	12	7
2016	1	0	0	14	4	5	2	7	6	1	0	0
2017	0	0	0	1	1	1	0	14	16	1	0	0

SOS Marbled Godwit Monthly Average Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile, Trestle Loop, Lighthouse Loop

Source: SOS Data Sheets, SOS eBird Average Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						2.00	4.40	6.26	5.79	3.50	10.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	2.00	2.47	1.96	5.41	1.50	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	1.67	3.70	2.67	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	1.00	1.40	6.80	2.40	1.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	1.00	0.00	2.33	4.05	2.71	2.00	0.00	0.00
2012	0.00	3.00	0.00	0.00	1.00	0.00	3.00	1.44	1.46	1.00	0.00	0.00
2013	1.00	0.00	0.00	1.00	3.00	0.00	2.00	2.40	4.45	1.50	0.00	0.00
2014	0.00	0.00	0.00	2.00	2.33	8.00	5.00	3.80	3.73	1.89	0.00	0.00
2015	0.00	0.00	0.00	2.33	2.00	1.00	5.00	14.60	27.80	33.50	6.00	2.80
2016	1.00	0.00	0.00	14.00	2.17	3.00	1.25	2.29	3.27	1.00	0.00	0.00
2017	0.00	0.00	0.00	1.00	1.00	1.00	0.00	5.75	5.18	1.00	0.00	0.00



Marbled Godwit—Virgin Creek Beach

May 12, 2017

Becky Bowen

BLACK TURNSTONE

SOS Black Turnstone Average Totals 2007-2017
 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop Combined
 Mackerricher State Park, Mendocino County, CA



Source: SOS Data Sheets, SOS eBird Total Species Counts
 Note: Trestle Loop and Lighthouse Loop added to SOS survey routes in 2014

SOS Black Turnstone Average Totals 2007-2017
 Source: SOS Data Sheets, SOS eBird Total Species Counts

	Avg. # BLTU Per Survey	# Surveys When BLTU observed	Total BLTU Sightings
2007	11.36	132	1,499
2008	11.54	127	1,466
2009	11.14	132	1,471
2010	14.13	119	1,681
2011	15.99	148	2,367
2012	10.87	176	1,913
2013	12.70	120	1,524
2014	15.25	173	2,638
2015	15.08	212	3,198
2016	12.58	146	1,836
2017	13.97	134	1,872
Yr.Total	13.26	1619	21,465

SOS Black Turnstone High Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop and Lighthouse Loop-Combined

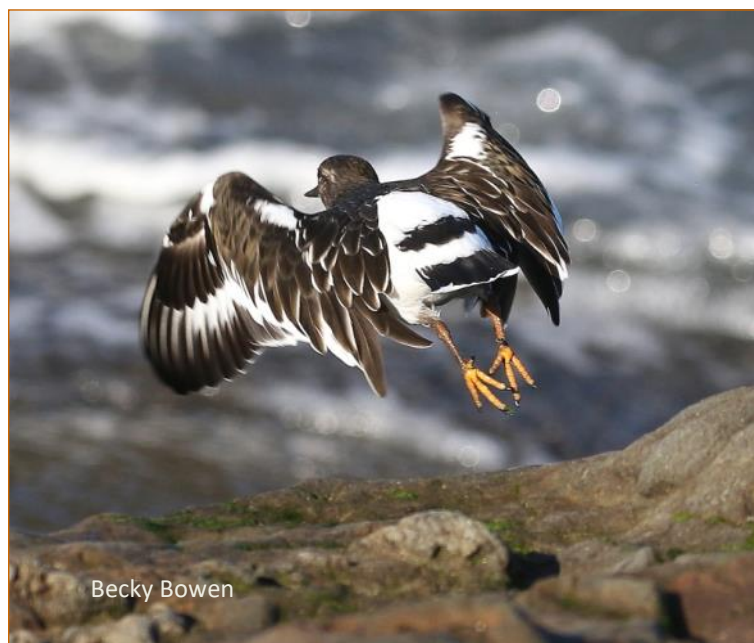
Source: SOS Data Sheets, SOS eBird High Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						0	23	38	59	10	10	6
2008	4	8	25	0	0	0	20	60	40	40	45	25
2009	40	1	0	6	0	3	30	62	25	15	41	12
2010	0	10	30	30	0	0	27	35	39	45	105	25
2011	25	40	49	20	2	0	24	51	70	120	43	15
2012	32	55	10	20	10	0	25	39	41	57	50	26
2013	29	31	45	32	2	0	28	26	15	35	45	49
2014	22	11	23	47	0	0	36	32	38	124	74	19
2015	84	29	74	71	1	0	37	41	38	37	24	46
2016	27	56	28	33	8	0	18	52	69	28	61	25
2017	18	15	12	25	0	0	35	63	53	44	67	37

SOS Black Turnstone Monthly Average Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop and Lighthouse Loop

Source: SOS Data Sheets, SOS eBird Average Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						0.00	6.74	13.12	12.88	4.00	10.00	4.00
2008	3.00	4.00	25.00	0.00	0.00	0.00	4.74	12.48	14.39	20.20	37.50	15.00
2009	26.00	1.00	0.00	6.00	0.00	3.00	7.48	12.18	8.04	8.50	27.75	7.00
2010	0.00	8.00	16.83	15.17	0.00	0.00	12.12	12.27	13.48	12.36	25.75	11.71
2011	12.33	12.73	13.73	16.00	2.00	0.00	8.94	11.12	17.90	36.93	20.75	9.33
2012	7.62	10.00	6.43	7.00	4.64	0.00	8.19	12.57	13.27	17.29	16.50	7.60
2013	14.57	9.33	25.86	12.57	1.50	0.00	6.75	8.91	6.61	17.71	19.57	21.29
2014	9.25	6.67	11.00	22.64	0.00	0.00	11.92	10.28	12.65	23.26	23.04	8.29
2015	21.83	11.10	21.72	16.70	1.00	0.00	8.39	11.86	15.21	16.70	13.11	20.69
2016	8.86	15.00	11.27	10.60	3.33	0.00	5.50	13.40	13.79	13.67	18.94	16.25
2017	7.80	12.33	4.50	7.90	0.00	0.00	10.22	10.15	17.96	17.59	19.24	16.19

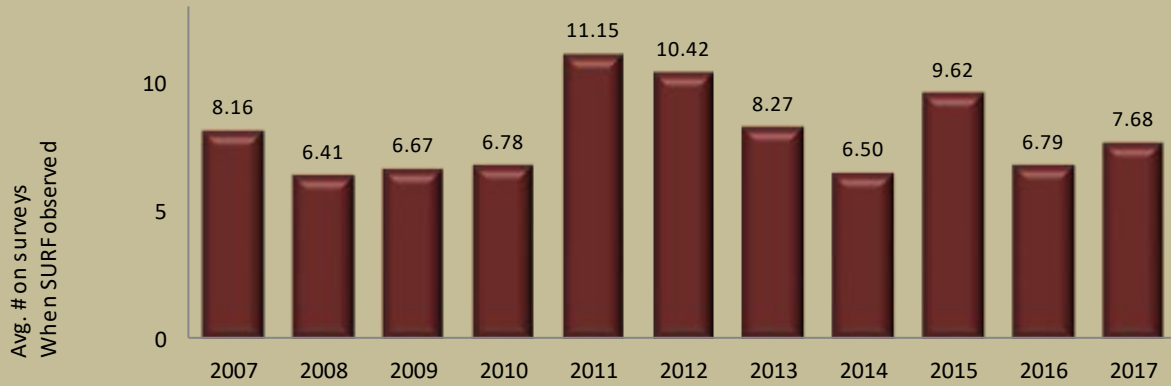


Black Turnstone—Lighthouse Loop

October 5, 2017

SURFBIRD

SOS Surfbird Annual Totals 2007-2017
Glass Beach, Virgin Creek, Ten Mile, Trestle Loop, Lighthouse Loop
Mackerricher State Park, Mendocino County, CA



Source: SOS Data Sheets, SOS eBird Total Species Counts
Note: Trestle Loop and Lighthouse Loop added to survey routes in 2014

SOS Surfbird Average Totals 2007-2017

Source: SOS Data Sheets, SOS eBird Total Species Counts

	Avg. # SURF Per Survey	# Surveys When SURF Observed	Total SURF Sightings
2007	8.16	80	653
2008	6.41	69	442
2009	6.67	57	380
2010	6.78	67	454
2011	11.15	79	881
2012	10.42	92	959
2013	8.27	56	463
2014	6.50	70	455
2015	9.62	71	683
2016	6.79	38	258
2017	7.68	56	430
Yr.Total	8.24	735	6,058

SOS Surfbird High Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile Beach , Trestle Loop, Lighthouse Loop Combined

Source: SOS Data Sheets, SOSeBird High Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						0	42	30	20	6	0	1
2008	0	0	0	0	0	0	25	26	12	2	5	0
2009	14	0	0	0	0	2	24	22	8	0	21	14
2010	0	4	12	0	0	0	20	13	26	15	15	20
2011	7	15	14	0	0	0	82	41	27	21	6	4
2012	10	23	0	0	0	0	53	42	36	32	14	9
2013	21	9	37	2	0	0	18	9	32	20	37	19
2014	1	1	7	2	0	0	14	14	17	19	44	5
2015	52	15	43	5	6	0	10	21	52	52	1	31
2016	8	8	15	15	4	0	6	10	37	21	6	4
2017	5	0	1	5	0	0	7	21	23	26	23	15

SOS Surfbird Monthly Average Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop

Source: SOS Data Sheets, SOS eBird Average Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						0.00	14.53	6.70	5.37	6.00	0.00	1.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	8.14	6.55	4.35	2.00	5.00	0.00
2009	12.00	0.00	0.00	0.00	0.00	2.00	6.81	6.25	2.50	0.00	18.00	9.50
2010	0.00	4.00	7.50	0.00	0.00	0.00	9.18	5.60	7.00	6.11	7.12	8.00
2011	3.25	7.00	7.25	0.00	0.00	0.00	21.88	9.04	7.60	10.00	4.00	14.33
2012	4.33	7.57	0.00	0.00	0.00	0.00	15.50	9.67	12.30	10.18	6.40	7.50
2013	12.00	3.67	12.00	2.00	0.00	0.00	7.71	4.18	15.00	5.00	12.22	8.00
2014	1.00	1.00	3.60	2.00	0.00	0.00	4.60	4.47	4.12	9.00	17.00	3.33
2015	16.71	10.00	14.40	4.00	3.50	0.00	5.29	6.30	9.56	10.78	1.00	11.75
2016	5.50	4.75	6.50	10.00	4.00	0.00	6.00	4.75	11.50	6.60	5.00	2.50
2017	5.00	0.00	1.00	5.00	0.00	0.00	4.33	6.75	10.67	9.00	8.33	7.11



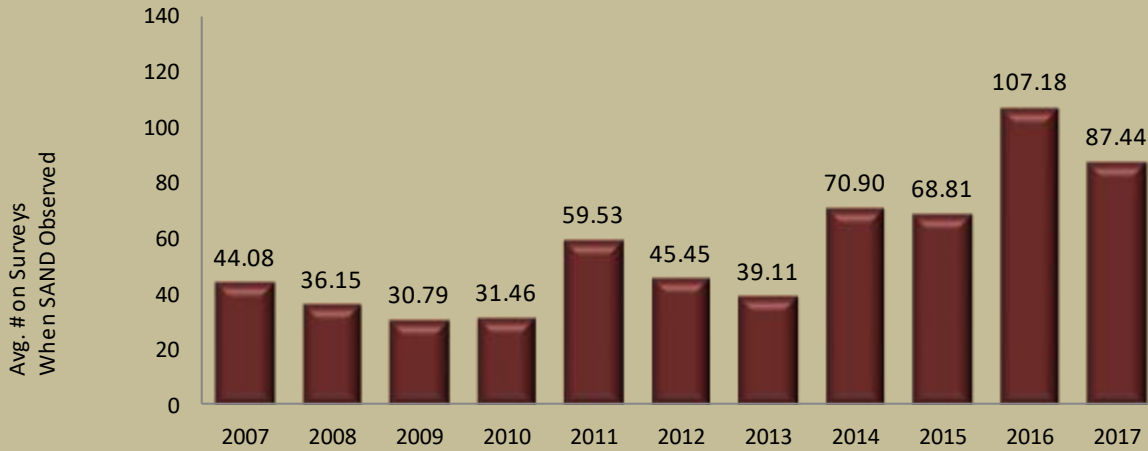
Becky Bowen

Surfbird—Lighthouse Loop

October 13, 2017

SANDERLING

SOS Sanderling Average Totals 2007-2017
 Glass Beach, Virgin Creek, Ten Mile, Trestle Loop, Lighthouse Loop Combined
 Mackerricher State Park, Mendocino County, CA



Source: SOS Data Sheets, SOS eBird Total Species Counts
 Note: Trestle and Lighthouse Loops added to survey routes in 2014

SOS Sanderling Average Totals 2007-2017

Source: SOS Data Sheets, SOS eBird Total Species Counts

	Avg.#	# Surveys	Total
	SAND	When SAND	SAND
	Per Survey	Observed	Sightings
2007	44.08	99	4,364
2008	36.15	117	4,229
2009	30.79	104	3,202
2010	31.46	108	3,398
2011	59.53	144	8,573
2012	45.45	199	9,045
2013	39.11	131	5,123
2014	70.90	132	9,359
2015	68.81	112	7,707
2016	107.18	91	9,753
2017	87.44	95	8,307
Yr.Total	54.85	1,332	73,060

SOS Sanderling High Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop Combined

Source: SOS Data Sheets, SOS eBird High Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						0	245	120	155	300	50	80
2008	150	50	1	3	15	0	168	145	77	52	75	70
2009	60	25	75	50	75	3	87	141	104	22	105	150
2010	110	300	160	50	12	0	100	66	133	110	150	32
2011	54	38	46	30	50	0	94	175	150	270	250	225
2012	216	246	131	75	150	9	75	206	80	99	91	125
2013	55	175	113	250	123	12	200	150	92	75	214	125
2014	297	150	253	350	303	0	75	150	160	200	345	450
2015	250	262	111	400	32	0	200	76	216	101	200	800
2016	800	460	350	18	80	2	75	189	110	133	350	450
2017	500	150	75	135	225	4	200	150	200	250	350	400

SOS Sanderling Monthly Average Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop

Source: SOS Data Sheets, SOS eBird Average Counts

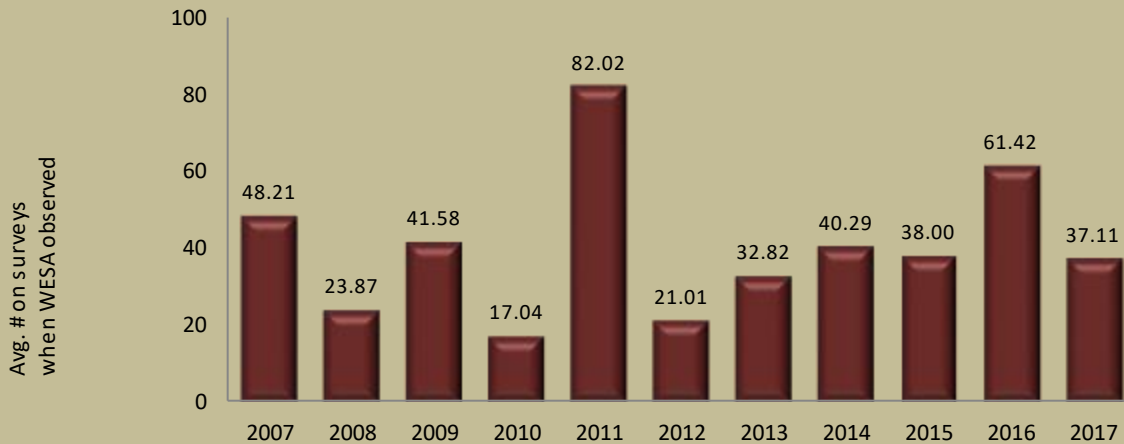
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						0.00	34.39	29.33	50.12	190.40	50.00	41.00
2008	150.00	50.00	1.00	3.00	15.00	0.00	49.34	29.44	27.44	27.80	55.00	58.33
2009	34.00	25.00	75.00	49.00	46.50	3.00	28.18	28.34	24.00	22.00	41.40	82.50
2010	72.50	188.33	127.50	29.00	10.50	0.00	20.79	13.64	23.82	35.33	33.10	18.20
2011	28.00	12.88	45.50	30.00	34.00	0.00	20.57	60.02	55.92	96.43	100.62	125.91
2012	97.32	84.12	27.50	16.73	34.18	6.50	30.45	43.92	32.79	21.07	42.00	47.80
2013	34.29	80.14	47.14	75.62	56.33	6.50	27.38	22.68	26.26	21.23	55.82	69.57
2014	92.50	127.33	172.00	161.55	88.62	0.00	20.74	22.23	35.15	64.24	81.45	164.62
2015	93.56	95.64	27.00	76.12	23.25	0.00	26.92	22.95	59.06	30.88	164.00	245.62
2016	500.00	248.44	145.71	10.71	28.83	2.00	21.00	45.00	20.07	54.33	243.00	275.14
2017	325.00	76.33	43.67	42.43	54.33	2.33	56.40	38.18	44.60	52.50	173.12	173.77



Sanderlings—Ten Mile Beach September 2, 2017

WESTERN SANDPIPER

SOS Western Sandpiper Average Totals 2007-2017
 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop Combined
 Mackerricher State Park, Mendocino County, CA



Source: SOS Data Sheets, SOS e-Bird Total Species Counts
 Note: Trest Loop and Lighthouse Loop added to SOS survey routes in 2014

SOS Western Sandpiper Average Totals 2007-2017

Source: SOS Data Sheets, SOS eBird Total Species Counts

	Avg. #	# Surveys	Total
	WESA	When WESA	WESA
	Per Survey	Observed	Sightings
2007	48.21	128	6,171
2008	23.87	119	2,841
2009	41.58	147	6,112
2010	17.04	82	1,397
2011	82.02	137	11,237
2012	21.01	107	2,248
2013	32.82	98	3,216
2014	40.29	125	5,036
2015	38.00	76	2,888
2016	61.42	72	4,422
2017	37.11	57	2,115
Yr.Total	41.54	1,148	47,683

SOS Western Sandpiper High Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile, Trestle Loop, Lighthouse Loop-Combined

Source: SOS Data Sheets, SOS eBird High Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						23	400	150	70	6	0	0
2008	0	0	0	0	0	0	151	110	25	1	0	0
2009	0	0	0	4	2	22	240	450	125	2	0	0
2010	0	0	0	15	0	1	85	42	16	12	0	0
2011	0	0	0	25	50	9	3,850	205	57	49	0	0
2012	0	0	0	20	50	2	157	136	113	6	0	0
2013	0	1	0	14	40	6	371	260	65	3	1	0
2014	0	0	0	400	50	20	410	75	107	8	1	0
2015	0	0	1	670	30	100	450	150	58	3	0	0
2016	0	0	3	85	200	7	800	530	104	2	0	1
2017	0	0	0	150	15	1	450	75	60	0	0	0

SOS Western Sandpiper Monthly Average Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop

Source: SOS Data Sheets, SOS eBird Average Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						6.83	88.12	31.61	17.34	6.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	39.20	15.57	8.43	1.00	0.00	0.00
2009	0.00	0.00	0.00	4.00	2.00	6.40	48.88	47.52	22.96	2.00	0.00	0.00
2010	0.00	0.00	0.00	6.33	0.00	1.00	28.62	14.00	7.83	12.00	0.00	0.00
2011	0.00	0.00	0.00	13.00	28.50	9.00	154.96	57.80	14.67	19.38	0.00	0.00
2012	0.00	0.00	0.00	7.20	11.62	2.00	34.59	19.18	16.00	3.67	0.00	0.00
2013	0.00	1.00	0.00	14.00	12.25	4.33	58.65	25.69	16.00	2.00	1.00	0.00
2014	0.00	0.00	0.00	59.40	13.50	13.00	80.03	20.00	23.5	2.43	1.00	0.00
2015	0.00	0.00	1.00	114.29	12.00	72.00	47.89	20.47	12.36	2.00	0.00	0.00
2016	0.00	0.00	3.00	18.14	38.00	7.00	103.18	95.40	21.00	2.00	0.00	1.00
2017	0.00	0.00	0.00	27.11	6.67	1.00	77.94	16.93	17.50	0.00	0.00	0.00

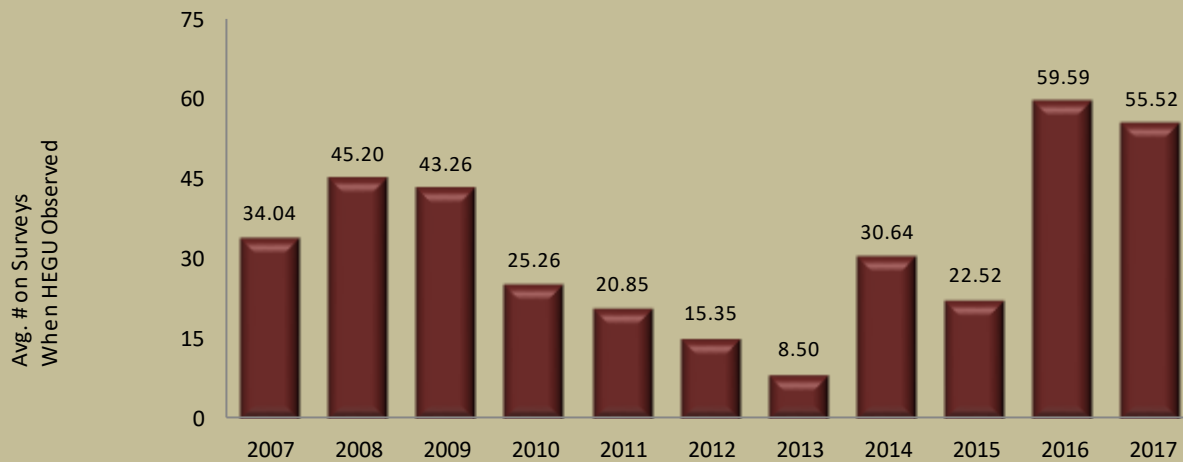


Western Sandpiper—Virgin Creek Beach

July 3, 2017

HEERMANN'S GULL

SOS Heerman's Gull Average Totals 2007-2017
 Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop Combined
 Mackerricher State Park, Mendocino County, CA



Source: SOS Data Sheets, SOS e-bird Species Total Counts
 Note: Trestle Loop, Lighthouse Loop added to SOS survey routes in 2014

SOS Heermann's Gull Average Totals 2007-2017

	Avg. #	# Surveys	Total
	HEGU When HEGU	Observed	HEGU
	Per Survey	Observed	Sightings
2007	34.04	57	1,940
2008	45.20	60	2,712
2009	43.26	77	3,331
2010	25.26	106	2,678
2011	20.85	142	2,961
2012	15.35	135	2,072
2013	8.50	94	799
2014	30.64	137	4,198
2015	22.52	103	2,320
2016	59.59	76	4,529
2017	55.52	54	2,998
Yr.Total	29.34	1041	30,538

SOS Heermann's Gull High Counts 2007-2017 Glass Beach, Virgin Creek, Ten Mile, Trestle Loop, Lighthouse Loop

Source: SOS Data Sheets, SOS eBird High Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						14	80	100	120	35	0	0
2008	0	0	0	0	0	11	250	150	95	2	8	0
2009	0	0	0	0	2	25	155	105	48	3	0	0
2010	0	0	0	0	0	14	105	95	108	40	5	1
2011	0	0	0	0	0	1	77	76	56	6	0	0
2012	0	0	0	0	0	10	77	72	47	53	25	0
2013	0	0	0	0	1	0	32	74	31	33	0	0
2014	0	0	0	0	2	131	239	38	31	203	86	18
2015	22	9	0	0	1	25	150	96	53	47	200	25
2016	5	1	0	0	1	24	465	325	35	7	75	0
2017	0	0	0	0	0	12	250	300	300	14	0	0

SOS Heermann's Gull Monthly Average 2007-2017 Glass Beach, Virgin Creek, Ten Mile, Trestle Loop, Lighthouse Loop

Source: SOS Data Sheets, SOS eBird Average Counts

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007						8.25	23.76	56.00	36.00	20.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	4.75	69.06	52.04	23.92	1.50	8.00	0.00
2009	0.00	0.00	0.00	0.00	2.00	17.00	59.64	46.60	21.81	3.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	6.00	32.50	26.13	28.56	10.20	2.50	1.00
2011	0.00	0.00	0.00	0.00	0.00	1.00	22.68	23.69	14.58	3.14	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	6.50	18.30	16.76	11.09	9.67	11.40	0.00
2013	0.00	0.00	0.00	0.00	1.00	0.00	7.87	10.52	7.95	5.82	0.00	0.00
2014	0.00	0.00	0.00	0.00	2.00	37.00	58.19	11.71	6.29	25.39	24.77	11.00
2015	7.88	3.67	0.00	0.00	1.00	11.29	20.5	22.40	18.50	22.62	70.25	25.00
2016	2.00	1.00	0.00	0.00	1.00	8.00	135.53	82.37	11.08	3.50	22.50	0.00
2017	0.00	0.00	0.00	0.00	0.00	6.50	54.79	50.38	80.76	8.67	0.00	0.00



Becky Bowen

Heermann's Gull—Virgin Creek Beach

June 20, 2017

Miscellaneous Watchlisted Shorebird Observations June, 2007-December, 2017
Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop-Combined

Source: SOS Data Sheets, SOS eBird Total Species, High Counts

Red Knot Total Sightings													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2007						0	0	7	4	0	0	0	11
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	2	2	2	0	0	0	6
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	1	1	7	0	0	0	9
2012	0	0	0	0	0	0	0	1	0	0	0	0	1
2013	0	0	0	0	0	0	0	0	1	0	0	0	1
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	2	3	1	0	0	1	0	0	7
2016	0	0	0	12	16	0	0	0	0	0	0	0	28
2017	0	0	0	0	0	0	4	0	0	0	0	0	4
Total Sightings													67

High Count on an SOS survey:
 10 Red Knots
 May 1, 2016
 Ten Mile Beach

Buff-breasted Sandpiper Total Sightings													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2007						0	0	8	15	0	0	0	23
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	1	0	0	0	0	1
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	2	0	0	0	2
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	1	0	0	0	0	1
2017	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Sightings													27

High Count on SOS surveys:
 2 Buff-breasted Sandpipers
 August 27, August 30, 2007
 and September 1, 2007
 Virgin Creek Beach

Semipalmated Sandpiper Total Sightings													
	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2007						0	1	0	0	0	0	0	1
2008	0	0	0	0	0	0	0	3	0	0	0	0	3
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	3	3	0	0	0	0	6
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	5	0	0	0	0	5
2014	0	0	0	0	0	0	0	0	1	0	0	0	1
2015	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Sightings													17

High Count on an SOS survey:
 1 Semipalmated Sandpiper
 on various dates:
 July, 2007 Ten Mile
 July, 2011 Virgin Creek
 August 2008, 2011, 2013,
 and 2017 Virgin Creek
 September 2014 Virgin
 Creek

Hudsonian Godwit Total Sightings													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2007							0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	2	4	0	0	0	6
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Sightings													6

High Count on an SOS survey:
3 Hudsonian Godwits
September 1, 2009 Virgin Creek

Wandering Tattler Total Sightings													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2007							5	10	0	0	0	0	15
2008	0	0	0	0	0	0	1	5	0	0	2	0	8
2009	0	0	0	0	0	0	7	3	1	0	0	0	11
2010	0	0	0	0	0	0	0	13	3	1	0	0	17
2011	0	0	0	0	0	0	3	4	3	0	0	0	10
2012	0	0	0	1	3	0	2	11	0	0	1	0	18
2013	0	0	0	0	1	0	2	3	0	0	0	0	6
2014	0	0	0	2	1	0	4	19	14	0	3	1	44
2015	5	0	0	2	4	0	12	24	37	3	0	0	87
2016	2	0	0	0	7	0	4	7	20	1	0	0	41
2017	0	0	0	0	1	0	7	14	15	1	1	1	40
Total Sightings													297

High Count on an SOS survey
5 Wandering Tattlers on 2 surveys:
September 10, 2015 Trestle Loop
September 15, 2015 Trestle Loop

Long-billed Curlew Total Sightings													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2007						0	2	0	2	0	0	0	4
2008	0	0	0	1	0	0	1	0	2	0	0	0	4
2009	0	0	0	0	7	0	4	35	0	0	0	0	46
2010	0	0	0	0	0	2	1	5	11	0	0	0	19
2011	0	0	0	0	0	0	0	0	1	0	0	0	1
2012	0	0	0	4	4	1	0	0	0	0	0	0	9
2013	0	0	0	0	2	0	0	8	17	8	0	0	35
2014	0	0	0	1	0	0	2	3	0	0	1	0	7
2015	0	0	0	4	5	0	3	8	1	0	0	0	21
2016	0	0	0	3	19	1	0	3	4	0	0	0	30
2017	0	0	0	3	6	1	0	6	4	0	0	0	20
Total Sightings													196

2 Highest Counts on an SOS survey:
23 Long-billed Curlews in flight
August 9, 2009 Virgin Creek Beach
(no photo available)

8 Long-billed Curlews
May 12, 2016 Ten Mile Beach

American Golden-Plover Total Sightings

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2007						0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	1	0	0	0	1
2013	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	4	0	0	4
2016	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Sightings													5

High Counts on SOS surveys:

1 American Golden-Plover
September 12, 2012 Virgin Creek Beach

1 American Golden-Plover
October 13 and October 27, 2015 Virgin Creek Beach

Rock Sandpiper Total Sightings

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2007						0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	2	1	5	0	0	0	0	0	0	0	0	0	8
2014	1	0	0	0	0	0	0	0	0	0	0	1	2
2015	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Sightings													11

High Count on one SOS survey:

2 Rock Sandpipers
January 11, 2013 and
March 29, 2013-Virgin Creek

Save Our Shorebirds Watchlisted Shorebirds Yearly Average 2007-2017

Glass Beach, Virgin Creek, Ten Mile Beach, Trestle Loop, Lighthouse Loop-Combined
Mackerricher State Park, Mendocino County, CA



Source: SOS Data Sheets, eBird Total Species Counts
Note: Trestle Loop and Lighthouse Loop added to SOS routes in 2014

	# Yearly Average W/L Shorebirds	# Watchlisted	
		Shorebird Sightings	Total # Surveys
2007	50.77	14,064	277
2008	44.76	10,009	279
2009	44.28	12,488	282
2010	38.39	8,139	212
2011	78.32	24,984	319
2012	55.90	16,100	288
2013	48.13	11,744	244
2014	58.58	20,211	345
2015	50.39	18,292	363
2016	72.33	19,963	276
2017	53.25	15,763	296
Total	53.99	171,757	3181



This report is Dedicated to the Memory
Of Jim Boyer
Save Our Shorebirds Surveyor 2008-2016