CORRECTED AS OF 2:10 p.m. 7/8/2014

City of Sanibel **MEMORANDUM**

DATE: July 8, 2014

TO: Judie Zimomra, City Manager

FROM: Kenny DiBiase, City Administrative Intern

RE: Reported Bicycle and Pedestrian Accidents 2013-2014 *

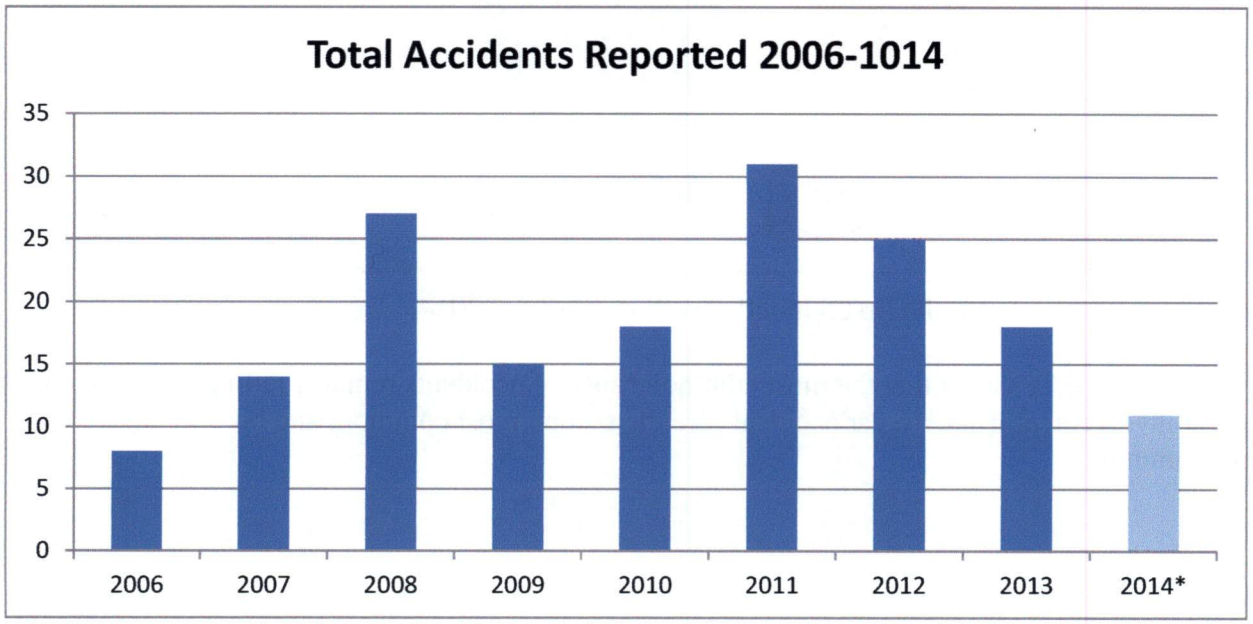
Bicycle Accidents on Shared Use Path:

For the third consecutive year, the City of Sanibel has analyzed all reported bicycle incidents. In 2012, a report was compiled and updated in 2013 by the City of Sanibel chronicling reported bicycle and pedestrian accidents along the community Shared Use Path. The Sanibel Police reports were read through and raw data was converted into a presentation describing the total incident volume, incident type, locations of incidents, ages, residency, injuries, and dates of involved parties were analyzed to differentiate between the various accidents. The purpose of this memo is to update the 2013 report.

Total reported incidents by year:

The graph below represents the total reported bicycle accidents by year for the past eight years.

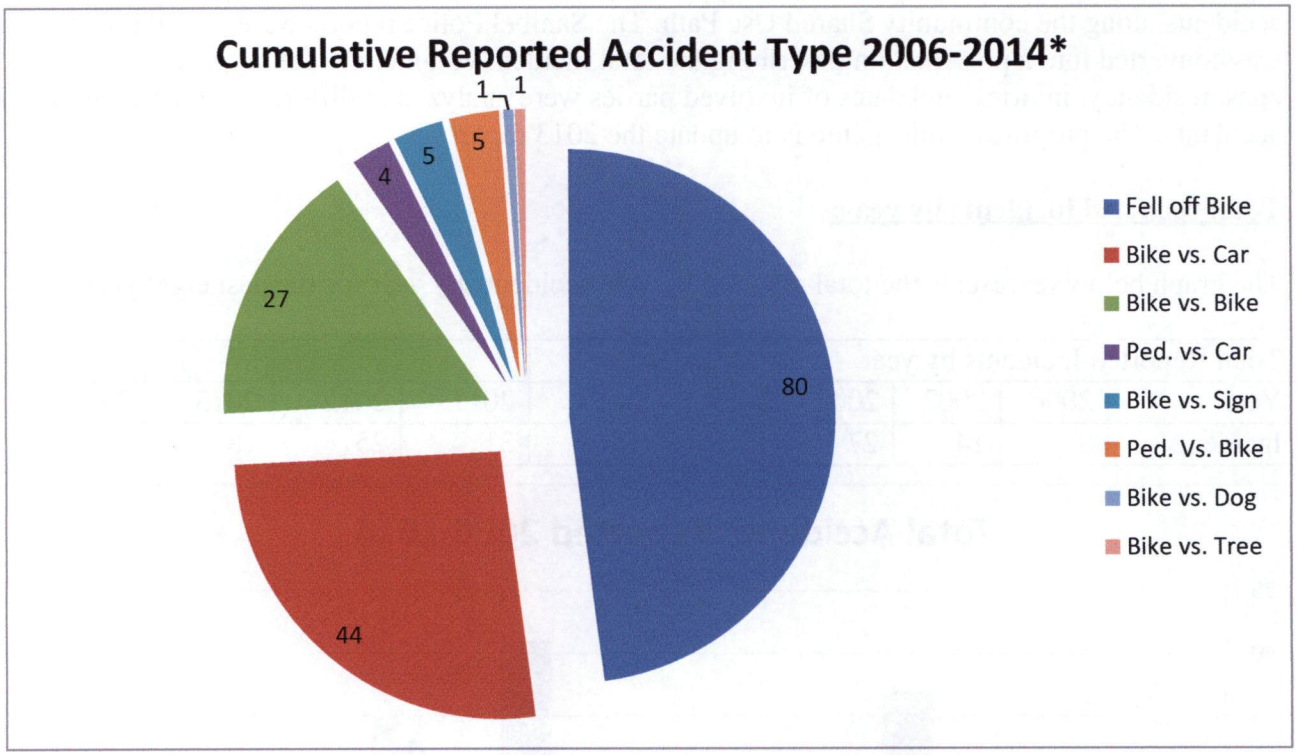
Total Reported Incidents by year									
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014*
Incidents	8	14	27	15	18	31	25	18	11



*2014 represents data for the first 5 months, ending April 25, 2014

Type of Incident by Year:

Incident Type	Fell off Bike	Bike vs. Car	Bike vs. Bike	Ped. vs. Car	Bike vs. Sign	Ped. Vs. Bike	Bike vs. Dog	Bike vs. Tree	Total Per Year
2006	5	2	1	0	0	0	0	0	8
2007	8	4	2	0	0	0	0	0	14
2008	19	6	1	1	0	0	0	0	27
2009	5	5	2	1	1	1	0	0	15
2010	5	5	3	1	2	1	0	1	18
2011	12	11	5	1	1	0	1	0	31
2012	12	5	5	0	1	2	0	0	25
2013	9	4	3	0	1	1	0	0	18
2014*	5	2	4	0	0	0	0	0	11
Incident Total By Year	80	44	27	4	5	5	1	1	167



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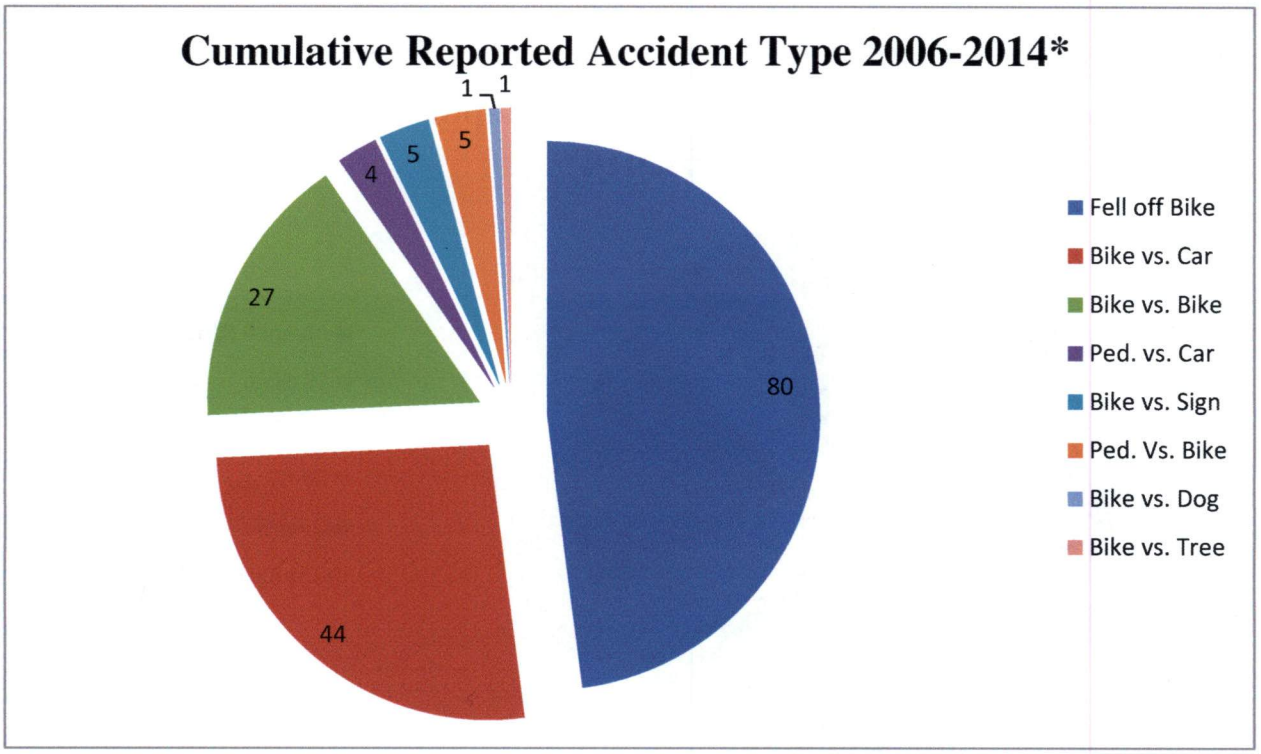
The additional data shows that the most common cause of accidents remains falling off of bike with no vehicle involvement. Bike vs. car accidents are the second most common, and bike vs. bike are the third most common.

Location of Reported Incidents by Year:

Locations of Reported Incidents				
Locations of Reported Incidents by Year	Shared Use Path	Intersections	Parking Lots	Out of Jurisdiction
2006	6	0	2	0
2007	9	2	3	0
2008	19	5	3	0
2009	10	3	2	0
2010	14	3	1	0
2011	23	4	4	0
2012	25	0	0	0
2013	13	3	1	1
2014*	11	0	0	0
Total	**130**	**20**	**16**	**1**



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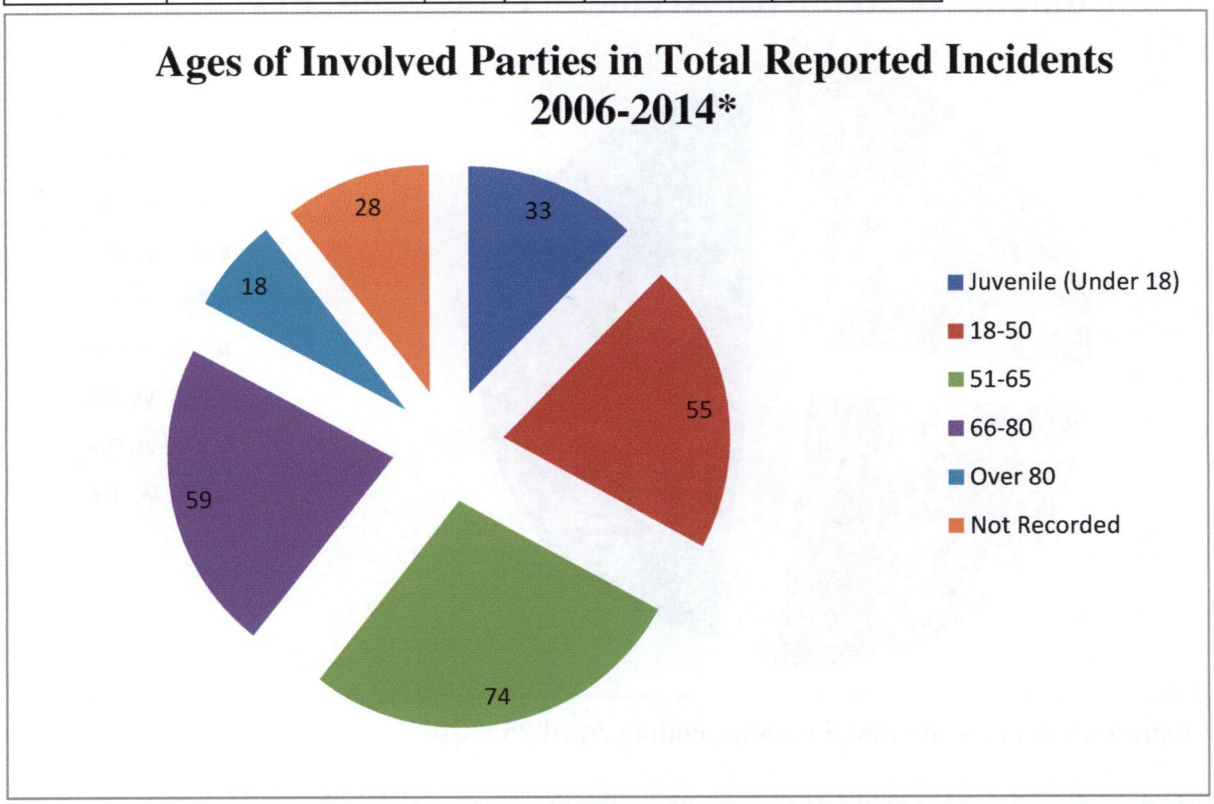
The majority of the bicycle accidents that occur on Sanibel occur on the Shared Use Path. The most frequent cause of accidents being falling off a bike. The Shared Use Path is where the majority of bike traffic occurs and naturally represents the highest area of concentration for accidents.

Ages of Involved Parties in Total Reported Incidents by Year:

Ages of Involved Parties in Total Reported Incidents Annually						
Ages Range:	Juvenile (Under 18)	18-50	51-65	66-80	Over 80	Not Recorded
2006	0	6	1	0	0	4
2007	3	3	7	6	0	3
2008	3	9	11	6	1	5
2009	2	5	7	5	3	3
2010	3	6	11	4	3	3
2011	2	7	18	13	3	5
2012	5	7	9	9	3	2
2013	3	5	3	11	1	2
2014*	12	6	7	5	4	1
Total:	**33**	**55**	**74**	**59**	**18**	**28**



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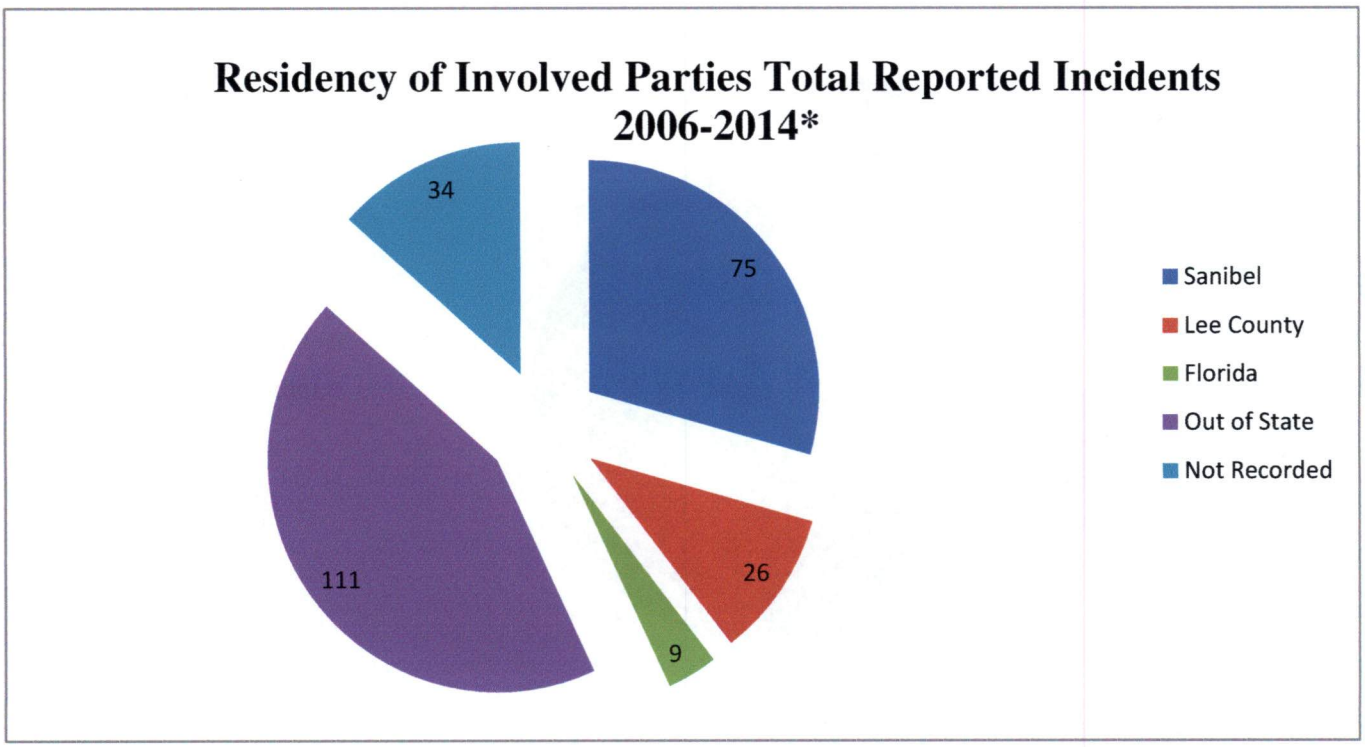
The ages of the involved parties in accidents varies greatly and a somewhat equal distribution was present in the data. However, the largest group affected was those over the age of 50 and specifically between the ages of 51 and 65. Historically, this age group has consistently been the most affected.

Residency of Involved Parties in Total Reported Incidents Annually:

Residency of Involved Parties in Total Reported Incidents Annually:					
Residency	Sanibel	Lee County	Florida	Out of State	Not Recorded
2006	3	2	1	0	5
2007	9	1	0	10	2
2008	19	3	2	15	5
2009	7	2	0	15	1
2010	7	3	0	11	9
2011	13	8	1	19	7
2012	10	5	3	16	2
2013	9	1	2	11	2
2014*	7	1	0	14	1
Total:	**75**	**26**	**9**	**111**	**34**



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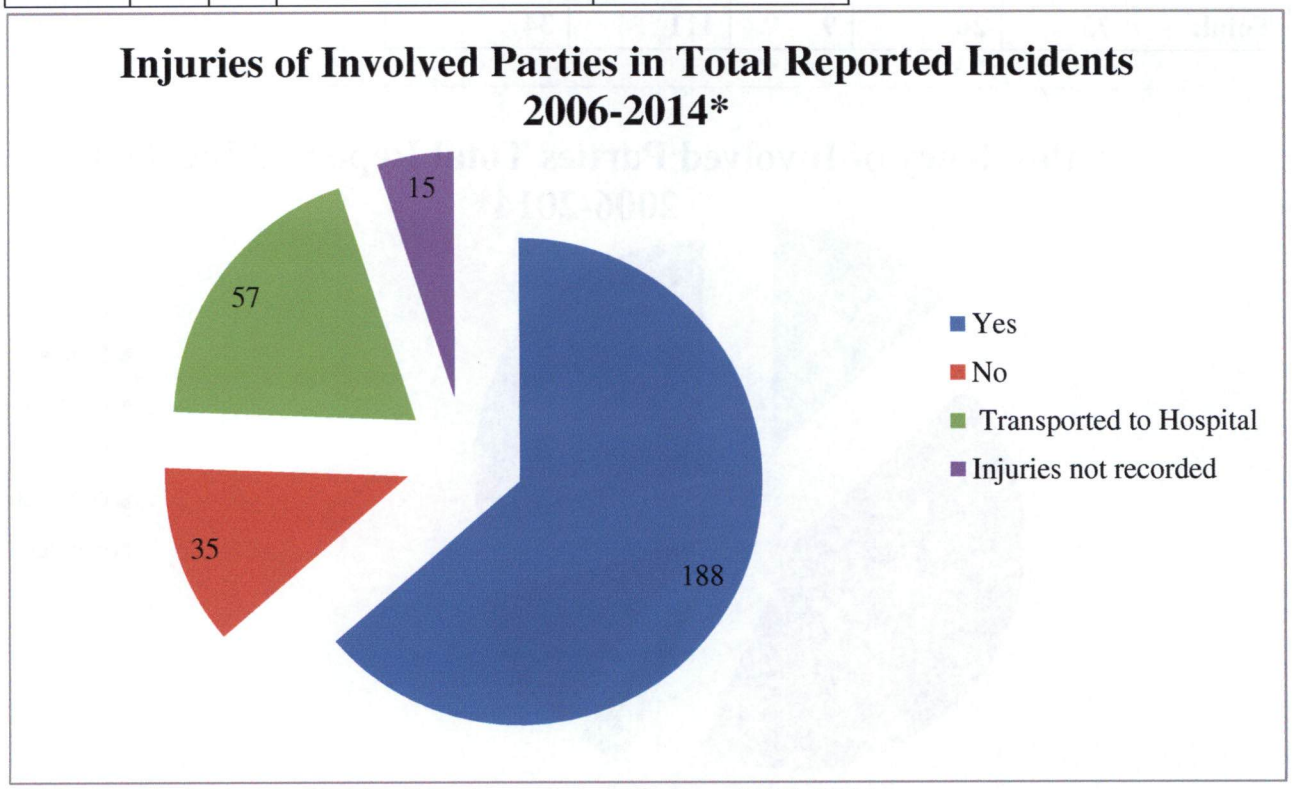
The two most frequent types of users of the Shard Use Paths are Sanibel residents and out of state visitors.

Injuries of Involved Parties in Total Reported Incidents Annually:

Injuries of Involved Parties in Total Reported Incidents				
Injuries	Yes	No	Transported to Hospital	Injuries not recorded
2006	7	1	2	0
2007	9	1	3	4
2008	18	6	7	3
2009	10	3	6	2
2010	12	5	5	1
2011	20	7	12	4
2012	20	5	7	0
2013	12	6	10	0
2014	10	1	5	1
Total:	**188**	**35**	**57**	**15**



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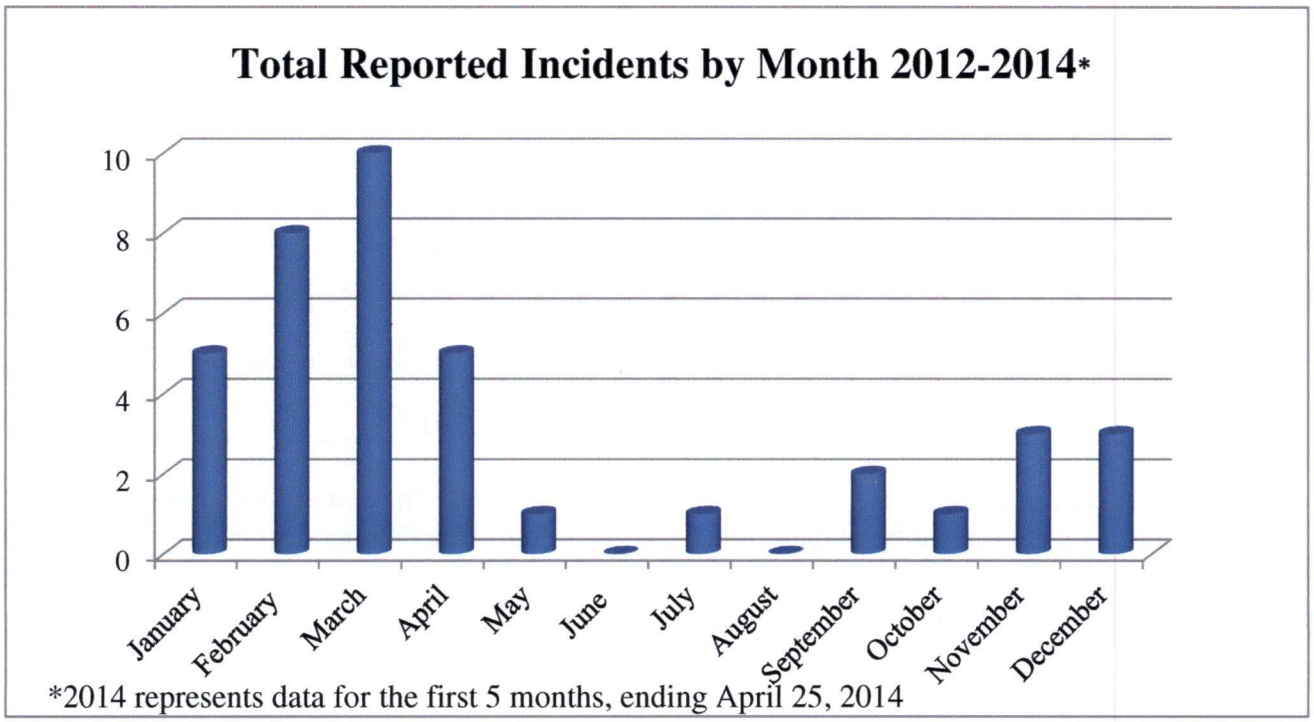
Of the instances resulting in injuries, half of the injuries were minor and half required medical transport. Most injuries resulted in minor abrasions and lacerations, but several last year resulted in minor concussions.

Dates of Reported Incidents by Month 2012-2014*

Total Reported Incidents by Month												
	Jan	Feb	Mar	Apri	May	June	July	Aug	Sept	Oct	Nov	Dec
2012	0	0	0	1	0	0	1	0	2	0	3	3
2013	3	7	4	2	1	0	0	0	0	1	0	0
2014*	2	1	6	2	0	0	0	0	0	0	0	0
Total:	**5**	**8**	**10**	**5**	**1**	**0**	**1**	**0**	**2**	**1**	**3**	**3**



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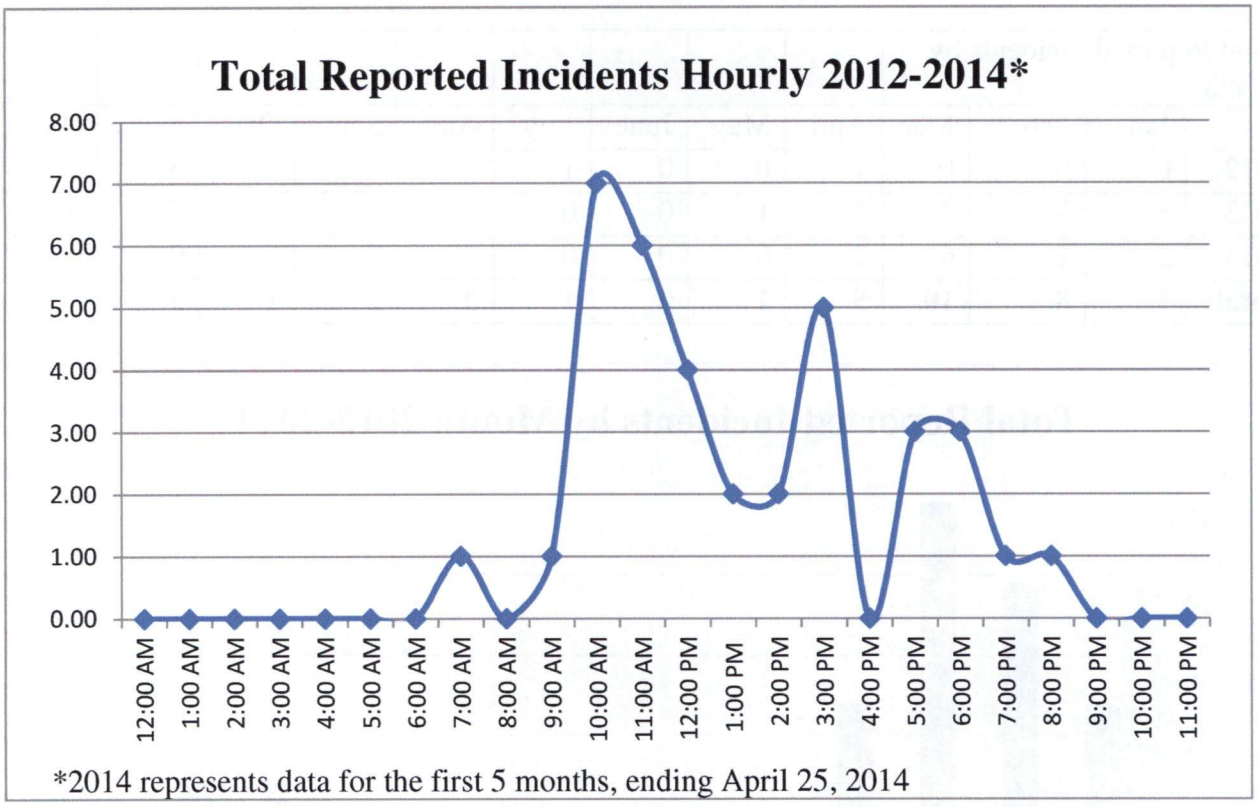
The majority of accidents occurred in the cooler months which coincides with peak usage of the Shared Use Paths. Also, with many residents only spending half of the year on the Island, many more are here in the first three months and then spend the winter months up north.

Times of Reported Incidents Hourly 2012-2014*:



Most accidents occurred during the day from the end of rush hour to the end of lunch hour. In the tenth hour of the day, the accident rates were at their highest. After 10 p.m., the number declined until approximately 3 p.m. where it spiked again. After 3 p.m., the amount of accidents declined and then spiked at 6 p.m. again. After 6 p.m., the number continued to decline.

Number of Tickets Issued in Result of Accidents:

Tickets Issued for Reported Incidents 2006-2014*	
Year:	Number of Tickets Issued
2006	0
2007	1
2008	4
2009	3
2010	4
2011	4
2012	0
2013	3
2014	1
Total:	**19**

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Changes Made to Shared Use Paths Since 2013

Location	Roots/Cracks	Asphalt Resurfaced	Replaced signs/messages
E. Gulf Drive	4	4	1
Donax St	6	6	0
Middle Gulf Dr	6	10	1
Periwinkle- Lindgren to Tarpon Bay	9	9	2
Palm Ridge Rd	1	1	0
Dixie Beach Blvd.	1	1	0
Periwinkle- Lindgren to Lighthouse	1	9	10
Casa Ybel Rd	4	6	1
San-Cap Rd	11	11	0
W Gulf Dr- Tarpon Bay to Rabbit Rd	7	13	1
Total:	**50**	**70**	**16**

Conclusions:

After examining Police reports and analyzing the data, bicyle accidents have increased. The total accidents from 2006 to 2014 are 167. The data from 2011 to 2013 continues a downward trend. Looking at the total cumulative report of bicycle accidents on the island since 2006, while there have been spikes in the accident frequency in 2008 and 2011, those spikes are becoming closer to the average amount, and accidents are slowly decreasing.

Over the past two years, the City of Sanibel has completed the following safety enhancements to the Shared Use Path system:

- East Periwinkle SUP widening completed in November 2013. Widened from 6' to 10' from Kings Crown to Lighthouse Beach parking lot.
- Dixie Beach SUP extension from Albatross Rd to Royal Poinciana Dr. (8' wide) completed in November of 2012.
- Bailey Road SUP extension from Periwinkle to just south of Bay Dr. (8' wide) completed in November of 2012.

Its recommended that this data continue to be analyzed annually and shared with the community.

Police Report Analysis

The very first Police report, starting on April 4, 2012, that involved the Shared Use Path involved not an accident, but a complaint that "SIGN WARNING VEHICLES OF BIKES IS DOWN." The Report States "WILL PUT IN CORRECTION REPORT FROR DPW-OFC- FELICIANO."

Location: 2075, PERIWINKLE WAY
Correction report form sent to DPW for repair on 4/4/12

2012

Location of Accident	Date:	Incident Type:	Place:
Shared Use Path	4/4- 4:46 p.m	Bike vs. Ped	671, E GULF DR
Shared Use Path	7/30- 2:24 p.m	Fell off Bike	3325, W GULF DR
Shared Use Path	9/6- 7:01 a.m	Fell off Bike	SANIBEL CAPTIVA RD/MM 3.0
Shared Use Path	9/30- 3:22 p.m	Bike vs. Bike	SANIBEL CAP RD/GULF PINES DR
Shared Use Path	11/17- 9:40 a.m	Bike vs. Skate	1539, PERIWINKLE WAY
Shared Use Path	11/21- 2:51 p.m	Bike vs. Bike	SAN-CAP / TARPON BAY
Shared Use Path	11/24- 11:11 a.m	Bike vs. Bike	701, OPRE AVE #E SECTOR
Shared Use Path	12/2- 9:52 a.m	Fell off Bike	DIXIE BEACH (See report for full location)
Shared Use Path	12/22- 5:44 p.m	Fell off Skates	1676, M GULF DR
Shared Use Path	12/26- 11:43 a.m	Fell off Bike	PERIWINKLE WAY/MARTHA
	10 accidents total		

2013

Location of Accident	Date:	Incident Type:	Place:
Shared Use Path	1/26- 10:57 a.m	Fell off Bike	PERIWINKLE WAY/TULIP LN
Intersection	1/28- 10:48 a.m	Car vs. Bike	2163, PERIWINKLE WAY
Shared Use Path	1/29- 10:33 a.m	Fell off Bike	1451, MIDDLE GULF DR
Shared Use Path	2/4- 6:17 p.m	Bike vs. Bike	3840, SANIBEL CAPTIVA RD
Shared Use Path	2/16- 11:24 a.m	Fell off Bike	909, DIXIE BEACH BLVD
Shared Use Path	2/17- 3:16 p.m	Fell off Bike	BOWMANS / SAN-CAP
Shared Use Path	2/18- 12:14 p.m	Fell off Bike	1700, PERIWINKLE WAY
Shared Use Path	2/20- 10:34 a.m	Car vs. Bike	1201,PERIWINKLE WAY
Shared Use Path	2/20- 10:44 a.m	Fell off Bike	CASA YBEL / ALGEIRS
Shared Use Path	2/21- 12:17 p.m	Fell off Bike	1, WILDLIFE DR
Shared Use Path	3/10- 10:21 a.m	Bike vs. Bike	5050, SANIBEL CAPTIVA RD
Intersection	3/12- 3:44 p.m	Fell off Bike	2255, WEST GULF DR
Shared Use Path	3/17- 10:57 a.m	Bike vs. Bike	2173 PERIWINKLE WAY
Shared Use Path	3/17- 8:15 p.m	Bike vs. Bike	CITY PARK
Intersection	4/3- 5:04 p.m	Car vs. Bike	1451, MIDDLE GULF DR
Shared Use Path	4/28- 6:59 p.m	Fell off Bike	1451, MIDDLE GULF DR
Off Jursidiction	5/24- 3:04 p.m	Car vs. Bike	3445 SANIBEL-CAPTIVA RD
	17 accidents total		

2014

Location of Accident	Dates:	Incident Type:	Place:
Shared Use path	4/25-11:15am	Fell off Bike	SAN-CAP RD
Shared Use path	4/21-12:38pm.	Fell off Bike	MIDDLE GULF DR
Shared Use path	3/30-1:37pm	Fell off Bike	SAN-CAP RD
Shared Use Path	3/23-6:08pm	Fell off Bike	PERIWINKLE WAY/ LINDGREN
Shared Use Path	3/15-11:17am	Bike vs. bike	DIXIE BEACH/PERIWINKLW WAY
Shared Use Path	3/12-1:16pm	Fell off Bike	PERIWINKLE WAY/ PENSHELL
Intersection	3/7-3:06pm	Car vs. Bike	1157 PERIWINKLE WAY
Shared Use Path	3/1-12:52pm	Fell off Bike	PERIWINKLE WAY
Shared Use Path	2/18-3:41pm	Fell off Bike	PERIWINKLE WAY
Shared Use Path	1/23-7:18pm	Fell off Scooter	1975, PERIWINKLE WAY
Intersection	1/13-11:04am	Car vs. Bike	1699, PERIWINKLE WAY

Age:	Place of Residence:	Citations:	Injuries:
2012			
54,82	Out of state, Sanibel	None	No
30	Out of state	None	Yes, transported to the hospital
63	Lee County	None	Yes, not transported
54,71	Sanibel, Lee County	None	No
47,14	Florida, Sanibel	None	Yes, transported to the hospital
11,46	Out of state	None	Yes, transported to the hospital
56	Florida	None	Yes, not transported
66	Sanibel	None	Yes, transported to the hospital
43	Out of state	None	Yes, transported to the hospital
16	Out of state	None	No

2013

79	Sanibel	None	Yes transported to the hospital
78,20	Sanibel, Out of state	None	No
85	Sanibel	None	Yes, not transported
37	Sanibel	None	Yes, transported to the hospital
72	Out of state	None	Yes, transported to the hospital
54	Out of state	None	No
NR	NR	None	No
47,15	Florida, out of state	One	No
66	Out of state	None	Yes, transported to the hospital
74	Florida	None	Yes, not transported
68,15	Sanibel, out of state	None	Yes, transported to the hospital
77	Sanibel	None	Yes, transported to the hospital
55,72	Out of state	None	No
35,70	Sanibel, Lee county	One	Yes, transported to the hospital
43,11	Out of state, Sanibel	One	Yes, transported to the hospital
56	Sanibel	None	Yes, transported to the hospital
NR	NR	None	NR

2014

64, 74	Out of state	None	Yes, transported to the hospital
16,48	Out of state	None	Yes, not transported
70	Lee County	None	Yes, transported to the hospital
6, 46	Out of State	None	Yes, not transported
61,80	Sanibel	None	No
99,78	NR,Out of State	None	NR
60,18,56,67,65,	Out of state, Sanibel	One	Yes, not transported
68	Sanibel	None	Yes, transported to the hospital
41,47	Out of state	None	Yes, transported to the hospital
62,42	Sanibel	None	Yes, transported to the hospital
82,56	NR	None	Yes, transported to the hospital