

http://www.mi-suddr.com



ABOUT US

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PROJECT BACKGROUND

- Created via funding from a federal grant to the State Epidemiological Outcomes Workgroup (SEOW)
- Administered by the Office of Recovery Oriented Systems of Care (OROSC)

PURPOSE & AUDIENCE

- > To provide data for:
 - Local prevention agencies and coalitions to enable data-driven programming decisions
 - For grant seeking purposes
- To define the scope of a problem in a specific geographical location
- Substance Use Disorder Administrators
 - Information about target populations

SITE OVERVIEW

- The Michigan Substance Use Disorder Data Repository allows users to find data on various substance use topics.
- The data is presented in visualizations that allow the data to be explored as interactive maps, bar charts and tables.
- The data can also be downloaded and used in community planning and outreach documents.

USE OF AVAILABLE DATA

- Data is primarily national and state level data sets
 - Recognizable: NSDUH, MI Traffic Crash Facts, MiPHY
 - ► Each have their own strengths and weaknesses
- Conflict between perfect (epi approach) and good (community approach)
- We have chosen as best as we could strive to improve, but want to provide access

DATA SOURCES

Secondary Data Sources

- US Census
- Michigan Office of Highway Safety Planning
- Treatment Episode Data Set (TEDS)
- Centers for Disease Control
- Michigan Automated Prescription System (MAPS)
- Division of Vital Records & Health Statistics

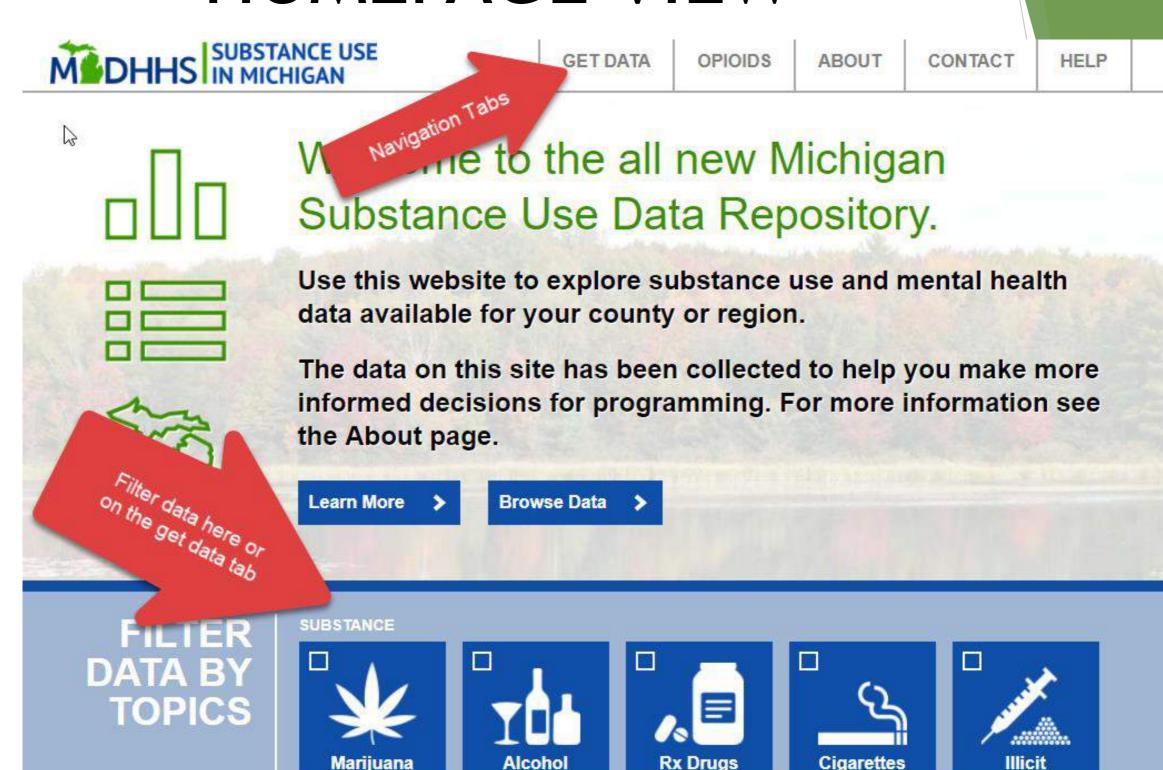
Surveys

- Michigan Profile for Healthy Youth (MiPHY)
- National Survey on Drug Use and Health (NSDUH)

DATA LIMITATIONS

- Generalizability: The MiPHY results are based on student survey responses from high/middle schools that voluntarily participated in a county and may not be representative of all high/middle schools in the county. Therefore, the results cannot be generalized nor used to compare county to county.
- Time lag: There is generally a two year lag between when the deaths and hospitalizations data are available for publishing.
- Measures: That is reporting rates vs counts. Due to small number of incidences, counts are presented rather than rates to avoid flagged as unreliable due to high relative standard errors.

HOMEPAGE VIEW

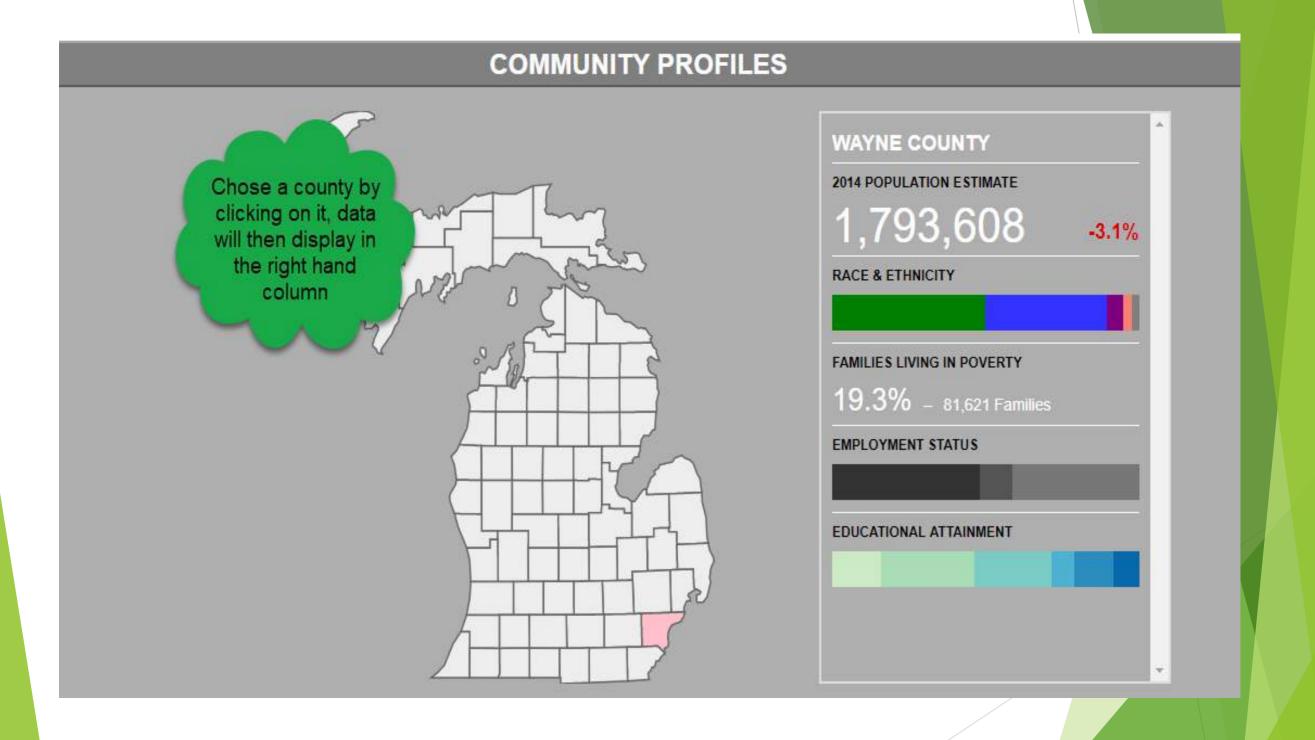


AGE GROUPS

Youth

Adult

COMMUNITY PROFILES



TECHNICAL DETAILS

- Site built in WordPress with a custom plugin
- Mapping and chart functions built from scratch without dependencies or licenses
- Data stored in a SQLite database

SEARCHING FOR DATA

MEDHHS IN MIC	HIGAN	GET DATA	OPIOIDS	ABOUT	CONTACT	HELP		
SUBSTANCE	Coloct ont	iono from						
Marijuana	Select opt		Use: Past	30 Days				
Alcohol	any cate	Address of the second	o days.					
Rx Drugs	the second second second second	o narrow						
Cigarettes	down th	ie data.						
☐ Illicit			_					
AGE GROUPS	Middle School	ol Students Alcoho	Use: Past 3	0 Days				
Adult	1200 E-000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	alcohol use for the past	30 days.					
Youth	Timeframe: Biannually 2008-2016							
	Tags: Alcohol, Yo	outh, County, MiPHY, Viz						
CONSEQUENCES								
Traffic Crashes	Anna Carlo C	I Traffic Crashes						
Lung Cancer	Total Drug-related Traffic Crashes by County							
Death	Timeframe: Annual data from 2004 to 2015. Tags: Marijuana, Rx Drugs, Illicit Drugs, Adult, Traffic Crashes, County, Viz							
DATA SOURCE	lags. Manjualia,	RX Drugs, Illicit Drugs, At	iuit, Trailic Crasii	es, County, VIZ				
☐ MiPHY	High School	Students Alcohol	Ico: Pact 30	Dave				
NSDUH	High School Students Alcohol Use: Past 30 Days High school alcohol use for the past 30 day							
MLCC	Timeframe: Biannually 2008-2016							
TEDS	Tags: Alcohol, Youth, County, MiPHY, Viz							
CDC								
OHSP	Nigh School	Students Cigarette	Use: Past 3	0 Days				
LARA	High school cigarette use for the past 30 day							
MAPS	Timeframe: Biannually 2008-2016							
	Tags: Cigarettes,	Youth, County, MiPHY, V	Z					
GEOGRAPHY								
County	High School Students Marijuana Use: Past 30 Days							
Region	High school marijuana use for the past 30 day							
	Timeframe: Bian	nually 2008-2016						
Search	Tags: Marijuana,	Youth, County, MiPHY, Vi	Z					

EXPLORING DATA

Each data visualization has three views for interacting with and selecting data for download:

Map View
Chart View
Table View

MAP VIEW

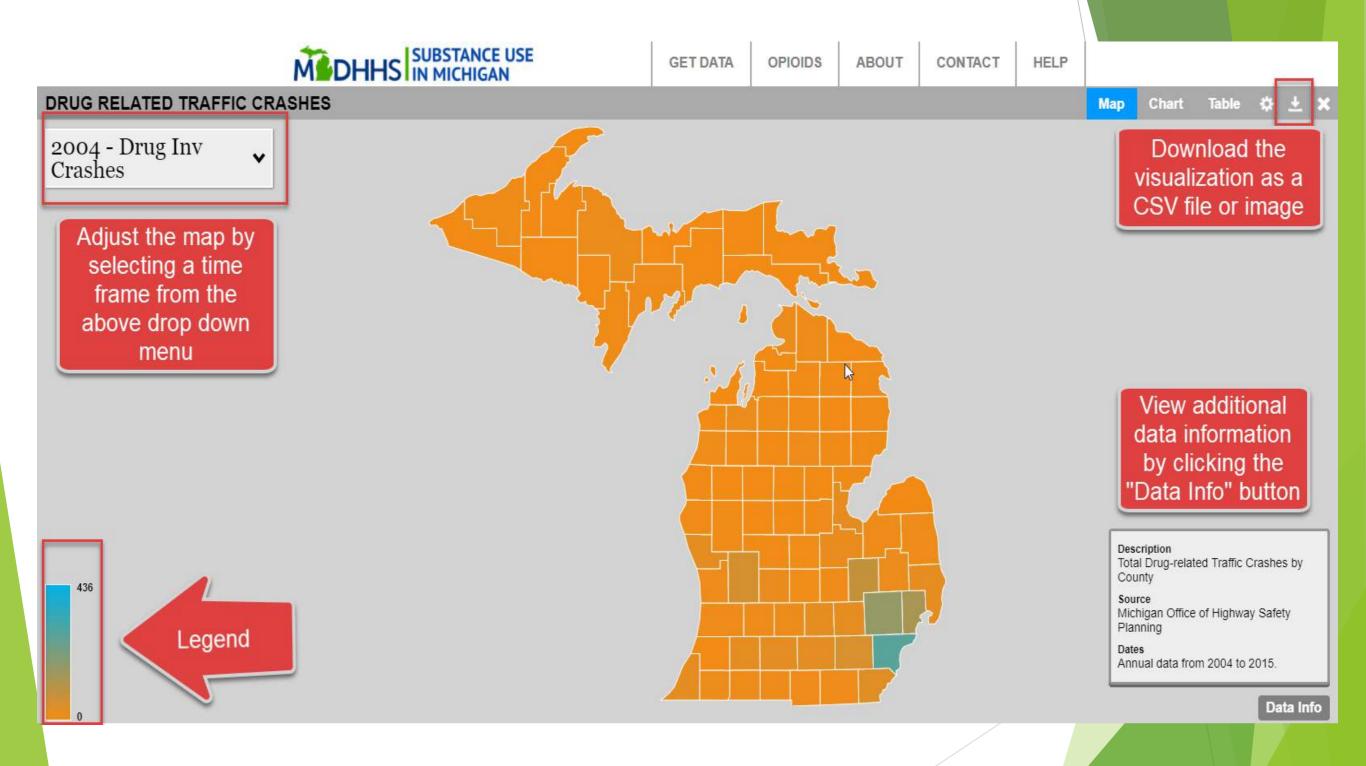


CHART VIEW

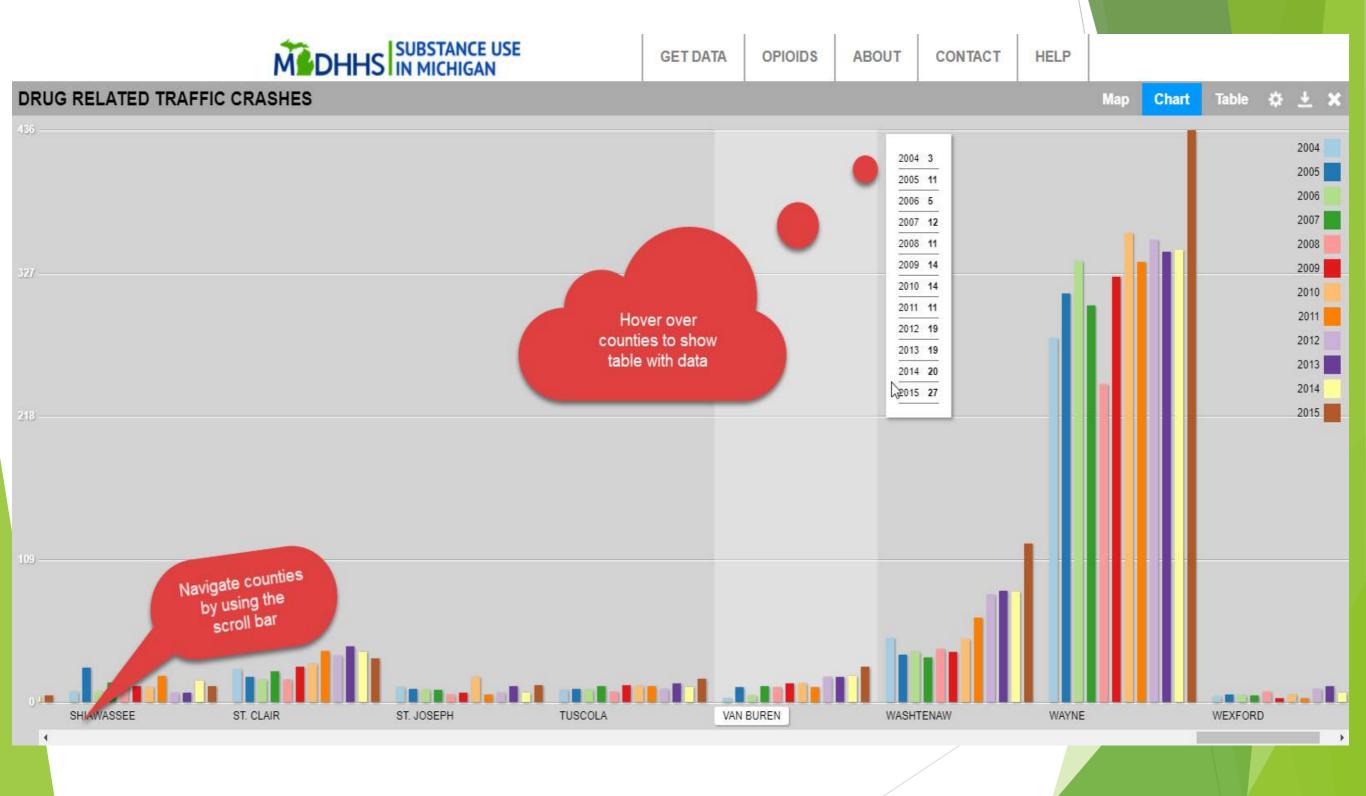
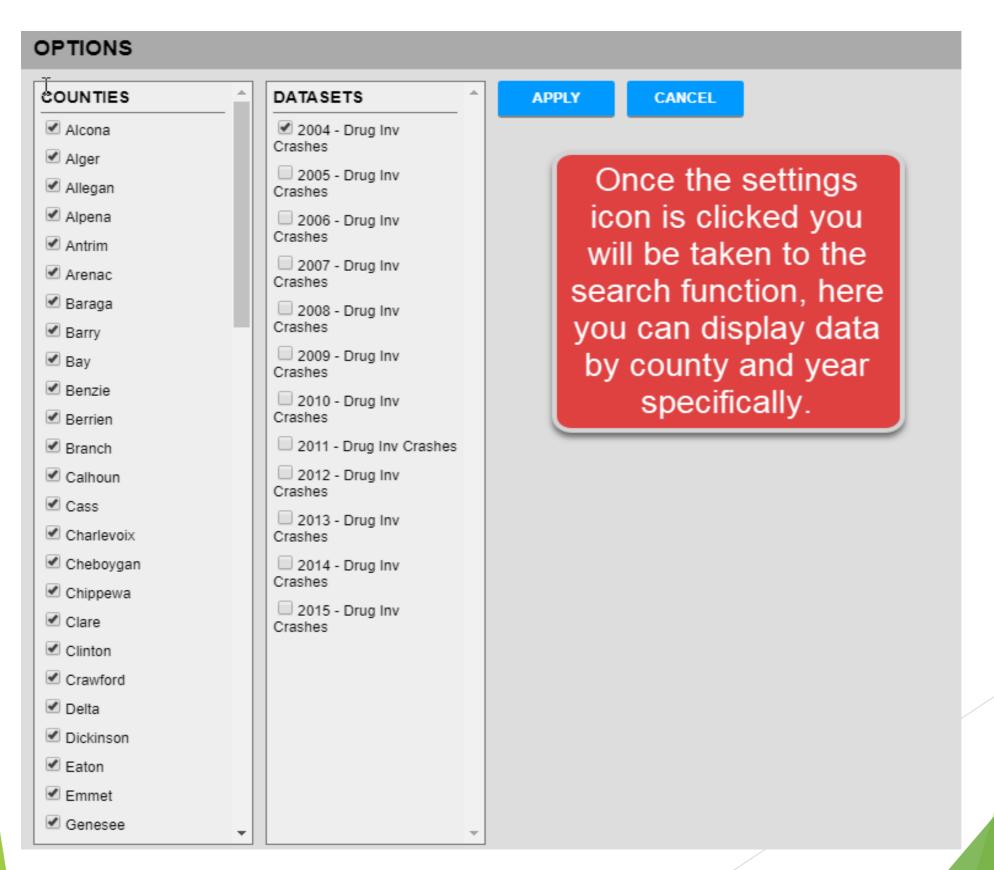


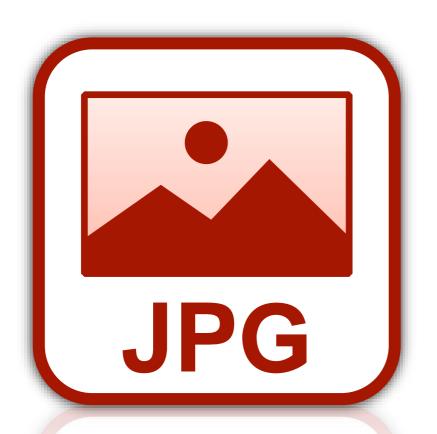
TABLE VIEW

SUBSTANCE USE IN MICHIGAN				GET DATA	OPIOIDS	ABOUT	CONTACT	HELP					
DRUG RELATE	D TRAFFIC CF	RASHES									Map Chart Tabl	e (‡)±	
name A		DRUG INV CRASHES											
NAME 💠	2004 💠	2005 💠	2006 💠	2007 💠	2008 💠	2009 💠	2010 💠	2011 💠	2012 💠	- {			
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Alger	0	1	2	0	0	0	2	3	3	5	icon will take y		
Allegan	10	20	14	15	15	19	20	26	26	16	the next screen		
Alpena	4	6	7	5	9	5	11	8	5	5	the flext core.		
Antrim	2	5	4	3	4	3	1 6	5	4	6			
Arenac	4	3	5	1	3	4	3	2	0	4	0	2	
Baraga	3	0	2	4	2	1	3	2	2	3	1	3	
Barry	11	9	18	16	7	8	12	5	14	16	9	6	
Вау	21	20	11	22	23	19	37	37	26	27	32	21	
Benzie	2	4	3	5	5	1	2	3	5	3	5	4	
Berrien	25	19	23	24	19	19	17	22	36	35	32	42	
Branch	10	8	8	11	8	4	7	4	6	5	14	13	
Calhoun	29	17	31	32	33	37	31	42	31	31	29	24	
Cass	13	6	7	9	8	7	7	6	10	7	3	10	
Charlevoix	2	3	7	5	7	3	9	7	4	2	1	6	
Cheboygan	9	6	3	4	5	3	7	3	2	16	7	3	
Chippewa	1	1	6	6	3	5	15	11	6	7	4	5	
Clare	3	9	7	4	4	6	10	6	14	8	7	6	
Clinton	6	9	10	11	7	6	9	11	5	5	6	11	
Crawford	4	1	1	2	4	8	4	3	5	7	4	2	
Delta	8	5	9	6	6	12	9	15	13	8	8	15	

TABLE VIEW



DATA DOWNLOAD





Data can be downloaded as either .JPG (maps) or .CSV (tables) files for use in external programs like Excel, Access, or Word.

USING DATA

- For grants/fund development basic information for needs and background, county profiles for target description.
- For planning data required for logic models, work plans, goal development in prevention, community mental health etc...
- Where do you use data like this?

INTERPRETING DATA



GET DATA

OPIOIDS

ABOUT

CONTACT

HELP







INTERPRETING DATA

Using data requires some understanding of the nature and quality of the available data. The following outlines some basic data concepts and provides additional resources to help users best utilize the information available through this site.

- Using Data with Your Strategic Prevention Framework Model
- Tips for Analyzing Data
- Understanding Confidence Intervals

Clicking tabs to the left will navigate you directly to that information

Using Data with Your Strategic Prevention Framework Model

In keeping with the use of the Strategic Prevention Framework (SPF), we have provided some sample questions for each of the 5 steps of SPF model.

The data you will find on this site is particularly useful for the Assessment and Capacity Building phase as noted below. The SPF model, however, builds on the following:

Assessment

What intervening variables contribute to the consequences and consumption patterns you wish to change?

FACT SHEETS



GET DATA

OPIOIDS

ABOUT

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FACT SHEETS

The Office of Recovery Oriented Systems of Care has produced fact sheets on the following topics:

- E-Cigarettes
- Marijuana
- Prescription Drugs
- Cancer and Alcohol Use
- Drug Poisoning Death Rate
- Preventing Heroin Use
- Preventing Prescription Drug Misuse
- Preventing Youth Marijuana Use
- Fatal Crashes Update
- Michigan Traffic Crash Decade-At-A-Glance
- Preventing Marijuana Use Among Youth & Young Adults
- Total Drug Poisoning Mortality Rates (Map)



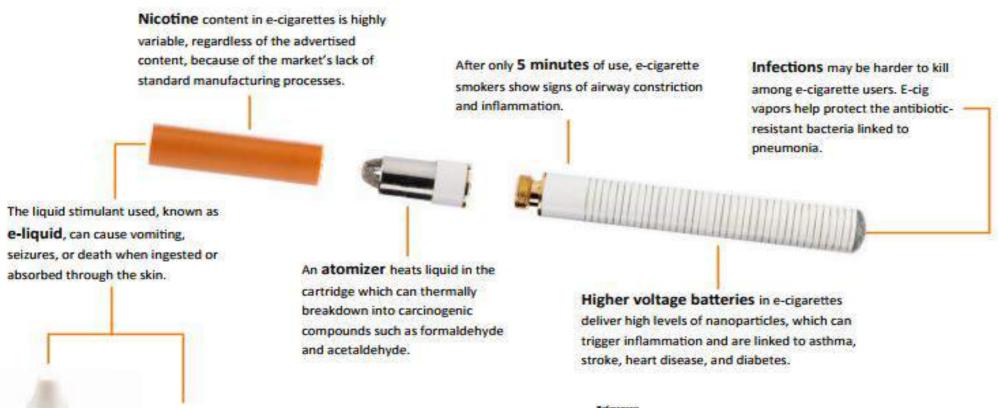
Fact Sheet Example



Up in Smoke: Deconstructing the Health Claims of E-Cigarettes



Electronic cigarettes, or e-cigarettes, have been growing in popularity in recent years. As traditional smoking has declined, use of e-cigarettes has increased among teenagers, surpassing traditional cigarettes. While touted as the "healthier" cousin of the traditional cigarette, e-cigarettes still pose great risk to users. No long-term studies exist on the risks of e-cigarette smoking, nor does the industry currently possess a regulated manufacturing process—addictive nicotine and an unregulated mix of chemicals plague e-cigarettes just as they do traditional cigarettes. The infographic seen below is meant to shed some light on the adverse events and risks e-cigarette users face.



References:

- http://www.drugabuse.gov/news-events/news-releases/2014/12/heen-prescription-opioid-abuse-cigarette-alcoholuse-frends-down
- Grans R, Benowltz N, Glantz SA. E-cigarettes: a scientific review. Circulation. 2014 May 13;129(19):1972-86. doi: 10.1161/CIRCIR.ATIONAMA.114.007667. Review.
- Verdavas CI, Anagrostopoulos N, Eougias M, Evangelopoulou V, Connolly GN, Behrakts PK. Short-term pulmonary effects of using an electronic cigarette: impact on respiratory flow resistance, impedance, and exhaled nitric code. Chest. 2012 June 14 (6): 1400-6.
- Exampler L, Sobczak A, Fik M, Knysak J, Zaciera M, Kurek J, Goniewicz ML. Carbonyl compounds in electronic digarette vapon: effects of nicotine solventand battery output voltage. Nicotine Tob Res. 2014 Oct;16(10):1319-26.

Produced by the Office of Recovery Oriented Systems of Care. For more information, visit: www.michigan.gov/bhrecovery.

Propylene glycol and glycerin are the main ingredients of e-liquid.

substituted with unregulated synthetic drugs the potential for harm is

amplified.

These compounds are known to be eye and respiratory irritants when heated

and vaporized, and may also create carcinogenic compounds. If the e-liquid is

NEW:OPIOIDS TAB



650,000

Number of opioid prescriptions dispensed every day in the United States 3,900

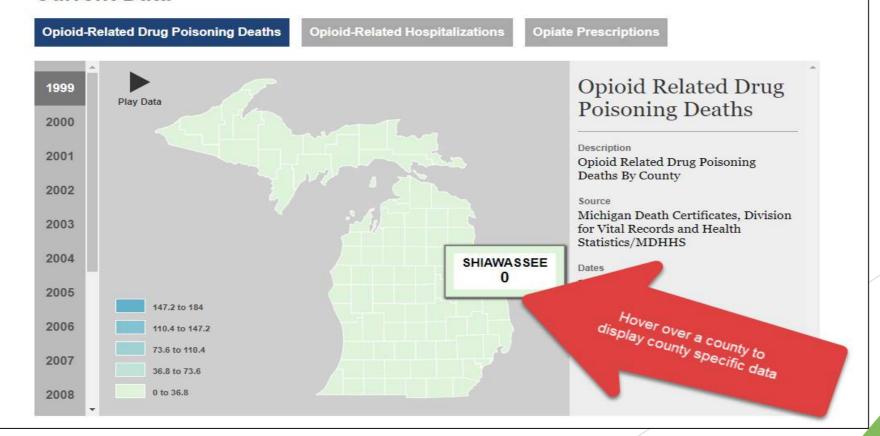
driven by increases in opioids-involved (prescription opioids and illicit) overdose deaths.

Number of people who begin abusing prescription opioids every day throughout the United States 580

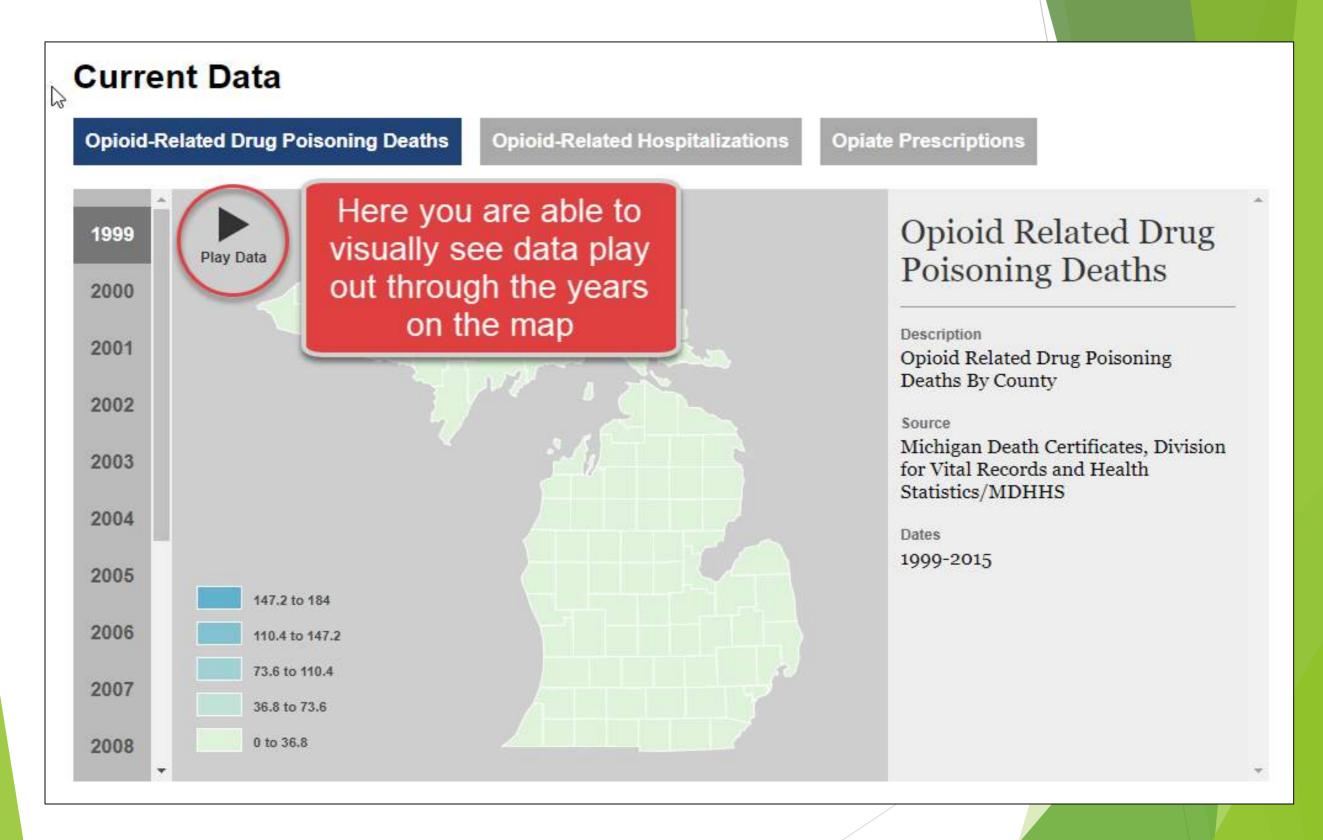
Number of people who begin using herione in the United States every day 90+

People who die every day in the United States from opioid-related overdoses.

Current Data



OPIOIDS TAB



OPIOIDS TAB





Related Data & Reports

Non-medical Use of Prescription Pain Relievers

High school Heroin Use: Past 30 days

Opioid Related Hospitalizations

Opiate Prescriptions Written Per County

Heroin Related Drug Poisoning Deaths

Opioid Related Drug Poisoning Deaths

High School: Oxycontin, Codeine, Vicodin or Percocet Use Without a Prescription Past 30 Days

Middle School: Oxycontin, Codeine, Vicodin or Percocet Use Without a Prescription Past 30 Days

Michigan Opioid Factsheet

Additional Resources

Centers for Disease Control: Protect patients from opioid overdose

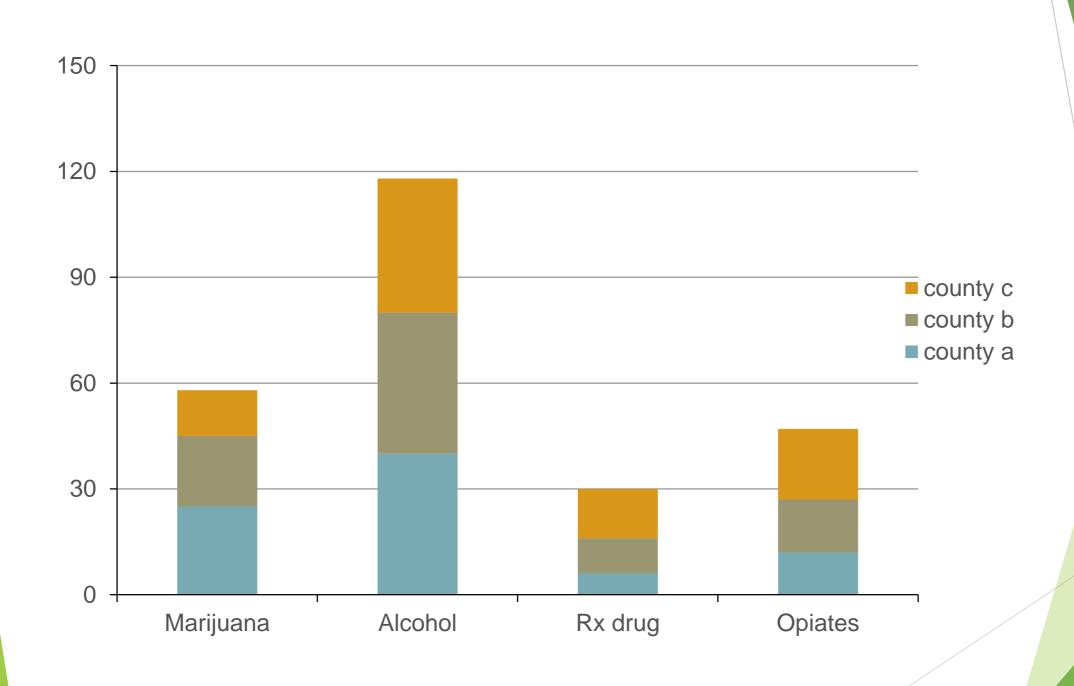
MDHHS: Combating the Prescription Drug and Opioid Epidemic in Michigan

Here you will find links to opioid related data and additional information

NEXT STEPS

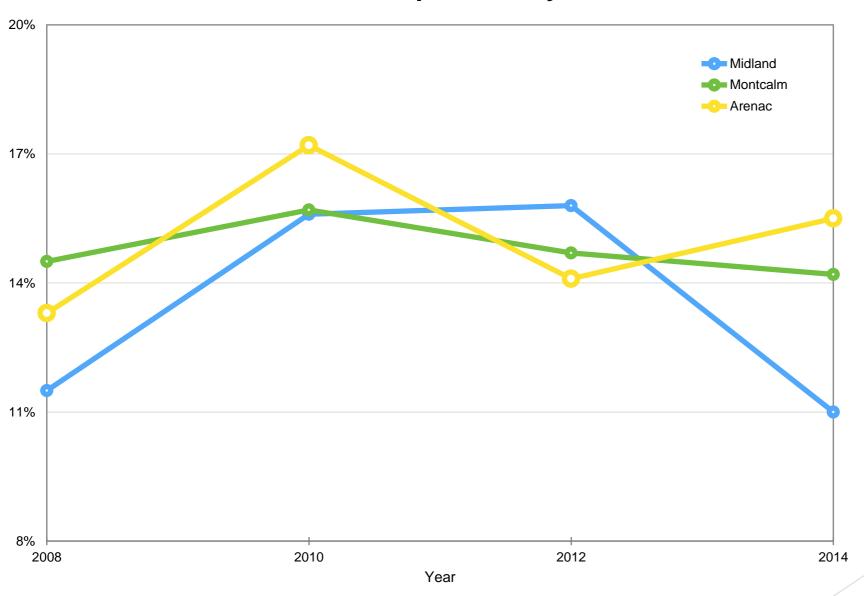
- More forms of charts pie charts, line graphs, bubble charts.
- Use of two dimensional visuals e.g. to map two variables to see correlations
- User ability to select variables to visualize

SAMPLE MULTI VARIABLE



SAMPLE OF LINE CHART

Percent of students who admit to marijuana use in the past 30 days



FEEDBACK

- How likely are to use the site? Barriers?
- What data would you like to see on the site?
- How to make the site more user friendly?
- What features would you like to see?
- Sign up for listserve

CONTACT

Please contact us to let us know how we can continue to improve the site...

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Wayne State University School of Social Work

You may also ask to be added to our listserve to get notices when new data or features are available.