

QUIETER HOME PROGRAM

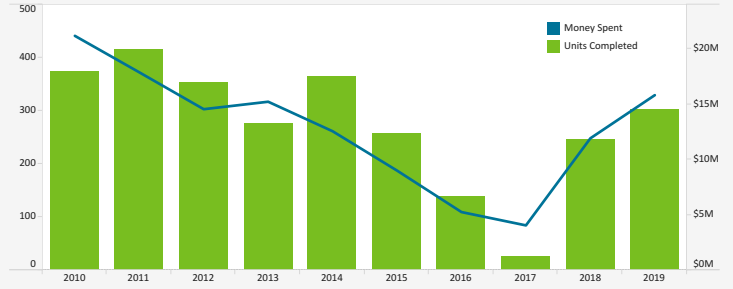


Quieter Home Program As Of: 9/30/2019

Status of Homes	
Homes on Wait List as of 9/30/19	1,370
Homes Added to Wait List - August	10
Homes Added to Wait List - September	11
Homes Completed in August	31
Homes Completed in September	42
Estimated Homes to Complete in CY 2019	400
Total Homes Completed (through 9/30/19)	4,043

Project	Estimated Construction Start	# Homes
9.1	Underway	42
9.11	Fall 2019	46
9.12	Underway	32
9.9	Underway	125
10.1	Winter 2019	55
10.2	Spring 2020	63
10.3	Summer 2020	10
10.4	Fall 2020	57
10.5	Fall 2020	15
10.6	Winter 2020	42
10.7	Winter 2020	56

From 2001-2009 \$89.8 Million was spent to complete 1,291 homes.



Post-Construction Homeowner Survey Results

Overall Experience

Excellent	Satisfied	Unsatisfied
74%	23%	3%

Effectiveness

Question	Answer	Percentage
Effectiveness of Doors	Significant Improvement	81%
	Slight Improvement	14%
	No Improvement	4%
	Not Installed	0%
Effectiveness of Ventilation	Significant Improvement	75%
	Slight Improvement	13%
	No Improvement	9%
	Not Installed	3%
Effectiveness of Windows	Significant Improvement	86%
	Slight Improvement	12%
	No Improvement	2%
	Not Installed	0%

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CURFEW VIOLATIONS



Noise Curfew Violations: Any aircraft that departs after 11:30 p.m. and before 6:30 a.m. is subject to a penalty.

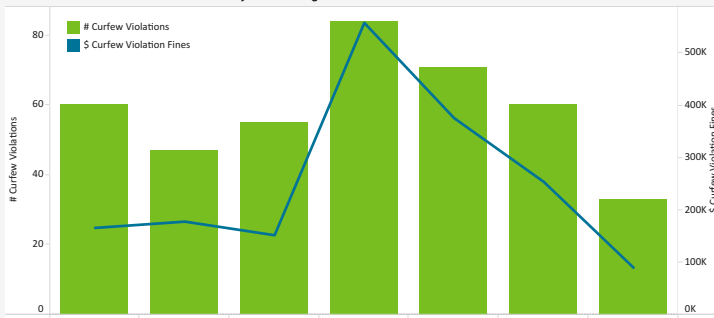
Curfew Violations (Aug - Sep 2019)

Date	Time	Airline	Aircraft Type	Penalty Status
08/04/19	01:02 AM	TVPX Aircraft Solutions	CL60	FINED - \$2,000
08/12/19	11:42 PM	Allegiant Air	A319	Not Fined
08/14/19	12:36 AM	N7670M	C175	Pending Review
08/15/19	03:05 AM	jetBlue Airways	A320	FINED - \$4,000
08/16/19	12:33 AM	Frontier Airlines	A20N	FINED - \$6,000
08/19/19	12:52 AM	Delta Air Lines	B752	FINED - \$10,000
08/22/19	11:47 PM	Alaska Airlines	B739	Not Fined
09/03/19	12:58 AM	Delta Air Lines	B738	Pending Review
09/17/19	05:26 AM	SOCAL Jet Services	BE20	Pending Review

Annual Violations and Penalties Assessed Through 9/30/19

Year	Total Violations	Fines Assessed
2013	60	\$166,000
2014	47	\$178,000
2015	55	\$152,000
2016	84	\$558,000
2017	71	\$376,000
2018	60	\$254,000
2019	33	\$90,000

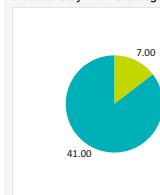
Curfew Violations and Penalties Assessed by Year Through 9/30/19



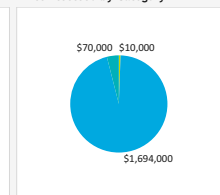
	2013	2014	2015	2016	2017	2018	2019
# Curfew Violations	60	47	55	84	71	60	33
\$ Curfew Violation Fines	\$166,000	\$178,000	\$152,000	\$558,000	\$376,000	\$254,000	\$90,000

Airline Category
 Air Cargo
 Air Carrier
 General Aviation

Violations by Airline Category



Fines Assessed by Category



Airline Category	# Curfew Violations	\$ Curfew Violation Fines
Air Cargo	7	\$10,000
Air Carrier	362	\$1,694,000
General Aviation	41	\$70,000

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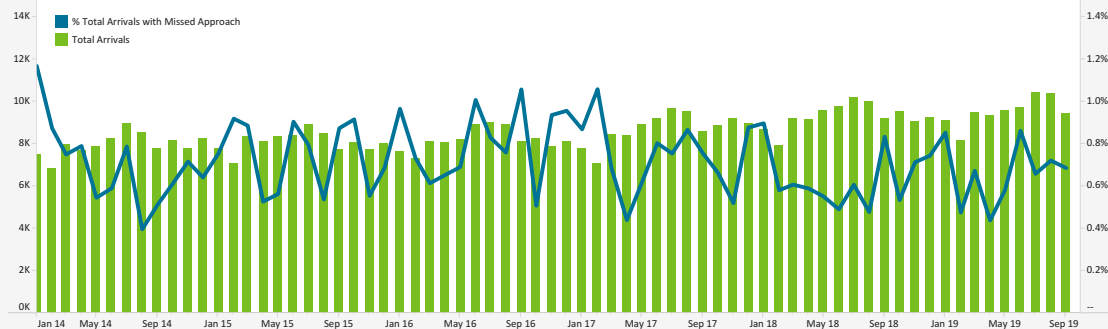
MISSSED APPROACH STATISTICS



Missed Approaches: A procedure to maintain safety, initiated by the pilot or Air Traffic Control (ATC) for a pilot to abandon the approach to landing.

Over the last 5 years, operations have increased by 17%, and Missed Approaches have increased by 3%.

Total Arrivals Compared to % of Missed Approaches



	2014	2015	2016	2017	2018	2019
% Total Arrivals with Missed Approach	0.7%	0.7%	0.8%	0.7%	0.6%	0.7%
Total Arrivals	95,794	97,096	98,756	104,725	111,615	85,771
Total Missed Approaches	700	760	832	795	721	588

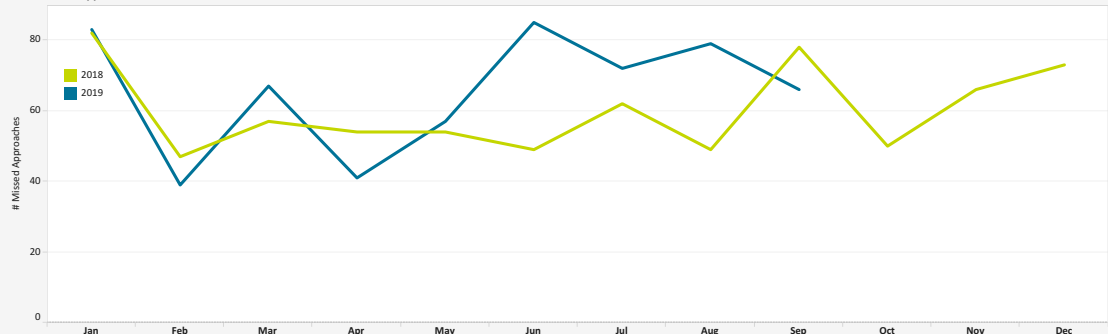
Are missed approaches safe? Yes. They are initiated by the pilot or air traffic controllers for a variety of reasons (weather/air traffic/runway closure) in order to maintain safety of flight.

Missed Approach Location Statistics

	Aug		Sep			Aug	Sep
	Day	Night	Day	Night			
Between Noise Dot #1 - Noise Dot #2	1	1	1	0	Between 265°-295° Heading (Standard)	50	45
Between Noise Dot #2 - JETTI	23	7	29	2	East of Airport	14	2
Between JETTI - Noise Dot #3	16	2	11	2	Left of 265°	12	11
Between Noise Dot #3 - Noise Dot #4	10	1	10	0	Right of 295°	3	4
Between Noise Dot #4 - Noise Dot #5	1	0	1	0			

Missed Approaches have increased by 14%, compared to 2018, as they now include arrivals that required more than one missed approach.

Total Missed Approaches



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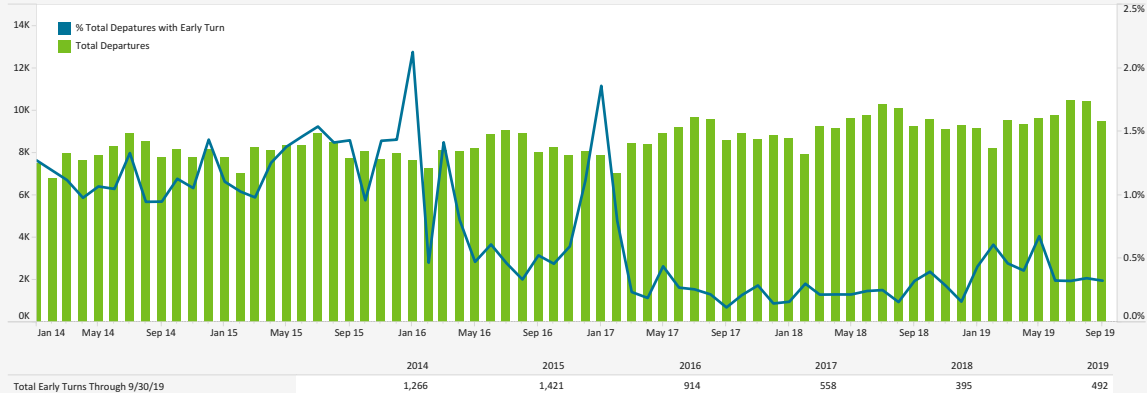
EARLY TURN STATISTICS



The Airport Authority has defined early turns as those aircraft that turn right prior to FAA Noise Dot #1 at the 295-degree heading or turn left prior to the FAA Noise Dot #3 at the 265-degree heading.

Over the last 5 years, Early Turns have decreased by 69%, as the use of NextGen navigation systems and flight procedures has increased.

Total Departures Compared to % of Early Turns

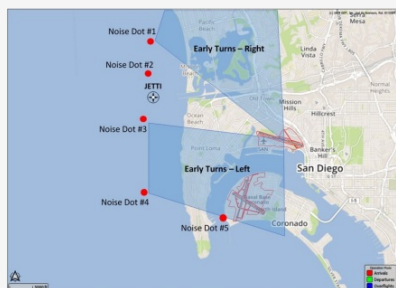


Departure Statistics

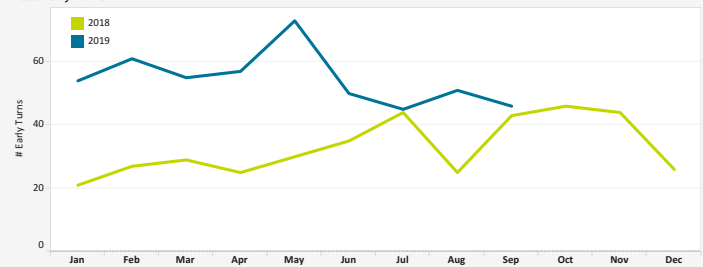
	Aug	Sep
Jets Turning Left	5,270	4,675
Between Z2000 & Noise Dots	650	621
Compliant with Nighttime Departure Heading (Z90°)	494	339
Not Nighttime Compliant: Straight Out	1	5
Not Nighttime Compliant: East	0	0
Not Nighttime Compliant: Over La Jolla	18	17

Cause of Early Turns Aug - Sep 2019

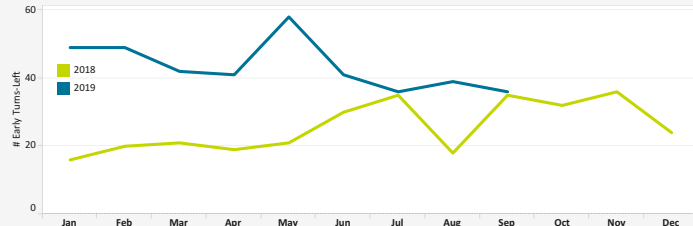
	Aug	Sep
# Caused by ATC Vectors	50	45
# Caused by Pilot Deviation	621	1
# Caused by Weather	0	0



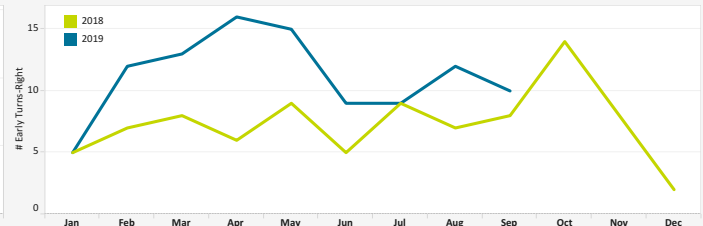
Total Early Turns



Over Point Loma



Over Mission Beach



Early Turns by Operator (Aug - Sep 2019)

Airline	Early Turns Over Point Loma	Total Operator Departures	% Departures with Early Turns Over Point Loma
Southwest Airlines	15	6,984	0.2%
General Aviation	8	1,561	0.5%
Delta Air Lines	7	1,599	0.4%
American Airlines	7	1,515	0.5%
United Airlines	5	1,774	0.3%
SkyWest Airlines	3	1,192	0.3%
Lufthansa	2	44	4.5%
jetBlue Airways	1	361	0.3%
Horizon Air	1	271	0.4%
Frontier Airlines	1	312	0.3%
FedEx Express	1	196	0.5%
Alaska Airlines	1	1,953	0.1%

Early Turn by Operator (Aug - Sep 2019)

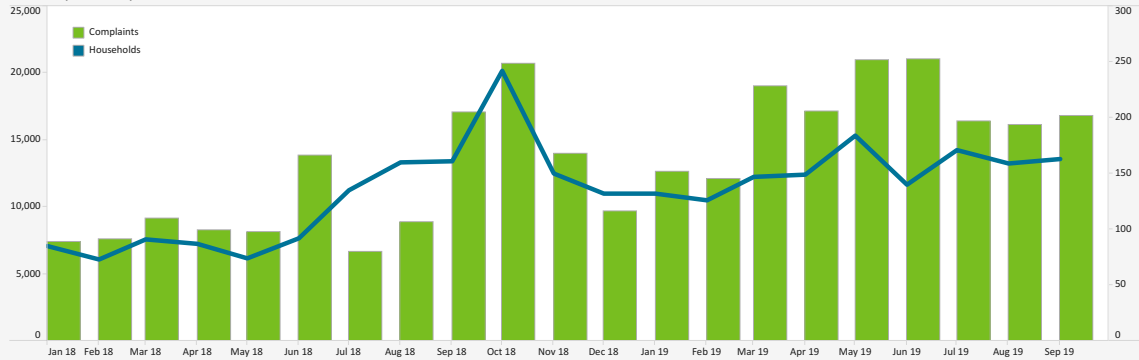
Airline	Early Turns Over Mission Beach	Total Operator Departures	% Departures with Early Turns Over Mission Beach
General Aviation	12	1,561	0.8%
American Airlines	2	1,515	0.1%
Air Canada Jazz	1	172	0.6%

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NOISE COMPLAINT STATISTICS

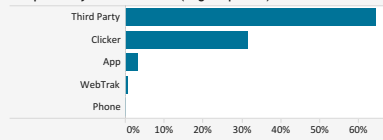


Total Complaints Compared to Total Households

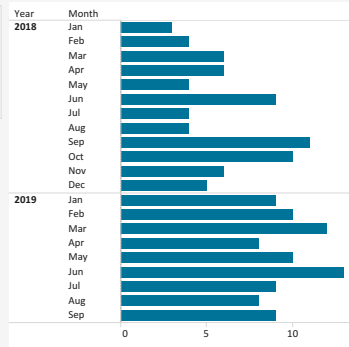


The past 2 months show 1% reduction in households, while noise complaints have consistently remained above 16,000 per month.

Complaints by Contact Method (Aug - Sep 2019)



Number of Households with 500+ Complaints in Month

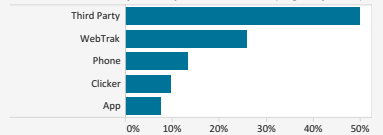


Disturbance Type (Aug - Sep 2019)

Disturbance Type	Number of Complaints	% of Total
Too Loud	32,320	98.1%
Overflight	397	1.2%
Suspected Off Course	123	0.4%
Too Low	59	0.2%
Curfew Violation	46	0.1%
Other	3	0.0%
Off Course	3	0.0%
Helicopter	3	0.0%
Increased Flight Volume	1	0.0%

The Authority reports all complaints.

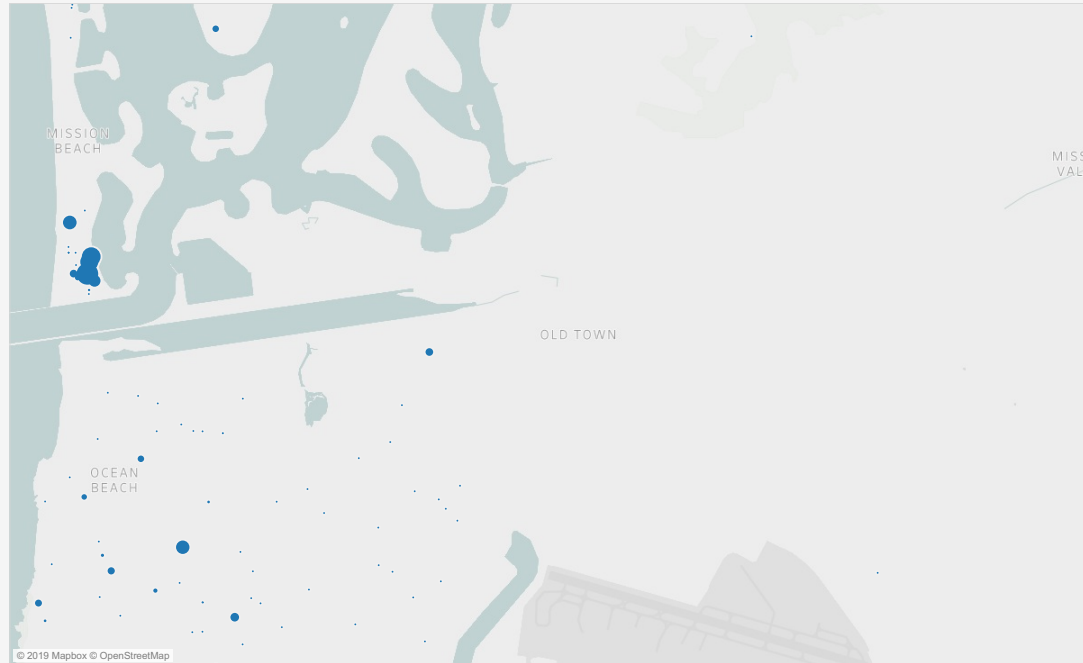
Households with Complaints by Contact Method (Aug - Sep 2019)



Number of Complaints by Neighborhood (Aug - Sep 2019)

Neighborhood	Complaints	Households
Grand Total	32,955	216
Mission Beach	16,181	27
Roseville/Fleetridge	2,685	9
Ocean Beach	2,074	25
Sunset Cliffs	1,808	10
La Jolla	1,651	24
Spring Valley	1,559	3
Bird Rock	1,455	14
Pacific Beach	1,219	10
Mid-City	1,161	2
Mt. Helix	1,010	6
La Playa	584	8
Midway District	568	1
Muirlands	366	7
Wooded Area	188	7
Del Mar	166	2
Loma Portal	67	14
La Mesa	60	2
Point Loma Heights	32	6
Imperial Beach	30	3
Point Loma	27	13
Poway	24	1
East Lake	13	1
Golden Hill	4	2
Clairemont	3	1
Banker's Hill	1	1
Carlsbad	1	1
Del Cerro	1	1
Encanto	1	1
Kearny Mesa	2	1

Location of Complaints (Aug - Sep 2019)



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