



# Laguna San Ignacio Ecosystem Science Program

A Project of the Ocean Foundation in Baja California Sur, Mexico

## 2006-2019 Gray Whale Abundance Surveys in Laguna San Ignacio, Baja California Sur, Mexico

Table 1. Counts of total adult gray whales (single males and females and females with calves) observed during abundance surveys from 2006 to 2019.

Figure 1. Numbers of total adult whales (adult males, females, and females with calves) counted in Laguna San Ignacio during the winter seasons: 2006-2019.

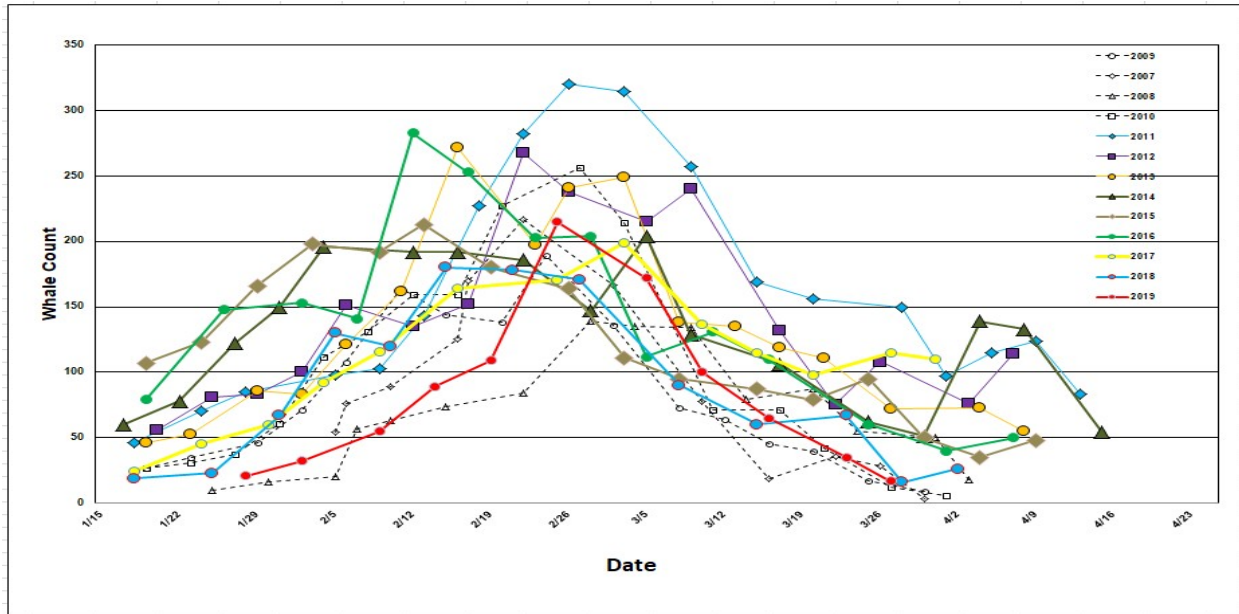
Table 2. Counts of single gray whales (single males and females without calves) observed during abundance surveys from 2006 to 2019.

Figure 2. Numbers of single whales (single males and females without calves) counted in Laguna San Ignacio during the winter seasons: 2006-2019.

Table 3. Counts of gray whale female-calf pairs (female with calves of the year) observed during abundance surveys from 2006 to 2019.

Figure 3. Numbers of female-calf pairs (females with calves of the year) counted in Laguna San Ignacio during the winter seasons: 2006-2019.

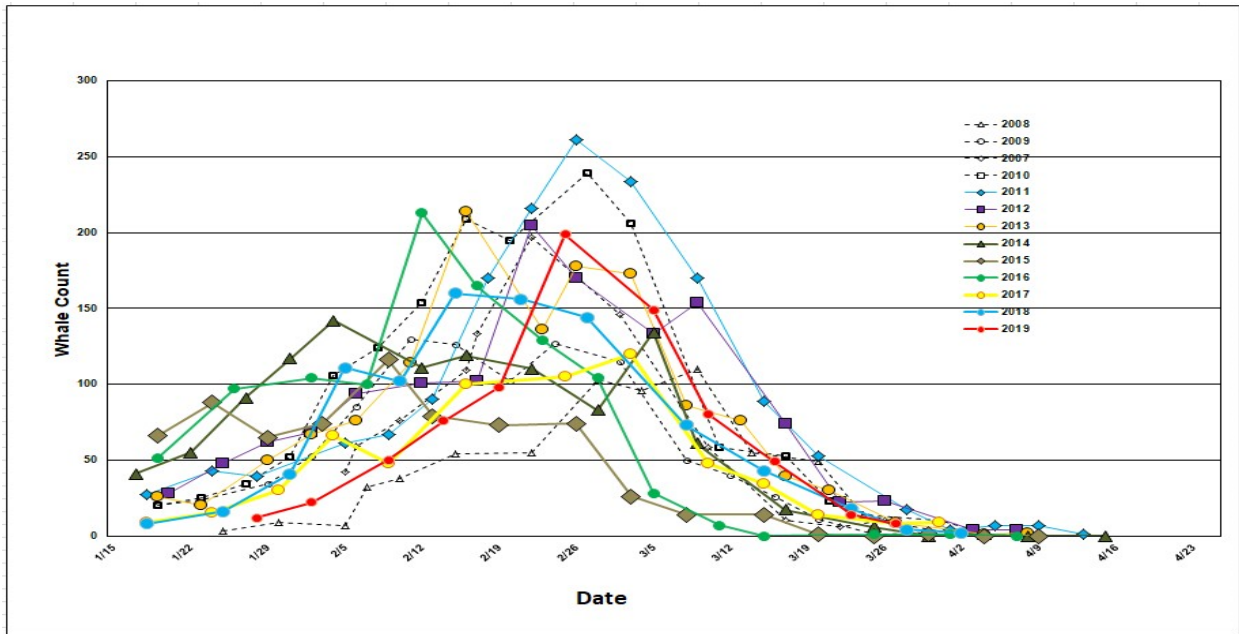
Figure. 1. Numbers of total adult whales (Adult males, females, and females with calves) counted in Laguna San Ignacio during the winter seasons: 2006-2019.



SAN IGNACIO LAGOON DATA BASE: 2006-2019														
TOTAL ADULTS / ADULTOS														
STUDY DAY														
YEAR	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
DATE														
15-Jan														
16-Jan														
17-Jan									60					
18-Jan						46						24	19	
19-Jan				27	27			46		107	79			
20-Jan							56							
21-Jan														
22-Jan									78					
23-Jan				35	31			53						
24-Jan						70				123		45		
25-Jan			10				81						23	
26-Jan											148			
27-Jan					37				122					
28-Jan						85								21
29-Jan				46			83	86		166				
30-Jan			16									60		
31-Jan					61				150				67	
1-Feb														
2-Feb				71			100	83			153			32
3-Feb										198				
4-Feb					112				196			92		
5-Feb	54	54	20			98							130	
6-Feb		76		108			151	121						
7-Feb			57								141			
8-Feb					131									
9-Feb						103				192		116		55
10-Feb	69	89	63										120	
11-Feb				164				162						
12-Feb					159		135		192		283			
13-Feb						143				213				
14-Feb														89
15-Feb	142		74	144									180	
16-Feb		125			159			272	192			164		
17-Feb		170					152				253			
18-Feb						227								
19-Feb										180				109
20-Feb				138	227									
21-Feb	151												178	
22-Feb		217	84			282	268		186					
23-Feb								197			203			
24-Feb				189										
25-Feb												171		216
26-Feb						320	238	241		164				
27-Feb					256								171	
28-Feb			139						147		204			
1-Mar														
2-Mar		167		136										
3-Mar					214	315		249		111		199		
4-Mar			135											
5-Mar							215		204		112			172
6-Mar														
7-Mar														
8-Mar				73				138		95			90	
9-Mar			134			257	240		129					
10-Mar		78										137		100
11-Mar					71						131			
12-Mar				64										
13-Mar								135						
14-Mar			79											
15-Mar						169				87		115	60	
16-Mar		19		45							110			61
17-Mar					71		132	119	106					
18-Mar														
19-Mar														
20-Mar			87	40		156				79		98		
21-Mar					42			111						
22-Mar		36					75							
23-Mar													67	35
24-Mar			55											
25-Mar				17					62	95	60			
26-Mar		28					108							
27-Mar					12			72				115		17

YEAR	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
28-Mar						150							16	
29-Mar														
30-Mar		3		9					51	50				
31-Mar			50									110		
1-Apr					6	97					40			
2-Apr													26	
3-Apr			18				76							
4-Apr								73	139	35				
5-Apr						115								
6-Apr														
7-Apr							114				50			
8-Apr								55	133					
9-Apr						124				48				
10-Apr														
11-Apr														
12-Apr														
13-Apr						83								
14-Apr														
15-Apr									54					
TOTAL SURVEYS	4	12	14	16	15	17	16	17	16	16	14	13	13	11

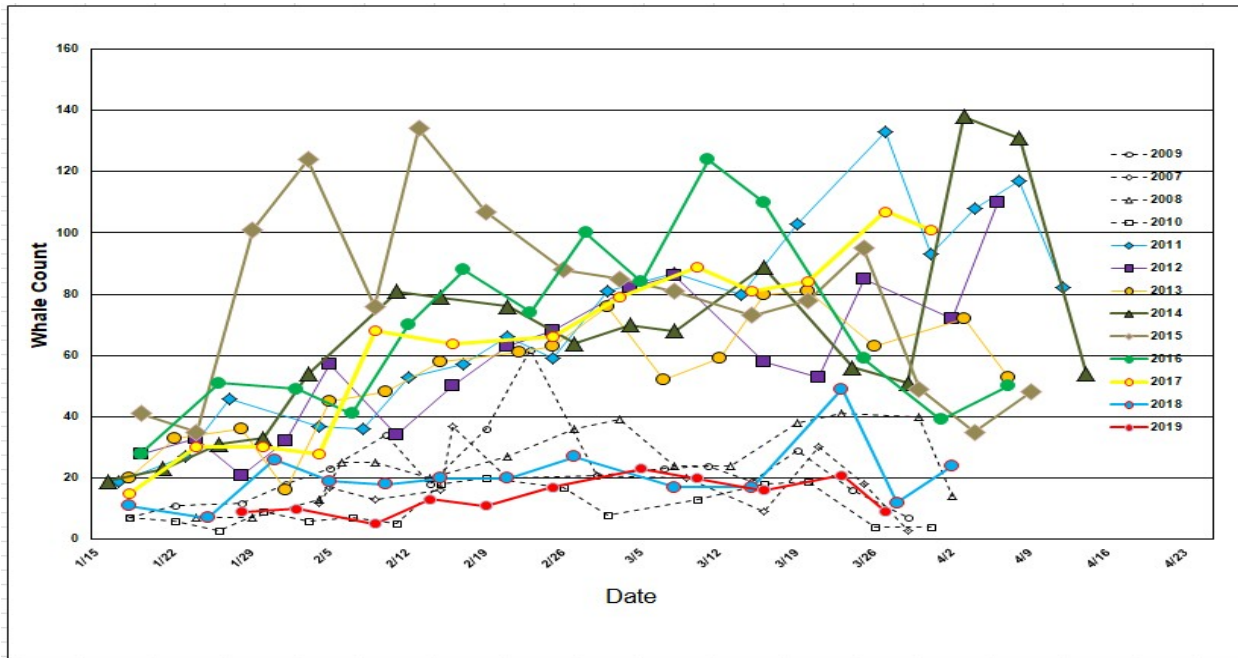
Figure. 2. Numbers of single whales (adult males and females without calves) counted in Laguna San Ignacio during the winter seasons: 2006-2019.





YEAR	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
29-Mar														
30-Mar		0		2					0	1				
31-Mar			10									9		
1-Apr					2	4					1			
2-Apr													2	
3-Apr			4				4							
4-Apr								1	1	0				
5-Apr						7								
6-Apr														
7-Apr							4				0			
8-Apr								2	0					
9-Apr						7				0				
10-Apr														
11-Apr														
12-Apr														
13-Apr						1								
14-Apr														
15-Apr									0					
TOTAL SURVEYS	4	12	14	16	15	17	16	17	16	16	14	13	13	11

Figure. 3. Numbers of female-calf pairs (females with calves of the year) counted in Laguna San Ignacio during the winter seasons: 2006-2019.





SAN IGNACIO LAGOON DATA BASE: 2006-2018

MOTHER & CALF PAIRS / Men Cs

YEAR	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
DATE														
15-Jan														
16-Jan														
17-Jan									19					
18-Jan						19						15	11	
19-Jan				7	7			20		41	28			
20-Jan							28							
21-Jan														
22-Jan									23					
23-Jan				11	6			33						
24-Jan						27				35		30		
25-Jan			7				33						7	
26-Jan											51			
27-Jan					3				31					
28-Jan						46								9
29-Jan				12			21	36		101				
30-Jan			7									30		
31-Jan					9				33				26	
1-Feb														
2-Feb				18			32	16			49			10
3-Feb										124				
4-Feb					6				54			28		
5-Feb	25	12	13			37							19	
6-Feb		17		23			57	45						
7-Feb			25								41			
8-Feb					7									
9-Feb						36				76		68		5
10-Feb	26	13	25										18	
11-Feb				34				48						
12-Feb					5		34		81		70			
13-Feb						53				134				
14-Feb														13
15-Feb	45		20	18									20	
16-Feb		16			18			58	79			64		
17-Feb		37					50				88			
18-Feb						57								
19-Feb										107				11
20-Feb				36	20									
21-Feb	43												20	
22-Feb		20	27			66	63		76					
23-Feb								61			74			
24-Feb				62										
25-Feb												66		17
26-Feb						59	68	63		88				
27-Feb					17								27	
28-Feb			36						64		100			
1-Mar														
2-Mar		21		21										
3-Mar					8	81		76		85		79		
4-Mar			39											
5-Mar							82		70		84			23
6-Mar														
7-Mar														
8-Mar				23				52		81			17	
9-Mar			24			87	86		68					
10-Mar		20										89		20
11-Mar					13						124			
12-Mar				24										
13-Mar								59						
14-Mar			24											
15-Mar						80				73		81	17	
16-Mar				19							110			15
17-Mar		9			18		58	80	89					
18-Mar														
19-Mar														
20-Mar			38	29		103				78		84		
21-Mar					19			81						
22-Mar		30					53							
23-Mar													49	21
24-Mar			41											
25-Mar				16					56	95	59			
26-Mar		18					85							
27-Mar					4			63				107		9

YEAR	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
28-Mar						133							12	
29-Mar														
30-Mar		3		7					51	49				
31-Mar			40									101		
1-Apr					4	93					39			
2-Apr													24	
3-Apr			14				72							
4-Apr								72	138	35				
5-Apr						108								
6-Apr														
7-Apr							110				50			
8-Apr								53						
9-Apr						117			131	48				
10-Apr														
11-Apr														
12-Apr														
13-Apr						82								
14-Apr														
15-Apr									54					
TOTAL SURVEYS	4	12	14	16	15	17	16	17	16	16	14	13	13	11