Solano County Data

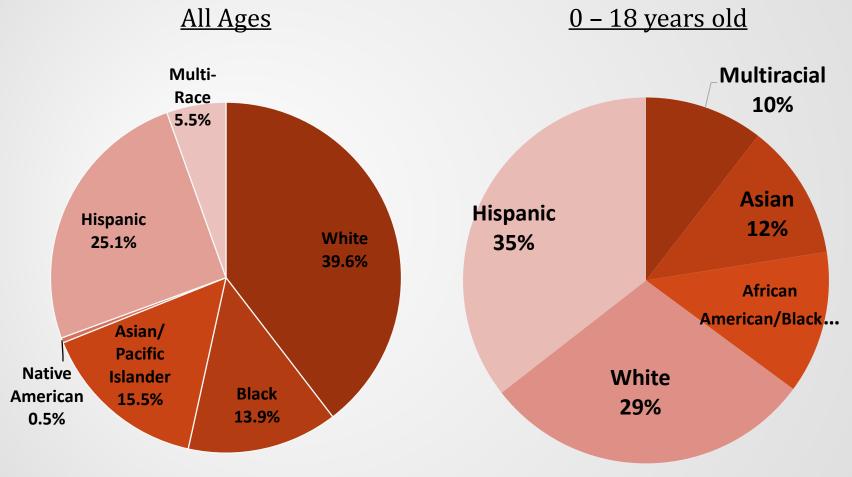
Air pollution: Social Determinants & Health Impacts

AB 617 Community Health Protection Program Meeting Vallejo

Presentation Overview

- Solano County Community Profile
- Social Determinants of Health
- Health Burdens
- Looking Ahead

Solano County Demographics Race/Ethnicity



Total Population: 440,207

Source: CA Department of Finance; Demographics Report; ACS: B03002; Race Ethnicity 2014-2016

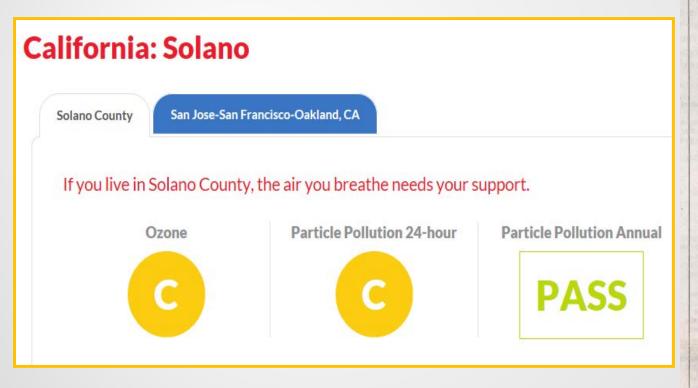
Solano County Demographics Age and Gender

- Median age: 37 years
 - White, non-Hispanic: 46 years
 - Hispanic: 27 years
- Children under 18 years: 23% of population
- Adults 65 years and older: 13% of population
- Gender
 - 50% Male
 - 50% Female

Life Expectancy

- Lowest: (South/Central Vallejo) : 77.45
- County: 79.11 State: 80.50

Solano County Health Burdens American Lung Association Report Card



American Lung Association; State of the Air, 2018

http://www.lung.org/our-initiatives/healthy-air/sota/city-rankings/states/california/solano.html

Solano gets a 'C' for air quality

TODD R. HANSEN THANSEN@DAILVREPUBLIC.NET

FAIRFIELD — Solano County was given a "C" for its air quality, according to the State of the Air 2018 report released Wednesday.

The report is based on air quality monitoring data collected in 2014-2016, and does not include

The report

focuses on

smog, and

particle

ozone, which is

pollution. They

are the most

widespread

forms of air

threatening

public health

pollution

the historic wildfires of late 2017. The report focuses on ozone, which is smog, and particle pollution. They are the most widespread forms of air pollution that threaten public health.

The report is issued annually by the American Lung Association in California. Solano's grade is

based on an average of 1.3 unhealthy ozone days each year

during the data collection period, and an average of 1.7 days of unhealthy particle totals. An average of 3.3 days would have resulted in a failing grade.

The report uses data tracked and approved by the U.S. Environmental Protection Agency. There are single monitors in Fairfield, Vacaville and Vallejo, the American Lung Association in California reported.

As a metro area, a 12-county San Francisco Bay Area ranked 13th for

American Lung Association Groups at Risk

Groups	At Risk
--------	---------

Total Population:	440,207	Risks to the population	
Pediatric Asthma:	7,632	Risks to people with Asthma	1.7%
Adult Asthma:	26,868	Risks to people with Asthma	6.1%
COPD:	15,692	Risks to people with COPD	3.5%
Lung Cancer:	187	Risks to people with lung cancer	
Cardiovascular Disease:	23,524	Risks to people with Cardiovascular D	isease
Diabetes:	36,132	Risks to people with Diabetes	
Children Under 18:	99,277	Risks to children and teens	
Adults 65 & Over:	64,554	Risks to older adults	
Poverty Estimate:	48,701	Risks to people with low incomes	

American Lung Association; State of the Air, 2018 http://www.lung.org/our-initiatives/healthy-air/sota/city-rankings/states/california/solano.html

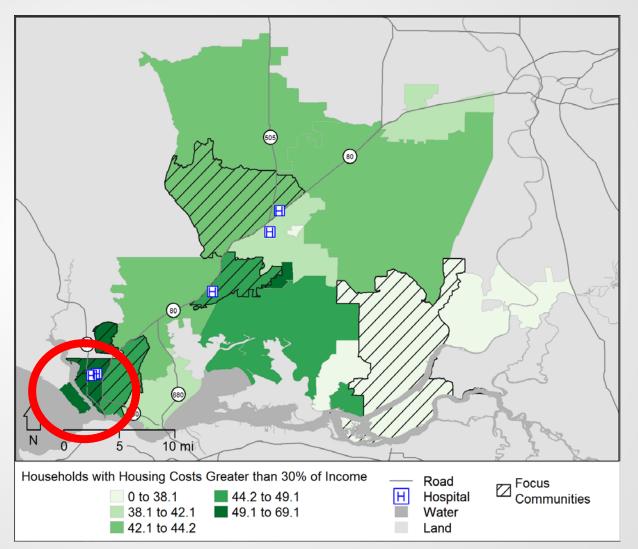
Social Determinants of Health Housing Burden

ZIP Code	Percent Under 100% Federal Poverty Level	Percent Families with Children in Poverty	Percent Single Female Headed Households in Poverty	Percent Elderly in Poverty
North Vallejo 94589	17.7	21.6	34.5	2.74
South/ Central Vallejo 94590	25	29	41.6	3.53
East Vallejo 94591	12.5	16.6	35.3	1.5
Mare Island 94592	6	11.1	100	0
Solano County	13	15.4	34.2	1.8
State of CA	15.9	17.8	36.8	2.26

"There's kind of like a cycle of poverty because there's not a lot of resources, so people grow up and they don't have the resources so they end up being poor again."

Community Health Needs Assessment; Solano County Community Health Assessment, 2016

Social Determinants of Health Housing Burden



Community Health Needs Assessment; Solano County Community Health Assessment, 2016

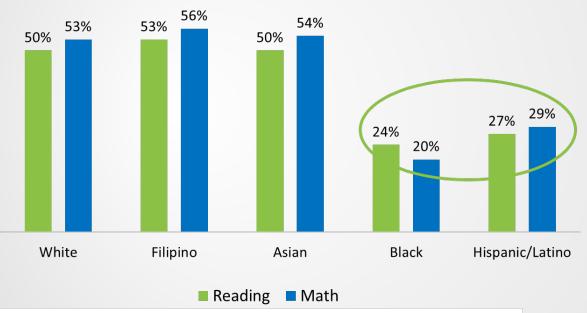
Social Determinants of Health Employment

Zip Code	Percent Unemployed	Median Income
Benicia - 94510	7%	\$88,930
North Vallejo - 94589*	13%	\$56 <i>,</i> 068
South/Central Vallejo - 94590*	17%	\$41,819
East Vallejo - 94591*	13%	\$73,509
Solano County	11%	\$67,177
CA State	9%	\$61,094

Sources: ¹US Census, American Community Survey, 2011-2015 5-year estimates

Social Determinants of Health Education

Third Graders Advanced or Proficient in Reading and Math in Solano, by Race/Ethnicity 2015-16



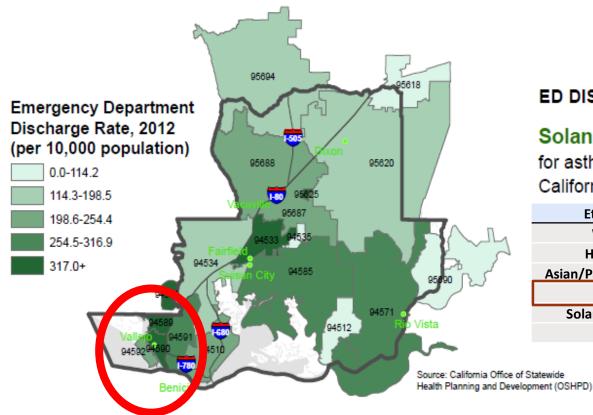
Note: Number of 3rd graders tested—White: 1,193; Filipino: 359; Asian: 1*57*; Black: 709; Hispanic/Latino: 1,930 Source: California Department of Education, DataQuest 88% Solano adults 25 years and older have a <u>high</u> <u>school degree</u> or higher

35% Solano adults 25 years and older have an <u>associates degree</u> or higher

25% Solano adults 25 years and older have a <u>Bachelor's degree</u> or higher

Source: American Community Survey, 2011-2015; table B15003

Solano County Health Burdens Asthma



ED DISCHARGE RATE:

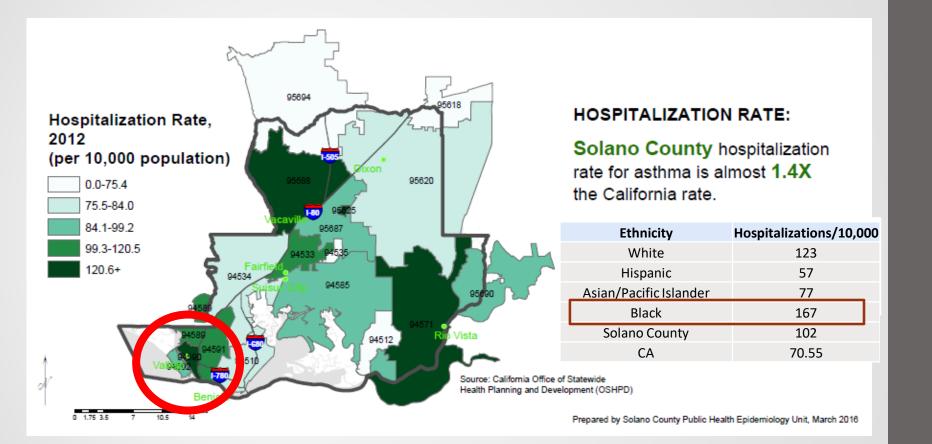
Solano County ED discharge rate for asthma is almost 1.9X the California rate.

Ethnicity	ED Visits/10,000
White	271
Hispanic	181
Asian/Pacific Islander	148
Black	625
Solano County	276
СА	148

South/Central Vallejo Asthma ED Rate (470.83 per 10,000) is **more than triple** CA Rate

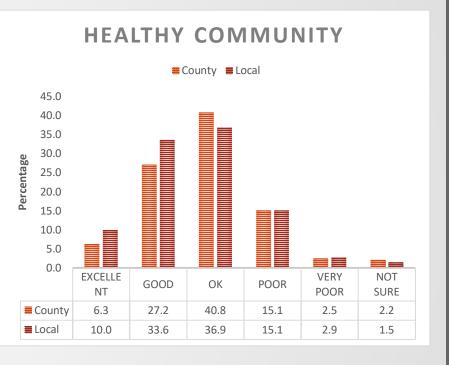
% Adults that had ever been told by a doctor that they have asthma is **double** CA rate

Solano County Health Burdens Asthma



Solano County Health Burdens Environmental Issues

Environmental	Percent
Cigarette smoke	40%
Poor housing conditions	34%
Air pollution	33%
Lack of access to healthy foods	27%
Trash on streets and sidewalks	23%
Lack of access to places for physical activity	18%
Lack of public transportation	17%
Lack of safe walkways and bikeways	17%
Poor neighborhood designs	15%
Heat/hot days	14%

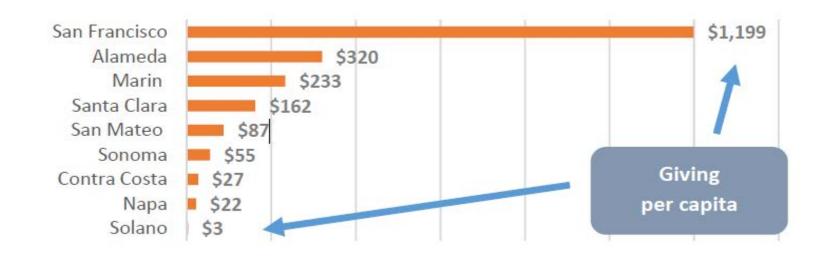


Community Themes and Strengths Assessment; Solano County Community Health Assessment, 2016

Solano County Health Burdens Environmental Issues

Community Health Needs Assessment Category	Qualitative Themes
Pollution-Free Living and Work Environments	 High density of freeways throughout Solano County Pesticide used on agriculture crops Plane spraying crops with chemicals on a reoccurring basis Dust and mold believed to be contributing to asthma Asthma and allergies are major issues for area residents Concerns with second hand smoke going through vents in section 8 housing impacting adults and kits
Affordable and accessible transportation	 Many residents lack adequate reliable and affordable transportation Lack of transportation effects ability to get to grocery stores, health care services and jobs Residents have to travel far to get comprehensive care services Bus system is inconsistent and not running often enough Transportation is least common in low SES communities County residents have to travel far for work Public transportation is expensive for daily usage

Looking Ahead for Solano County Opportunities



- Economy
- Transportation
- Agriculture
- Industry

Resources

- <u>http://www.solanocounty.com/depts/ph</u>
- Solano County Community Health Assessment 2016
- Solano County Community Health Improvement Plan

Questions?



Thank you!



Matt Green, MPH 707-784-8637 <u>MCGreen2@solanocounty.com</u>