

Scenario Activity:

In this activity, participants will practice examining health and environmental data and using data to inform community action and advocacy. Participants will incorporate and interpret data from various sources, data of varying quality, and data that may be unrelated to their issue. Finally, participants will demonstrate their ability to apply data to develop concise messages for a specific target audience.

Instructions:

60 min

- (1) In the breakout group, review the information provided.
- (2) Designate a scribe and answer the following questions on flip charts:
 - What do these data suggest? (What do you see as the problem?)
 - What are possible actions you could take?
 - What additional information would help you to make your case?
- (3) Choose a specific audience and frame a 3-minute message based on the information. Examples of audiences include: community members, city council, public health officials, city planning commission, media, University researchers, etc. At the end of the exercise, these messages will be presented to the large group. Select representative(s) to present your case (deliver your message).

60 min

Each small group will have 5 minutes to briefly describe the data that they were provided. Then, they will present their messages to the selected “audience.” We will take brief comments from the large group after the presentations, and if time permits, we will follow with a large group discussion.

Scenario:

Sun County borders a large agricultural region to its east. You live in the urban Midtown area, in a community called **Midtown East** located a few miles west of the agricultural fields.

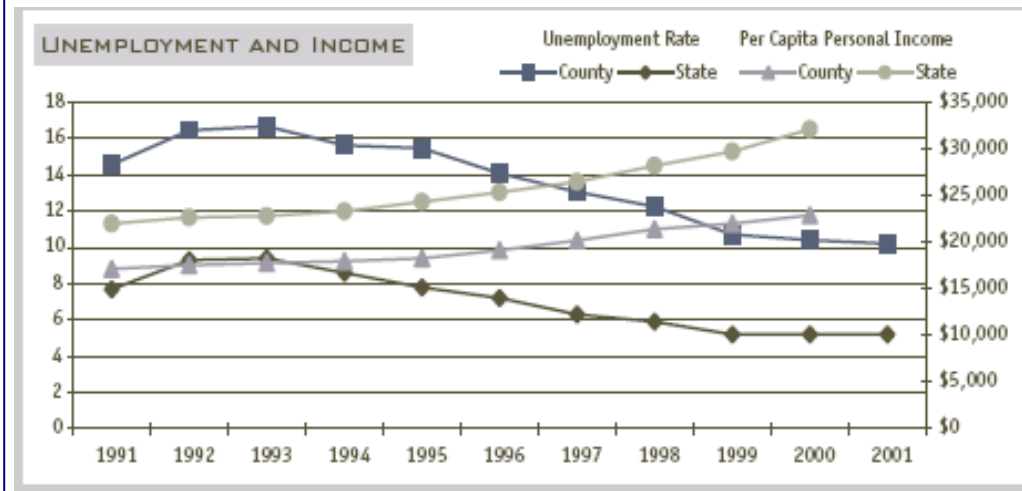
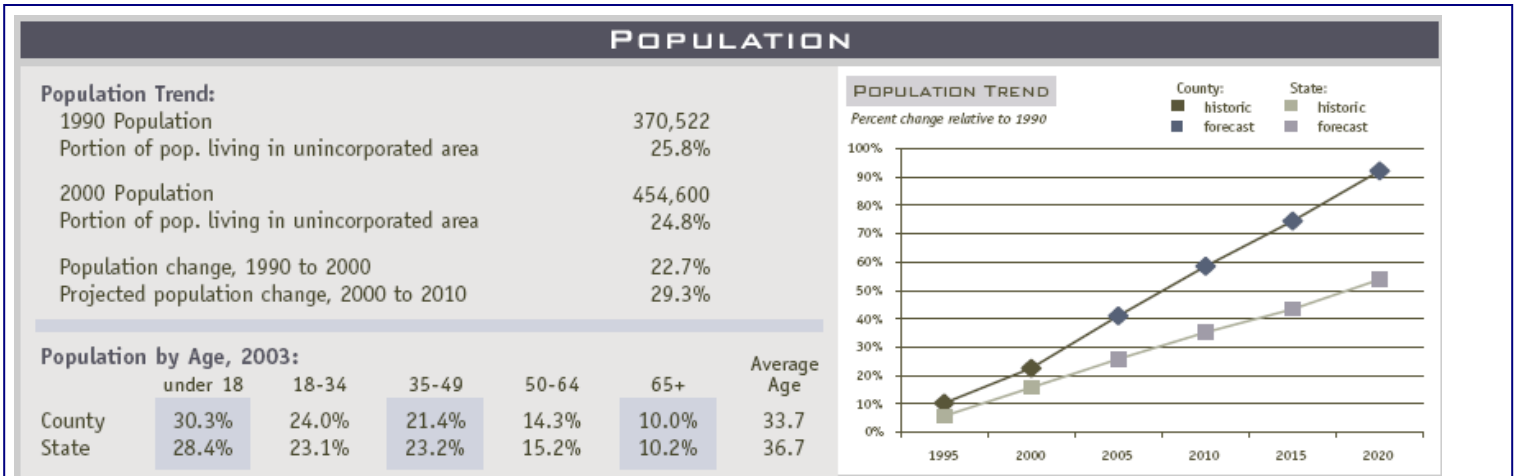
A large agricultural business called Big-Ag owns a distribution center and some fields in the eastern portion of Sun County (known as Sun Fields), as well as fields in the county neighboring to the east.

Big-Ag has recently purchased several of the smaller, family-owned farms in Sun Fields. In anticipation of their increased production, Big-Ag is planning on increasing the capacity of its current distribution center (located just to the east of your community), which will now act as Big-Ag’s major distribution center in the area.

In order to accommodate the anticipated increase in truck traffic to and from the distribution center, there is a proposal to add a set of on/off ramps that would connect the distribution center directly to the highway. The proposed location of this off/on ramp is about 0.5 miles from a public elementary school in Midtown East.

An Environmental Impact Report (EIR) for the development of the highway on/off ramps is scheduled to be completed and released in 2 months.

Sun County Statistics



California Institute for County Government
<http://www.cicg.org/publications/profiles/factbook.php>

Census Tract Data on Poverty and Race

Census Tract	% Persons Below Poverty	% People of Color
1	1.2 %	9.3 %
2	2.1 %	10.2 %
3	12.4 %	38.0 %
4	13.0 %	60.5 %
5	6.2 %	22.6 %
6	19.8 %	39.0 %
7	22.2 %	55.9 %
8	11.0 %	45.2 %
9	21.5 %	68.0 %
10	8.7 %	20.2 %
11	21.3 %	30.5 %
12	26.0 %	59.5 %

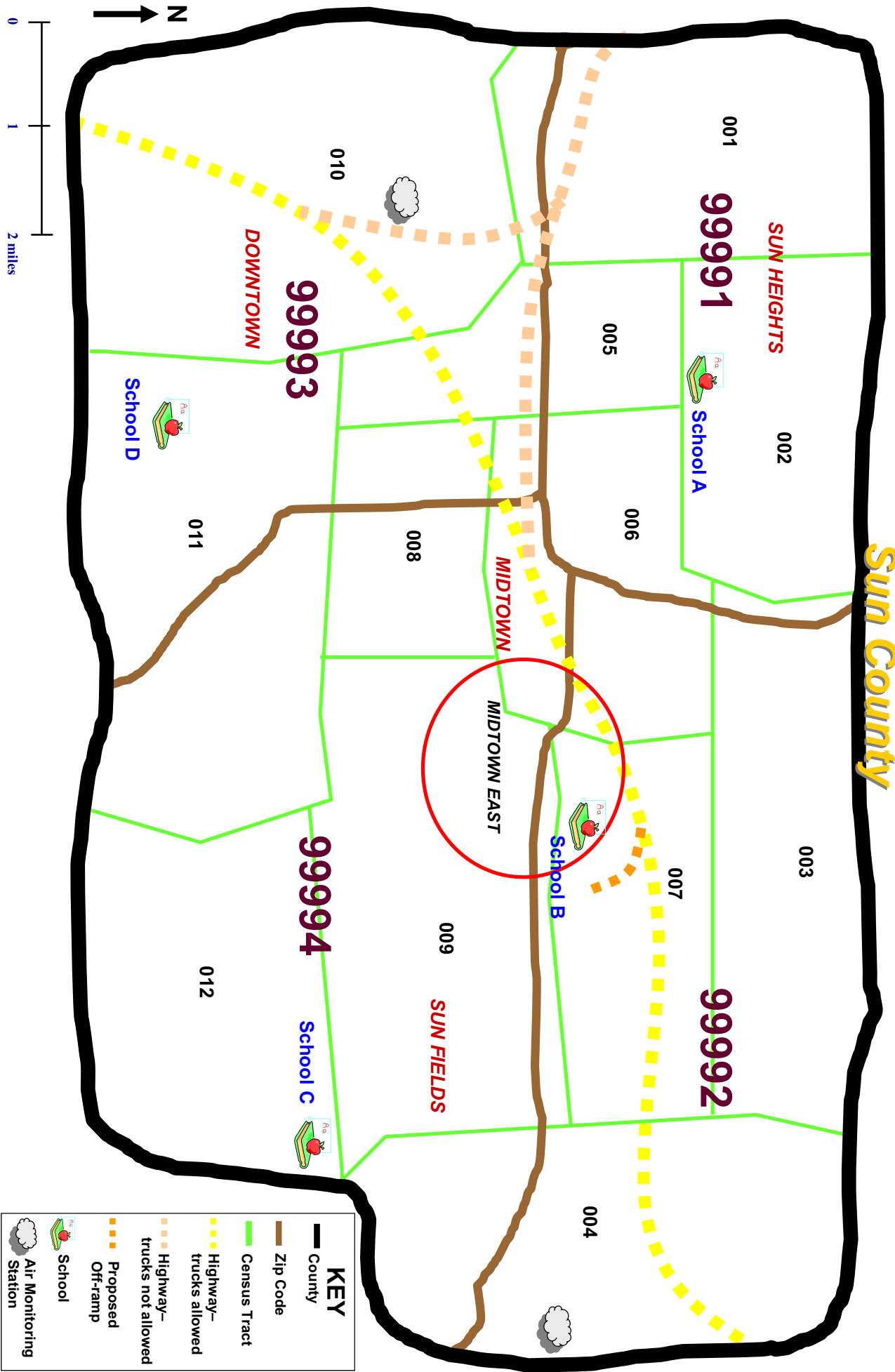
US Census 2000
<http://www.census.gov/main/www/cen2000.html>

State Comparisons

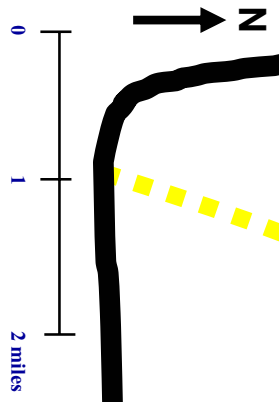
People QuickFacts	Sun County	California
White persons, percent, 2000	34.0%	59.5%
Black or African American persons, percent, 2000	15.0%	6.7%
American Indian and Alaska Native persons, percent, 2000	1.1%	1.0%
Asian persons, percent, 2000	11.0%	10.9%
Native Hawaiian and Other Pacific Islander, percent, 2000	0.6%	0.3%
Persons reporting some other race, percent, 2000	7.5%	16.8%
Persons reporting two or more races, percent, 2000	5.8%	4.7%
Persons of Hispanic or Latino origin, percent, 2000	46.0%	32.4%
Bachelor's degree or higher, pct of persons age 25+, 2000	14.8%	26.6%
Persons below poverty, percent, 1999	14.1%	14.2%

US Census 2000: <http://quickfacts.census.gov/qfd/states/06000.html>

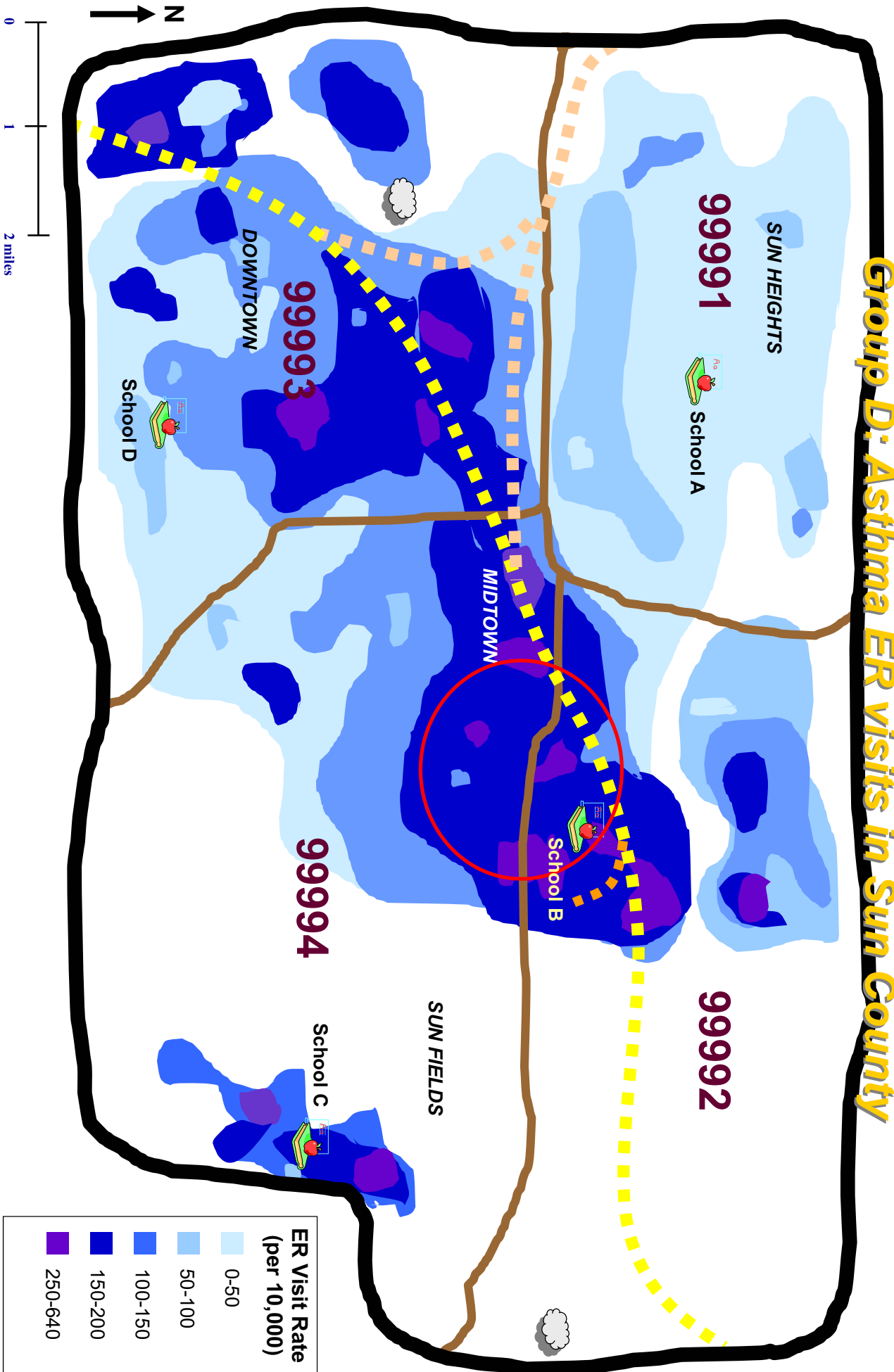
Sun County



KEY	
	County
	Zip Code
	Census Tract
	Highway—trucks allowed
	Highway—trucks not allowed
	Proposed Off-ramp
	School
	Air Monitoring Station



Group D: Asthma ER visits in Sun County



Group D

Asthma hospitalizations

Age-Adjusted Asthma Hospitalizations Rate*
Sun County, 2000

15.0 (Confidence Interval 14.0 – 16.0) Per
10,000 residents

Statewide rate for 2000 = 10.54 (Confidence
Interval 10.43-10.64)

Rates by Zip Codes

Zip Code	Asthma Hospitalization Rate (per 10,000)	95% Confidence Interval
99991	5.6	4.2-6.6
99992	40.4	37.9-45.3
99993	30.4	38.0-34.3
99994	12.5	12.1-12.8

Racial and Ethnic Disparities

Race/Ethnicity	Asthma Hospitalization Rate (per 10,000)	95% Confidence Interval
African-American	33.85	30.13-37.74
Asian/Pacific Islander	7.72	5.74-10.01
Non-Hispanic White	13.11	12.37-13.87
Hispanic	13.46	12.36-14.61

Low Birthweight California Department
of Health Services, Center for Health Statistics:
<http://www.dhs.ca.gov/hisp/chs/>

Low Birthweight
Rate, Sun County,
2002

1.2 Per 1,000
residents

Statewide rate for
2000 = .6

Rates by Zip Codes

Zip Code	Low Birthweight Rate (per 1000)
99991	.5
99992	2.4
99993	1.6
99994	2.5

Racial and Ethnic Disparities

Race/Ethnicity	Low Birthweight Rate (per 1000)
African-American	2.9
Asian/Pacific Islander	1.3
Non-Hispanic White	.6
Hispanic	1.5
American Indian	.5

Air pollution

2003 Estimated Annual Average Emissions SUN COUNTY

All emissions are represented in Tons per Day and reflect the most current data provided to ARB.

See detailed information.

Start a new query.

STATIONARY SOURCES	TOG	ROG	CO	NOX	SOX	PM	PM10	PM2.5
FUEL COMBUSTION	23.8	4.4	14.3	62.3	1.3	8.4	8.4	4.9
WASTE DISPOSAL	42.8	1.6	0.1	0.1	0.0	0.0	0.0	0.0
CLEANING AND SURFACE COATINGS	12.8	8.8	0.0	0.0	-	0.0	0.0	0.0
PETROLEUM PRODUCTION AND MARKETING	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
INDUSTRIAL PROCESSES	3.9	3.3	14.2	39.4	3.0	28.8	10.7	4.9
* TOTAL STATIONARY SOURCES	91.3	21.2	28.6	101.8	4.3	37.2	19.1	9.9
AREA-WIDE SOURCES	TOG	ROG	CO	NOX	SOX	PM	PM10	PM2.5
SOLVENT EVAPORATION	22.3	19.6	-	-	-	0.0	0.0	0.0
MISCELLANEOUS PROCESSES	96.4	11.3	50.9	4.8	0.1	209.4	113.7	29.2
* TOTAL AREA-WIDE SOURCES	118.7	31.0	50.9	4.8	0.1	209.4	113.7	29.2
MOBILE SOURCES	TOG	ROG	CO	NOX	SOX	PM	PM10	PM2.5
ON-ROAD MOTOR VEHICLES	44.7	41.2	432.2	94.1	0.6	2.5	2.5	1.7
OTHER MOBILE SOURCES	33.0	30.4	168.7	75.7	4.6	4.3	4.1	3.6
* TOTAL MOBILE SOURCES	77.8	71.6	600.9	169.8	5.2	6.8	6.6	5.3
NATURAL (NON-ANTHROPOGENIC) SOURCES	TOG	ROG	CO	NOX	SOX	PM	PM10	PM2.5
NATURAL SOURCES	1.1	0.6	18.3	0.9	-	3.7	3.6	3.2
* TOTAL NATURAL (NON-ANTHROPOGENIC) SOURCES	1.1	0.6	18.3	0.9	-	3.7	3.6	3.2
GRAND TOTAL	288.9	124.4	698.7	277.3	9.6	257.2	142.9	47.6

Cal/EPA, Air Resources Board, Air Quality, Emissions, and Modeling
<http://www.arb.ca.gov/html/age&m.htm>

Pesticides

Table 1. Total pounds of pesticide active ingredients reported during 2001 and 2002 and its rank among all 58 counties.

County	2001 Pesticide Use		2002 Pesticide Use	
	Pounds Applied	Rank	Pounds Applied	Rank
Alameda	306,658	39	318,298	39
Alpine	345	58	254	58
Amador	103,617	44	100,676	44
Butte	2,764,336	17	2,896,425	18
Contra Costa	425,762	36	578,451	35
Del Norte	350,262	37	373,171	37
El Dorado	81,552	46	96,860	45
Fresno	24,792,033	1	28,703,387	1
San Mateo	221,161	41	223,207	41
Santa Cruz	1,533,447	27	1,535,262	27
Shasta	274,523	40	345,140	38
Sierra	3,723	57	7,442	55
Siskiyou	500,664	33	879,061	30
Solano	1,118,160	28	1,311,203	29
Sonoma	2,616,791	18	2,975,827	17
Sun	4,240,332	11	4,614,767	11
Sutter	3,073,416	15	3,551,315	14
Tehama	739,301	30	818,802	32
Trinity	12,692	54	7,846	54
Tulare	12,830,835	3	12,757,249	3
Tuolumne	48,328	49	73,549	46
Ventura	6,430,535	9	6,482,850	8
Yolo	2,407,429	19	2,256,580	19
Yuba	972,243	29	1,432,139	28
Total	151,124,888		172,086,290	

Department of Pesticide Regulation, Pesticide Use Reporting
<http://www.cdpr.ca.gov/docs/pur/purmain.htm>

Air pollution

Ozone Trends Summary: Station East, Sun County

Year	Days > Standard			1-Hour Observations		8-Hour Averages		EPDC	Year Coverage
	1-Hour		8-Hour	Maximum	3-Year 4th High	Maximum	3-Year Average 4th High		
	State	Nat'l	Nat'l						
2003	56	5	47	0.135	0.135	0.111	0.106	0.145	99
2002	45	11	41	0.144	0.135	0.119	0.105	0.146	98
2001	51	5	40	0.135	0.135	0.113	0.104	0.137	98
2000	48	5	41	0.143	0.146	0.109	0.108	0.149	96
1999	53	4	45	0.135	0.146	0.123	0.106	0.147	98
1998	46	15	44	0.151	0.146	0.118	0.108	0.155	97
1997	30	1	23	0.128	0.140	0.107	0.105	0.153	98
1996	59	15	49	0.146	0.140	0.123	0.107	0.153	97
1995	65	14	53	0.173	0.140	0.126	0.108	0.152	99
1994	56	7	51	0.140	0.140	0.111	0.107	0.151	99



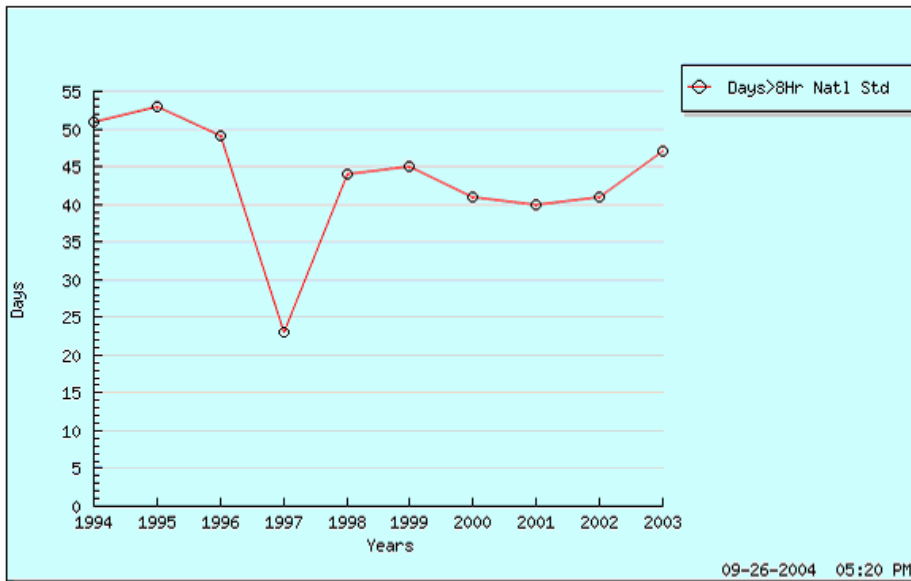
Years: Ozone data are available for this site from 1990 through 2003.

Notes: All concentrations expressed in parts per million.

State exceedances shown in **yellow**. National exceedances shown in **orange**.

An exceedance is not necessarily a violation.

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Years: Ozone data are available for this site from 1990 through 2003.

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Cal/EPA, Air Resources Board, Air Quality, Emissions, and Modeling

<http://www.arb.ca.gov/html/age&m.htm>

Pesticides

Pesticide Use within 1.5 Miles of California Schools

Sun County

School	Pounds of pesticides applied within 1.5 miles
A	0
D	0
B	25,834
C	124,320

<http://www.ewg.org/@risk/>