			BA	Y	AR	E/	A A	IR	PO)LL	UT	10	N	SU	MN	ЛΑ	RY	7 – 2	201	7						
MONITORING STATIONS			ozo	ONE				ARBO DNOXI			NITRO COID				SULI				PM	l ₁₀			P	M _{2.5}		
	Max 1-Hr	Cal 1-Hr Days	Max 8-Hr	Nat 8-Hr Days	Cal 8-Hr Davs	3-Yr Avg	Max 1-Hr	Max 8-Hr	Nat/Cal Days	Max 1-Hr	Ann Avg	Nat 1-Hr Days	Cal 1-Hr Days	Max 1-Hr	Max 24-Hr	Nat 1-Hr Days	Cal 24-Hr Days	Ann Avg	Max 24-Hr	Nat 24-Hr Days	Cal 24-Hr Days	Max 24-Hr	Nat 24-Hr Days	3-yr Avg	Ann Avg	3-yr Avg
North Counties	(ppb)	,_	(ppb)	,-			(pp	m)		(pr	ob)	,_	,-	(pp	do)			(μg/	'm ³)	,-	,-	(µg/m³)	,-		(μg/	/m³)
Napa	98	1	84	2	2	63	5.6	4.7	0	53	7	0	0	*	-	-	_	-	*	=	-	199.1	13	35		10.9
San Rafael	88	0	63	0	0	58	2.6	1.6	0	53	10	0	0		-	-	1=1	17.7	94	0	2	74.7	8	27	9.7	8.2
Sebastopol	87	0	71	1	1	53	2.1	1.6	0	35	5	0	0					-	, 501	=	-	81.8	4	21	8.1	6.5
Vallejo	105	1	88	2	2	61	3.1	2.1	0	49	8	0	0	5.9	2.1	0	0	-	-	-	=	101.9	9	30	11.6	9.5
Coast & Central Bay																										
Berkeley Aquatic Park*	58	0	49	0	0	*	2.2	1.7	0	123	16	1	0	21	=	-	-	-	<u>12</u> 2)	<u>~</u>	2	52.0	7	*	9.1	*
Laney College Freeway	:-	-	-	-8	-	-	1.9	1.3	0	68	17	0	0	:	1=3	-:	t = t	-	-0	-	-	70.8	8	27	11.6	10.1
Oakland	136	2	100	2	2	54	3.2	2.2	0	65	10	0	0	=	-	-	=	ě		<u>=</u>	- <u> </u>	70.2	7	24	9.4	7.9
Oakland-West	87	0	68	0	0	48	6.0	2.1	0	52	13	0	0	16.9	2.2	0	0	-	= (:	-	-	56.0	7	28	12.8	10.6
Richmond		=	-	=	.=.1	.=.:	s 		1.7	-	5.77	13 .71	-	16.0	2.9	0	0	-	5 51	=	-	-	175	1855	-	-
San Francisco	87	0	54	0	0	47	2.5	1.4	0	73	11	0	0	<u>-</u>	=	-	(<u>=</u>)	22.0	77	0	2	49.9	7	27	9.7	8.3
San Pablo	104	3	80	2	2	52	2.5	1.9	0	48	8	0	0	8.3	2.7	0	0	20.3	95	0	4	71.2	9	30	10.8	9.3
Eastern District																										
Bethel Island	90	0	71	1	2	68	1.6	1.0	0	34	5	0	0	5.3	3.5	0	0	16.3	52	0	1	-	=	::=	-0:	-
Concord	82	0	70	0	0	66	1.7	1.3	0	41	7	0	0	13.2	2.6	0	0	13.3	41	0	0	89.4	6	26	12.0	8.9
Crockett	5 .5	=	-	-	===	();	1.7	15	15	-	(, -)	65	-	23.5	5.6	0	0	-	5 31	=	-	-	15	1850	 .a	 21
Fairfield	80	0	62	0	0	63	=			-	-		3	<u>=</u>	8	-	-	Ē	<u>=</u>		<u></u>	-		-	-	-
Livermore	109	5	86	6	6	75	-	n ≔	·	45	9	0	0		-	*	(=)	-	-	-	-	41.5	2	25	8.5	8.2
Martinez	5 =	-	-	-	-	-	-	-	-	_	-	-	-	15.9	3.1	0	0	-	-0:	-	-	-	:=	13=	-:	-
San Ramon	92	0	75	2	2	68	-	v = .	v 	31	5	0	0	-	=			-	= 0		=	-	-	() =		
South Central Bay																										
Hayward	139	2	110	3	4	65	:=:	:=	9=	1=1	(=)	: -	-	-	-	-	1=1	-	-	-	-	-	:=	19-	-	=
Redwood City	115	2	86	2	2	56	2.8	1.4	0	67	11	0	0	-8	=	-	-	-	-3	-	-	60.8	6	23	9.1	7.7
Santa Clara Valley		172		-	372																	0	_	12212		2
Gilroy	96	1	84	1		64	-	**	**	=	(=)	:: <u></u>	=	<u>-</u>	= 7	** 3	(=)	-		=	=	48.4	2	18	5.5	6.1
Los Gatos	93	0	75	3	3	66	(=) (a)	0 = 828 148	1 =	1 = 3	1=	-	-	-	-	- ·	1=0 920	-		- 9	-	-			-	-
San Jose	121	3	98	4	4	67	2.1	1.8	0	68	12	0	0	3.6	1.1	0	0	21.6	70	0	6	49.7	6	27	9.5	
San Jose Freeway	-	**	=	-	-	-	2.6	1.8	0	77	17	0	0	-	=		-	÷	-	÷	- 12	48.4	8	28	10.8	9.4
San Martin	96	1	86	3	3	69	-	3.2 <u>-1</u> 7	32 <u>-4</u> 5	-	N <u>=</u> 0	en a	-	<u>=</u> 23	2 3	**	<u>•</u> ≅	*	<u>=</u> ;	<u>-</u>	<u>=</u>	-	32 <u>4</u> 2	15	-	= 0
Total Bay Area		6		6	6				0			1	0			0	0			0	6		18			

Days over Standard

*See NOTES on second page.

Dash (-) indicates pollutant is not monitored at the site.

2017 NOTES

The annual Bay Area Air Pollution Summary summarizes pollutant concentrations for comparison to the national and California air pollution standards.

*Station Information (see asterisks on front page)

Near-road air monitoring at Berkeley Aquatic Park began on July 1, 2016. Therefore, 3-year averages for ozone and PM_{2.5} statistics are not available.

Explanation of Terms

State and national exceedances occur when pollutant concentrations exceed the indicated standards. For comparison, values in ppb must be converted to ppm and rounded to the same number of decimal places as the original standard.

MAX HR / MAX 8-HR / MAX 24-HR

The highest average pollutant concentration over a one-hour period, an eight-hour period (on any given day), or a 24-hour period (from midnight to midnight).

ANN AVG

The yearly average (arithmetic mean) of the readings taken at a given monitoring station.

NAT DAYS

The number of days during the year for which the monitoring station recorded pollutant concentrations exceeding the national standard.

CAL DAYS

The number of days during the year for which the station recorded pollutant concentrations exceeding the California standard.

TOTAL BAY AREA DAYS OVER STANDARD

is not a sum of exceedances at individual stations, but rather the number of days where at least one site recorded an exceedance.

3-YR AVG (Nat. 8-hr ozone standard)

The 3-year average of the fourth highest 8-hour average ozone concentrations for each monitoring station. A 3-year average greater than 70 ppb at any monitoring station means that the region does not meet the standard and may be designated non-attainment by the EPA.

PM₁₀

Particulate matter ten microns or smaller in size. PM_{10} is sampled every third day at San Jose and every sixth or twelfth day at all other sites.

PM_{2.5}

Particulate matter 2.5 microns or smaller in size. PM_{2.5} is a sub-category of PM₁₀.

PM₁₀ ANN AVG and MAX 24-HR

This table shows PM_{10} data reported at local temperature and pressure conditions, according to the California standards. National PM_{10} data are converted to standard temperature and pressure conditions, which generally results in slightly lower readings.

3-YR AVG (PM_{2.5} 24-hour standard)

The 3-year average of the annual 98th percentiles of the individual 24-hour concentrations of PM_{2.5}. A 3-year average greater than 35 $\mu g/m^3$ at any monitoring station means that the region does not meet the standard and may be designated non-attainment by the EPA.

3-YR AVG (PM_{2.5} annual standard)

The 3-year average of the quarterly averages of PM_{2.5}. A 3-year average greater than 12.0 μ g/m³ at any monitoring station means that the region does not meet the standard and may be designated non-attainment by the EPA.

HEALTH-BASED AMBIENT AIR QUALITY STANDARDS

	"DIENT ANT	WALLI WIA	
Pollutant	Averaging Time	California Std	National Std
Ozone*	1 Hour	0.09 ppm	=
	8 Hour	0.070 ppm	0.070 ppm
Carbon Monoxide	1 Hour	20 ppm	35 ppm
	8 Hour	9.0 ppm	9 ppm
Nitrogen Dioxide	1 Hour	0.18 ppm	0.100 ppm
	Annual	0.030 ppm	0.053 ppm
Sulfur Dioxide	1 Hour	-	0.075 ppm
	24 Hour	0.04 ppm	
Particulates ≤ 10 microns	24 Hour	50 μg/m ³	150 μg/m ³
	Annual	20 μg/m ³	_
Particulates ≤ 2.5 microns	24 Hour	·	35 μg/m ³
	Annual	12 μg/m ³	12.0 μg/m ³

^{*} In October 2015, the U.S. EPA implemented a new 8-hour ozone standard of 70 ppb. Exceedances are based on this standard (note that national and state numbers can differ due to data-handling conventions).

Concentrations

parts per million

ppb

μg/m3

parts per billion micrograms per cubic meter

TEN-YEAR BAY AREA AIR QUALITY SUMMARY DAYS OVER CURRENT STANDARDS

	DAYS OVER CURRENT STANDARDS													
		OZONE		ı		BON OXIDE		NITRO DIOX			FUR XIDE	PN	l ₁₀	PM _{2.5}
YEAR	8-Hr	1-Hr	8-Hr	1-	Hr	8-	Hr	1-1	Hr	1-Hr 24-Hr		24-	Hr	24-Hr
	Nat Cal			Nat Cal Nat Cal		Nat Cal		Nat Cal		Nat Cal		Nat		
2008	19	9	20	0	0	0	0	0	0	2	0	0	5	12
2009	11	11	13	0	0	0	0	0	0	0	0	0	1	11
2010	11	8	11	0	0	0	0	0	0	0	0	0	2	6
2011	9	5	10	0	0	0	0	0	0	0	0	0	3	8
2012	8	3	8	0	0	0	0	1	0	0	0	0	2	3
2013	3	3	3	0	0	0	0	0	0	0	0	0	6	13
2014	9	3	10	0	0	0	0	0	0	0	0	0	2	3
2015	12	7	12	0	0	0	0	0	0	0	0	0	1	9
2016	15	6	15	0	0	0	0	0	0	0	0	0	0	0
2017	6	6	6	0	0	0	0	1	0	0	0	0	6	18