



Department
of Health

Storytelling with Data

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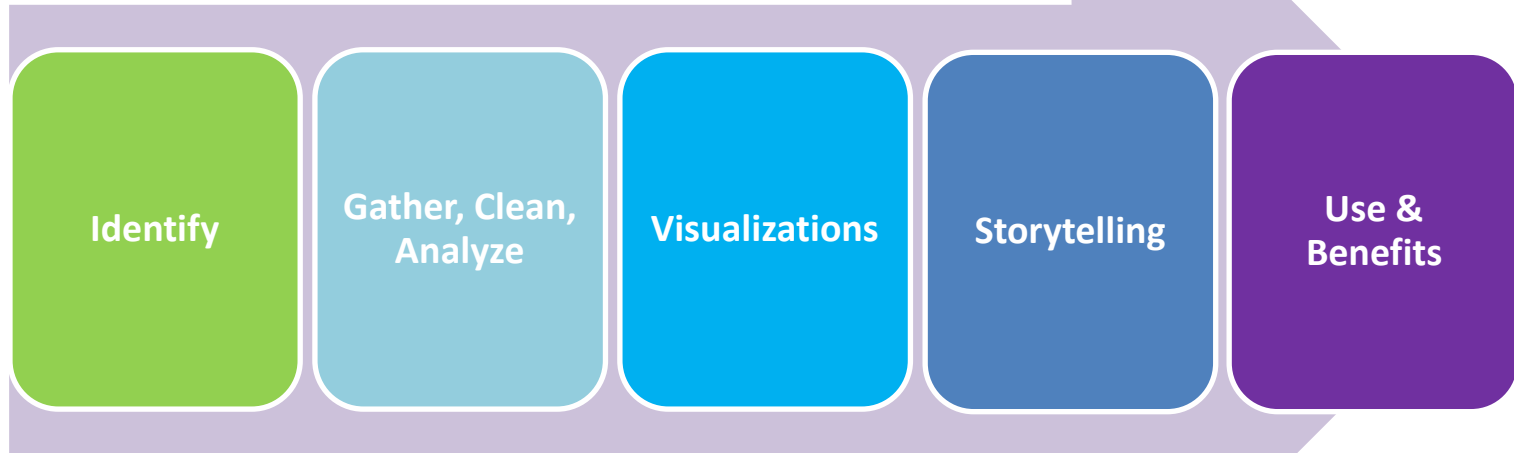
Learning Objectives

1. Identifying non health Data Sources
2. Gathering, Cleaning and Analyzing Data
3. Molding the Data into Visualizations
4. Story telling with data

Whiteboard

What are some data sources that you have used?

Process



Identifying Data Sources

Things to consider:

- Think outside the box
- Primary outcome?
- Factors that could affect your population and outcomes but may not be directly related?

RPE Program Example:

Risk Factors: Risk factors are characteristics that may increase the likelihood of experiencing or perpetrating a specific outcome, but they may or may not be direct causes.

For the RPE program we identified some of the risk factors for Sexual violence.

- Poverty,
- Social connectedness,
- Environmental risk factors (Number of alcohol outlets),
- Intimate Partner Violence (IPV,)
- Number of forcible rapes,
- Unemployment, juvenile rapes,
- Female head of households,
- Alcohol use/abuse,
- Women's employment rates

Whiteboard – 10 Minutes

Share examples of social determinants of health that affect your program

Group Activity 15 minutes

Let's go [data trolling!](#)

- Questions to consider:
 - What are some positives to the source?
 - What are some negatives to the source?
 - Is this something that new data users could easily navigate?

Data Source Examples:

- [Uniform Crime Report \(UCR\)](#)
- [State Liquor Authority \(SLA\)](#)
- [Behavioral Risk Factor Surveillance System \(BRFSS\)](#)
- [Department of Motor Vehicles \(DMV\)](#)
- [Youth Risk Behavior Survey \(YRBS\)](#)
- [Census \(American Community Survey, Current population survey\)](#)
- [New York State Education Department \(NYSED\)](#)
- [New York State Community Health Indicator Reports \(CHIRS\)](#)
- [Small Area Income and Poverty Estimates Survey \(SAIPE\)](#)
- [School Safety and Education Climate Survey \(SSEC\)](#)
- [Juvenile Justice Census](#)

Uniform Crime Report (UCR)



Services

News

Government

Division of Criminal Justice Services

Sex Offenders

Missing Persons

Community Resources

Law Enforcement

Domestic Violence Victim Data by County: 2020

Exception Reports: 2020

- Agencies that reported at least one victim, and had incomplete reporting ([Click here](#)).
- Agencies that reported no victim data ([Click here](#)).

Select a County To View Agency Data or [New York City](#)

Albany	Franklin	Oneida	Schuyler
Allegany	Fulton	Onondaga	Seneca
Broome	Genesee	Ontario	Steuben
Cattaraugus	Greene	Orange	Suffolk
Cayuga	Hamilton	Orleans	Sullivan
Chautauqua	Herkimer	Oswego	Tioga
Chemung	Jefferson	Otsego	Tompkins
Chenango	Lewis	Putnam	Ulster
Clinton	Livingston	Rensselaer	Warren
Columbia	Madison	Rockland	Washington
Cortland	Monroe	Saint Lawrence	Wayne
Delaware	Montgomery	Saratoga	Westchester
Dutchess	Nassau	Schenectady	Wyoming
Erie	Niagara	Schoharie	Yates
Essex			

Non-New York City



Department of Health

Uniform Crime Report (UCR)

NYS DIVISION OF CRIMINAL JUSTICE SERVICES						
DOMESTIC VIOLENCE VICTIMS REPORTED IN 2020						
ALBANY COUNTY						
DCJS, Uniform Crime Reporting System (as of 6/14/2021)						
		Intimate Partner			OTHER FAMILY VICTIM	
		FEMALE VICTIM	MALE VICTIM	TOTAL	VICTIM	TOTAL
Albany City PD	Agg Assault	94	48	142	29	171
	Simple Assault	662	126	788	156	944
	Sex Offense	7	0	7	7	14
	Violate Protection Order	60	8	68	1	69
	Total	823	182	1,005	193	1,198
Albany County Sheriff	Agg Assault	1	2	3	1	4
	Simple Assault	11	7	18	15	33
	Sex Offense	2	0	2	5	7
	Violate Protection Order	0	0	0	2	2
	Total	14	9	23	23	46
Albany County State Police	Agg Assault	0	0	0	0	0
	Simple Assault	1	0	1	3	4
	Sex Offense	0	0	0	2	2
	Violate Protection Order	0	0	0	1	1
	Total	1	0	1	6	7
Altamont Vg PD	Agg Assault	0	0	0	0	0
	Simple Assault	1	0	1	0	1
	Sex Offense	0	0	0	0	0
	Violate Protection Order	0	0	0	0	0
	Total	1	0	1	0	1
Bethlehem Town PD	Agg Assault	2	2	4	1	5
	Simple Assault	21	18	39	29	68
	Sex Offense	2	0	2	2	4
	Violate Protection Order	1	0	1	4	5
	Total	26	20	46	36	82
Coeymans Town PD	Agg Assault	0	0	0	0	0
	Simple Assault	1	0	1	1	2

State Liquor Authority



[Services](#)
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[COVID-19 Vaccine](#)

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Liquor Authority Current List of Active Licenses

Liquor Authority current list of all active licensees in NYS.

[More Views](#)
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[About](#)

Serial Number	County	License Type Code	License Class Code	Certificate Number	Premise Name	DBA	Premise Address
2226910	DUTCHESS	FP	307	579278	SUNDSTROM CIDER LLC	SUNDSTROM CIDER	818 SALISBURY TPKE
2186624	ST LAWRENCE	FW	302	914060	BELLA-BROOKE VINEYARD LLC		2989 CR 6
1268380	NASSAU	WW	303	914452	QUALITY WINES USA INC		269 HEMPSTEAD AVE
1272608	KINGS	RW	341	841959	GUCHI'S IDEA LLC	OKONOMI	150 AINSLIE ST
2211072	ALBANY	TW	344	925366	BREW LLC	PINT SIZED	250 LARK ST
1039521	QUEENS	L	222	914470	KHEMRAJ KHAMERAJ	DAVES LIQUOR	87 04 ROCKAWAY BEACH
3145293	CHEMUNG	AX	128	914823	DANDY MINI MARTS INC	DANDY MINI MART #57	104 WYGANT RD
1255743	QUEENS	L	222	914486	BIG WONG LIQUOR & WINE INC		83 10 ASTORIA BLVD
2183767	ULSTER	FW	302	907214	KETTLEBOROUGH CIDER HOUSE LLC		277 STATE ROUTE 208
1267485	NEW YORK	CD	304	939967	T EDWARD WINES LTD		66 W BROADWAY

[< Previous](#)
[Next >](#)

Showing Rows 1 to 100 out of 50,155



State Liquor Authority

NYS Liquor Authority Mapping Project (LAMP)
version: 1.0.2

Search By Proximity

Search for an address or locate on map

Find address or place

Show results within (Feet)

0 1500

Search by Ser#, Name, City, Zip, ...

Tasks	Results
Search Active Licenses	
Search Pending Licenses	
Search Inactive Licenses	

Layer List

Layers

- Active Licenses
- Pending Licenses
- Inactive Licenses
- Places of Worship
- Public/Private Schools

Filter

Active Licenses

- On Premises Liquor
- On Premises Wine
- On Premises Beer

Legend

NYS Counties

App State
Click to restore the map extent and layers visibility where you left off.

Census Data

Label	Clinton County, New York	Columbia County, New York	Cortland County, New York	Delaware County, New York	Dutchess County, New York	Erie County, New York	Essex County, New York	Franklin County, New York	Fulton County, New York
Total:	79,843	61,570	46,809	44,308	295,911	954,236	37,381	47,555	53,324
Population of one race:	75,498	57,314	44,137	41,833	270,087	902,420	35,403	45,699	50,005
White alone	70,142	51,533	41,250	39,466	207,251	693,563	34,102	39,036	47,775
Black or African American alone	3,060	2,557	895	1,072	32,289	134,795	676	1,848	1,068
American Indian and Alaska Native alone	285	188	124	145	1,312	5,594	78	4,141	121
Asian alone	975	1,431	1,028	489	10,781	46,384	229	191	349
Native Hawaiian and Other Pacific Islander alone	26	21	15	10	74	280	12	0	4
Some Other Race alone	1,010	1,584	825	651	18,380	21,804	306	483	688
Population of two or more races:	4,345	4,256	2,672	2,475	25,824	51,816	1,978	1,856	3,319
Population of two races:	4,142	4,007	2,566	2,333	24,119	48,549	1,877	1,760	3,173
White; Black or African American	651	724	458	260	3,892	10,707	169	157	440
White; American Indian and Alaska Native	1,624	933	850	649	2,657	7,226	830	871	991

Census data is much more than simply the number of people.....



Access to Contraception Can Increase Women's Educational Attainment



New Census Bureau Research Shows Link Between Contraception Access and High School Completion

KATIE GENADEK
MAY 10, 2021



DOES FAMILY PLANNING INCREASE CHILDREN'S OPPORTUNITIES? EVIDENCE FROM THE WAR ON POVERTY AND THE EARLY YEARS OF TITLE X

by

Martha J. Bailey
University of Michigan

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DO FAMILY PLANNING PROGRAMS DECREASE POVERTY? EVIDENCE FROM PUBLIC CENSUS DATA

Martha J. Bailey, Olga Malkova, and Johannes Norling

[Additional article information](#)



Gathering, Cleaning & Analyzing Data

Gathering the Data

- Many sources will offer users the ability to download excel versions of the data.
 - While there may be other ways such as a SAS data set, excel is the easiest to gather the data, to clean, organize, and analyze
- For example, utilizing the UCR data previously mentioned, there is the option to download county specific data

Cleaning & Analyzing the Data

- This data can then be manipulated, cleaned and organized to contain the data points you wish to utilize

Year	Health Inc	Geograph	Region/Cc	Sample Si	Est. Count	Est. Denor	Crude Rat	CL 95% Lo	CL 95% Up	Age-adjus	CL 95% Lo	CL 95% Up	Notes	Health Do	Health Inc	Preventio	PA Rate T	SHIP	SHIP Rate	DSRIP	DSRIP Rat	CHIRS	CHIRS Rat
2013-14	Binge Drir	County	Delaware	438	4,952	36,834	13.4	8.4	20.8	18.1	11	28.5	unreliable	Promote ↑	Percentag	yes	age-adjus	yes	crude	yes	crude	yes	age-adjus
2016	Binge Drir	County	Clinton	617	12,782	61,033	20.9	16.6	25.3	21.1	16.5	25.7		Promote ↑	Percentag	yes	age-adjus	yes	crude	yes	age-adjus	yes	age-adjus
2016	Binge Drir	County	Herkimer	429	8,530	46,809	18.2	13	23.5	21.5	15.2	27.7		Promote ↑	Percentag	yes	age-adjus	yes	crude	yes	age-adjus	yes	age-adjus
2013-14	Binge Drir	County	Chenango	424	4,203	37,268	11.3	7.9	15.8	11.1	7.7	15.7		Promote ↑	Percentag	yes	age-adjus	yes	crude	yes	crude	yes	age-adjus

Cleaning Data!

Let's clean a data set together and show some simple calculations

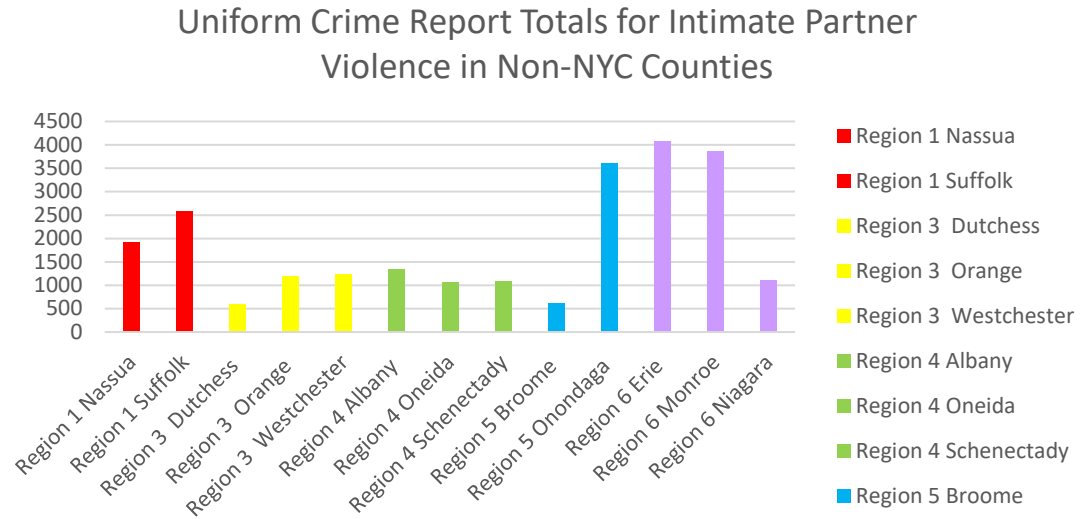
Visualization

Creating Visualizations

- Data can be molded into various visualizations to make the information more digestible and understandable to internal or external sources
- Visualizations can include graphs, charts, maps
 - Bar chart,
 - Maps,
 - Line graph,
 - Pivot table,
 - Pie Chart, etc.

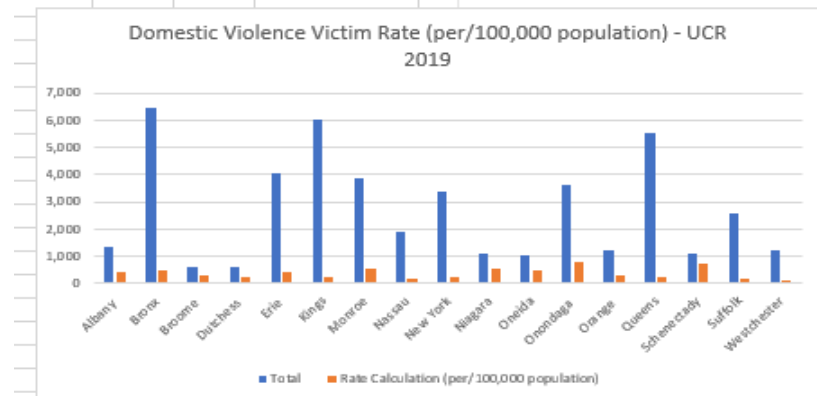
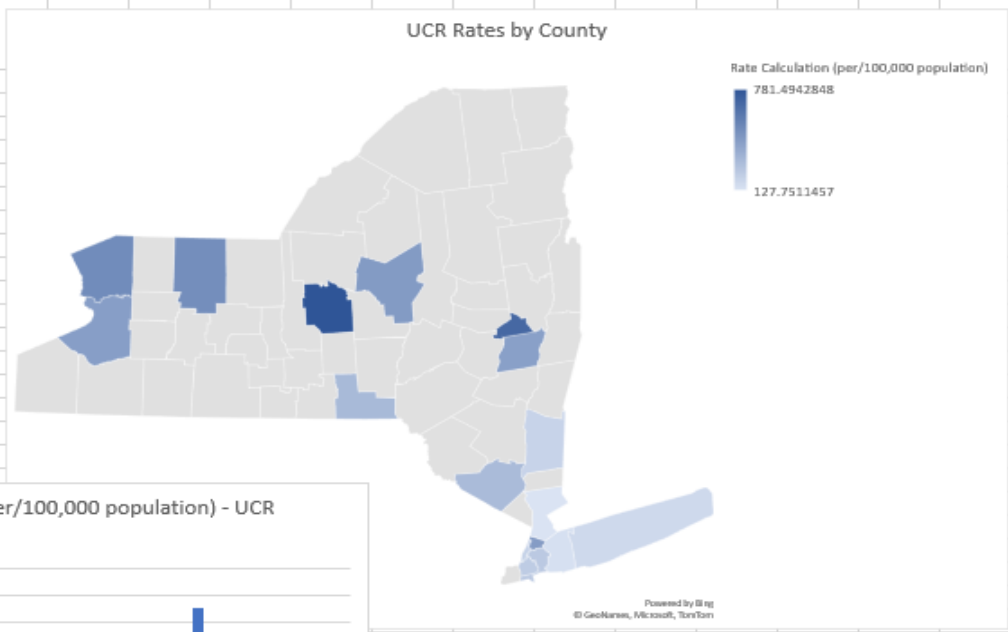
Visualizations Examples

Row Labels	Sum of Agg Assault	Sum of Simple Assault	Sum of Sex Offense	Sum of Violate Protection Order	Sum of Total
Region 1	342	3808	31	321	4502
Nassua	244	1534	23	119	1920
Suffolk	98	2274	8	202	2582
Region 3	315	2247	37	428	3027
Dutchess	44	501	9	39	593
Orange	101	940	12	145	1198
Westchester	170	806	16	244	1236
Region 4	302	2768	37	356	3463
Albany	173	976	16	167	1332
Oneida	42	864	15	130	1051
Schenectady	87	928	6	59	1080
Region 5	373	3125	27	679	4204
Broome	89	444	14	58	605
Onondaga	284	2681	13	621	3599
Region 6	854	7523	89	565	9031
Erie	464	3089	28	492	4073
Monroe	308	3446	47	51	3852
Niagara	82	988	14	22	1106
Grand Total	2186	19471	221	2349	24227



Visualizations Examples

State	County	Total	Rate Calculation (per/100,000)
New York	Albany	1,332	435.9979837
New York	Bronx	6,441	454.1650126
New York	Broome	605	317.6053085
New York	Dutchess	593	201.5512307
New York	Erie	4,073	443.3428903
New York	Kings	5,989	233.9541772
New York	Monroe	3,852	519.2984348
New York	Nassau	1,920	141.4965024
New York	New York	3,359	206.2373442
New York	Niagara	1,106	528.4760681
New York	Oneida	1,051	459.6122814
New York	Onondaga	3,599	781.4942848
New York	Orange	1,198	311.2173326
New York	Queens	5,526	245.1795987
New York	Schenectady	1,080	695.4326815
New York	Suffolk	2,582	174.8610491
New York	Westchester	1,236	127.7511457



Ways to Use the Data

- Infographics
- Data Driven Story
- Improve stakeholder understanding
- Understanding of larger picture
- Focusing your efforts
- Evaluation

Telling your story using data

**Telling the data story:
How to create stories that matter**



Supported by a foundation of stewardship, metadata, standards and quality

Group Session - 20 mins

Use the data and visuals provided to write a story about that community – what does the data tell you?

Reflections and Q&A