

Tracking Resources to Address Community Concerns in Arizona

March 9, 2020

Presenting To
National Birth Defects Prevention Network Annual Meeting | Arlington, VA
Laura Fox, MPH CPH | Senior Epidemiologist




1

Superfund Site
Community
Concern







2

Superfund Site
Community
Concern

What would have helped alleviate concerns quicker and provided better understanding of the data?


- (1) Having a data tool readily available to view data and trends
- (2) House environmental and health data in one place

3

Overview of AZ Tracking Program

- Funded in 2017
- 1 of 26 grantees
- Bringing together environmental, exposure, and health data in Arizona




ARIZONA DEPARTMENT OF HEALTH SERVICES
Health and Wellness for all Arizonans

ENVIRONMENTAL PUBLIC HEALTH
TRACKING

4

AZ Birth Defects Monitoring Program



- Population based, state-wide, active registry of children with a reportable birth defect diagnosed in 1st year of life
- Surveillance conducted on 38 categories of birth defects
- 85,000 live births and 500 fetal deaths annually
- 600 live born infants with one or more reportable birth defect annually


ARIZONA DEPARTMENT OF HEALTH SERVICES
Health and Wellness for all Arizonans

ENVIRONMENTAL PUBLIC HEALTH
TRACKING

5

ABDMN/EPHT Collaboration

- In the past:
 - Published long surveillance reports and tables
 - Siloed environmental health data
 - Significant staff time to research and answer community concerns
 - Slow response time depending on availability of data, programs, work load, etc.



ARIZONA DEPARTMENT OF HEALTH SERVICES
Health and Wellness for all Arizonans

ENVIRONMENTAL PUBLIC HEALTH
TRACKING

6

Data Submission to National Tracking Network

Slide 20 - Content
Data Extraction and Formatting for Data Call

Birth Defects
National Environmental Public Health Tracking Network

Purpose: The document describes the steps for extracting and formatting the necessary data required for the Tracking Program's nationally consistent data and measures (NCCDM) for birth defects.

Date: Feb. 2018

Version Control: Version 1.1: Surveillance Type, Ascertainment, Code Set variables have been moved to the metadata container tool.

Version 1.0: This guide and the guide for calculating the birth defects NCCDM replaces the original birth defects data-to-guide. It also aligns the NCCDM with the updated standards and definitions provided by the National Birth Defects Prevention Network published in March 2015. This guide also introduces the option to create and submit 1 birth defects dataset to comply the NCCDM requirements instead of the previous option of submitting 4 less accurate datasets.

Contact: ephtdatahelp@azdhs.gov

- Each fall EPHT submits birth defects data for 11 conditions to CDC
- Follows nationally consistent data measures
 - Data compared more easily
 - Standardized method



7

ABDMN/EPHT Collaboration

- Present partnership:
 - Mutually beneficial to health department staff, researchers, public
 - Makes data available that is quick, free, reliable
 - Locally relevant and allows for county-to-county comparisons for birth defect data
 - Useful to direct concerned public to Data Explorer for easy questions

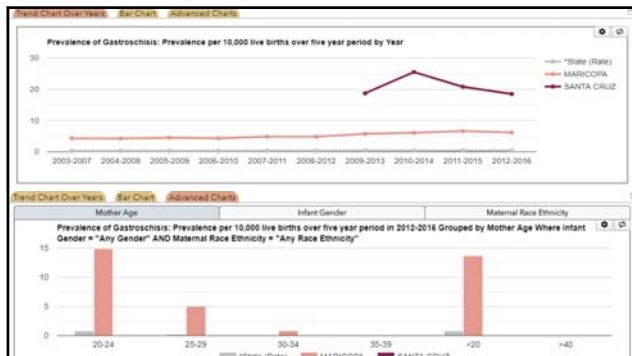


8

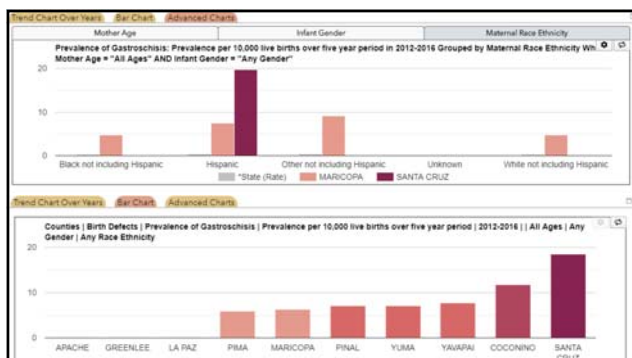
EPHT Data Explorer

County	Year	Rate (per 1000)
AVILA	2012	0.00
AVILA	2013	0.00
AVILA	2014	0.00
AVILA	2015	0.00
AVILA	2016	0.00
AVILA	2017	0.00
AVILA	2018	0.00
AVILA	2019	0.00
AVILA	2020	0.00

9



10

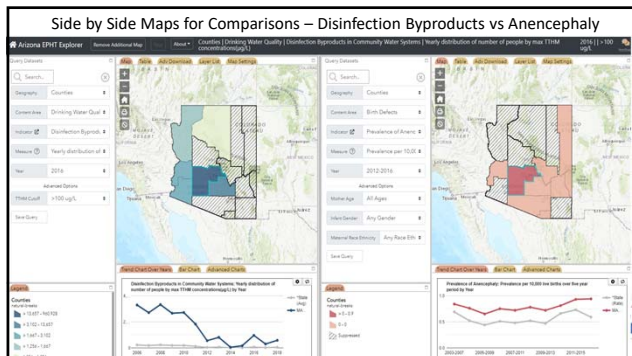


11

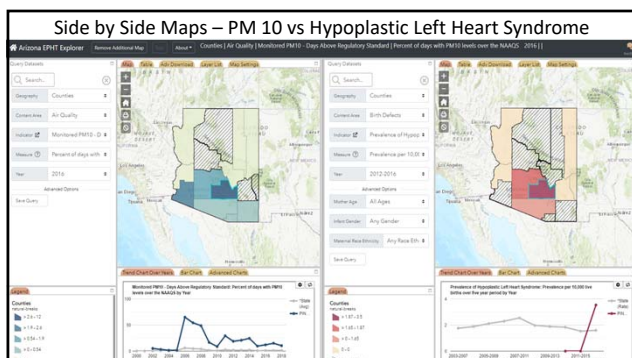
Data Download

- Download data options:
 - By specific years
 - By maternal age
 - By infant gender
 - By maternal race/ethnicity

12



16



17


Resources on how to use data:


- YouTube Tutorial
- Landing Pages
- Tour
- Indicator descriptions
- How-to-EPHT Guides

18

Quick Reports Tool

- Snapshot of some environmental health issues for your area
- Uses most recent available data sources
- Uses information at several scales - by county, sub-county, and census tract





ARIZONA DEPARTMENT OF HEALTH SERVICES
Health and Wellness for all Arizonans

ENVIRONMENTAL PUBLIC HEALTH
TRACKING


19

Quick Reports – NEW!

ARIZONA ENVIRONMENTAL PUBLIC HEALTH TRACKING - Quick Reports

The places where you live, work, and play may affect your health.

You can use this Quick Reports tool to get a snapshot of some of the environmental health issues for your area. You will find information at several scales - County, PCAs (sub-county), and Census Tract.




Select a location on the map or Enter an address.

20

North Mountain Village, Maricopa County

Quick Facts¹



Maricopa County
Population: 4,307,033 (2017)

North Mountain Village PCA
Population: 109,790 (2019)
Number of Households: 67,793
Area: 35 sq miles

Socioeconomics:

Average Household Income

North Mountain Village: \$69,573.6

Arizona: \$79,838.2

Families who live below the poverty line

16.2%

North Mountain Village

12.4%

Arizona

EDUCATION

Number of residents with at least a high school diploma

78%

North Mountain

Demographics:

One of 10 people living in this PCA

SEX

5 are male & 5 are female

AGE

About 3 are between the ages of 0 and 19 years

About 1 are between the ages of 20 and 34 years

About 2 are between the ages of 35 and 49 years

About 3 are 50 years and older

ETHNICITY

3 are Hispanic and 7 are non-Hispanic

RACE

21

Partner Organizations

- State and Local Departments of Environmental Quality
- Local Universities
- Local Health Departments
- Non-profit organizations
- Other Tracking Programs



ENVIRONMENTAL PUBLIC HEALTH
TRACKING

ARIZONA DEPARTMENT OF HEALTH SERVICES
Health and Wellness for all Arizonans

25

ADEQ My Community

Air Quality

- Sign up for Air Quality Alerts
- Nonattainment areas
- Forecasting
- Monitors

Water Quality

- Surface Water
- Groundwater and Water Reuse
- Drinking Water

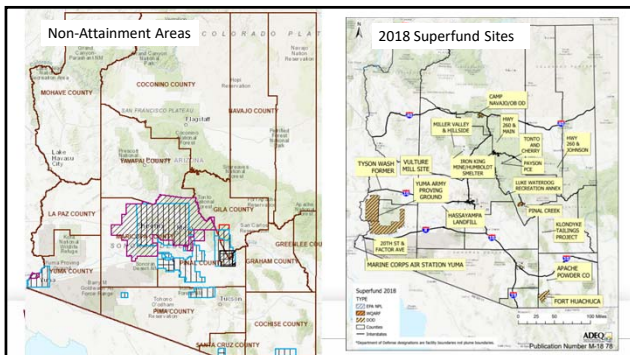
Sites of concern/clean ups

- Superfund sites
- DOD sites
- Hazardous Waste sites
- Solid waste sites
- Leaking underground storage tank sites

ENVIRONMENTAL PUBLIC HEALTH
TRACKING

ARIZONA DEPARTMENT OF HEALTH SERVICES
Health and Wellness for all Arizonans

26



27

Other important tools and resources

- EPA "Environmental Information by Location" - <https://www.epa.gov/environmental-topics/environmental-information-location>
- BRFSS - <https://www.cdc.gov/brfss/>
- National EPHT Data Explorer - <https://ephtracking.cdc.gov/DataExplorer/#/>
- 500 cities - <https://www.cdc.gov/500cities/index.htm>
- Your state EPA resources



28

You May Encounter Some Challenges

- Data resources have restrictions or confidentiality issues
- Sharing agreements/MOUs take awhile
- Misinterpretation of data trends and correlations



29

Key Takeaways


- Direct community to one resource or data dashboard that's easy to use is helpful
- Partner with programs and organizations to answer common data questions
- Create infographics that are easy to interpret and read




30

THANK YOU

Laura Fox, MPH CPH | Senior Epidemiologist
Laura.Fox@azdhs.gov | 602-364-3830



 ARIZONA DEPARTMENT OF HEALTH SERVICES
Health and Wellness for all Arizonans

ENVIRONMENTAL PUBLIC HEALTH
TRACKING
