

## Fly Quiet Report

Presented at the November 2, 2016 Airport Community Roundtable Meeting

Aircraft Noise Abatement Office Third Quarter 2016



San Francisco International Airport

San Francisco International Airport

# Fly Quiet Program

San Francisco International Airport's Fly Quiet Program is an Airport Community Roundtable initiative implemented by the Aircraft Noise Abatement Office. Its purpose is to encourage individual airlines to operate as quietly as possible at SFO. The program promotes a participatory approach in complying with noise abatement procedures and objectives by grading an airline's performance and by making the scores available to the public via newsletters, publications, and public meetings.

Fly Quiet offers a dynamic venue for implementing new noise abatement initiatives by praising and publicizing active participation rather than a system that admonishes violations from essentially voluntary procedures.

#### **Program Goals**

The overall goal of the Fly Quiet Program is to influence airlines to operate as quietly as possible in the San Francisco Bay Area. A successful Fly Quiet Program can be expected to reduce both single event and total noise levels around the airport.

#### **Program Reports**

Fly Quiet reports communicate results in a clear, understandable format on a scale of 0-10, zero being poor and ten being good. This allows for an easy comparison between airlines over time. Individual airline scores are computed and reports are generated each quarter. These quantitative scores allow airline management and flight personnel to measure exactly how they stand compared to other operators and how their proactive involvement can positively reduce noise in the Bay Area.

#### **Program Elements**

Currently the Fly Quiet Program rates jets and regional jets on six elements: the overall noise quality of each airline's fleet operating at SFO, an evaluation of single overflight noise level exceedences, a measure of how well each airline complies with the preferred nighttime noise abatement runways, assessment of airline performance to the Gap and Shoreline Departures, and over the bay approaches to runways 28L and 28R.



### **SFO's Fly Quiet Ratings**



#### **Fleet Noise Quality**

The Fly Quiet Program Fleet Noise Quality Rating evaluates the noise contribution of each airline's fleet as it actually operates at SFO. Airlines generally own a variety of aircraft types and schedule them according to both operational and marketing considerations. Fly Quiet assigns a higher rating or grade to airlines operating quieter, new generation aircraft, while airlines operating older, louder technology aircraft would rate lower. The goal of this measurement is to fairly compare airlines—not just by the fleet they own, but by the frequency that they schedule and fly particular aircraft into SFO.

#### **Noise Exceedance**

Eliminating high-level noise events is a long-standing goal of the Airport and the Airport Community Roundtable. As a result the Airport has established single event maximum noise level limits at each noise-monitoring site. These thresholds were set to identify aircraft producing noise levels higher than are typical for the majority of the operations.

Whenever an aircraft overflight produces a noise level higher than the maximum decibel value established for a particular monitoring site, the noise threshold is surpassed and a noise exceedance occurs. An exceedance may take place during approach, takeoff, or possibly during departure ground roll before lifting off. Noise exceedances are logged by the exact operation along with the aircraft type and airline name.

#### **Nighttime Preferential Runway Use**

SFO's Nighttime Preferential Runway Use program was developed in 1988. Although the program cannot be used 100% of the time because of winds, weather, and other operational factors, the Airport, the Community Roundtable, the FAA, and the Airlines have all worked together to maximize its use when conditions permit. The program is voluntary; compliance is at the discretion of the pilot in command. The main focus of this program is to maximize flights over water and minimize flights over land and populated areas between 1:00 a.m. and 6:00 a.m. Fortunately, because airport activity levels are lower late at night, it is feasible to use over-water departure procedures more frequently than would be possible during the day. Reducing night-time noise—especially sleep disturbance— is a key goal of SFO's aircraft noise abatement program.

#### **Shoreline Departure Quality**

Aircraft departing SFO using Runways 28L and 28R are also considered by the Fly Quiet grading system whenever they use the Shoreline Departure Procedure. This predominately VFR (visual flight rules) departure steers aircraft to the northeast shortly after takeoff in an attempt to keep aircraft and aircraft noise away from the residential communities located to the northwest of SFO. By keeping aircraft east of Highway 101 the majority of the overflights will be experienced by industrial and business parks instead of residential areas.

In order to evaluate each airline's performance when flying a Shoreline Departure, a corridor was established using Interstate 101 (green colored flight tracks) as a reference point. The corridor runs north along 101, beginning approximately one-mile north-northwest of the end of Runways 28L and 28R and continuing up into the City of Brisbane. Departures west of 101 are scored marginal or poor depending on their location.



#### **Gap Departure Quality**

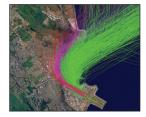
Aircraft departing SFO using Runways 28L and 28R frequently depart straight out using a procedure known as the Gap Departure. This procedure directs air traffic to fly a route that takes them over the area northwest of the airport over the cities of South San Francisco, San Bruno, Daly City, and Pacifica. In an attempt to mitigate noise in this specific area, the Gap Departure Quality Rating has been included as a category in the Fly Quiet Program.

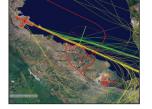
Since "higher is quieter", aircraft altitudes are recorded along the departure route. Scores are assigned at specified points or gates set approximately one mile apart, with the higher aircraft receiving higher scores.

#### **Foster City Arrival Quality**

The Arrival Quality Rating is the latest addition to the Fly Quiet Program. In an effort to further reduce nighttime noise in neighboring communities, this rating is designed to maximize over-bay approaches to Runways 28 between 11:00 p.m. and 6:00 a.m. Airlines arriving to Runways 28 during these hours are assessed based on which approach flight path was used. Over-the-bay approaches are rated good (green colored flight tracks), versus over-the-communities which are rated poor.







#### Airline Fly Quiet Summary Report - 3rd Quarter 2016

Airline		Fleet Noise Quality E	Noise Exceedance	Nighttime Runway Us	<u>Depar</u> se Shorelin	<u>tures</u> e Gap Fo	<u>Arrivals</u> oster City	Final Airline Fly Quiet Rating Score	F .
virgin atlantic	VIR	8.99	9.96	-	-	6.51	-	8.49	
Compass	CPZ	10.00	9.92	-	10.00	5.51	5.00	8.09	
🕑 Lufthansa	DLH	9.09	9.98	-	7.50	5.63		8.05	
Suncountry airlines	SCX	5.82	9.94	3.33	10.00		10.00	7.82	
ANA	ANA	7.15	9.93	-	-	5.99	-	7.69	
uni stean	AIC	7.15	8.60	-	-	7.19	-	7.64	
AIRFRANCE	AFR	8.36	9.89	-	-	4.64	-	7.63	
Emirates	UAE	10.00	10.00	-	-	2.83	-	7.61	
Westjet 🛊	WJA	5.82	9.59	-	10.00	-	5.00	7.60	
545 Scandinavian Airlines	SAS	8.17	9.98	-	-	4.47	-	7.54	
Alaska.	ASA	5.35	9.87	10.00	9.51	5.00	4.69	7.40	
ETIHAD	ETD	7.15	9.76	-	-	5.26	-	7.39	
<b>SWISS</b>	SWR	8.17	9.96	-	-	3.82	-	7.32	
BRITISH AIRWAYS	BAW	7.93	9.98	-	-	3.96	-	7.29	
<b>SkyWest</b>	SKW	10.00	9.97	3.33	9.82	4.73	4.85	7.12	
AIR CANADA 🋞	ACA	5.38	9.93	5.56	9.06	4.23	8.52	7.11	
FRONTIER AIRLINES	FFT	5.64	9.89	4.52	9.42	4.69	7.93	7.01	
Southwest	SWA	5.73	9.88	3.33	9.84	5.82	7.06	6.94	
<b>DELTA</b>	DAL	6.33	9.92	3.38	7.87	6.28	7.61	6.90	
	wow	4.05	9.94	-	-	6.46	-	6.81	
america 🦉	VRD	4.96	9.94	-	9.37	3.44	6.28	6.80	
e 中國東方航空 CHINA EASTERN	CES	6.68	9.98	-	-	3.67	-	6.78	
Airways	XLF	4.05	9.82	-	5.00	7.89		6.69	
AIR NEW ZEALAND	ANZ	6.55	7.53	-	-	5.82		6.63	
中国南方航空 OHMA SCOTHEIN ARE NES	CSN	9.50	9.96	0.00	-	6.54		6.50	
FedEx.	FDX	3.61	9.28	-	9.09	4.31	5.95	6.45	
TURKISH AIRLINES	THY	7.15	9.98	-	-	2.12	-	6.42	
jetBlue	JBU	4.79	9.85	3.33	7.66	4.77	7.83	6.37	
volaris	VOI	4.86	9.52	3.19	-	9.13	5.07	6.35	
<b>W</b> AIR CHINA	CCA	9.23	9.52	0.29	-	6.26	-	6.33	
								6.29 SFO AVERAGE	
ATLAS AIR	GTI	4.87	8.89	4.00	7.00	7.07	5.83	6.28	
UNITED	UAL	5.80	9.84	3.48	7.27	4.38	6.55	6.22	
	AMX	5.82	9.39	2.65	-	6.76	5.91	6.11	
CopaAirlines	CMP	5.82	9.16	-	-	3.25	-	6.08	
American Airlines 🔪	AAL	5.17	9.84	4.15	7.41	2.12	7.21	5.98	
Royal Dutch Airlines	KLM	4.98	9.97	-	4.00	4.92	-	5.97	
Nippon Gargo Airlines	NCA	10.00	9.08	0.00	-	5.59	5.00	5.93	
JAPAN AIRLINES	JAL	7.15	8.46	0.56	-	6.99	-	5.79	

San Francisco International Airport Fly Quiet Program

#### Airline Fly Quiet Summary Report - 3rd Quarter 2016

Airline	Fleet Noise Quality E	Noise Exceedance	Nighttime Runway Us	<u>Depar</u> e Shorelin	<u>tures</u> e Gap Fo	<u>Arrivals</u> oster City	Final Score	Airline Fly Quiet Rating
HAWAIIAN HAL	4.05	9.49	-	-	4.04	5.00	5.64	
KSREAN AIR KAL	9.89	7.15	0.79	-	4.71	5.06	5.52	
Avianca TAI	4.94	9.44	3.08	-	4.80	5.16	5.49	
ASIANA AIRLINES AAR	4.95	7.33	1.82	-	8.14	5.14	5.47	
Aer Lingus 🦂 🛛 <sub>EIN</sub>	4.05	10.00	-	-	2.03	-	5.36	
CATHAY PACIFIC CPA	7.15	8.12	0.09	-	6.45	5.00	5.36	
Sairberlin BER	4.05	9.97	-	5.00	1.44	-	5.11	
EVAAIR DEVA	6.85	8.22	0.78	-	4.03	5.00	4.98	
Sechina Airlines 🖗 CAL	5.64	8.76	0.57	-	4.89	5.00	4.97	
	7.15	8.86	0.34	-	3.23	5.00	4.92	
M Philippines PAL	7.41	7.00	0.38	-	3.00	5.00	4.56	
<b>FIJI</b> AIRWAYS FJI	4.05	7.75	0.00	-	5.18	-	4.24	
CKS	3.14	0.12	0.72	10.00	1.92	5.37	3.55	
POLAR AIR CARGO PAC	3.43	0.32	2.50	-	2.92	5.00	2.83	
QANTAS QFA	3.43	0.00	0.00	-	5.58	-	2.25	
SFO Average	6.37	8.86	2.28	8.24	4.91	5.93	<u> </u>	2 3 4 5 6 7 8 9 10

#### Fleet Noise Quality - 3rd Quarter 2016

		Nationwide	San Fran	ncisco	
Airline		Fleet Noise	Average Daily Jet		Fleet Noise Quality Rating
		Quality Rating	Operations	Score	
NCA	NCA	3.90	1	10.00	
Emirates	UAE	7.89	1	10.00	
Compass	CPZ	10.00	9	10.00	
<b>Skyllest</b>	SKW	10.00	82	10.00	
KSREAN AIR	KAL	4.05	2	9.89	
中国南方航空 💮 OHM SOUTHERN ARE NES	CSN	5.64	1	9.50	
<b>W</b> AIR CHINA	CCA	3.46	1	9.23	
😔 Lufthansa	DLH	6.09	2	9.09	
virgin atlantic	VIR	5.84	2	8.99	
AIRFRANCE	AFR	5.49	2	8.36	
Scandinavian Airlines	SAS	4.96	1	8.17	
<b>SWISS</b>	SWR	5.17	2	8.17	
BRITISH AIRWAYS	BAW	4.34	2	7.93	
M Philippines	PAL	5.09	1	7.41	
ANA	ANA	5.43	1	7.15	
CATHAY PACIFIC	CPA	4.18	2	7.15	
ETHAD	ETD	0.00	1	7.15	
JAPAN AIRLINES	JAL	4.20	1	7.15	
	SIA	5.93	2	7.15	
TURKISH AIRLINES	THY	6.80	1	7.15	
A USAL STE ON	AIC	4.77	0	7.15	
EVAAIR 🌌	EVA	5.05	2	6.85	
Frina Eastern	CES	4.63	1	6.68	
AIR NEW ZEALAND 🕤	ANZ	4.00	1	6.55	
				6.37	SFO AVERAGE
▲ DELTA	DAL	4.92	41	6.33	
AEROMEXICO	AMX	5.54	3	5.82	
CopaAirlines	CMP	6.46	1	5.82	
Suncountry air lines	SCX	5.82	2	5.82	
Westjet 🐳	WJA	5.82	2	5.82	
UNITED	UAL	5.83	192	5.80	
	SWA	5.70	44 ×	5.73	
AIRLINES	FFT	6.41	8	5.64	
	CAL	3.62	2	5.64	
AIR CANADA 🛞	ACA	6.75	13	5.38	
Alaska.	ASA	5.10	17	5.35	

		Nationwide	San Fran	ıcisco	
Airline		Fleet Noise Quality Rating	Average Daily Jet Operations	Score	Fleet Noise Quality Rating
American Airlines 🍾	AAL	3.94	46	5.17	
KLM Royal Dutch Airlines	KLM	4.67	1	4.98	
Mamerica 🛛	VRD	5.31	59	4.96	
ASIANA AIRLINES	AAR	3.93	1	4.95	
Avianca 🖕	TAI	5.18	1	4.94	
ATLAS	GTI	0.93	1	4.87	
volaris	VOI	0.00	2	4.86	
jetBlue	JBU	6.13	16	4.79	
Aer Lingus 🦂	EIN	4.05	1	4.05	
WYCO WY	WOW	0.00	1	4.05	
Airways	XLF	4.05	0	4.05	
airberlin	BER	5.92	1	4.05	
◎FIJI <sub>AIRWAYS</sub>	FJI	0.00	0	4.05	
	HAL	6.21	2	4.05	
FedEx.	FDX	2.80	1	3.61	
POLAR AIR CARGO	PAC	3.43	0	3.43	
QANTAS	QFA	3.47	1	3.43	
SKALITTAF	CKS	0.60	0	3.14	
					0 1 2 3 4 5 6 7 8 9 10
AVERAGE		4.71	11	6.37	

#### Exceedances **Operations** Operations Aer Lingus 📣 EIN 0 0 183 10.00 UAE Emirates 0 184 0 10.00 中國東方航空 CHINA EASTERN $\boldsymbol{<}$ CES 1 186 5 9.98 $( \mathbf{e} )$ Lufthansa DLH 2 367 5 9.98 BRITISH AIRWAYS BAW 2 365 5 9.98 Scandinavian Airlines SAS 9.98 1 182 5 TURKISH AIRLINES 🕖 THY 1 176 6 **9.98 SkyWest** SKW 124 18,872 7 9.97 airberlin BER 132 1 8 9.97 KLM Royal Dutch Airling KLM 2 233 9 9.97 virgin atlantic VIR 3 338 9 9.96 **SWISS** SWR 3 331 9 9.96 🚽 中国南方航空 🌍 CSN 2 183 11 9.96 suncountryairlines SCX 7 457 15 9.94 america 🖉 VRD 167 10,887 15 9.94 ~~ WOW 2 127 16 **9.94** ANA 🖊 ANA 3 183 16 **9.93** AIR CANADA 🋞 ACA 40 2,389 9.93 17 📥 DELTA DAL 142 7,462 19 **9.92** Compass CPZ 53 2,684 20 9.92 AIRFRANCE / AFR 9 343 9.89 26 FRONTIER FFT 42 1,486 28 9.89 Southwest SWA 251 8,173 31 9.88 Alaska. ASA 103 3,217 32 9.87 jetBlue JBU 105 2,925 36 9.85 UNITED UAL 1,380 35,405 39 9.84 American Airlines 🔪 AAL 340 8,530 40 9.84 XL XLF 3 67 45 9.82 ETIHAD ETD 11185 59 9.76 WESTJET 🚀 WJA 37 367 101 9.59 🅼 AIR CHINA CCA 30 252 119 9.52 volaris VOI 33 277 119 9.52 HAWAIIAN HAL 46 366 126 9.49 Avianca 🔍 TAI 139 38 274 9.44 AEROMEXICO AMX 85 567 150 9.39 Fed Ex. FDX 257 179 9.28 46 CopaAirlines CMP 38 207 9.16 184

**Noise Exceedances** 

Exceedances per

1000

Score

Total

Quarterly

#### Noise Exceedance Rating Report - 3rd Quarter 2016

Total

Noise

Airline

**Noise Exceedance Quality Rating** 

NCA

36

159

9.08

226

			Noise Excee	edances		
Airline		Total Noise Exceedances	Total Quarterly Operations	Exceedances per 1000 Operations	Score	Noise Exceedance Quality Rating
ATLAS	GTI	73	265	275	8.89	
	SIA	103	365	282	8.86	
					8.86	SFO AVERAGE
AIRLINES 🛞	CAL	93	304	306	8.76	
A uni stean	AIC	27	78	346	8.60	
JAPAN AIRLINES	JAL	70	184	380	8.46	
	EVA	174	396	439	8.22	
CATHAY PACIFIC	CPA	199	428	465	8.12	
<b>FIJI</b> airways	FJI	15	27	556	7.75	
AIR NEW ZEALAND	ANZ	106	174	609	7.53	
ASIANA AIRLINES	AAR	177	268	660	7.33	
KSREAN AIR	KAL	261	370	705	7.15	
M Philippines	PAL	175	236	742	7.00	
POLAN AIR CARGO	PAC	55	23	2391	0.32	
<b>SKALITTAE</b>	CKS	144	59	2441	0.12	
QANTAS	QFA	388	157	2471	0.00	0 1 2 3 4 5 6 7 8 9 1
OTAL		5,249	112,289			
FO AVERAGE				282	8.86	

#### Noise Exceedance Rating Report - 3rd Quarter 2016

#### Nighttime Preferential Runway Use - 3rd Quarter 2016

Airline <i>Total</i> <i>Aircanada</i> ASA AIRCANADA AACA ACA 3	10L/R 100% 0%	28L/R Shoreline	<sub>2</sub> 01L/R	28L/R Straight	Score	
		0%				
AIR CANADA	0%		0%	0%	10.00	
nen 5		67%	33%	0%	5.56	
FRONTIER ARLINES FFT 31	10%	16%	74%	0%	4.52	
American Airlines AAL 188	4%	18%	77%	2%	4.15	
ATLAS GTI 5	0%	60%	0%	40%	4.00	
UNITED UAL 233	3%	8%	81%	9%	3.48	
ADELTA DAL 74	0%	1%	99%	0%	3.38	
jetBlue JBU 11	0%	9%	82%	9%	3.33	
SCX 2	0%	0%	100%	0%	3.33	
Southwest swa 90	0%	0%	100%	0%	3.33	
Skyllest SKW 15	0%	13%	73%	13%	3.33	
volaris VOI 138	7%	0%	74%	19%	3.19	
Avianca TAI 92	7%	0%	73%	21%	3.08	
TARROMEXICO AMX 34	9%	0%	53%	38%	2.65	
PAC 12	25%	0%	0%	75%	2.50	
					2.28	
ASIANA AIRLINES AAR 33	18%	0%	0%	82%	1.82	
KSREAN AIR KAL 89	8%	0%	0%	92%	0.79	
EVAAIR 🔊 EVA 128	8%	0%	0%	92%	0.78	
CKS 23	4%	4%	0%	91%	0.72	
SCHINA AIRLINES SCAL 88	6%	0%	0%	94%	0.57	
JAPAN AIRLINES JAL 90	4%	0%	3%	92%	0.56	
MPhilippines PAL 26	4%	0%	0%	96%	0.38	
SINGAPORE AIRLINES SIA 89	3%	0%	0%	97%	0.34	
GRIRCHINA CCA 34	3%	0%	0%	97%	0.29	
CATHAY PACIFIC CPA 116	1%	0%	0%	99%	0.09	
▲ 中国南方航空 ジン CSN 5	0%	0%	0%	100%	0.00	
	0%	0%	0%	100%	0.00	
NEPPON Cargo Alrinos NCA 1	0%	0%	0%	100%	0.00	
QFA 1	0%	0%	0%	100%	0.00	
TOTAL 1,653	<u> </u>	<u> </u>		<u> </u>	<u> </u>	I <u>L</u>
SFO AVERAGE	8%	7%	32%	54%	2.28	

#### Shoreline Departure Rating - 3rd Quarter 2016

Airline			Sho	oreline Depa	rtures		Shoreline Departure Rating
		Total	Successful	Marginal	Poor	Score	
SKALITTAE	CKS	1	100%	0%	0%	10.00	
Compass	CPZ	18	100%	0%	0%	10.00	
sun country airlines	SCX	15	100%	0%	0%	10.00	
Westjet 🖗	WJA	5	100%	0%	0%	10.00	
Southwest.	SWA	32	97%	3%	0%	9.84	
<b>Skyll/est</b>	SKW	136	96%	4%	0%	9.82	
Alaska.	ASA	41	90%	10%	0%	9.51	
FRONTIER AIRLINES	FFT	26	88%	12%	0%	9.42	
america 🐨	VRD	103	88%	11%	1%	9.37	
FedEx.	FDX	11	82%	18%	0%	9.09	
AIR CANADA 🋞	ACA	32	81%	19%	0%	9.06	
						8.24	SFO AVERAGE
📥 D E L T A	DAL	87	63%	31%	6%	7.87	
jetBlue	JBU	32	53%	47%	0%	7.66	
😔 Lufthansa	DLH	2	50%	50%	0%	7.50	
American Airlines 🍾	AAL	137	53%	43%	4%	7.41	
UNITED	UAL	390	58%	29%	13%	7.27	
ATLAS	GTI	10	40%	60%	0%	7.00	
airberlin	BER	2	0%	100%	0%	5.00	
Airways	XLF	1	0%	100%	0%	5.00	
	KLM	5	20%	40%	40%	4.00	
TOTAL		1,086				•	·
SFO AVERAGE			68%	29%	3%	8.24	

Airline		Gap De	partures	Gap Departure Quality Rating			
	~	Total	Score	oup 2 opartary Quanty Lang			
volaris	VOI	26	9.13				
ASIANA AIRLINES	AAR	127	8.14				
Airways	XLF	16	7.89				
A unit STRON	AIC	40	7.19				
ATLAS	GTI	32	7.07				
JAPAN AIRLINES	JAL	83	6.99				
	AMX	22	6.76				
🚽 中国南方航空 🛞 Orma Southern Arranses 🛞	CSN	90	6.54				
virgin atlantic	VIR	109	6.51				
W/CVW air	WOW	36	6.46				
CATHAY PACIFIC	СРА	211	6.45				
📥 D E L T A	DAL	123	6.28				
<b>W</b> AIR CHINA	CCA	124	6.26				
ANA	ANA	91	5.99				
AIR NEW ZEALAND	ANZ	87	5.82				
Southwest	SWA	142	5.82				
🕑 Lufthansa	DLH	178	5.63				
Nippon Gargo Airlines	NCA	79	5.59				
QANTAS	QFA	77	5.58				
Compass	CPZ	47	5.51				
SLW ETIHAD	ETD	91	5.26				
<b>FIJI</b> AIRWAYS	FJI	14	5.18				
Alaska.	ASA	43	5.00				
KLM Royal Dutch Airlines	KLM	16	4.92				
			4.91	SFO AVERAGE			
🥵 CHINA AIRLINES 🛞	CAL	145	4.89				
Avianca	TAI	19	4.80				
jetBlue	JBU	33	4.77				
<b>Skyllest</b>	SKW	233	4.73				
FRONTIER	KAL	175	4.71				
AIRLINES	FFT	20	4.69				
AIRFRANCE	AFR	158	4.64				
ses Scandinavian Airlines	SAS	90	4.47				
UNITED	UAL	3309	4.38				
FedEx.	FDX	9	4.31				

Gap Departure Climb Rating - 3	3rd Quarter 2016
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Airline		Gap De	partures	Gap Departure Quality Rating
			Score	
AIR CANADA 🋞	ACA	13	4.23	
	HAL	13	4.04	
	EVA	185	4.03	
BRITISH AIRWAYS	BAW	143	3.96	
<b>SWISS</b>	SWR	164	3.82	
er 中國東方航空 CHINA EASTERN	CES	92	3.67	
Wa america	VRD	358	3.44	
CopaAirlines	CMP	92	3.25	
	SIA	179	3.23	
M Philippines	PAL	117	3.00	
POLAR AIR CARGO	PAC	9	2.92	
Emirates	UAE	92	2.83	
TURKISH AIRLINES 🕗	THY	86	2.12	
American Airlines 🍾	AAL	349	2.12	
Aer Lingus 🖊	EIN	91	2.03	
<b>EKALITTAE</b>	CKS	26	1.92	
airberlin	BER	47	1.44	
TOTAL		8151	4.01	
SFO Average			4.91	

#### Foster City Arrival Rating - 3rd Quarter 2016

Airline		Fa	oster City Arr	ivals		Foster City Arrival Rating
Airine	Total	Successful	Marginal	Poor	Score	Foster City Arrival Kating
suncountryairlines SCX	1	100%	0%	0%	10.00	
AIR CANADA 🛞 ACA	122	70%	30%	0%	8.52	
FRONTIER AIRLINES FFT	145	59%	41%	0%	7.93	
jetBlue JBU	235	58%	41%	1%	7.83	
<b>DELTA</b> DAL	364	53%	47%	1%	7.61	
American Airlines 🔪 🛛 AAL	669	45%	54%	1%	7.21	
Southwest's swa	282	45%	50%	4%	7.06	
UNITED UAL	1,470	33%	65%	2%	6.55	
america VRD	179	26%	74%	0%	6.28	
FedEx. FDX	63	19%	81%	0%	5.95	
					5.93	SFO AVERAGE
AEROMEXICO AMX	33	18%	82%	0%	5.91	
ATTAS ATT	30	17%	83%	0%	5.83	
<b>KALITTAT</b> CKS	27	7%	93%	0%	5.37	
Avianca TAI	91	5%	92%	2%	5.16	
ASIANA AIRLINES AAR	35	3%	97%	0%	5.14	
volaris VOI	137	1%	99%	0%	5.07	
KSREAN AIR KAL	87	2%	97%	1%	5.06	
CAL	2	0%	100%	0%	5.00	
CATHAY PACIFIC CPA	5	0%	100%	0%	5.00	
Compass Airlines CPZ	22	0%	100%	0%	5.00	
EVAAIR EVA	8	0%	100%	0%	5.00	
HAWAIIAN HAL	3	0%	100%	0%	5.00	
NEPPON Cargo Aldinos NCA	1	0%	100%	0%	5.00	
POLAR AIR CARGO PAC	11	0%	100%	0%	5.00	
<b>Philippines</b> PAL	3	0%	100%	0%	5.00	
	1	0%	100%	0%	5.00	
WESTJET WJA	4	0%	100%	0%	5.00	
Skyllest SKW	134	7%	84%	10%	4.85	
Alaska <sub>ASA</sub>	32	3%	88%	9%	4.69	
TOTAL	4,196	L	I		1	I <u>L</u>
SFO AVERAGE		20%	79%	1%	5.93	