
Airport Activity and Noise Trends

October 1993



MTC
METROPOLITAN
TRANSPORTATION
COMMISSION

AIRPORT ACTIVITY AND NOISE TRENDS

October 1993

**Prepared by
Metropolitan Transportation Commission
Planning and Technical Services Sections
and the
Association of Bay Area Governments**

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SECTION I

Introduction

Introduction

This report is published by the Metropolitan Transportation Commission (MTC) to provide information concerning local Bay Area airport activity and airport noise trends. The airport activity data are obtained from published airline schedules and from the monthly airport activity reports. Information relating to airport noise trends is obtained from the airports and includes data from each airport's noise monitoring system. The different types of information provided in this report are listed below:

Airline Schedules - Current Period

- The number of non-stop passenger flights from each Bay Area airport to each destination city.
- The number of cargo flights from each Bay Area airport to each destination city.

Airline Fleet Mix

- The number of operations by aircraft type at each airport.
- The average daily takeoffs and landings of narrow body aircraft for the Bay Area over preceding quarters.
- The average daily takeoffs and landings of wide body aircraft for the Bay Area over preceding quarters.

Airline Operations by Time of Day

- The number of arrivals and departures by hour by jet aircraft versus all aircraft at each airport.
- The number of arrivals and departures by airline divided by day, evening, and night time periods at each airport.
- The number of arrivals and departures by aircraft divided by day, evening, and night time periods at each airport.

Airport Activity Trends

- Tables and graphs showing the number of passengers, certificated air carrier operations, and commuter airline/air taxi operations at each Bay Area airport and for the airports combined. Data are for the 12 month period ending on the last day of each quarter.

Airport Noise Trends

- Tables and graphs showing noise monitor levels (CNEL - Community Noise Equivalent Levels) at key noise monitor locations around each Bay Area airport. Maps showing the locations are included. Graphs shows annualized CNEL values over the preceding 12 months.
- An airport noise descriptor (termed the "Airport Noise Level" or A.N.L.) which can provide an early warning system to indicate the potential for increased noise. This noise descriptor is calculated using the published airline schedules for the first month of each quarter and is based on the takeoff noise levels (dBA) for various aircraft types, and adjusted by the number of operations and time of day.

SECTION II

Definitions

Definitions

This section contains definitions and abbreviations that are useful in reviewing the tables that follow. For additional information regarding airport location codes, airline and aircraft codes, and aircraft takeoff noise in dBA, see the information contained in the appendices.

Types of Air Carriers

The major types of carriers that are included in this report are the Certificated Air Carriers and the Commuter Air Carriers.

- **Certificated Air Carrier** - An air carrier holding a Certificate of Public Convenience and Necessity authorizing the performance of scheduled service over specified routes, and a limited number non-scheduled service.
- **Commuter Air Carrier** - An air taxi using small aircraft (approx. 60 seats) which performs at least five round trips per week between two or more points and publishes flight schedules which specify the times, days of the week, and points between which such flights are performed (An air taxi is certificated in accordance with FAR Part 135).

Time of Day

The Community Noise Equivalent Level (CNEL) for each airport is calculated using a formula that weights the aircraft noise emissions by the time of day to reflect people's lower tolerance to noise during the evening and night time periods. The evening aircraft noise emissions are weighted three (3) times the daytime noise emissions and night aircraft noise emissions are weighted ten (10) times the daytime levels, therefore the number of jet operations during these periods has a significant effect on the calculated CNEL.

Several tables report the number of operations for three separate time periods as defined in the state's airport noise standards.

- Day 7 a.m. - 7 p.m.
- Evening 7 p.m. - 10 p.m.
- Night 10 p.m. - 7 a.m.

Quarters

Noise monitoring is reported by each quarter of the year. The four quarters used are:

- Quarter 1 January to March
- Quarter 2 April to June
- Quarter 3 July to September
- Quarter 4 October to December

Airport Noise Levels (ANL)

The ANL is a calculated descriptor in dBA, based on the estimated takeoff noise levels of aircraft using the airports, and adjusted for the number of operations by time of day.

SECTION III

**Airline Schedules
October 1993**

AIRLINE SCHEDULES
 Cities Served Directly from Bay Area Airports
 Departing Passenger Flights Per Week for 10/93

Dest	SFO	%	OAK	%	SJC	%	Total
ABQ	14	100	0	0	0	0	14
ACV	67	100	0	0	0	0	67
AMS	8	100	0	0	0	0	8
ANC	3	100	0	0	0	0	3
ATL	63	100	0	0	0	0	63
AUS	0	0	0	0	7	100	7
BFL	39	100	0	0	0	0	39
BHC	0	0	7	50	7	50	14
BJX	0	0	3	100	0	0	3
BOI	28	100	0	0	0	0	28
BOS	35	83	0	0	7	17	42
BUR	76	36	88	41	49	23	213
BWI	7	100	0	0	0	0	7
CDG	10	100	0	0	0	0	10
CIC	26	100	0	0	0	0	26
CLE	6	100	0	0	0	0	6
CLT	29	100	0	0	0	0	29
CVG	39	100	0	0	0	0	39
DEN	114	55	34	16	61	29	209
DFW	112	52	35	16	69	32	216
DTW	34	100	0	0	0	0	34
EKO	0	0	1	100	0	0	1
EUG	28	80	7	20	0	0	35
EWR	77	100	0	0	0	0	77
FAT	131	90	14	10	0	0	145
FRA	14	100	0	0	0	0	14
GDL	24	77	0	0	7	23	31
GEG	28	100	0	0	0	0	28
HKG	14	100	0	0	0	0	14
HNL	99	100	0	0	0	0	99
IAD	35	100	0	0	0	0	35
IAH	153	100	0	0	0	0	153
IND	14	100	0	0	0	0	14
JFK	118	100	0	0	0	0	118
KOA	7	100	0	0	0	0	7
LAS	97	61	28	18	34	21	159
LAX	391	59	153	23	118	18	662
LGB	19	49	20	51	0	0	39
LHR	21	100	0	0	0	0	21
MCE	24	100	0	0	0	0	24
MCI	13	100	0	0	0	0	13
MCO	7	100	0	0	0	0	7
MEM	14	100	0	0	0	0	14
MEX	7	100	0	0	0	0	7
MFR	28	100	0	0	0	0	28
MIA	21	100	0	0	0	0	21
MKE	6	100	0	0	0	0	6
MOD	39	100	0	0	0	0	39
MRY	136	100	0	0	0	0	136
MSP	54	72	0	0	21	28	75
MSY	7	100	0	0	0	0	7
MZT	2	100	0	0	0	0	2

AIRLINE SCHEDULES
Cities Served Directly from Bay Area Airports
Departing Passenger Flights Per Week for 10/93

<u>Dest</u>	<u>SFO</u>	<u>%</u>	<u>OAK</u>	<u>%</u>	<u>SJC</u>	<u>%</u>	<u>Total</u>
OGG	10	100	0	0	0	0	10
ONT	48	23	89	42	74	35	211
ORD	145	60	28	12	70	29	243
OSA	7	100	0	0	0	0	7
PDX	106	48	47	21	67	30	220
PHL	21	100	0	0	0	0	21
PHX	115	53	61	28	39	18	215
PIT	33	100	0	0	0	0	33
PSP	21	100	0	0	0	0	21
PVR	8	100	0	0	0	0	8
RDD	86	100	0	0	0	0	86
RDM	13	100	0	0	0	0	13
RNO	117	58	36	18	49	24	202
SAL	7	100	0	0	0	0	7
SAN	145	56	78	30	35	14	258
SBA	54	61	0	0	35	39	89
SBP	39	100	0	0	0	0	39
SCK	20	100	0	0	0	0	20
SEA	162	60	46	17	61	23	269
SEL	10	100	0	0	0	0	10
SFO	0	0	0	0	52	100	52
SHA	3	100	0	0	0	0	3
SJC	52	100	0	0	0	0	52
SLC	56	38	49	33	42	29	147
SMF	164	96	0	0	7	4	171
SMX	8	100	0	0	0	0	8
SNA	159	54	82	28	51	17	292
STL	49	78	0	0	14	22	63
STS	46	100	0	0	0	0	46
TPE	15	100	0	0	0	0	15
TVL	14	100	0	0	0	0	14
YVR	28	58	0	0	20	42	48
YYC	7	100	0	0	0	0	7
YYZ	21	100	0	0	0	0	21
ZCL	0	0	4	100	0	0	4
Total	4155	68	910	15	1002	17	6067

AIRLINE SCHEDULES
 Cities Served Directly from Bay Area Airports
 Departing Cargo Flights Per Week for 10/93

Dest	SFO	%	OAK	%	SJC	%	Total
ANC	12	100	0	0	0	0	12
CVG	5	100	0	0	0	0	5
DAY	0	0	5	50	5	50	10
DFW	7	58	5	42	0	0	12
DSM	0	0	5	100	0	0	5
EWR	1	100	0	0	0	0	1
FAT	5	33	10	67	0	0	15
GDL	1	100	0	0	0	0	1
ILN	0	0	5	50	5	50	10
IND	6	100	0	0	0	0	6
JFK	2	100	0	0	0	0	2
LAX	5	36	9	64	0	0	14
MEM	5	33	5	33	5	33	15
NRT	10	100	0	0	0	0	10
ONT	0	0	7	100	0	0	7
ORD	2	100	0	0	0	0	2
PDX	0	0	5	100	0	0	5
PHL	0	0	5	100	0	0	5
RNO	5	50	5	50	0	0	10
SDF	0	0	10	67	5	33	15
SEA	2	100	0	0	0	0	2
SLC	5	100	0	0	0	0	5
SMF	5	100	0	0	0	0	5
TOL	0	0	5	100	0	0	5
YYZ	1	100	0	0	0	0	1
Total	79	44	81	45	20	11	180

SECTION IV

Airline Fleet Mix

AIRLINE FLEET MIX
Number of Operations Per Week by Aircraft Type for 10/93

Aircraft	SFO	%	OAK	%	SJC	%	Total	%
320	176	2.08	0	0.00	33	1.62	209	1.67
72A	96	1.13	14	0.70	26	1.28	136	1.09
72F	56	0.66	17	0.85	8	0.39	81	0.65
72S	243	2.87	0	0.00	47	2.31	290	2.32
732	222	2.62	14	0.70	0	0.00	236	1.89
733	1166	13.76	894	44.95	659	32.32	2719	21.75
734	90	1.06	104	5.23	28	1.37	222	1.78
735	474	5.60	245	12.32	28	1.37	747	5.98
737	63	0.74	0	0.00	26	1.28	89	0.71
73A	292	3.45	0	0.00	12	0.59	304	2.43
73S	197	2.33	220	11.06	42	2.06	459	3.67
742	40	0.47	0	0.00	0	0.00	40	0.32
743	2	0.02	0	0.00	0	0.00	2	0.02
744	98	1.16	0	0.00	0	0.00	98	0.78
747	136	1.61	0	0.00	0	0.00	136	1.09
74D	8	0.09	0	0.00	0	0.00	8	0.06
74E	15	0.18	0	0.00	0	0.00	15	0.12
74F	57	0.67	10	0.50	0	0.00	67	0.54
74L	10	0.12	0	0.00	0	0.00	10	0.08
74M	7	0.08	0	0.00	0	0.00	7	0.06
757	924	10.91	40	2.01	54	2.65	1018	8.14
75F	0	0.00	10	0.50	10	0.49	20	0.16
762	98	1.16	0	0.00	0	0.00	98	0.78
763	161	1.90	0	0.00	0	0.00	161	1.29
767	188	2.22	0	0.00	14	0.69	202	1.62
AB3	103	1.22	0	0.00	0	0.00	103	0.82
BE1	205	2.42	0	0.00	0	0.00	205	1.64
BEC	0	0.00	10	0.50	0	0.00	10	0.08
CNA	10	0.12	0	0.00	0	0.00	10	0.08
D10	147	1.74	0	0.00	28	1.37	175	1.40
D11	220	2.60	0	0.00	0	0.00	220	1.76
D1C	70	0.83	0	0.00	0	0.00	70	0.56
D1F	0	0.00	15	0.75	0	0.00	15	0.12
D8F	3	0.04	72	3.62	10	0.49	85	0.68
D9F	0	0.00	0	0.00	10	0.49	10	0.08
DH7	0	0.00	10	0.50	0	0.00	10	0.08
EM2	792	9.35	100	5.03	82	4.02	974	7.79
IL6	6	0.07	0	0.00	0	0.00	6	0.05
J31	1046	12.35	0	0.00	90	4.41	1136	9.09
L10	115	1.36	0	0.00	0	0.00	115	0.92
L11	28	0.33	0	0.00	0	0.00	28	0.22
L15	14	0.17	0	0.00	0	0.00	14	0.11
LOF	0	0.00	20	1.01	0	0.00	20	0.16
M11	0	0.00	0	0.00	12	0.59	12	0.10
M1F	26	0.31	0	0.00	0	0.00	26	0.21
M80	742	8.76	186	9.35	806	39.53	1734	13.87
M83	35	0.41	0	0.00	0	0.00	35	0.28
PAG	10	0.12	8	0.40	0	0.00	18	0.14
SF3	80	0.94	0	0.00	0	0.00	80	0.64
SWM	0	0.00	0	0.00	14	0.69	14	0.11
Total	8471	67.77	1989	15.91	2039	16.31	12499	

Narrow Body Fleet

Average Daily Takeoffs and Landings for Entire Bay Area

Quarter	NARRROW			BODY	AIRCRAFT			TOTAL	
	2 engine			3 engine	4 engine				
	737; 757	DC9; 320	MD-80	Total	B727	DC-8	BAC 146		Total
1Q83	180	62	172	414	309	25	0	25	748
2Q83	183	68	173	424	330	24	0	24	778
3Q83	193	100	190	483	309	26	0	26	818
4Q83	243	98	190	531	325	22	0	22	878
1Q84	268	94	203	565	335	19	0	19	919
2Q84	250	89	214	553	341	17	0	17	911
3Q84	280	72	247	599	362	22	26	48	1,009
4Q84	296	67	242	605	342	16	23	39	986
1Q85	317	38	233	588	333	17	38	55	976
2Q85	341	39	196	576	348	17	38	55	979
3Q85	370	41	224	635	353	16	40	56	1,044
4Q85	391	29	217	637	329	16	64	80	1,046
1Q86	412	26	206	644	300	19	106	125	1,069
2Q86	386	61	192	639	309	14	131	145	1,093
3Q86	418	60	247	725	329	20	156	176	1,230
2Q87	426	71	275	772	280	33	206	239	1,291
1Q88	420	60	303	783	259	28	231	259	1,301
2Q88	372	45	322	739	235	25	183	208	1,182
2Q89	464	0	272	736	220	19	161	180	1,136
3Q90	706	5	171	882	195	32	147	179	1,256
4Q90	739	5	133	877	187	26	152	178	1,242
1Q91	747	7	150	904	167	26	111	137	1,208
2Q91	760	2	143	905	144	30	127	157	1,206
3Q91	791	8	224	1,023	151	30	42	72	1,246
4Q91	691	10	230	931	142	22	33	55	1,128
1Q92	709	10	229	948	135	17	31	48	1,131
2Q92	680	17	244	941	120	14	32	46	1,107
3Q92	711	13	260	984	132	11	17	28	1,144
4Q92	705	26	261	992	99	13	17	30	1,121
1Q93	674	29	264	967	103	8	15	23	1,093
2Q93	667	29	271	967	102	10	16	26	1,095
3Q93	793	30	258	1,081	93	12	0	12	1,186
4Q93	826	31	253	1,110	72	12	0	12	1,194

OAG Aircraft codes used are as follows:

B757 757, 75F
 B727 727, 72A, 72F, 72S
 B737 732, 733, 734, 735, 737, 73A, 73S

Data unavailable for 4Q86, 1Q87, 3Q87, 4Q87, 3Q88-1Q89, and 3Q89-2Q90.

Data are obtained from the Official Airline Guide, and are based on the first month of each quarter.

Wide Body Fleet

Average Daily Takeoffs and Landings for Entire Bay Area

Quarter	WIDE BODY AIRCRAFT							
	2 engine			3 engine			4 engine	
	Airbus	767	Total	DC-10	L-1011	Total	B747	TOTAL
1Q83	6	10	16			84	49	149
2Q83	6	13	19			82	49	150
3Q83	8	19	27			110	44	181
4Q83	8	19	27			94	38	159
1Q84	6	20	26			85	52	163
2Q84	6	20	26			85	52	163
3Q84	6	20	26			115	52	193
4Q84	6	20	26			109	50	185
1Q85	7	21	28			96	51	175
2Q85	9	22	31			91	54	176
3Q85	11	36	47			102	61	210
4Q85	17	26	43			103	58	204
1Q86	14	26	40			95	60	195
2Q86	7	28	35			98	57	190
3Q86	13	24	37			122	59	218
2Q87	13	39	52			86	60	198
1Q88	10	47	57			99	56	212
2Q88	10	53	63			91	56	210
2Q89	11	60	71	63	24	87	60	218
3Q90	22	63	85	82	30	112	60	257
4Q90	22	54	76	77	30	107	59	242
1Q91	18	45	63	72	22	94	51	208
2Q91	17	48	65	63	13	76	52	193
3Q91	13	48	61	71	29	100	60	221
4Q91	26	47	73	76	38	114	49	236
1Q92	24	54	78	67	25	92	48	218
2Q92	15	59	74	71	25	96	46	216
3Q92	15	70	85	76	35	111	48	244
4Q92	19	53	72	73	35	108	55	235
1Q93	19	50	69	82	21	103	52	224
2Q93	15	55	70	74	20	94	57	221
3Q93	26	58	84	74	22	96	56	236
4Q93	15	67	82	69	20	89	55	226

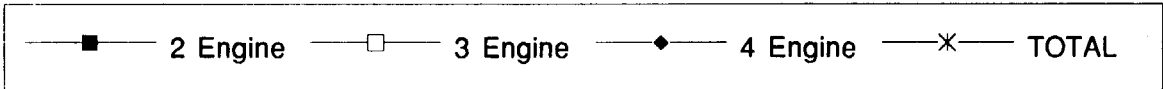
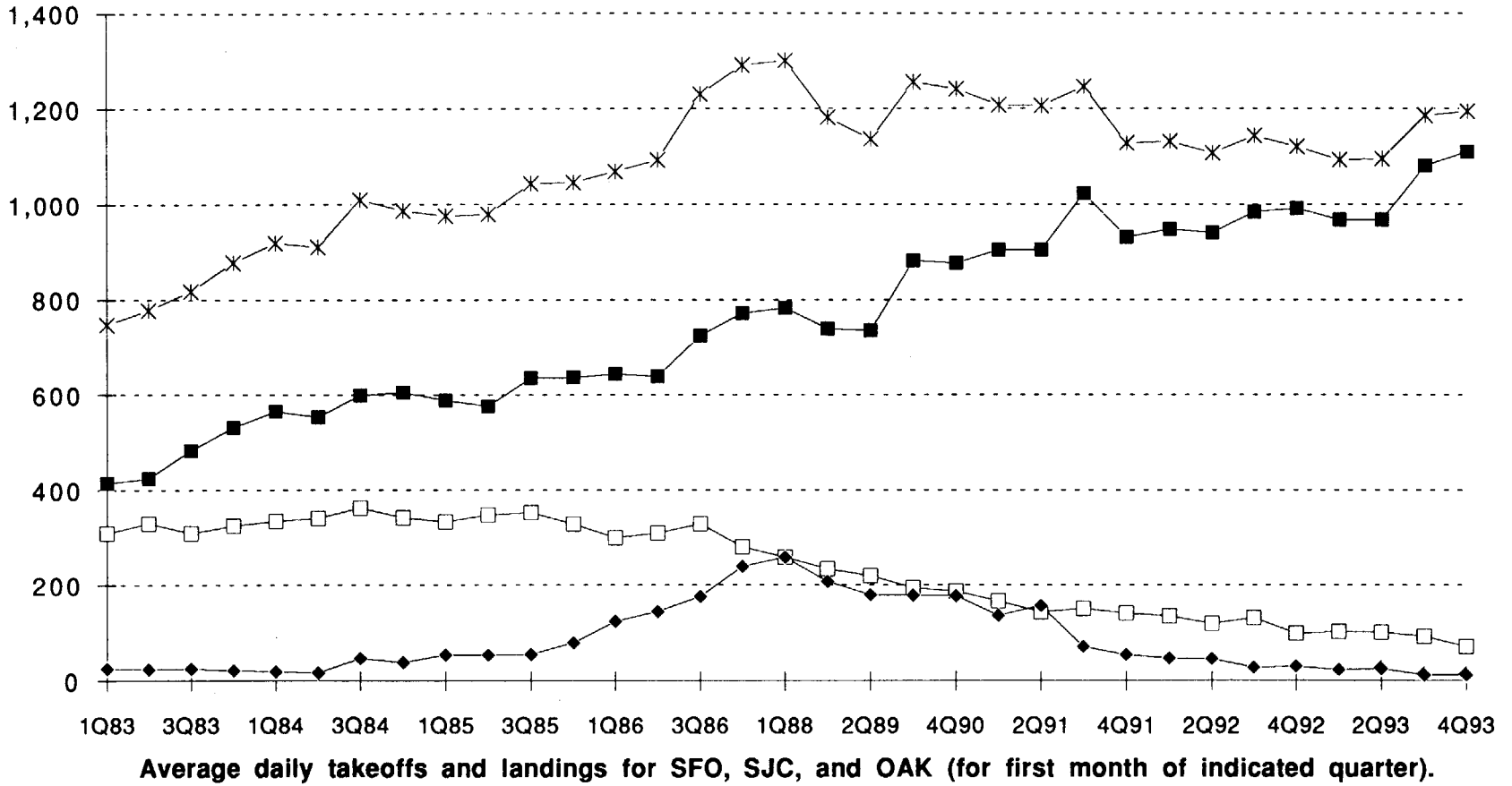
OAG Aircraft codes used are as follows:

- Airbus 310, AB3
- DC-10 D10, D11, D1C, D1F
- L-1011 L10, L11
- B747 742, 744, 747, 74E, 74F, 74L, 74M
- B767 762, 763, 767

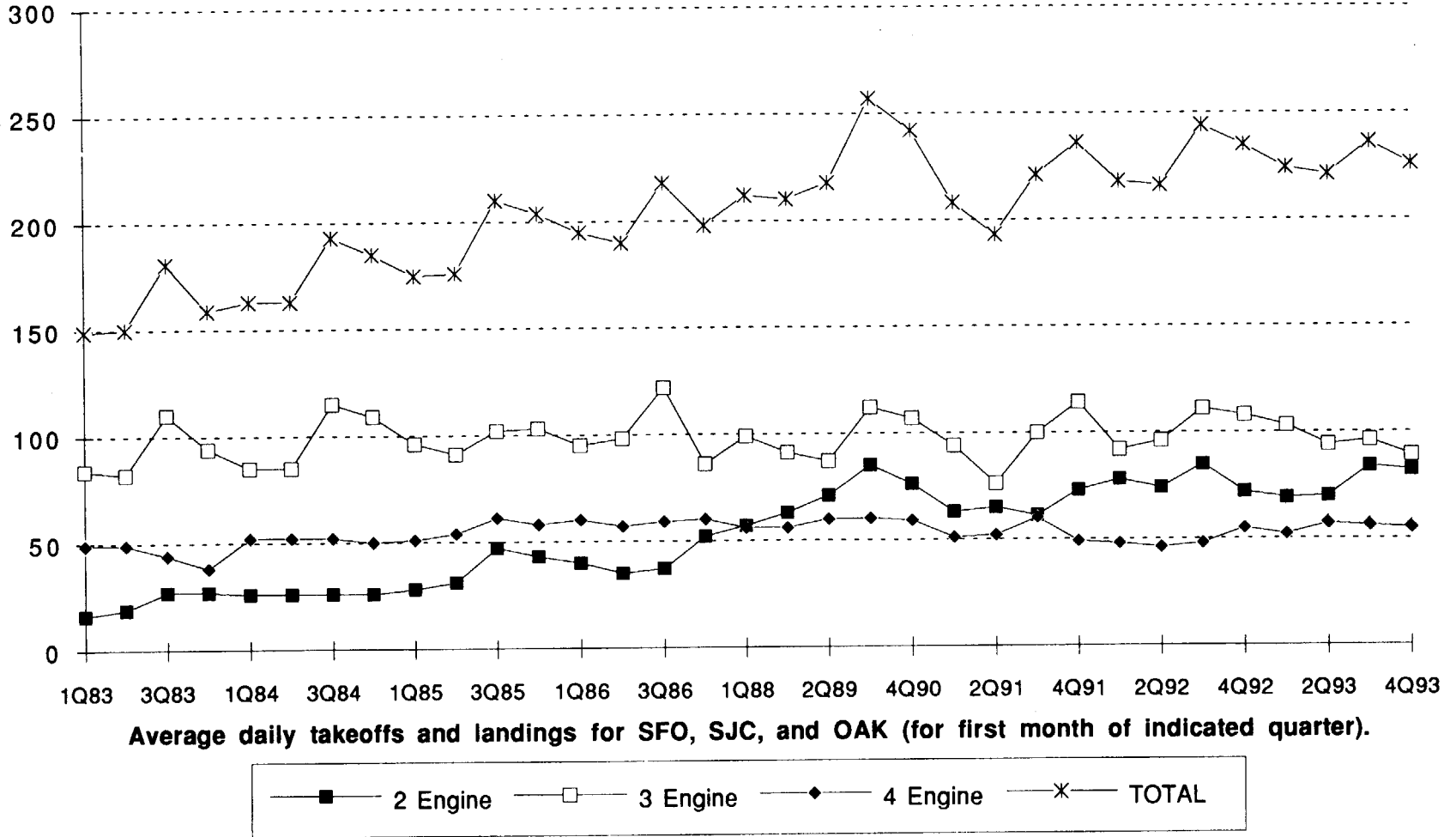
Data unavailable for 4Q86, 1Q87, 3Q87, 4Q87, 3Q88-1Q89, and 3Q89-2Q90.

Data are obtained from the Official Airline Guide, and are based on the first month of each quarter.

Narrow Body Jets



Wide Body Jets



SECTION V

**Airline Operations
by Time of Day**

AIRLINE OPERATIONS BY TIME OF DAY
 Number of Arrivals and Departures by Hour
 SFO Operations Per Week for 7/93
 ALL Aircraft

Time	Arrivals	%	Departures	%	Total	%
07	124	2.79	250	5.71	374	4.24
08	248	5.59	368	8.40	616	6.98
09	168	3.78	285	6.50	453	5.14
10	400	9.01	303	6.91	703	7.97
11	299	6.74	327	7.46	626	7.10
12	308	6.94	399	9.11	707	8.01
13	224	5.05	369	8.42	593	6.72
14	282	6.35	210	4.79	492	5.58
15	259	5.83	206	4.70	465	5.27
16	267	6.01	273	6.23	540	6.12
17	298	6.71	191	4.36	489	5.54
18	232	5.23	267	6.09	499	5.66
Subtotal	3109	70.04	3448	78.69	6557	74.33
19	342	7.70	151	3.45	493	5.59
20	401	9.03	120	2.74	521	5.91
21	246	5.54	231	5.27	477	5.41
Subtotal	989	22.28	502	11.46	1491	16.90
22	100	2.25	125	2.85	225	2.55
23	88	1.98	46	1.05	134	1.52
00	54	1.22	21	0.48	75	0.85
01	7	0.16	49	1.12	56	0.63
02	13	0.29	13	0.30	26	0.29
03	5	0.11	9	0.21	14	0.16
04	1	0.02	1	0.02	2	0.02
05	19	0.43	1	0.02	20	0.23
06	54	1.22	167	3.81	221	2.51
Subtotal	341	7.68	432	9.86	773	8.76
Total	4439	50.32	4382	49.68	8821	

AIRLINE OPERATIONS BY TIME OF DAY
Number of Arrivals and Departures by Hour
SFO Operations Per Week for 10/93
JET Aircraft

Time	Arrivals	%	Departures	%	Total	%
07	21	0.78	145	5.40	166	3.09
08	137	5.09	260	9.69	397	7.39
09	116	4.31	216	8.05	332	6.18
10	177	6.58	187	6.97	364	6.77
11	204	7.59	152	5.66	356	6.63
12	184	6.84	301	11.21	485	9.03
13	129	4.80	197	7.34	326	6.07
14	162	6.02	118	4.40	280	5.21
15	157	5.84	114	4.25	271	5.04
16	168	6.25	170	6.33	338	6.29
17	176	6.55	89	3.32	265	4.93
18	123	4.57	156	5.81	279	5.19
Subtotal	1754	65.23	2105	78.43	3859	71.82
19	229	8.52	94	3.50	323	6.01
20	252	9.37	83	3.09	335	6.23
21	251	9.33	88	3.28	339	6.31
Subtotal	732	27.22	265	9.87	997	18.56
22	70	2.60	82	3.06	152	2.83
23	45	1.67	42	1.56	87	1.62
00	40	1.49	14	0.52	54	1.01
01	7	0.26	35	1.30	42	0.78
02	7	0.26	3	0.11	10	0.19
03	5	0.19	4	0.15	9	0.17
04	1	0.04	0	0.00	1	0.02
05	12	0.45	8	0.30	20	0.37
06	16	0.60	126	4.69	142	2.64
Subtotal	203	7.55	314	11.70	517	9.62
Total	2689	50.05	2684	49.95	5373	

AIRLINE OPERATIONS BY TIME OF DAY
Number of Arrivals and Departures by Hour
SJC Operations Per Week for 10/93
ALL Aircraft

Time	Arrivals	%	Departures	%	Total	%
07	33	3.24	88	8.61	121	5.93
08	52	5.11	61	5.97	113	5.54
09	61	6.00	91	8.90	152	7.45
10	60	5.90	55	5.38	115	5.64
11	56	5.51	42	4.11	98	4.81
12	77	7.57	62	6.07	139	6.82
13	75	7.37	112	10.96	187	9.17
14	49	4.82	54	5.28	103	5.05
15	47	4.62	47	4.60	94	4.61
16	54	5.31	34	3.33	88	4.32
17	95	9.34	79	7.73	174	8.53
18	82	8.06	70	6.85	152	7.45
Subtotal	741	72.86	795	77.79	1536	75.33
19	41	4.03	46	4.50	87	4.27
20	65	6.39	32	3.13	97	4.76
21	102	10.03	19	1.86	121	5.93
Subtotal	208	20.45	97	9.49	305	14.96
22	43	4.23	49	4.79	92	4.51
23	25	2.46	14	1.37	39	1.91
00	0	0.00	0	0.00	0	0.00
01	0	0.00	0	0.00	0	0.00
02	0	0.00	0	0.00	0	0.00
03	0	0.00	0	0.00	0	0.00
04	0	0.00	0	0.00	0	0.00
05	0	0.00	0	0.00	0	0.00
06	0	0.00	67	6.56	67	3.29
Subtotal	68	6.69	130	12.72	198	9.71
Total	1017	49.88	1022	50.12	2039	

AIRLINE OPERATIONS BY TIME OF DAY
 Number of Arrivals and Departures by Hour
 SJC Operations Per Week for 10/93
 JET Aircraft

Time	Arrivals	%	Departures	%	Total	%
07	27	3.05	81	9.16	108	6.10
08	52	5.87	48	5.43	100	5.65
09	47	5.30	84	9.50	131	7.40
10	47	5.30	48	5.43	95	5.37
11	42	4.74	21	2.38	63	3.56
12	63	7.11	35	3.96	98	5.54
13	75	8.47	112	12.67	187	10.56
14	35	3.95	41	4.64	76	4.29
15	47	5.30	47	5.32	94	5.31
16	48	5.42	28	3.17	76	4.29
17	76	8.58	65	7.35	141	7.97
18	82	9.26	70	7.92	152	8.59
Subtotal	641	72.35	680	76.92	1321	74.63
19	34	3.84	41	4.64	75	4.24
20	59	6.66	20	2.26	79	4.46
21	90	10.16	19	2.15	109	6.16
Subtotal	183	20.65	80	9.05	263	14.86
22	43	4.85	49	5.54	92	5.20
23	19	2.14	14	1.58	33	1.86
00	0	0.00	0	0.00	0	0.00
01	0	0.00	0	0.00	0	0.00
02	0	0.00	0	0.00	0	0.00
03	0	0.00	0	0.00	0	0.00
04	0	0.00	0	0.00	0	0.00
05	0	0.00	0	0.00	0	0.00
06	0	0.00	61	6.90	61	3.45
Subtotal	62	7.00	124	14.03	186	10.51
Total	886	50.06	884	49.94	1770	

AIRLINE OPERATIONS BY TIME OF DAY
 Number of Arrivals and Departures by Hour
 OAK Operations Per Week for 10/93
 ALL Aircraft

Time	Arrivals	%	Departures	%	Total	%
07	25	2.51	57	5.75	82	4.12
08	63	6.31	77	7.77	140	7.04
09	58	5.81	70	7.06	128	6.44
10	42	4.21	48	4.84	90	4.52
11	34	3.41	56	5.65	90	4.52
12	75	7.52	35	3.53	110	5.53
13	70	7.01	76	7.67	146	7.34
14	55	5.51	76	7.67	131	6.59
15	75	7.52	46	4.64	121	6.08
16	36	3.61	68	6.86	104	5.23
17	79	7.92	48	4.84	127	6.39
18	102	10.22	61	6.16	163	8.20
Subtotal	714	71.54	718	72.45	1432	72.00
19	41	4.11	85	8.58	126	6.33
20	80	8.02	36	3.63	116	5.83
21	43	4.31	19	1.92	62	3.12
Subtotal	164	16.43	140	14.13	304	15.28
22	44	4.41	12	1.21	56	2.82
23	28	2.81	12	1.21	40	2.01
00	0	0.00	0	0.00	0	0.00
01	5	0.50	5	0.50	10	0.50
02	5	0.50	6	0.61	11	0.55
03	18	1.80	2	0.20	20	1.01
04	4	0.40	4	0.40	8	0.40
05	7	0.70	16	1.61	23	1.16
06	9	0.90	76	7.67	85	4.27
Subtotal	120	12.02	133	13.42	253	12.72
Total	998	50.18	991	49.82	1989	

AIRLINE OPERATIONS BY TIME OF DAY
Number of Arrivals and Departures by Hour
OAK Operations Per Week for 10/93
JET Aircraft

Time	Arrivals	%	Departures	%	Total	%
07	25	3.18	40	5.10	65	4.14
08	56	7.12	68	8.67	124	7.89
09	51	6.48	54	6.89	105	6.68
10	34	4.32	39	4.97	73	4.65
11	16	2.03	37	4.72	53	3.37
12	75	9.53	34	4.34	109	6.94
13	50	6.35	63	8.04	113	7.19
14	41	5.21	63	8.04	104	6.62
15	61	7.75	39	4.97	100	6.37
16	30	3.81	48	6.12	78	4.96
17	78	9.91	41	5.23	119	7.57
18	74	9.40	53	6.76	127	8.08
Subtotal	591	75.10	579	73.85	1170	74.47
19	28	3.56	67	8.55	95	6.05
20	54	6.86	23	2.93	77	4.90
21	36	4.57	17	2.17	53	3.37
Subtotal	118	14.99	107	13.65	225	14.32
22	24	3.05	5	0.64	29	1.85
23	26	3.30	12	1.53	38	2.42
00	0	0.00	0	0.00	0	0.00
01	0	0.00	0	0.00	0	0.00
02	0	0.00	1	0.13	1	0.06
03	14	1.78	1	0.13	15	0.95
04	4	0.51	4	0.51	8	0.51
05	1	0.13	12	1.53	13	0.83
06	9	1.14	63	8.04	72	4.58
Subtotal	78	9.91	98	12.50	176	11.20
Total	787	50.10	784	49.90	1571	

AIRLINE OPERATIONS BY TIME OF DAY
Number of Operations by Airline and Time of Day
SFO Arrivals Per Week for 10/93

Airline	Day	%	Evening	%	Night	%	Total	%
1J	6	0.20	0	0.00	0	0.00	6	0:14
AA	201	6.72	75	7.74	20	7.17	296	6.99
AC	7	0.23	14	1.44	0	0.00	21	0.50
AF	3	0.10	0	0.00	0	0.00	3	0.07
AS	90	3.01	20	2.06	0	0.00	110	2.60
BA	14	0.47	0	0.00	0	0.00	14	0.33
BF	21	0.70	7	0.72	0	0.00	28	0.66
BR	3	0.10	0	0.00	0	0.00	3	0.07
CA	3	0.10	0	0.00	0	0.00	3	0.07
CI	5	0.17	2	0.21	0	0.00	7	0.17
CO	164	5.49	129	13.31	13	4.66	306	7.22
CP	14	0.47	1	0.10	6	2.15	21	0.50
DL	121	4.05	98	10.11	28	10.04	247	5.83
ER	2	0.07	16	1.65	9	3.23	27	0.64
FF	1	0.03	0	0.00	0	0.00	1	0.02
FM	0	0.00	7	0.72	11	3.94	18	0.42
HA	0	0.00	7	0.72	0	0.00	7	0.17
HP	74	2.48	20	2.06	7	2.51	101	2.38
JL	10	0.33	0	0.00	0	0.00	10	0.24
KL	4	0.13	14	1.44	0	0.00	18	0.42
KZ	7	0.23	0	0.00	4	1.43	11	0.26
LH	7	0.23	0	0.00	0	0.00	7	0.17
LR	0	0.00	0	0.00	3	1.08	3	0.07
MX	11	0.37	12	1.24	0	0.00	23	0.54
NW	151	5.05	28	2.89	28	10.04	207	4.89
OZ	3	0.10	0	0.00	0	0.00	3	0.07
PR	2	0.07	6	0.62	0	0.00	8	0.19
QF	3	0.10	0	0.00	0	0.00	3	0.07
QQ	28	0.94	7	0.72	7	2.51	42	0.99
S1	2	0.07	0	0.00	0	0.00	2	0.05
SQ	0	0.00	7	0.72	1	0.36	8	0.19
SU	3	0.10	0	0.00	0	0.00	3	0.07
TA	0	0.00	0	0.00	7	2.51	7	0.17
TW	21	0.70	55	5.68	14	5.02	90	2.12
TZ	0	0.00	2	0.21	3	1.08	5	0.12
UA	1719	57.51	329	33.95	59	21.15	2107	49.73
US	181	6.06	92	9.49	46	16.49	319	7.53
WN	102	3.41	21	2.17	13	4.66	136	3.21
YX	6	0.20	0	0.00	0	0.00	6	0.14
Total	2989	71.00	969	23.00	279	7.00	4237	

AIRLINE OPERATIONS BY TIME OF DAY
Number of Operations by Airline and Time of Day
SFO Departures Per Week for 10/93

Airline	Day	%	Evening	%	Night	%	Total	%
1J	0	0.00	6	1.32	0	0.00	6	0.14
AA	228	6.76	13	2.85	48	11.91	289	6.83
AC	21	0.62	0	0.00	1	0.25	22	0.52
AF	3	0.09	0	0.00	0	0.00	3	0.07
AS	90	2.67	20	4.39	0	0.00	110	2.60
BA	14	0.41	0	0.00	0	0.00	14	0.33
BF	21	0.62	7	1.54	0	0.00	28	0.66
BR	3	0.09	0	0.00	0	0.00	3	0.07
CA	3	0.09	0	0.00	0	0.00	3	0.07
CI	5	0.15	1	0.22	1	0.25	7	0.17
CO	164	4.86	43	9.43	76	18.86	283	6.68
CP	21	0.62	0	0.00	0	0.00	21	0.50
DL	184	5.45	14	3.07	49	12.16	247	5.83
ER	9	0.27	6	1.32	12	2.98	27	0.64
FF	1	0.03	0	0.00	0	0.00	1	0.02
FM	5	0.15	0	0.00	13	3.23	18	0.43
HA	7	0.21	0	0.00	0	0.00	7	0.17
HP	81	2.40	13	2.85	7	1.74	101	2.39
JL	7	0.21	0	0.00	3	0.74	10	0.24
KL	20	0.59	4	0.88	0	0.00	24	0.57
KZ	5	0.15	0	0.00	6	1.49	11	0.26
LH	7	0.21	0	0.00	0	0.00	7	0.17
LR	0	0.00	0	0.00	3	0.74	3	0.07
MX	11	0.33	0	0.00	12	2.98	23	0.54
NW	185	5.48	11	2.41	26	6.45	222	5.24
OZ	3	0.09	0	0.00	0	0.00	3	0.07
PR	0	0.00	2	0.44	6	1.49	8	0.19
QF	0	0.00	6	1.32	0	0.00	6	0.14
QQ	35	1.04	0	0.00	7	1.74	42	0.99
S1	2	0.06	0	0.00	0	0.00	2	0.05
SQ	1	0.03	0	0.00	7	1.74	8	0.19
SU	3	0.09	0	0.00	0	0.00	3	0.07
TA	0	0.00	0	0.00	7	1.74	7	0.17
TW	77	2.28	7	1.54	7	1.74	91	2.15
TZ	5	0.15	0	0.00	0	0.00	5	0.12
UA	1803	53.42	231	50.66	73	18.11	2107	49.76
US	242	7.17	51	11.18	27	6.70	320	7.56
WN	103	3.05	21	4.61	12	2.98	136	3.21
YX	6	0.18	0	0.00	0	0.00	6	0.14
Total	3375	80.00	456	11.00	403	10.00	4234	

AIRLINE OPERATIONS BY TIME OF DAY
Number of Operations by Airline and Time of Day
SJC Arrivals Per Week for 10/93

Airline	Day	%	Evening	%	Night	%	Total	%
1F	5	0.67	0	0.00	0	0.00	5	0.49
5X	5	0.67	0	0.00	0	0.00	5	0.49
AA	141	19.03	40	19.23	7	10.29	188	18.49
AS	66	8.91	19	9.13	0	0.00	85	8.36
CO	14	1.89	14	6.73	0	0.00	28	2.75
DL	70	9.45	28	13.46	6	8.82	104	10.23
EB	5	0.67	0	0.00	0	0.00	5	0.49
FM	3	0.40	0	0.00	0	0.00	3	0.29
HP	33	4.45	6	2.88	0	0.00	39	3.83
KL	0	0.00	7	3.37	0	0.00	7	0.69
KN	21	2.83	0	0.00	7	10.29	28	2.75
MX	7	0.94	0	0.00	0	0.00	7	0.69
NW	7	0.94	7	3.37	0	0.00	14	1.38
QQ	133	17.95	21	10.10	21	30.88	175	17.21
TW	7	0.94	7	3.37	0	0.00	14	1.38
UA	81	10.93	25	12.02	7	10.29	113	11.11
WN	143	19.30	34	16.35	20	29.41	197	19.37
Total	741	73.00	208	20.00	68	7.00	1017	

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AIRLINE OPERATIONS BY TIME OF DAY
Number of Operations by Airline and Time of Day
SJC Departures Per Week for 10/93

Airline	Day	%	Evening	%	Night	%	Total	%
1F	0	0.00	5	5.15	0	0.00	5	0.49
5X	0	0.00	5	5.15	0	0.00	5	0.49
AA	155	19.50	0	0.00	33	25.38	188	18.40
AS	79	9.94	6	6.19	0	0.00	85	8.32
CO	21	2.64	0	0.00	7	5.38	28	2.74
DL	84	10.57	6	6.19	14	10.77	104	10.18
EB	4	0.50	1	1.03	0	0.00	5	0.49
FM	5	0.63	0	0.00	0	0.00	5	0.49
HP	39	4.91	0	0.00	0	0.00	39	3.82
KL	7	0.88	0	0.00	0	0.00	7	0.68
KN	21	2.64	7	7.22	0	0.00	28	2.74
MX	0	0.00	7	7.22	0	0.00	7	0.68
NW	14	1.76	0	0.00	0	0.00	14	1.37
QQ	126	15.85	14	14.43	35	26.92	175	17.12
TW	7	0.88	0	0.00	7	5.38	14	1.37
UA	80	10.06	6	6.19	27	20.77	113	11.06
WN	153	19.25	40	41.24	7	5.38	200	19.57
Total	795	78.00	97	9.00	130	13.00	1022	

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AIRLINE OPERATIONS BY TIME OF DAY
Number of Operations by Airline and Time of Day
OAK Arrivals Per Week for 10/93

Airline	Day	%	Evening	%	Night	%	Total	%
1F	10	1.40	0	0.00	5	4.17	15	1.50
5X	14	1.96	1	0.61	17	14.17	32	3.21
8W	1	0.14	0	0.00	8	6.67	9	0.90
AA	14	1.96	7	4.27	0	0.00	21	2.10
AS	98	13.73	12	7.32	0	0.00	110	11.02
DL	28	3.92	14	8.54	0	0.00	42	4.21
EB	10	1.40	0	0.00	0	0.00	10	1.00
FM	0	0.00	0	0.00	15	12.50	15	1.50
GD	0	0.00	7	4.27	0	0.00	7	0.70
HP	34	4.76	7	4.27	7	5.83	48	4.81
KN	77	10.78	0	0.00	7	5.83	84	8.42
UA	101	14.15	32	19.51	6	5.00	139	13.93
WN	327	45.80	83	50.61	45	37.50	455	45.59
XP	0	0.00	1	0.61	0	0.00	1	0.10
Y1	0	0.00	0	0.00	10	8.33	10	1.00
Total	714	72.00	164	16.00	120	12.00	998	

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AIRLINE OPERATIONS BY TIME OF DAY
 Number of Operations by Airline and Time of Day
 OAK Departures Per Week for 10/93

Airline	Day	%	Evening	%	Night	%	Total	%
1F	9	1.25	5	3.57	1	0.75	15	1.51
5X	0	0.00	7	5.00	25	18.80	32	3.23
8W	0	0.00	5	3.57	4	3.01	9	0.91
AA	14	1.95	0	0.00	7	5.26	21	2.12
AS	91	12.67	13	9.29	6	4.51	110	11.10
DL	35	4.87	0	0.00	7	5.26	42	4.24
EB	5	0.70	5	3.57	0	0.00	10	1.01
FM	0	0.00	5	3.57	0	0.00	5	0.50
GD	0	0.00	0	0.00	7	5.26	7	0.71
HP	34	4.74	7	5.00	7	5.26	48	4.84
KN	77	10.72	7	5.00	0	0.00	84	8.48
UA	100	13.93	6	4.29	33	24.81	139	14.03
WN	352	49.03	80	57.14	26	19.55	458	46.22
XP	1	0.14	0	0.00	0	0.00	1	0.10
Y1	0	0.00	0	0.00	10	7.52	10	1.01
Total	718	72.00	140	14.00	133	13.00	991	

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AIRLINE OPERATIONS BY TIME OF DAY
Number of Operations by Aircraft Type and Time of Day
SFO Arrivals Per Week for 10/93

Aircraft	Day	%	Evening	%	Night	%	Total
320	65	73.9	14	15.9	9	10.2	88
72A	41	85.4	7	14.6	0	0.0	48
72F	8	28.6	6	21.4	14	50.0	28
72S	64	57.7	40	36.0	7	6.3	111
732	111	100.0	0	0.0	0	0.0	111
733	411	71.7	108	18.8	54	9.4	573
734	38	84.4	7	15.6	0	0.0	45
735	186	78.5	45	19.0	6	2.5	237
737	27	79.4	1	2.9	6	17.6	34
73A	126	86.3	14	9.6	6	4.1	146
73S	81	85.3	14	14.7	0	0.0	95
742	13	65.0	6	30.0	1	5.0	20
744	41	85.4	7	14.6	0	0.0	48
747	41	60.3	21	30.9	6	8.8	68
74D	4	100.0	0	0.0	0	0.0	4
74E	9	100.0	0	0.0	0	0.0	9
74F	15	48.4	2	6.5	14	45.2	31
74L	5	100.0	0	0.0	0	0.0	5
74M	2	100.0	0	0.0	0	0.0	2
757	268	58.6	137	30.0	52	11.4	457
762	35	71.4	14	28.6	0	0.0	49
763	67	82.7	14	17.3	0	0.0	81
767	21	18.9	90	81.1	0	0.0	111
AB3	0	0.0	54	100.0	0	0.0	54
BE1	61	61.6	24	24.2	14	14.1	99
CNA	0	0.0	5	100.0	0	0.0	5
D10	44	61.1	21	29.2	7	9.7	72
D11	68	61.8	36	32.7	6	5.5	110
D1C	30	78.9	7	18.4	1	2.6	38
D8F	1	100.0	0	0.0	0	0.0	1
EM2	352	88.9	38	9.6	6	1.5	396
IL6	3	100.0	0	0.0	0	0.0	3
J31	437	83.6	66	12.6	20	3.8	523
L10	14	25.9	37	68.5	3	5.6	54
L11	0	0.0	7	100.0	0	0.0	7
L15	7	100.0	0	0.0	0	0.0	7
M1F	0	0.0	7	53.8	6	46.2	13
M80	252	64.9	109	28.1	27	7.0	388
M83	7	33.3	0	0.0	14	66.7	21
PAG	0	0.0	5	100.0	0	0.0	5
SF3	34	85.0	6	15.0	0	0.0	40
Total	2989	71.0	969	23.0	279	7.0	4237

AIRLINE OPERATIONS BY TIME OF DAY
 Number of Operations by Aircraft Type and Time of Day
 SFO Departures Per Week for 10/93

Aircraft	Day	%	Evening	%	Night	%	Total
320	65	73.9	0	0.0	23	26.1	88
72A	42	87.5	0	0.0	6	12.5	48
72F	12	42.9	12	42.9	4	14.3	28
72S	104	78.8	0	0.0	28	21.2	132
732	111	100.0	0	0.0	0	0.0	111
733	460	77.6	87	14.7	46	7.8	593
734	38	84.4	7	15.6	0	0.0	45
735	199	84.0	26	11.0	12	5.1	237
737	29	100.0	0	0.0	0	0.0	29
73A	125	85.6	21	14.4	0	0.0	146
73S	88	86.3	14	13.7	0	0.0	102
742	19	95.0	1	5.0	0	0.0	20
743	0	0.0	2	100.0	0	0.0	2
744	43	86.0	0	0.0	7	14.0	50
747	49	72.1	6	8.8	13	19.1	68
74D	0	0.0	4	100.0	0	0.0	4
74E	6	100.0	0	0.0	0	0.0	6
74F	9	34.6	2	7.7	15	57.7	26
74L	5	100.0	0	0.0	0	0.0	5
74M	5	100.0	0	0.0	0	0.0	5
757	323	69.2	41	8.8	103	22.1	467
762	42	85.7	0	0.0	7	14.3	49
763	70	87.5	3	3.7	7	8.8	80
767	70	90.9	0	0.0	7	9.1	77
AB3	42	85.7	0	0.0	7	14.3	49
BE1	82	77.4	18	17.0	6	5.7	106
CNA	1	20.0	0	0.0	4	80.0	5
D10	69	92.0	6	8.0	0	0.0	75
D11	104	94.5	6	5.5	0	0.0	110
D1C	8	25.0	24	75.0	0	0.0	32
D8F	1	50.0	0	0.0	1	50.0	2
EM2	340	85.9	56	14.1	0	0.0	396
IL6	3	100.0	0	0.0	0	0.0	3
J31	444	84.9	73	14.0	6	1.1	523
L10	54	88.5	0	0.0	7	11.5	61
L11	21	100.0	0	0.0	0	0.0	21
L15	7	100.0	0	0.0	0	0.0	7
M1F	0	0.0	0	0.0	13	100.0	13
M80	250	70.6	34	9.6	70	19.8	354
M83	0	0.0	7	50.0	7	50.0	14
PAG	1	20.0	0	0.0	4	80.0	5
SF3	34	85.0	6	15.0	0	0.0	40
Total	3375	80.0	456	11.0	403	10.0	4234

Airport Noise Level = 93.37 DBA

AIRLINE OPERATIONS BY TIME OF DAY
 Number of Operations by Aircraft Type and Time of Day
 SJC Arrivals Per Week for 10/93

Aircraft	Day	%	Evening	%	Night	%	Total
320	7	53.8	6	46.2	0	0.0	13
72A	7	53.8	6	46.2	0	0.0	13
72F	3	100.0	0	0.0	0	0.0	3
72S	19	70.4	8	29.6	0	0.0	27
733	226	68.9	68	20.7	34	10.4	328
734	14	100.0	0	0.0	0	0.0	14
735	14	100.0	0	0.0	0	0.0	14
737	13	100.0	0	0.0	0	0.0	13
73A	6	100.0	0	0.0	0	0.0	6
73S	21	100.0	0	0.0	0	0.0	21
757	7	25.9	20	74.1	0	0.0	27
75F	5	100.0	0	0.0	0	0.0	5
767	7	100.0	0	0.0	0	0.0	7
D10	14	100.0	0	0.0	0	0.0	14
D8F	5	100.0	0	0.0	0	0.0	5
D9F	5	100.0	0	0.0	0	0.0	5
EM2	28	68.3	7	17.1	6	14.6	41
J31	33	73.3	12	26.7	0	0.0	45
M11	6	100.0	0	0.0	0	0.0	6
M80	294	73.0	81	20.1	28	6.9	403
SWM	7	100.0	0	0.0	0	0.0	7
Total	741	73.0	208	20.0	68	7.0	1017

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AIRLINE OPERATIONS BY TIME OF DAY
Number of Operations by Aircraft Type and Time of Day
SJC Departures Per Week for 10/93

<u>Aircraft</u>	<u>Day</u>	<u>%</u>	<u>Evening</u>	<u>%</u>	<u>Night</u>	<u>%</u>	<u>Total</u>
320	20	100.0	0	0.0	0	0.0	20
72A	13	100.0	0	0.0	0	0.0	13
72F	5	100.0	0	0.0	0	0.0	5
72S	13	65.0	7	35.0	0	0.0	20
733	235	71.0	47	14.2	49	14.8	331
734	14	100.0	0	0.0	0	0.0	14
735	14	100.0	0	0.0	0	0.0	14
737	13	100.0	0	0.0	0	0.0	13
73A	6	100.0	0	0.0	0	0.0	6
73S	21	100.0	0	0.0	0	0.0	21
757	20	74.1	0	0.0	7	25.9	27
75F	0	0.0	5	100.0	0	0.0	5
767	7	100.0	0	0.0	0	0.0	7
D10	14	100.0	0	0.0	0	0.0	14
D8F	4	80.0	1	20.0	0	0.0	5
D9F	0	0.0	5	100.0	0	0.0	5
EM2	35	85.4	6	14.6	0	0.0	41
J31	33	73.3	6	13.3	6	13.3	45
M11	6	100.0	0	0.0	0	0.0	6
M80	315	78.2	20	5.0	68	16.9	403
SWM	7	100.0	0	0.0	0	0.0	7
Total	795	78.0	97	9.0	130	13.0	1022

Airport Noise Level = 84.50 DBA

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AIRLINE OPERATIONS BY TIME OF DAY
 Number of Operations by Aircraft Type and Time of Day
 OAK Arrivals Per Week for 10/93

Aircraft	Day	%	Evening	%	Night	%	Total
72A	7	100.0	0	0.0	0	0.0	7
72F	0	0.0	0	0.0	11	100.0	11
732	7	100.0	0	0.0	0	0.0	7
733	344	77.1	62	13.9	40	9.0	446
734	52	100.0	0	0.0	0	0.0	52
735	77	63.1	34	27.9	11	9.0	122
73S	80	72.7	22	20.0	8	7.3	110
74F	5	100.0	0	0.0	0	0.0	5
757	13	65.0	7	35.0	0	0.0	20
75F	0	0.0	0	0.0	5	100.0	5
BEC	5	100.0	0	0.0	0	0.0	5
D1F	0	0.0	0	0.0	10	100.0	10
D8F	16	44.4	1	2.8	19	52.8	36
DH7	5	100.0	0	0.0	0	0.0	5
EM2	32	64.0	12	24.0	6	12.0	50
LOF	0	0.0	0	0.0	10	100.0	10
M80	67	72.0	26	28.0	0	0.0	93
PAG	4	100.0	0	0.0	0	0.0	4
Total	714	72.0	164	16.0	120	12.0	998

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AIRLINE OPERATIONS BY TIME OF DAY
 Number of Operations by Aircraft Type and Time of Day
 OAK Departures Per Week for 10/93

Aircraft	Day	%	Evening	%	Night	%	Total
72A	7	100.0	0	0.0	0	0.0	7
72F	0	0.0	2	33.3	4	66.7	6
732	1	14.3	0	0.0	6	85.7	7
733	357	79.7	71	15.8	20	4.5	448
734	52	100.0	0	0.0	0	0.0	52
735	87	70.7	22	17.9	14	11.4	123
73S	88	80.0	1	0.9	21	19.1	110
74F	0	0.0	0	0.0	5	100.0	5
757	7	35.0	0	0.0	13	65.0	20
75F	0	0.0	0	0.0	5	100.0	5
BEC	5	100.0	0	0.0	0	0.0	5
D1F	0	0.0	5	100.0	0	0.0	5
D8F	0	0.0	20	55.6	16	44.4	36
DH7	5	100.0	0	0.0	0	0.0	5
EM2	38	76.0	6	12.0	6	12.0	50
LOF	0	0.0	0	0.0	10	100.0	10
M80	67	72.0	13	14.0	13	14.0	93
PAG	4	100.0	0	0.0	0	0.0	4
Total	718	72.0	140	14.0	133	13.0	991

Airport Noise Level = 98.09 DBA

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SECTION VI

Airline Activity Trends

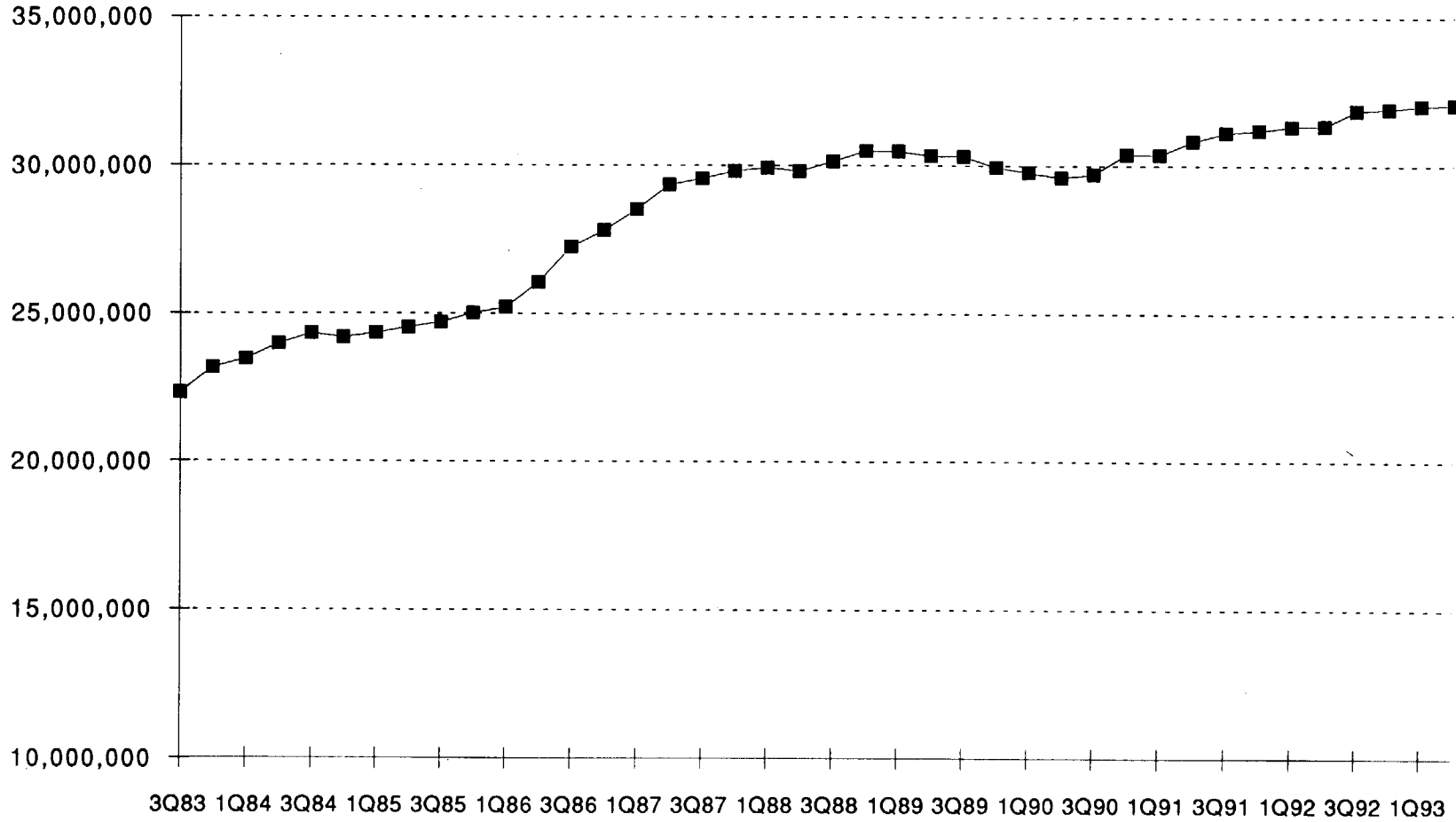
San Francisco Airport Activity

Quarter/Year	On and Off Air Passengers	Certificated Air Carrier Op'ns	Commuter/Taxi Operations
3Q83	22,317,790	231,450	64,720
4Q83	23,166,500	242,330	68,290
1Q84	23,457,550	252,530	72,260
2Q84	23,967,190	262,080	73,680
3Q84	24,321,670	270,810	75,300
4Q84	24,192,900	273,160	75,320
1Q85	24,337,490	274,420	74,550
2Q85	24,531,350	266,300	75,350
3Q85	24,700,580	267,190	73,630
4Q85	25,018,400	272,110	72,960
1Q86	25,214,550	278,790	70,020
2Q86	26,060,570	298,080	66,640
3Q86	27,257,780	308,290	67,880
4Q86	27,813,600	316,420	69,270
1Q87	28,521,240	324,050	72,050
2Q87	29,352,800	327,430	77,960
3Q87	29,557,000	329,210	82,920
4Q87	29,814,059	330,150	89,270
1Q88	29,932,810	327,580	99,750
2Q88	29,820,070	326,106	104,304
3Q88	30,136,242	322,018	104,897
4Q88	30,506,167	318,233	100,895
1Q89	30,487,333	316,537	94,049
2Q89	30,336,238	314,681	89,792
3Q89	30,306,109	311,430	85,209
4Q89	29,939,835	309,126	83,595
1Q90	29,769,116	306,010	82,232
2Q90	29,600,375	306,495	79,029
3Q90	29,708,779	314,070	77,807
4Q90	30,387,922	318,658	78,866
1Q91	30,373,612	318,780	79,680
2Q91	30,832,646	316,896	82,248
3Q91	31,128,136	310,013	85,969
4Q91	31,197,209	302,381	88,682
1Q92	31,340,599	297,846	90,833
2Q92	31,349,841	294,396	90,841
3Q92	31,872,269	292,782	91,898
4Q92	31,924,434	293,047	92,383
1Q93	32,022,456	291,137	95,375
2Q93	32,073,518	290,011	98,403

Data for the 12 month period ending on the last day of the indicated quarter.
 The numbers reported above differ from "terminal passenger" data published by SFO,
 which include passengers on flights that stop at SFO and continue onward elsewhere.

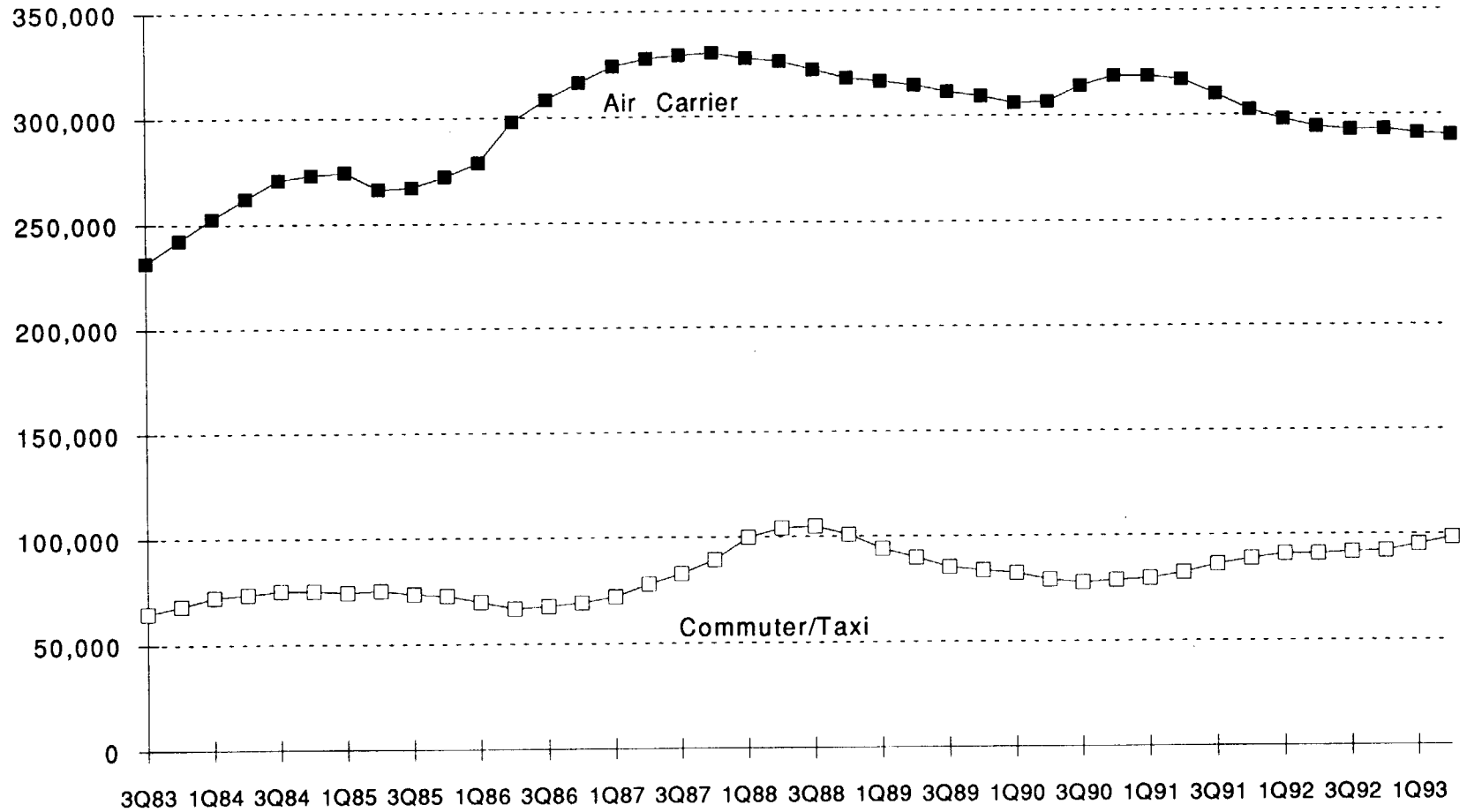
Source: San Francisco International Airport Monthly Activity Reports.

SFO Annual Passengers



Data for the 12 month period ending on the last day of the indicated quarter.

SFO Annual Operations



Data for the 12 month period ending on the last day of the indicated quarter.

San Jose Airport Activity

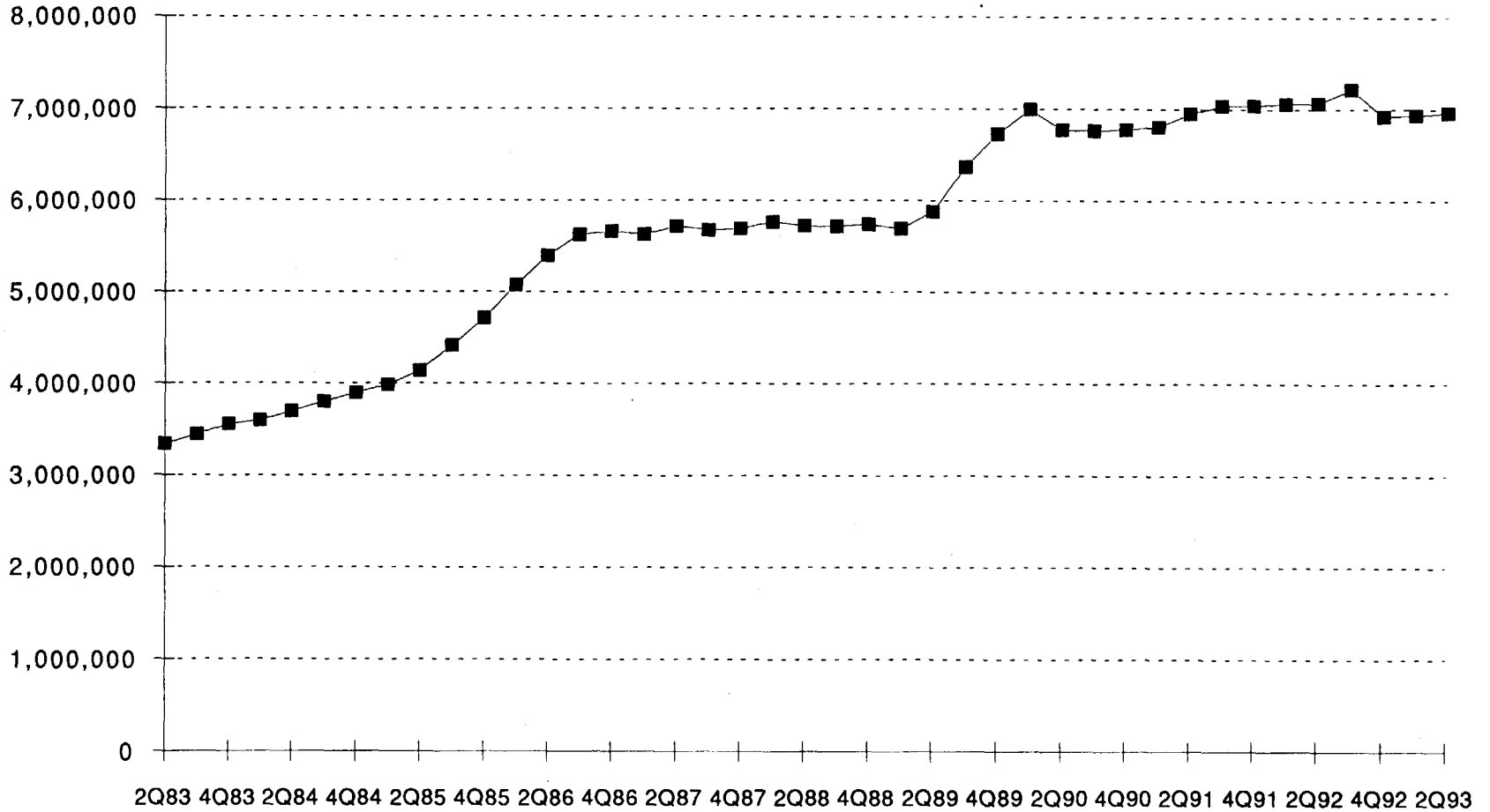
Quarter/Year	On and Off Air Passengers	Certificated Air Carrier Op'ns	Commuter/Taxi Operations
2Q83	3,339,860	52,190	13,450
3Q83	3,438,640	54,720	13,260
4Q83	3,550,370	57,550	15,550
1Q84	3,597,740	60,130	16,780
2Q84	3,696,900	62,180	17,790
3Q84	3,798,670	64,870	18,000
4Q84	3,900,200	66,270	16,740
1Q85	3,984,680	67,520	16,520
2Q85	4,141,940	69,430	16,380
3Q85	4,413,770	72,590	16,650
4Q85	4,708,880	75,210	17,540
1Q86	5,077,890	79,080	16,330
2Q86	5,399,130	83,810	15,230
3Q86	5,625,800	85,800	15,220
4Q86	5,659,140	88,640	13,820
1Q87	5,629,820	89,570	13,530
2Q87	5,715,910	89,950	12,880
3Q87	5,680,210	91,020	11,680
4Q87	5,693,944	92,838	13,820
1Q88	5,767,316	92,440	15,560
2Q88	5,725,946	98,990	17,052
3Q88	5,715,759	98,160	18,230
4Q88	5,744,223	96,954	17,816
1Q89	5,689,991	95,560	20,106
2Q89	5,875,739	94,882	24,174
3Q89	6,365,314	96,634	30,346
4Q89	6,726,558	97,172	35,884
1Q90	6,991,293	96,626	40,400
2Q90	6,771,897	95,994	44,984
3Q90	6,767,842	95,778	48,550
4Q90	6,774,567	96,044	52,014
1Q91	6,807,457	96,066	53,180
2Q91	6,948,178	97,421	52,596
3Q91	7,037,758	96,383	51,500
4Q91	7,044,942	94,906	50,742
1Q92	7,058,650	93,308	50,498
2Q92	7,066,975	89,574	51,002
3Q92	7,216,602	87,982	50,680
4Q92	6,923,975	86,240	48,070
1Q93	6,935,381	83,840	47,830
2Q93	6,961,601	83,258	47,184

Data for the 12 month period ending on the last day of the indicated quarter.

These numbers include connecting passengers, which SJC has reported separately beginning before 2Q90.

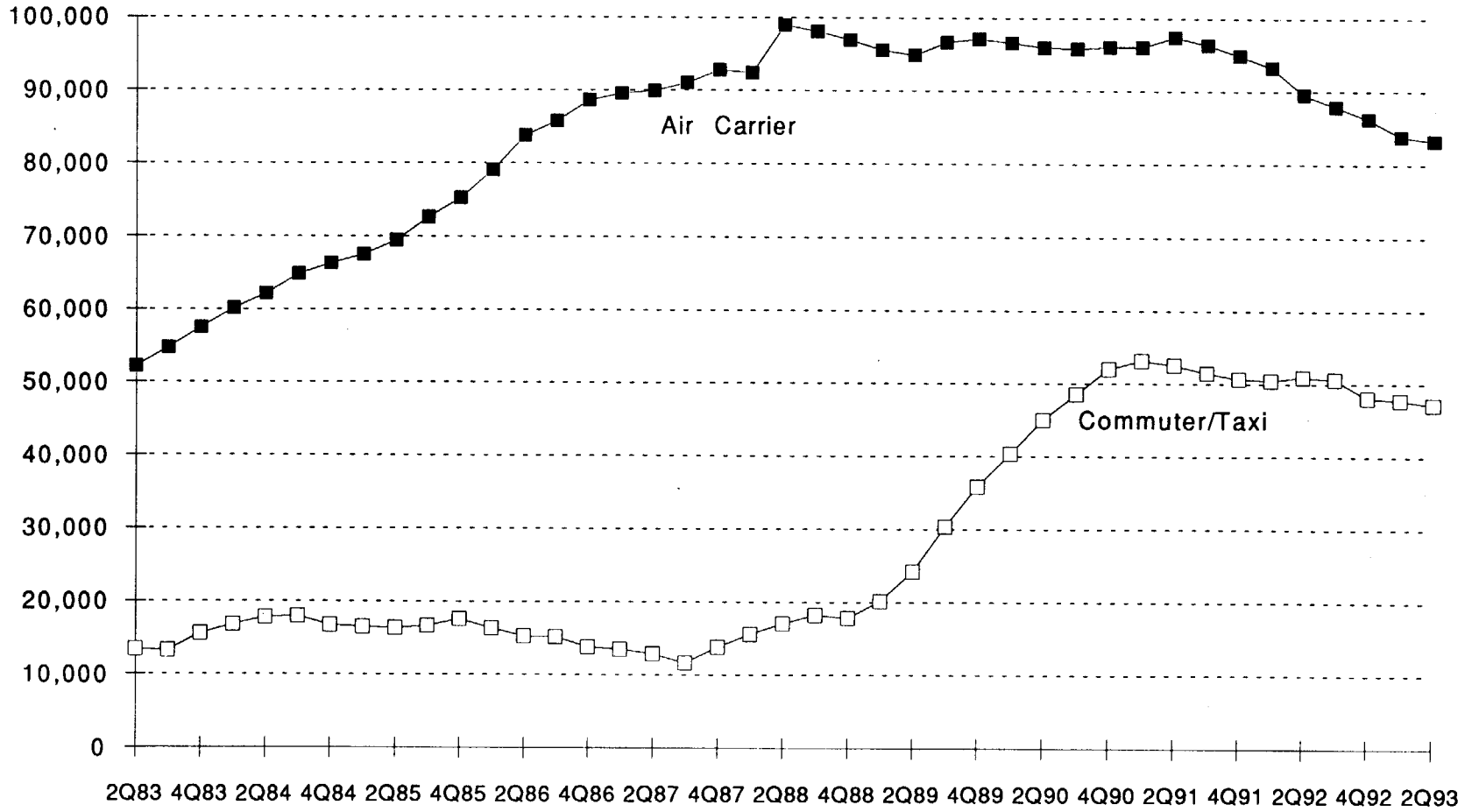
Source: San Jose International Airport Monthly Activity Reports

San Jose Annual Passengers



Data for the 12 month period ending on the last day of the indicated quarter.

San Jose Annual Operations



Data for the 12 month period ending on the last day of the indicated quarter.

Oakland Airport Activity

Quarter/Year	On and Off Air Passengers	Certificated Air Carrier Op'ns	Commuter/Taxi Operations
3Q83	2,944,500	47,820	38,040
4Q83	2,914,670	48,320	40,900
1Q84	2,912,070	50,740	43,250
2Q84	3,036,250	54,470	43,020
3Q84	3,287,490	59,560	41,600
4Q84	3,618,760	65,180	40,100
1Q85	3,864,120	70,930	37,490
2Q85	4,095,800	68,950	39,050
3Q85	4,205,070	69,240	40,120
4Q85	4,138,990	68,380	39,930
1Q86	4,098,900	68,580	39,690
2Q86	3,992,170	71,120	38,510
3Q86	3,892,870	72,650	37,740
4Q86	3,821,527	74,790	38,210
1Q87	3,791,490	76,950	38,160
2Q87	3,825,860	77,970	38,970
3Q87	3,936,570	80,620	41,250
4Q87	4,010,000	83,306	43,730
1Q88	4,038,430	85,190	48,130
2Q88	4,004,770	84,602	50,299
3Q88	3,897,774	81,209	52,254
4Q88	3,832,241	77,383	53,896
1Q89	3,683,222	73,366	54,357
2Q89	3,745,347	78,967	60,510
3Q89	3,987,460	74,682	57,131
4Q89	4,228,986	76,519	57,547
1Q90	4,540,913	78,500	57,511
2Q90	4,935,247	81,304	55,544
3Q90	5,261,164	84,945	54,540
4Q90	5,512,333	90,746	53,903
1Q91	5,904,031	98,076	57,944
2Q91	6,015,647	103,947	51,826
3Q91	6,073,861	108,419	50,772
4Q91	6,181,251	109,512	49,510
1Q92	6,149,344	109,783	50,486
2Q92	6,182,100	108,491	50,701
3Q92	6,395,644	107,669	51,983
4Q92	6,502,112	108,625	52,278
1Q93	6,701,060	108,942	52,595
2Q93	7,050,859	110,310	53,863

Data are for the 12 month period ending on the last day of the indicated quarter.

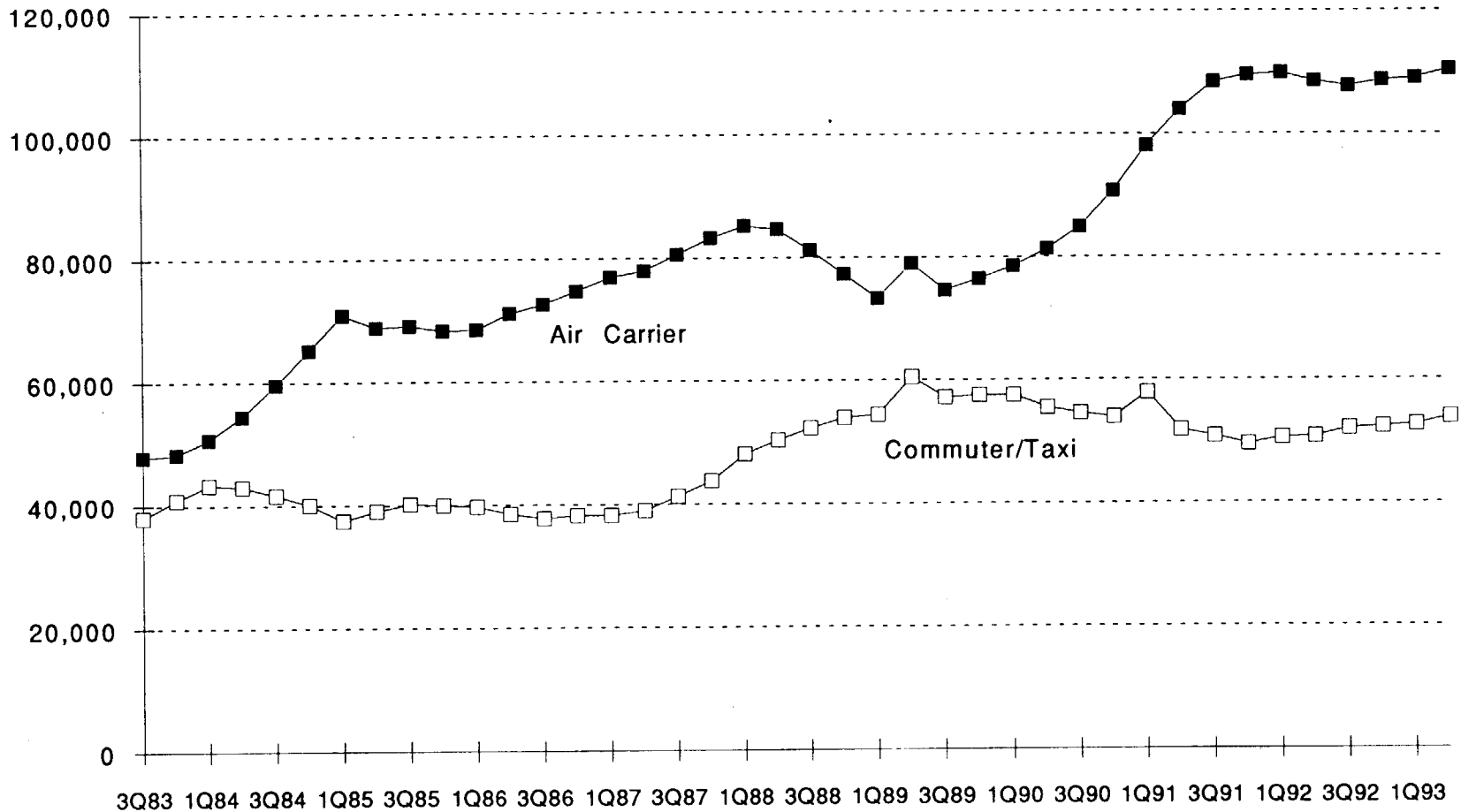
Source: Oakland International Airport Monthly Activity Reports

Oakland Annual Passengers



Data for the 12 month period ending on the last day of the indicated quarter.

Oakland Annual Operations



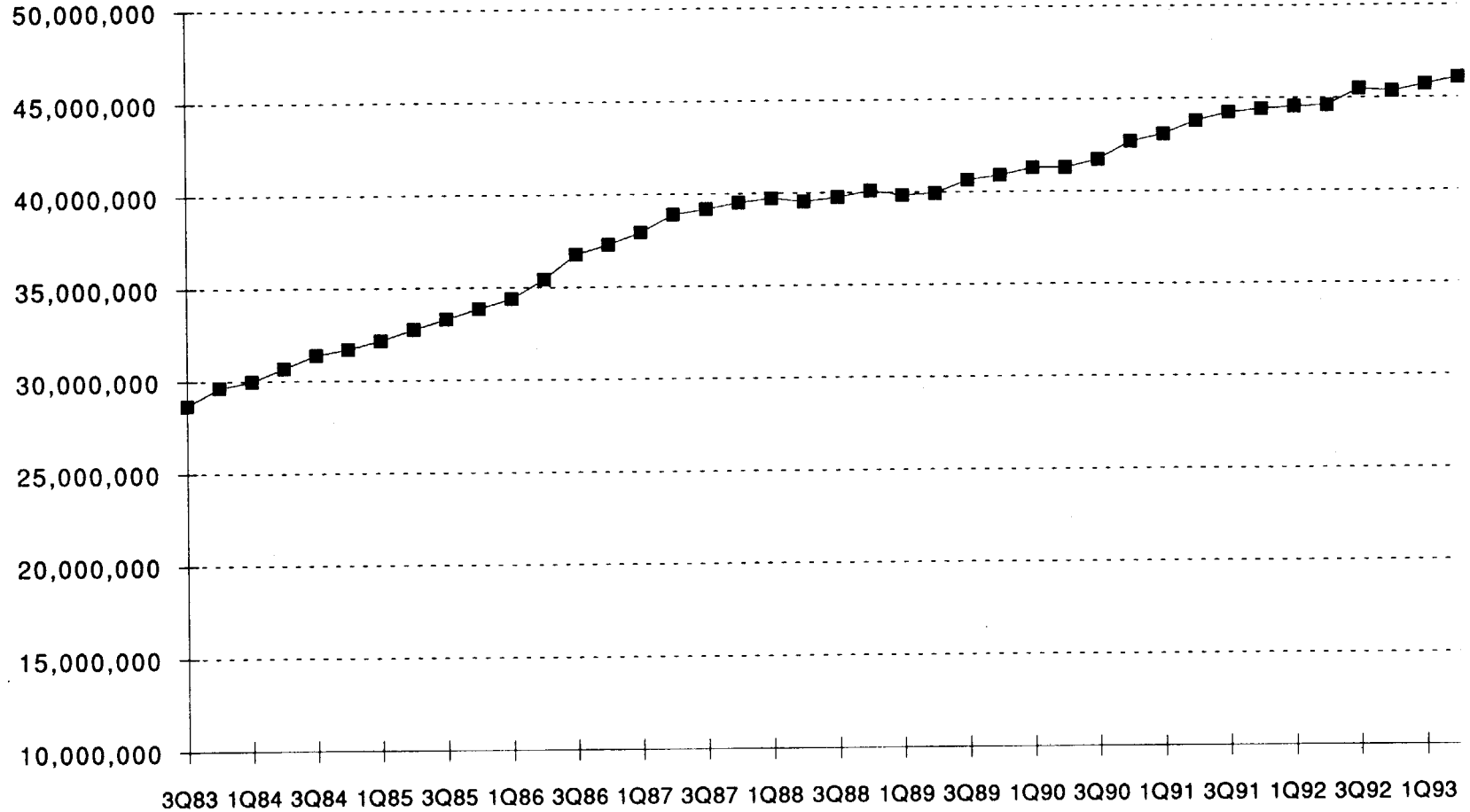
Data for the 12 month period ending on the last day of the indicated quarter.

Combined Airport Activity

Quarter/Year	On and Off Air Passengers	Certificated Air Carrier Op'ns	Commuter/Taxi Operations
3Q83	28,700,930	333,990	116,020
4Q83	29,631,540	348,200	124,740
1Q84	29,967,360	363,400	132,290
2Q84	30,700,340	378,730	134,490
3Q84	31,407,830	395,240	134,900
4Q84	31,711,860	404,610	132,160
1Q85	32,186,290	412,870	128,560
2Q85	32,769,090	404,680	130,780
3Q85	33,319,420	409,020	130,400
4Q85	33,866,270	415,700	130,430
1Q86	34,391,340	426,450	126,040
2Q86	35,451,870	453,010	120,380
3Q86	36,776,450	466,740	120,840
4Q86	37,294,267	479,850	121,300
1Q87	37,942,550	490,570	123,740
2Q87	38,894,570	495,350	129,810
3Q87	39,173,780	500,850	135,850
4Q87	39,518,003	506,294	146,820
1Q88	39,738,556	505,210	163,440
2Q88	39,550,786	509,698	171,655
3Q88	39,749,775	501,387	175,381
4Q88	40,082,631	492,570	172,607
1Q89	39,860,546	485,463	168,512
2Q89	39,957,324	488,530	174,476
3Q89	40,658,883	482,746	172,686
4Q89	40,895,379	482,817	177,026
1Q90	41,301,322	481,136	180,143
2Q90	41,307,519	483,793	179,557
3Q90	41,737,785	494,793	180,897
4Q90	42,674,822	505,448	184,783
1Q91	43,085,100	512,922	190,804
2Q91	43,796,471	518,264	186,670
3Q91	44,239,755	514,815	188,241
4Q91	44,423,402	506,799	188,934
1Q92	44,548,593	500,937	191,817
2Q92	44,598,916	492,461	192,544
3Q92	45,484,515	488,433	194,561
4Q92	45,350,521	487,912	192,731
1Q93	45,709,959	483,919	195,800
2Q93	46,085,978	483,579	199,450

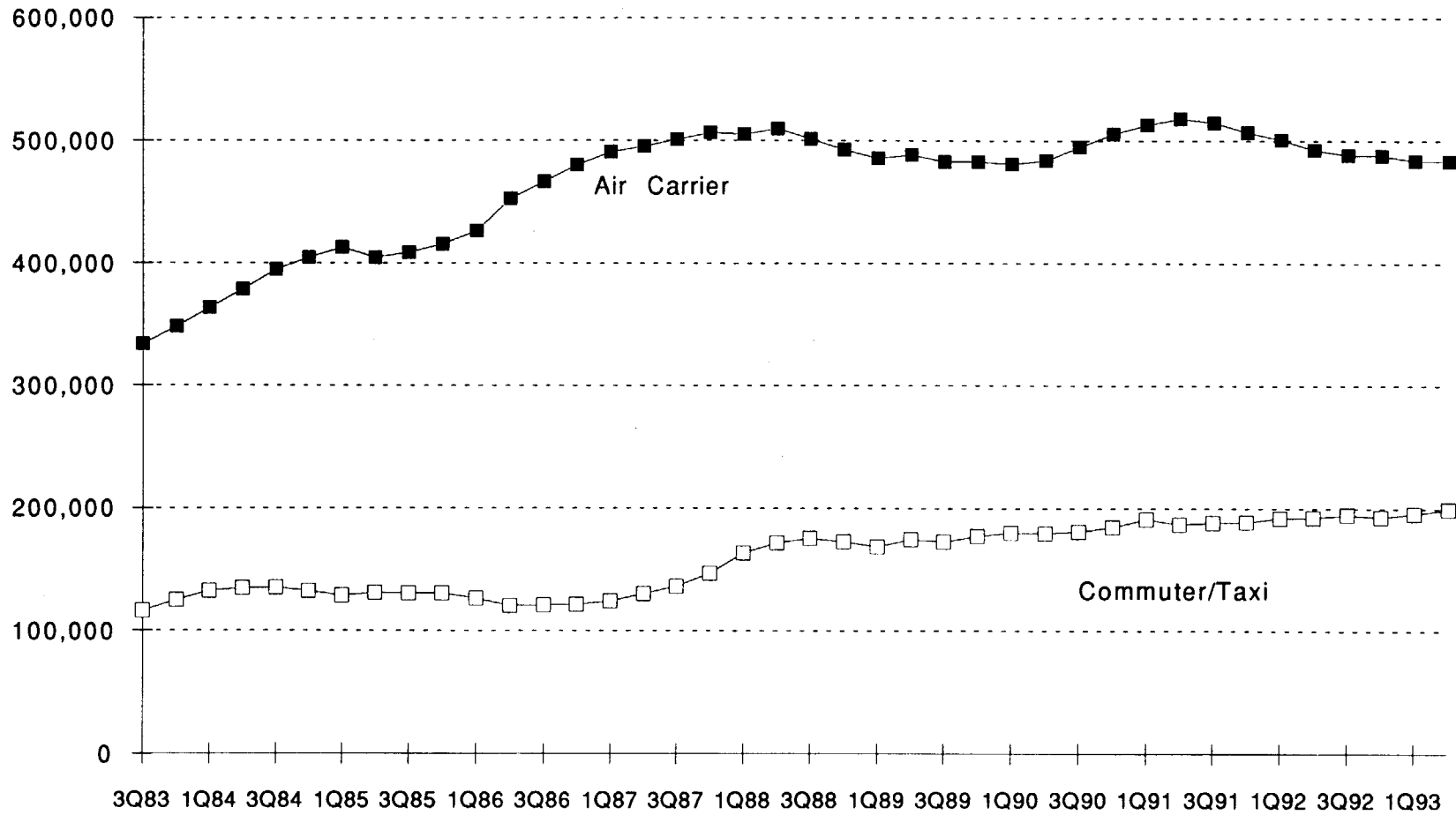
Data for the 12 month period ending on the last day of the indicated quarter.

Combined Air Passengers (SFO, SJC, OAK)



Data for the 12 month period ending on the last day of the indicated quarter.

Combined Annual Operations (SFO, SJC, OAK)



Data for the 12 month period ending on the last day of the indicated quarter.

SECTION VII

Airline Noise Trends

San Francisco International Airport

Quarterly Noise Report Section A ■ San Mateo County

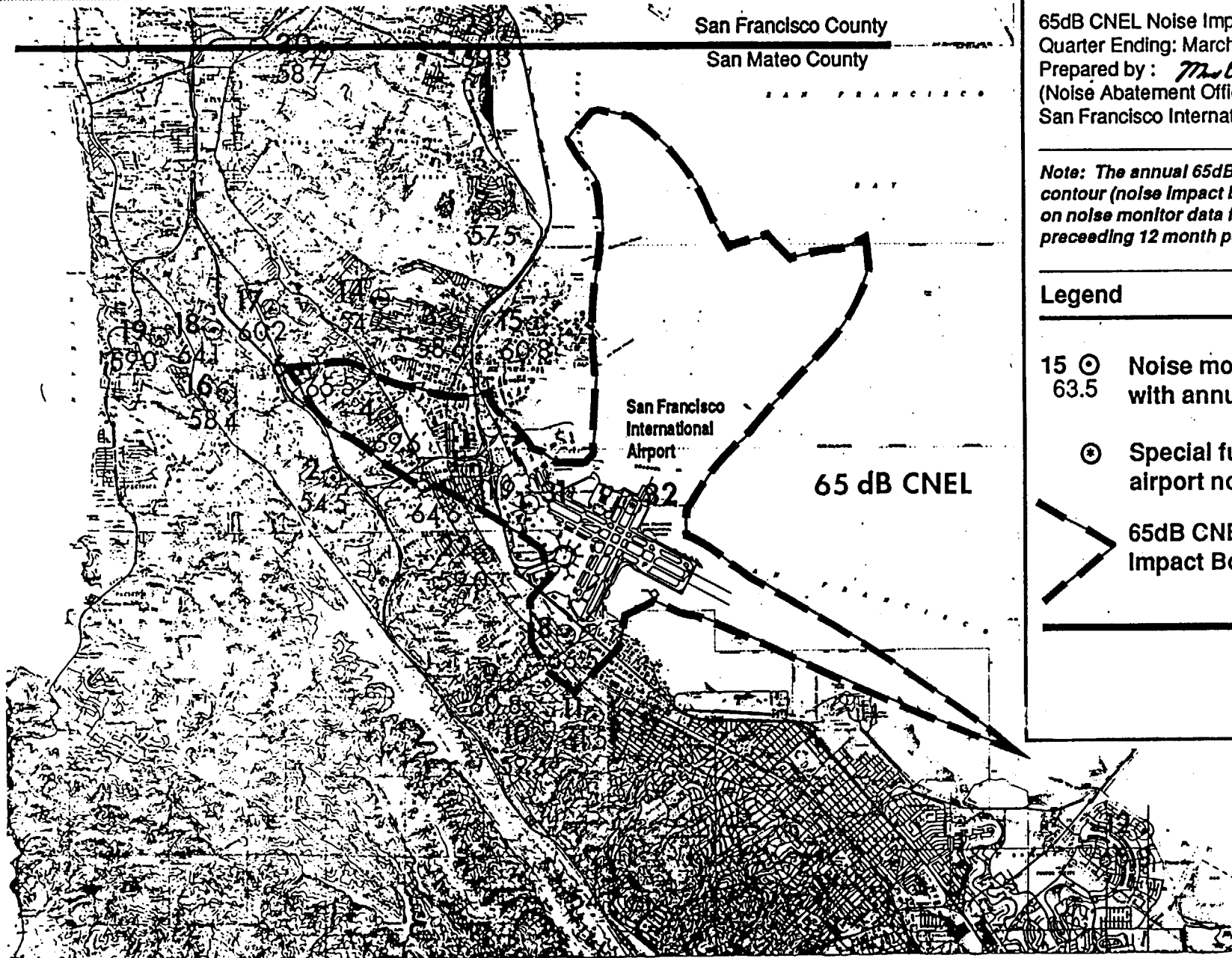
San Francisco County
San Mateo County

65dB CNEL Noise Impact Boundary
Quarter Ending: March 31, 1992
Prepared by: *Mr. Elliot*
(Noise Abatement Officer,
San Francisco International Airport)

Note: The annual 65dB CNEL noise contour (noise impact boundary) is based on noise monitor data from the preceding 12 month period.

Legend

- 15 ⊙ 63.5 Noise monitor number with annual CNEL level
- ⊙ Special function on airport noise monitor
- ▬ 65dB CNEL Noise Impact Boundary



San Francisco Noise

Qtr.	MONITOR 1			MONITOR 3			MONITOR 8			MONITOR 12			A.N.L.
	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	
1Q83	71.7	0.7	75.2	62.2	0.3	61.4	69.9	-0.3	67.9	60.7	-1.9	60.4	98.40
2Q83	75.0	-1.8	74.6	61.1	0.0	61.4	64.8	1.1	68.0	60.5	-0.2	60.4	98.40
3Q83	75.5	-1.3	74.0	59.7	-0.3	Moni- tor Re- located	65.5	0.3	68.2	59.8	-0.2	60.3	98.60
4Q83	73.7	0.8	74.2	60.8	-1.3		70.0	0.2	68.1	61.2	1.0	60.5	98.30
1Q84	72.4	0.7	74.3	57.1	-5.1	59.3	69.5	-0.4	67.9	60.1	-0.6	60.4	98.40
2Q84	74.0	-1.0	74.0	59.2	-1.9	59.8	66.4	1.6	68.2	59.8	-0.7	60.2	98.40
3Q84	75.0	-0.5	73.9	61.1	1.4	60.1	66.6	1.1	68.3	58.2	-1.6	59.9	97.80
4Q84	74.4	0.7	74.1	61.4	0.6	61.0	68.6	-1.4	67.9	60.3	-0.9	59.6	97.80
1Q85	72.0	-0.4	74.0	61.6	4.5	61.0	70.2	0.7	68.2	59.8	-0.3	59.6	95.90
2Q85	73.9	-0.1	74.0	63.3	4.1	61.9	65.8	-0.6	68.1	58.8	-1.0	59.4	96.30
3Q85	68.9	-6.1	72.8	57.3	-3.8	61.4	67.5	0.9	68.3	59.6	1.4	59.7	97.10
4Q85	67.9	-6.5	71.3	55.8	-5.6	60.5	71.1	2.5	69.1	59.9	-0.4	59.6	97.00
1Q86	68.1	-3.9	70.5	56.3	-5.3	59.4	73.4	3.2	70.4	60.4	0.6	59.7	97.00
2Q86	72.8	-1.1	69.9	57.9	-5.4	56.9	66.8	1.0	70.5	59.7	0.9	59.9	97.10
3Q86	70.8	1.9	70.5	58.0	0.7	57.1	67.4	-0.1	70.5	60.6	1.0	60.1	97.30
4Q86	68.6	0.7	70.5	54.7	-1.1	56.9	71.0	-0.1	70.5	59.1	-0.8	60.0	
1Q87	67.0	-1.1	70.3	58.8	2.5	56.5	71.3	-2.1	69.6	58.8	-1.6	59.6	97.20
2Q87	70.0	-2.8	69.3	56.5	-1.4	56.1	68.5	1.7	69.9	59.6	-0.1	59.6	97.50
3Q87	70.6	-0.2	69.2	56.3	-1.7	55.5	67.9	0.5	69.9	59.5	-1.1	59.3	97.70
4Q87	70.1	1.5	69.6	57.9	3.2	56.4	70.5	-0.5	69.8	59.3	0.2	59.3	97.70
1Q88	67.6	0.6	69.7	54.1	-4.7	56.5	71.5	0.2	69.8	58.3	-0.5	59.2	97.50
2Q88	70.2	0.2	69.8	57.0	0.5	56.6	67.1	-1.4	69.6	58.7	-0.9	59.0	97.40
3Q88	70.8	0.2	69.9	56.5	0.2	56.6	68.8	0.9	69.8	62.0	2.5	59.9	
4Q88	73.4	3.3	71.0	58.2	0.3	56.8	67.7	-2.8	69.1	60.2	0.9	60.1	97.08
1Q89	68.9	1.3	71.2	54.9	0.8	56.8	69.8	-1.7	68.5	59.5	1.2	60.3	97.14
2Q89	72.5	2.3	71.7	60.3	3.3	58.0	67.2	0.1	68.5	59.2	0.5	60.4	97.50
3Q89	75.2	4.4	73.0	59.9	3.4	58.8	67.6	-1.2	68.2	65.4	3.4	61.8	94.90
4Q89	70.1	-3.3	72.4	54.4	-3.8	58.2	69.6	1.9	68.7	59.9	-0.3	61.7	
1Q90	70.7	1.8	72.6	54.1	-0.8	58.1	69.1	-0.7	68.5	61.5	2.0	62.1	
2Q90	71.6	-0.9	71.9	56.1	-4.2	56.1	64.5	-2.7	67.7	60.8	1.6	61.9	94.50
3Q90	71.4	-3.8	71.0	51.8	-8.1	54.1	64.5	-3.1	66.9	61.2	-4.2	60.9	94.20
4Q90	69.2	-0.9	70.7	51.9	-2.5	53.5	66.8	-2.8	66.2	59.9	0.0	60.9	94.14
1Q91	69.7	-1.0	70.5	54.9	0.8	53.7	66.7	-2.4	65.6	61.1	-0.4	60.8	94.32
2Q91	72.2	0.6	70.6	55.6	-0.5	53.6	63.6	-0.9	65.4	61.1	0.3	60.8	93.59
3Q91	71.4	0.0	70.6	49.8	-2.0	53.1	65.2	0.7	65.6	61.9	0.7	61.0	94.10
4Q91	73.2	4.0	71.6	63.3	11.4	55.9	68.9	2.1	66.1	60.7	0.8	61.2	93.84
1Q92	69.9	0.2	71.7	55.5	0.6	56.1	66.4	-0.3	66.0	59.3	-1.8	60.8	93.35
2Q92	72.5	0.3	71.8	56.8	1.2	56.4	63.5	-0.1	66.0	61.0	-0.1	60.7	93.48
3Q92	71.1	-0.3	71.7	54.1	4.3	57.4	64.9	-0.3	65.9	60.9	-1.0	60.5	92.97
4Q92	70.5	-2.7	71.0	52.7	-10.6	54.8	68.7	-0.2	65.9	60.0	-0.7	60.3	
1Q93	70.1	0.2	71.1	57.8	2.3	55.4	67.8	1.4	66.2	59.1	-0.2	60.3	93.39

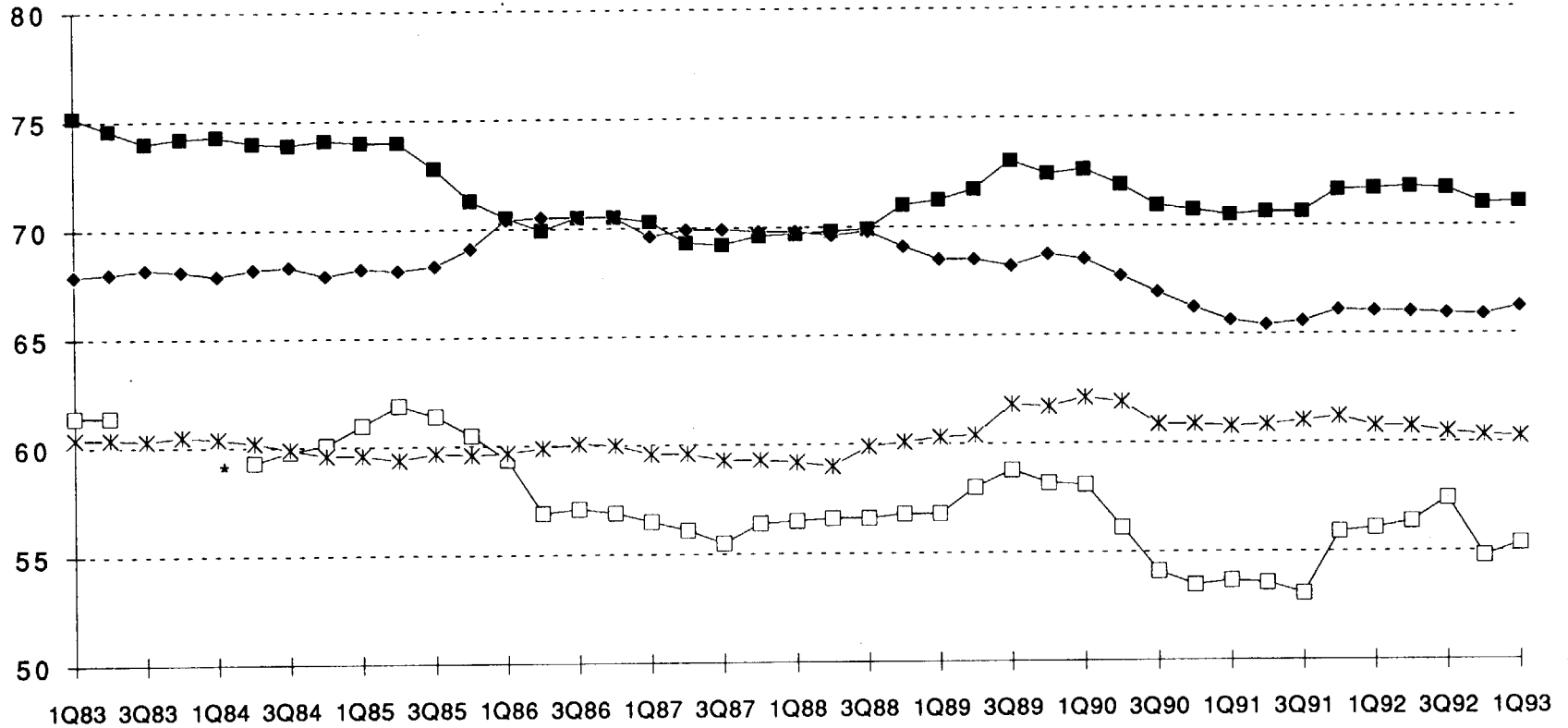
For each monitor, for the quarter indicated, the three columns indicate as follows:

- Noise level for that quarter
- Difference between that quarter's level and that of the same quarter of the previous year
- Computed average noise level for the 12-month period that ended with the last day of the quarter.

Source: SFIA Noise Monitoring System

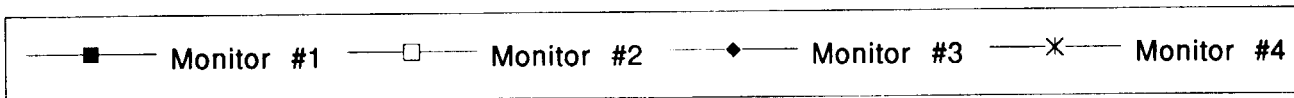
The last column, labelled "A.N.L.", is the airport noise level, in dBA, as computed by MTC from Official Airline Guide data for the first month of the indicated quarter.

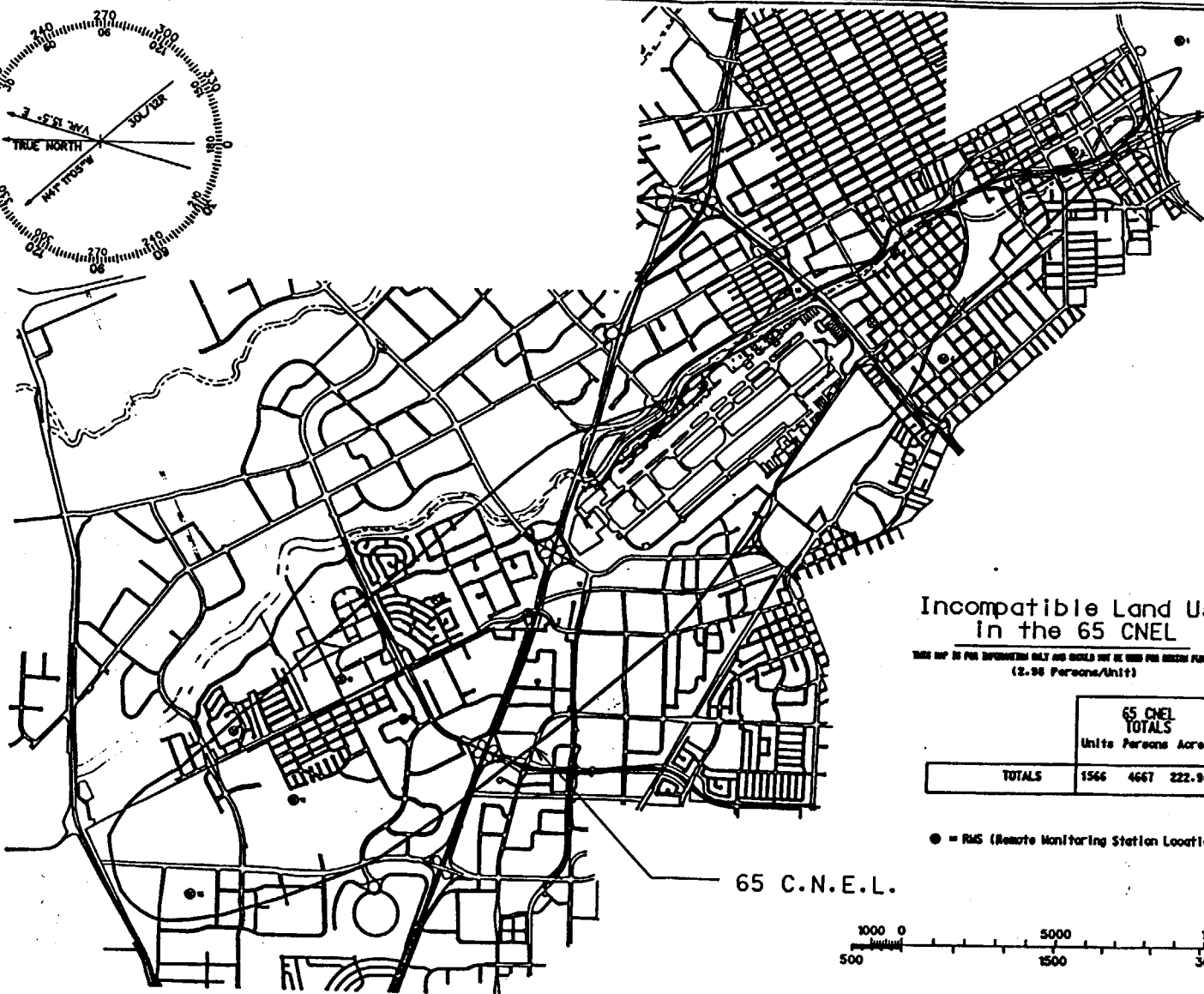
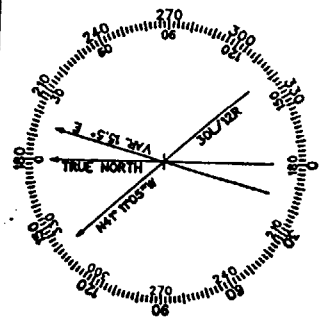
CNEL at SFO



Annual average CNEL for the last four quarters ending on the last day of the indicated quarter.

* Monitor #2 data not available from 3Q83 to 1Q84





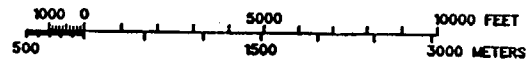
Incompatible Land Use In the 65 CNEL

THIS MAP IS FOR INFORMATION ONLY AND SHOULD NOT BE USED FOR DESIGN PURPOSES.
(2.98 Persons/Acre)

65 CNEL TOTALS	
	Units Persons Acres
TOTALS	1566 4667 222.965

● = RMS (Remote Monitoring Station Location)

65 C.N.E.L.



San Jose International Airport
65 CNEL CONTOUR
 Fourth Quarter Noise Monitoring
 Report - Ending December 31, 1991

PROJECT: Noise
 A-2160
 DATE: 1/15/92
 DRAWN BY: *[Signature]*
 CHECKED BY: *[Signature]*
 APPROVED BY: *[Signature]*
 E. Foster G. Stowell
 ENGINEER

SHEET TITLE
**Incompatible
 Land Use
 In The
 65 CNEL**
 01 of 01
 SHEET NO.

San Jose Noise

Qtr.	MONITOR 2			MONITOR 3			MONITOR 4 *			MONITOR 10			A.N.L.
	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	
3Q83	66.4	-2.1	68.4	74.8	-1.5	76.6	61.4	-1.8	65.1	71.3	-0.6	71.3	82.40
4Q83	67.8	-0.9	68.2	75.6	-1.8	76.1	65.8	-1.3	64.7		0.2	71.4	85.40
1Q84	66.1	-3.2	67.3	76.5	-1.1	75.8	64.7	-2.3	63.9	72.0	0.9	71.6	83.40
2Q84	65.5	-3.0	66.6	74.8	-1.2	75.4	61.9	-0.4	63.8	72.4	0.8	71.8	82.60
3Q84	65.5	-0.9	66.3	74.8	0.0	75.3	60.8	-0.6	63.7	72.3	1.0	72.0	83.30
4Q84	66.9	-0.9	66.1	74.6	-1.0	74.5	65.5	-0.3	63.6	72.2	72.2	72.2	83.30
1Q85	66.2	0.1	66.1	74.4	-2.1	74.6	65.5	0.8	63.9	72.1	0.1	72.2	83.00
2Q85	65.6	0.1	66.1	73.7	-1.1	74.4	61.5	-0.4	63.8	72.5	0.1	72.3	84.00
3Q85	67.4	1.9	66.6	74.4	-0.4	74.3	62.2	1.4	64.0	74.1	1.8	72.8	85.20
4Q85	66.1	-0.8	66.4	74.7	0.1	74.3	64.5	-1.0	63.7	72.9	0.7	72.9	85.60
1Q86	MONITOR 2 TEMPORARILY REMOVED AND RELOCATED			75.4	1.0	74.5	66.8	1.3	64.2	73.2	1.1	73.2	85.50
2Q86				73.8	0.1	74.6	62.7	1.2	64.5	73.7	1.2	73.5	85.30
3Q86				75.5	1.1	74.9	62.6	0.4	64.5	72.5	-1.6	73.1	86.10
4Q86				72.3	-2.4	74.8	66.0	1.5	64.9	71.7	-1.2	72.8	
1Q87				75.3	-0.1	74.8	67.2	0.4	65.1	71.7	-1.5	72.4	86.00
2Q87				75.5	1.7	74.9	60.1	-2.6	65.0	73.1	-0.6	71.8	85.50
3Q87				73.0	-2.5	74.1	57.0	-5.6	64.6	72.0	-0.5	71.8	84.50
4Q87				74.0	1.7	74.1	66.3	0.3	64.6	72.1	0.4	71.7	84.70
1Q88	64.9			73.0	-2.3	73.6	65.9	-1.3	64.1	73.3	1.6	72.1	84.10
2Q88	66.2			73.2	-2.3	73.4	63.1	3.0	64.3	72.0	-1.1	72.5	83.40
3Q88	65.6			72.7	-0.3	73.3	60.8	3.8	64.6	72.2	0.2	72.5	
4Q88	67.3		66.1	75.1	1.1	73.3	66.3	0.0	64.1	72.2	0.1	72.4	81.20
1Q89	67.4	2.5	66.7	74.6	1.6	73.8	64.8	-1.1	63.7	71.9	-1.4	72.1	81.80
2Q89	66.8	0.6	66.8	73.9	0.7	74.1	61.6	-1.5	63.4	72.4	0.4	72.2	86.30
3Q89	66.1	0.5	66.9	73.6	0.9	74.1	59.2	-1.6	63.2	70.0	-2.2	71.6	88.30
4Q89	65.7	-1.6	66.5	72.9	-2.2	73.8	62.3	-4.0	62.0	70.8	-1.4	71.3	
1Q90	67.2	-0.2	66.5	74.2	-0.4	73.7	64.2	-0.6	61.8	73.5	1.6	71.7	
2Q90	67.1	0.3	66.5	74.2	0.3	73.7	64.3	2.7	62.5	73.3	0.9	71.9	85.30
3Q90	66.6	0.5	66.7	74.4	0.8	73.9	63.8	4.6	63.7	73.6	3.6	72.8	85.50
4Q90	66.0	0.3	66.7	73.1	0.2	74.0	66.9	4.6	64.8	73.4	2.6	73.5	84.96
1Q91	66.4	-0.8	66.5	72.2	-2.0	73.5	66.7	2.5	65.4	72.3	-1.2	73.2	85.43
2Q91	67.2	0.1	66.6	73.5	-0.7	73.3	64.7	0.4	65.5	72.5	-0.8	73.0	87.54
3Q91	66.7	0.1	66.6	73.4	-1.0	73.1	63.4	-0.4	65.4	73.3	-0.3	72.9	84.47
4Q91	66.9	0.9	66.8	73.4	0.3	73.1	66.1	-0.8	65.2	74.4	1.0	73.1	87.08
1Q92	68.3	1.9	67.3	75.6	3.4	74.0	67.2	0.5	65.4	74.0	1.7	73.6	87.10
2Q92	66.2	-1.0	67.0	72.6	-0.9	73.8	63.7	-1.0	65.1	71.8	-0.7	73.4	86.25
3Q92	65.2	-1.5	66.7	71.9	-1.5	73.4	61.7	-1.7	64.7	72.4	-0.9	73.2	84.19
4Q92	65.2	-1.7	66.2	71.3	-2.1	72.9	64.3	-1.8	64.2	73.1	-1.3	72.8	
1Q93	67.2	-1.1	66.0	74.0	-1.6	72.5	65.1	-2.1	63.7	69.0	-5.0	71.6	84.70
2Q93	66.5	0.3	66.0	72.9	0.3	72.5	63.2	-0.5	63.6	69.4	-2.4	71.0	84.59

For each monitor, for the quarter indicated, the three columns indicate as follows:

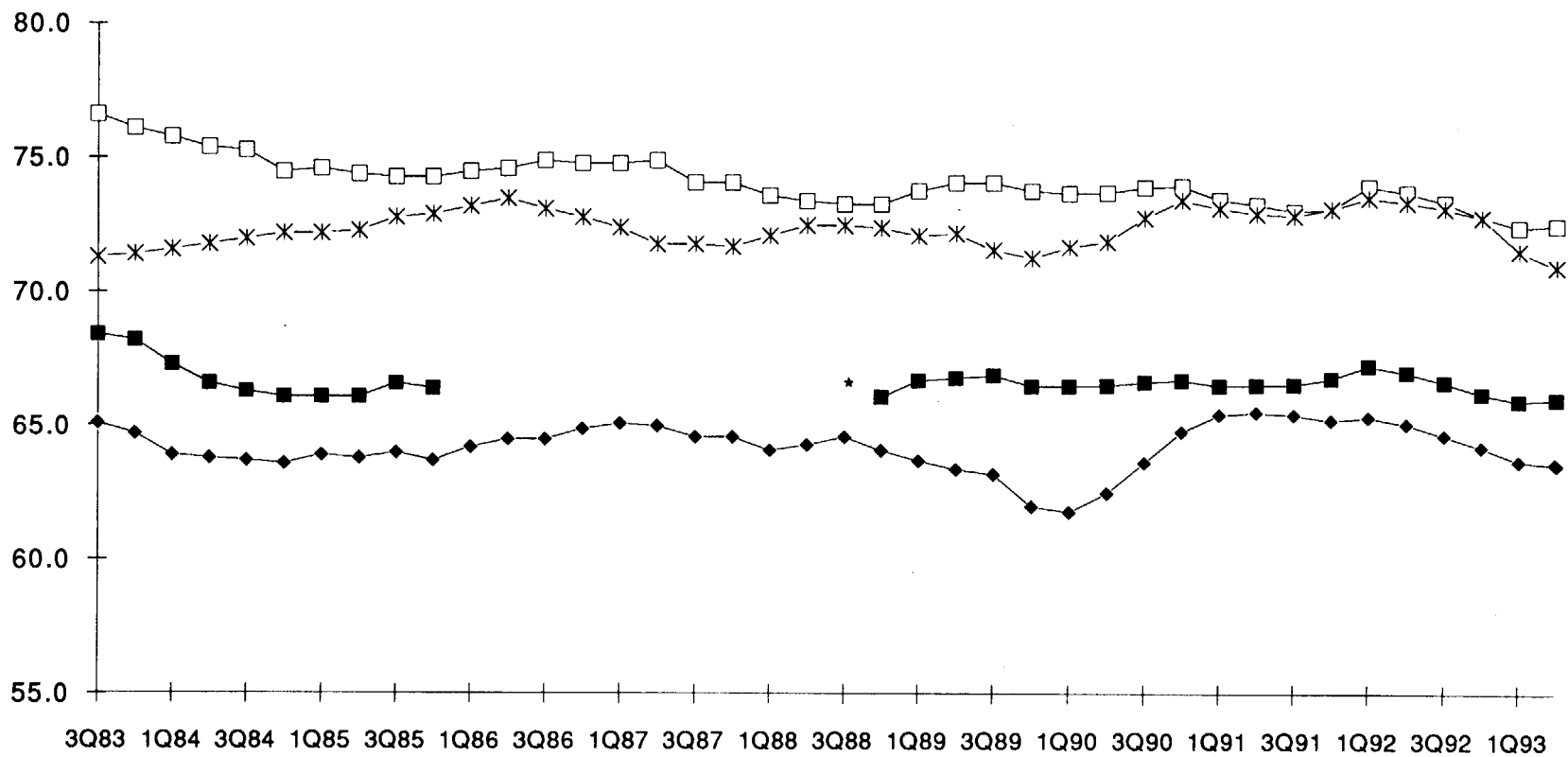
- Noise level for that quarter.
- Difference between that quarter's level and that of the same quarter of the previous year.
- Computed average noise level for the 12-month period that ended with the last day of the quarter.

Source: San Jose Airport

The last column, labelled "A.N.L.", is the airport noise level, in dBA, as computed by MTC from Official Airline Guide data for the first month of the indicated quarter.

* Data from Monitor #4 contaminated by local surface noise sources.

CNEL at SJC



Annual average CNEL for the last four quarters ending on the last day of the indicated quarter.

* Monitor #2 data not available from 1Q86 to 4Q88

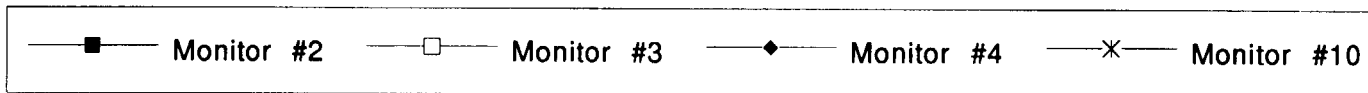
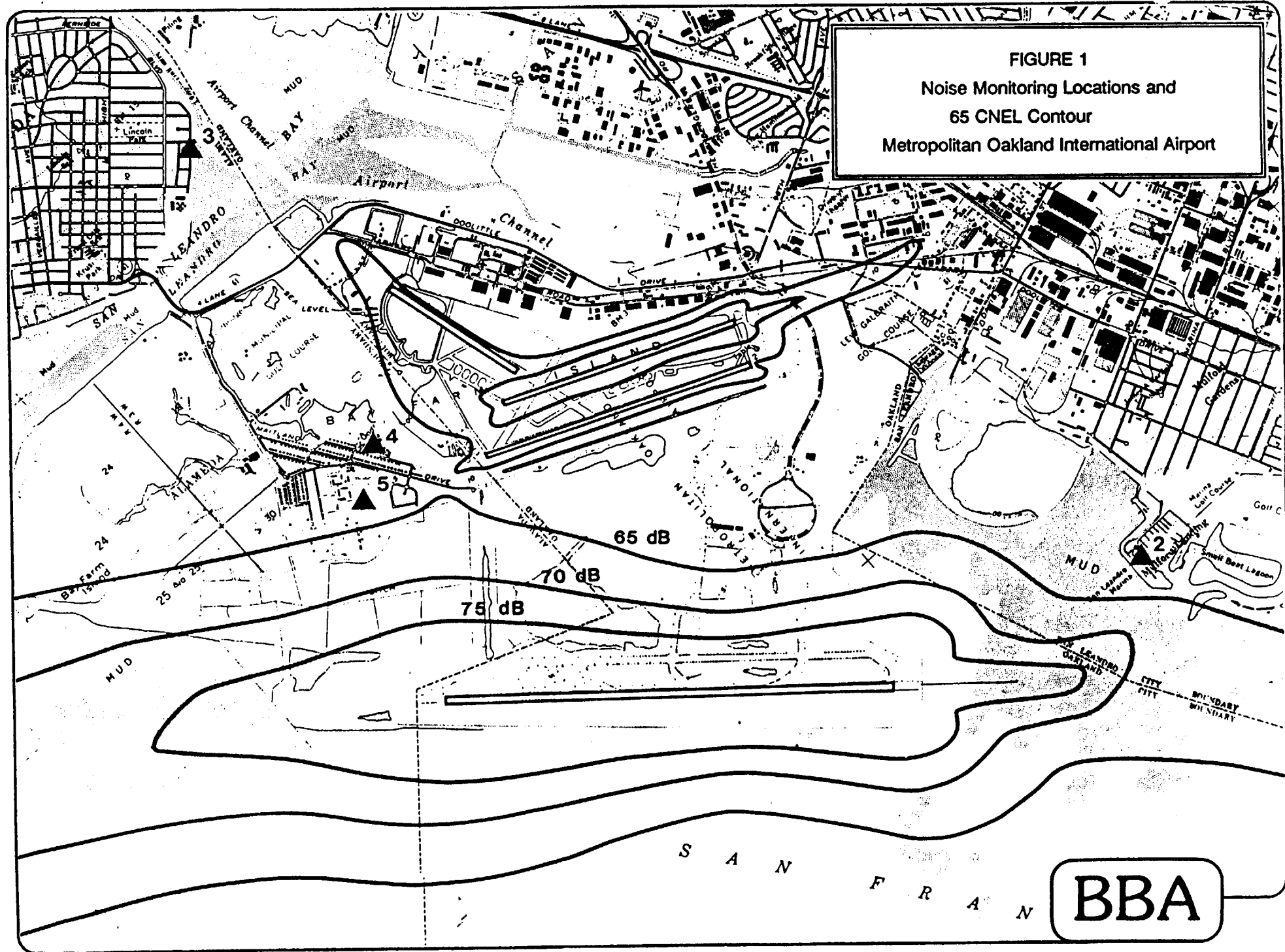


FIGURE 1
Noise Monitoring Locations and
65 CNEL Contour
Metropolitan Oakland International Airport



BBA

Oakland Noise

Qtr.	MONITOR 2			MONITOR 3			MONITOR 4			MONITOR 5			A.N.L.
	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	Level	Δ 4Qs	4Qs	
2Q91	68.8	NA	NA	52.9	NA	NA	61.4	NA	NA	63.3	NA	NA	98.07
3Q91	60.2	NA	NA	52.1	NA	NA	61.4	NA	NA	62.7	NA	NA	98.97
4Q91	66.2	NA	NA	52.7	NA	NA	61.7	NA	NA	62.5	NA	NA	98.28
1Q92	66.6	NA	65.4	54.3	NA	53.0	62.7	NA	61.8	63.9	NA	63.1	99.06
2Q92	61.1	-7.7	63.5	53.2	0.3	53.1	61.5	0.1	61.8	62.7	-0.6	63.0	99.29
3Q92	60.8	-5.4	63.7	52.8	0.1	53.3	60.8	-0.9	61.7	62.4	-0.1	62.9	98.13
4Q92	65.1	-1.5	63.4	53.3	-1.0	53.4	60.4	-2.3	61.4	62.9	-1.0	63.0	
1Q93	67.1	6.0	63.5	55.0	1.8	53.6	63.0	1.5	61.4	64.1	1.4	63.0	97.78
2Q93	62.7	1.9	63.9	54.3	1.5	53.9	59.5	-1.3	60.9	62.5	0.1	63.0	98.12

Oakland Airport began using a new noise monitoring system Feb. 1, 1991.

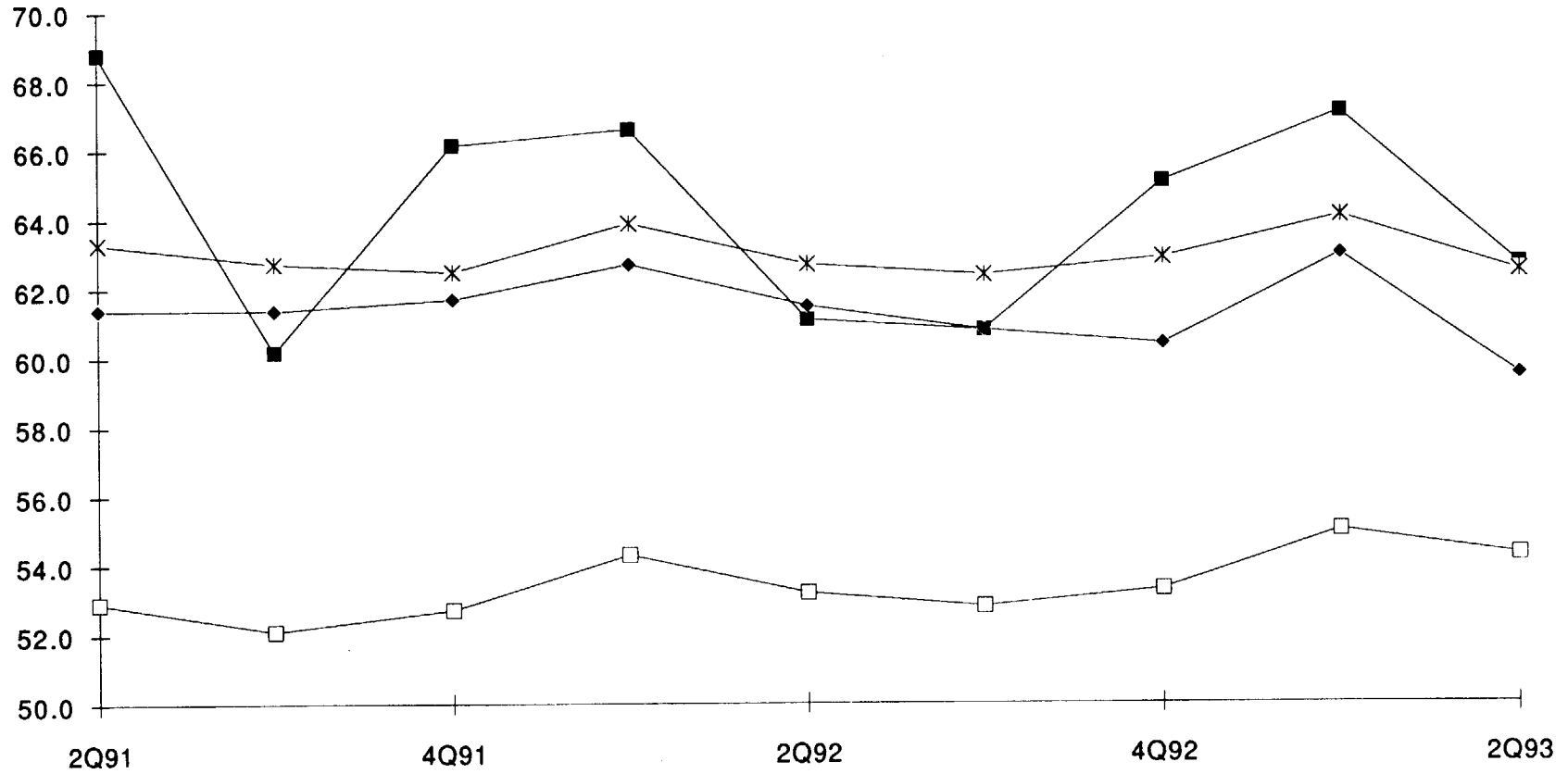
For each monitor, for the quarter indicated, the three columns indicate as follows:

- Noise level for that quarter.
- Difference between that quarter's level and that of the same quarter of the previous year.
- Noise level for the 12-month period that ended with the last day of the quarter.

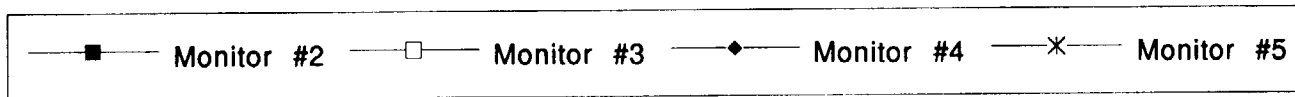
Source: Port of Oakland

The last column, labelled "A.N.L.", is the airport noise level, in dBA, as computed by MTC from Official Airline Guide data for the first month of the indicated quarter.

CNEL at OAK



CNEL for each quarter ending on the last day of the indicated quarter.



SECTION VIII

Appendices

AIRPORT LOCATION CODES

ABQ	Albuquerque, New Mexico	JFK	New York, NY-Kennedy
ACV	Eureka/Arcata, CA	KOA	Kona, Hawaii
ALB	Albany, NY	LAS	Las Vegas, Nevada
AMA	Amarillo, Texas	LAX	Los Angeles, CA
ANC	Anchorage, Alaska	LBB	Lubbock, Texas
ATL	Atlanta, Georgia	LCK	Columbus, Ohio
AUS	Austin, Texas	LGA	Flushing, NY-LaGuardia
BAL	Baltimore, Maryland	LGB	Long Beach, CA
BDL	Hartford CT /Sprngfd, MA	LHR	London, England-Heathrow
BFL	Bakersfield, CA	LIH	Lihue, Hawaii
BHM	Birmingham, AL	LIT	Little Rock, Arkansas
BIL	Billings, Montana	LMT	Klamath Falls, Oregon
BNA	Nashville, Tennessee	MAF	Midland, Texas
BOI	Boise, Idaho	MCE	Merced, CA
BOS	Boston, Massachusetts	MCI	Kansas City, Missouri
BUF	Buffalo, New York	MCO	Orlando, Florida
BUR	Burbank, CA	MDW	Chicago, Illinois-Midway
BWI	Baltimore, Maryland	MEM	Memphis, Tennessee
CAE	Columbia, South Carolina	MEX	Mexico City, Mexico
CDG	Charles de Gualle, France	MFR	Medford, Oregon
CHS	Charleston, South Carolina	MIA	Miami, Florida
CIC	Chico, CA	MKE	Milwaukee, Wisconsin
CLE	Cleveland, Ohio	MMH	Mammoth Lake, CA
CLT	Charlotte, North Carolina	MOD	Modesto, CA
CMH	Columbus, Ohio	MRY	Monterey, CA
COA	Columbia, CA	MSN	Madison, Wisconsin
COS	Colorado Springs, Colorado	MSP	Minneapolis/St. Paul, MN
CRP	Corpus Christi, Texas	MSY	New Orleans, Louisiana
CVG	Cincinatti, Ohio	MZT	Mazatlan, Mexico
DAL	Dallas, Texas	NRT	Tokyo, Japan-Narita
DAY	Dayton, Ohio	OAK	Oakland, CA
DCA	Washington, DC-National	OGG	Kahului, Maui, Hawaii
DEN	Denver, Colorado	OKC	Oklahoma City, Oklahoma
DFW	Dallas/Ft. Worth, Texas	OMA	Omaha, Nebraska
DSM	Des Moines, Iowa	ONT	Onterio, CA
DTW	Detroit, Michigan	ORD	Chicago, Illinois-O'Hare
DUS	Duseldorf, Germany	ORF	Norfolk, Virginia
EKA	Eureka/Arcata, CA	OSA	Osaka, Japan
ELP	El Paso, Texas	OXR	Oxnard, CA
EUG	Eugene, Oregon	OYS	Yosemite National Park, CA
EWR	New York, NY-Newark	PBI	West Palm Beach, Florida
FAI	Fairbanks, Alaska	PDX	Portland, Oregon
FAT	Fresno, CA	PHL	Philadelphia, Pennsylvania
FLL	FT. Lauderdale, Florida	PHX	Phoenix, Arizona
FRA	Frankfurt, Germany	PIT	Pittsburgh, Pennsylvania
GDL	Gudalajara, Mexico	PPT	Papeete, Polynesia
GEG	Spokane, Washington	PRB	Paso Robles, CA
GRR	Grand Rapids, Michigan	PSC	Pasco, Washington
GSO	Greensboro, North Carolina	PSP	Palm Springs, CA
HKG	Hong Kong, Hong Kong	PVD	Providence, Rhode Island
HND	Haneda, Tokyo, Japan	PVR	Puerto Vallarta, Mexico
HNL	Honolulu, Hawaii	PWM	Portland, Maine
HOU	Houston, Texas	RDD	Redding, CA
HRL	Harlingen, Texas	RDM	Redmond, Oregon
IAD	Washington, DC-Dulles	RDU	Morrisville, North Carolina
IAG	Niagra Falls, NY	RIC	Richmond, Virginia
IAH	Houston, Texas	RNO	Reno, Nevada
ICT	Wichita, Kansas	ROC	Rochester, NY
ILN	Wilmington, Ohio	SAC	Sacramento, CA
IND	Indianapolis, Indiana	SAL	San Salvador, El Salvador
ISP	Long Island Macarthur, NY	SAN	San Diego, CA
ITO	Hilo, Hawaii	SAT	San Antonio, Texas
IYK	Inyo-Kern, CA	SAV	Savannah, Georgia
JAX	Jacksonville Florida	SBA	Santa Barbara, CA

SBP San Luis Obispo, CA
SCK Stockton, CA
SDF Louisville, Kentucky
SEA Seattle/Tacoma, Washington
SEL Seoul, Korea
SFO San Francisco, CA
SHA Shanghai, China
SJC San Jose, CA
SJD Los Cabos, Mexico
SJU San Juan, Puerto Rico
SLC Salt Lake City Utah
SMF Sacramento, CA
SMX Santa Maria, CA
SNA Orange County, CA
SNS Salinas, CA
SRQ Sarasota, Florida
STL ST. Louis, Missouri
STS Santa Rosa, CA
SUN Sun Valley, Idaho
SYR Syracuse, NY
TER Terciera, Portugal
TOL Toledo, Ohio
TPA Tampa, Florida
TPE Taipei, Taiwan
TUL Tulsa, Okalahoma
TUS Tucson, Arizona
TVL Lake Tahoe, CA
TYS Alcoa, Tennessee
VIS Visalia, CA
VNY Van Nuys, CA
YEG Edmonton, Alta., Canada
YKM Yakima, Washington
YMX Montreal, Canada
YVR Vancouver, B.C., Canada
YWG Winnipeg, Manitoba, Canada
YYC Calgary, Alta., Canada
YYZ Toronto, Ont., Canada
ZLO Manzanillo, Mexico

AIRLINE CODES

AA American Airlines, Inc.
AC Air Canada
AF Air France
AS Alaska Airlines
BA British Airways
BF Markair, Inc.
BR EVA Airways Corp.
CA CAAC
CI China Airlines
CO Continental Airlines
CP CP Air
DL Delta Airways, Inc.
EB Emery Worldwide
ER DHL Airlines
FF Tower Air Inc.
FM Federal Express
GD TAESA Transportes Aereos Ejecutives
HA Hawaiian Airlines
HP America West
JL Japan Airlines
KL KLM Royal Dutch Airline
KN Morris Air
KZ Nippon Cargo
LH Lufthansa Airlines
LR LACSA Airlines
MX Mexicana de Aviacion
NW Northwest Orient Airlines, Inc.
OZ Asiana Airline
PR Phillippine Airlines
QF Quantas Airways
QQ Reno Air
S1 Cargolux Airlines International
SQ Singapore Airlines
SU Aeroflot
TA TACA International Airline
TW Transworld Airlines
TZ American Trans Air
UA United Airlines, Inc.
US US Air
UT UTA
VP VASP
WN Southwest Airlines
XP Casino Express Airlines
Y1 TPI International Airways
YX Midwest Express Airlines, Inc.

1F ABX Air
5X United Parcel Service Co.
8W Burlington Air Express

JET AIRCRAFT CODES

AB3 AIRBUS INDUSTRIES A3008
(EUROPEAN AIRBUS--ALL SERIES)

B11 BAC111 (ALL SERIES)

B72 BOEING 720

D10 MCDONNELL DOUGLAS DC10
PASSINGER JET

D11 MCDONNELL COUGLAS DC-10

DC1 MCDONNELL DOUGLAS DC10-30
CARGO

D86 SAME AS D8S

D8F MCDONNELL DOUGLAS DC-8
FREIGHTER

D8S MCDONNELL DOUGLAS DC-S (ALL
60 AND 70 SERIES)

D8X SAME AS D8F

D91 MCDONNELL DOUGLAS DC9-10

D95 MCDONNELL DOUGLAS DC9-50

D98 MCDONNELL DOUGLAS DC9-80

D9S MCDONNELL DOUGLAS DC9-30 AND
40 SERIES

DC8 MCDONNELL DOUGLAS DC8
PASSENGER JET (ALL 10,20,30,
40,50, AND 60 SERIES)

DC9 MCDONNELL DOUGLAS DC9-10 AND
20 SERIES

IL6 ILLUSHIN IL-62

L10 LOCKHEED L1011 (ALL SERIES)

L12 LOCKHEED L1011-200

L15 LOCKHEED L1011-500

M80 MCDONNELL DOUGLAS DC9-80

SSC SUPERSONIC CONCORDE

YK4 YAK 40

146 BAC 146

310 AIRBUS INDUSTRIE A310

320 AIRBUS A320

703 BOEING 707-320

707 BOEING 707 PASSENGER JET
(ALL SERIES)

70F BOEING 707 FREIGHTER (ALL)

721 BOEING 727-100

722 BOEING 727-200

727 BOEING 727 PASSENGER JET
(ALL SERIES)

72A BOEING 727-200 ADVANCED

72F BOEING 727 FREIGHTER (ALL)

72M BOEING 727-100 MIXED PASSEN-
GER/FREIGHTER WITH CARGO DOOR

72S BOEING 727-200

72X BOEING 727

732 BOEING 737-200

733 BOEING 737-300

737 BOEING 737 PASSENGER JET
(ALL SERIES)

73A BOEING 737-200-ADVANCED

73B BOEING 747-200-B

73M BOEING 737-200 MIXED
PASSENGER/FREIGHTER

73S BOEING 737-200

747 BOEING 747 PASSENGER JET
(ALL SERIES)

74F BOEING 747 FREIGHTER

74L BOEING 747 SP

74M BOEING 474 MIXED PASSENGER
AND FREIGHTER

751 BOEING 757

757 BOEING 757 (ALL SERIES)

761 BOEING 767

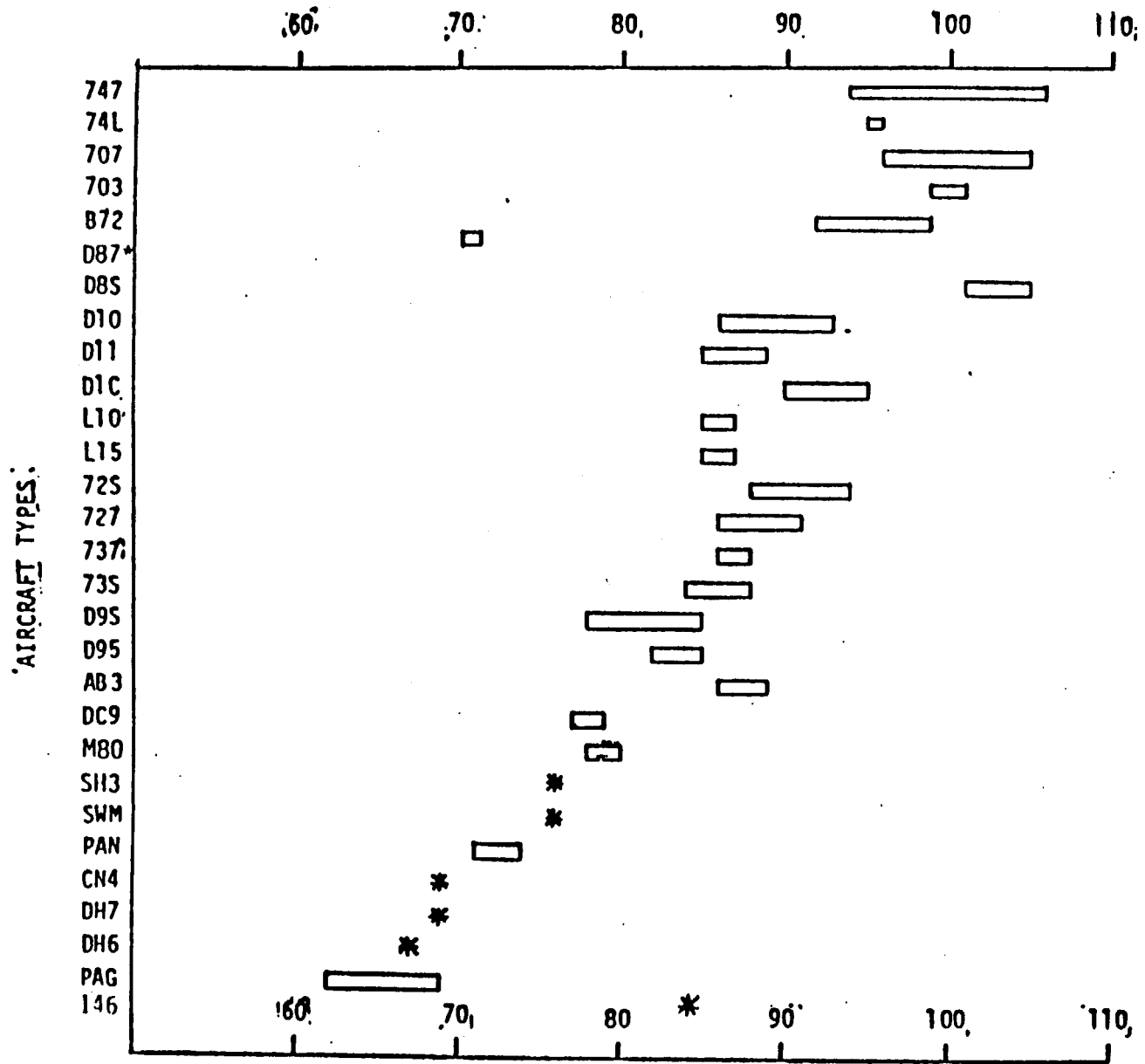
762 BOEING 767-200

767 BOEING 767 (ALL SERIES)

PROPELLER AIRCRAFT CODES

ACD AERO COMMANDER
AN4 ANTONOV AN 24
BE1 BEECHCRAFT 18
BE9 BEECHCRAFT 99
BEC BEECHCRAFT (ALL SERIES)
BEQ BEECHCRAFT QUEEN AIR
BET BEECHCRAFT (ALL SERIES TURBOPROP)
BNI BRITTEN NORMAN ISLANDER
BNT BRITTEN NORMAN TRISLANDER
CD2 GAF N22/24 NOMAD
CN4 CESSNA 402
CNA CESSNA (ALL SERIES MULTI-ENGINE)
CVR CONVAIR (ALL SERIES PROP/TURBO)
DC3 MCDONNELL DOUGLAS CD3 DAKOTA C47)
DH6 DE HAVILLAND CANADA DHC-6-300)
DH7 DE HAVILLAND CANADA DHC-7
DHH DE HAVILLAND HERON
DHP DE HAVILLAND CANADA BEAVER
DHR DE HAVILLAND RILEY 400
DHT DE HAVILLAND CANADA TWIL OTTER
EMB BANDEIRANTE (EMBRAER)
EM2 EMB - 120 BRASILIA
FK7 FAIRCHILD-MILLER FH227
FKF FOKKER FRIENDSHIP (ALL SERIES)
GRG GRUMMAN G-21A GOOSE
GRM GRUMMAN HALLARD
GRS GRUMMAN GULFSTREAM 1
HPJ HANDLEY PAGE JETSTREAM
HS7 HAWKER SIDDELEY 748
IL4 ILLYUSHIN IL-14
IL8 ILLYUSHIN IL-18
J31 BRITISH AEROSPACE JETSTREAM 31
LCE LOCKHEED ELECTRA TURBOPROP
LPA LIGHT PROPELLER AIRCRAFT
(TYPE MAY VARY)
MR4 MARTIN 404
ND2 NORD 262
PAF PIPER CHIEFTAN
PAG PIPER (ALL SERIES MULTI-ENGINE)
PAN PIPER NAVAJO
SA2 SAUNDERS ST-27-ST2
SH3 SHORT BROS AND HARLAND SD3-30
SWM SWEARINGEN METRO
TS6 TED SMITH AEROSTAR 601)
YS1 NAMCO YS-11
298 NORD 2988 (MOHAWK 298)

AIRCRAFT TAKEOFF NOISE (DBA)



*DC9 equipped with CFM-56 engine.

SOURCE: Federal Aviation Advisory Circular 36-3, "Estimated Airplane Noise Levels in A-Weighted Decibels."