

Trumbull County

Health Care Assessment & Access to Care CHA Addendum

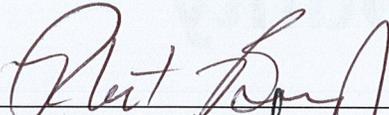
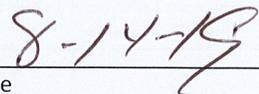
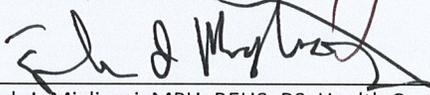
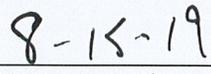
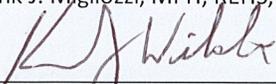
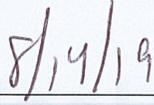
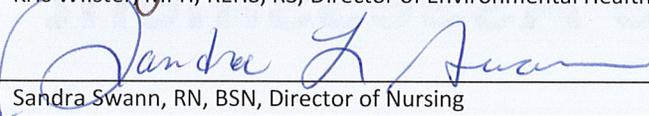
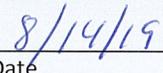
August 14, 2019



Public Health
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Signature Page

This plan has been approved and adopted by the following individuals:

 _____ Robert Beiry, Jr., President	 _____ Date
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Addendum – Access to Care

Trumbull County, Ohio

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Introduction

The motive of this addendum is to identify the health care resources, health care needs of the constituents, presence of ailments/disease, and emerging issues within Trumbull County Ohio in an attempt to affirmatively impact the individual health of its citizens, and the overall public health of the county. To be healthy is defined as being “in good health”. The definition of health is “the condition of being sound in body, mind, or spirit; especially: freedom from physical disease or pain.” The definition of public health is “the health of the population as a whole, especially as the subject of government regulation and support”. The Trumbull County Combined Health District (TCCHD) recognizes that a state of positive holistic public health is contingent upon individual health and predicated upon a healthy population. Therefore, the TCCHD commissioned this addendum in an effort to provide their residents with the most comprehensive information available regarding health care based upon current available empirical data, and solicited public input via survey models and key informant interviews.

The descriptive data provided within regarding the residents of Trumbull County are process indicators, while the health care service deployment and resident participation and perception of such can be described as outcome indicators and used as a basis for future drafting of strategies designed to combat access to care.

Methods

Data was collected by a multitude of various sources including the 2019 County Health Rankings, a survey of households that reside within close proximity to hydraulic fracturing wells, and a health needs assessment used collect primary data from constituents of Trumbull County. The health needs survey was commissioned by a multitude of agencies that also drafted and chose the questions for the survey. The agencies are as follows:

- Trumbull County Combined Health District
- Warren City Health District
- Mercy Health
- Mercy Health Foundation Mahoning Valley
- Trumbull County Mental Health and Recovery Board
- Mahoning County Public Health
- Youngstown City Health District
- Healthy Community Partnership Mahoning Valley
- Mahoning County Mental Health and Recovery Board

In total 1,800 surveys were sent to Trumbull County residents. Of these 1,800 surveys, 600 were specifically sent to households with residents that identified as African American(s). Approximately 400 in total responded. Respondent data received from the survey was collected and reported by The Hospital Council of Northwest Ohio (HCNO). The 2016 breast, cervical, lung and prostate cancer data was compiled by TCCHD from the Ohio Department of Health’s Data Warehouse. Furthermore, eight key informants holding high profile positions within various healthcare agencies of both governmental and NGO status were solicited for their input via a one page questionnaire emailed to each recipient, preceded by a phone call to formally and officially communicate with each informant regarding their identification as a key informant, their respective potential input, and the time sensitive nature of the study. One key informant responded, Mandy Orahood of the Ohio Farm Bureau Federation. The survey and Ms. Orahood’s responses are listed below.

1. What does your organization feel are the major health risks/issues in our area?
 - Opioid and drug abuse
 - Mental health
2. What does your organization see as an unmet need(s) in our area's health care system/service(s)?
 - Drug recovery programs
 - Mental health programs and services to the rural community
3. What populations are most affected by that unmet need(s)?
 - Young adults
 - Rural areas
 - Farmers and the agricultural industry (Farmers are committing suicide at more than double the rate of veterans)
4. What are the challenges/barriers preventing changes or improvements in the needs of those populations?
 - Pharmaceutical industry and over prescribing of pain meds
 - Farmers are at the mercy of the weather, consumers, and many other factors
 - Farmers are typically doers- and aren't always willing to accept help
5. What emerging issues does your organization see affecting our public health care system?
 - Suicide rates in agriculture are more than double that in veterans - and is continuing to rise. With the weather patterns this year and the price of crops as well as not being able to get crops planted/having them destroyed by the weather, we are concerned the rate will increase dramatically again this year
6. How has the current health care reimbursement affected your organization's ability to offer services/care?
 - n/a
7. What has your organization done to address any of the issues previously discussed (i.e. unmet needs, challenges/barriers, reimbursement issues, etc.)?
 - Hope for Ohio program
 - Mental health programming (educational sessions, workers comp programs, etc)
 - Social media - talking about the issues, raising awareness, and encouraging folks to ask for help
8. Do you have anything to add regarding the state of our health care system/services and our population's ability to access them?
 - There could be resources in the county, but honestly we don't really know about them. Anything we can share with our members is beneficial, any professionals who are willing to give presentations or info to share, etc

Ms. Orahod's responses highlight the continued need for more mental health services as well as the promotion of those services in Trumbull County. Ms. Orahod specifically discusses the need of our agricultural community. This community has not specifically been discussed nor has data been collected from this community through any county data collections for the purposes of assessing health needs. Future assessments should include an attempt to collect data from the agricultural community.

Population

As of the 2010 census, Trumbull County had a total population of 210,312 residents.⁽⁸⁾ With annual estimates based upon resident population provided by the Census Bureau, the total population of Trumbull County has experienced a 6% reduction of residents resulting in an estimated 198,627 residents as of 2018.⁽⁸⁾ An American Community Survey five-year estimate from 2017 currently provides the most accurate demographic data, with a total of 203,341 residents.⁽⁸⁾

Demographics

Table 1A

Trumbull County Ohio (2017) Population		
Demographic	2017	% of Total Population
Age		
Under 18 years of age	42,430	20.9%
16 Years of age and over	166,161	81.7%
18 years of age and over	160,911	79.1%
21 years of age and over	154,408	75.9%
62 years of age and over	49,325	24.3%
65 years of age and over	40,413	19.9%
Race/Ethnicity		
White	180,104	88.6%
Black/African American	16,985	8.4%
American Indian/AK Native	342	0.2%
Asian	1,001	0.5%
Native Hawaiian/Pacific Islander	10	0.0
Two or More Races	4,529	2.2%
Gender (18 years of age and over)		
Male	95,297	47.4%
Female	106,027	52.6%

Income Level

Table 2A

Trumbull County Ohio (2017) Income Data		
Income Level	Number of Residents	% of Total Population
Less Than \$10,000	7,011	8.1%
\$10,000 to \$14,999	5,074	5.9%
\$15,000 to \$24,999	10,765	12.4%
\$25,000 to \$34,999	10,365	12.0%
\$35,000 to \$49,999	14,116	16.3%
\$50,000 to \$74,999	17,022	19.6%
\$75,000 to \$99,999	9,676	11.2%
\$100,000 to \$149,999	8,702	10.0%
\$150,000 to \$199,999	2,141	2.5%
\$200,000 or more	1,837	2.1%

Chronic Disease in Trumbull County

Poverty

Lower income levels are associated with lower overall health and health outcomes. Lower socioeconomic status is identified as one of the barriers to achieving optimal health. Trumbull County has an average of 17.2% of their total population or 12,227 residents living below the federal poverty level of income.⁽⁸⁾ Some areas of Trumbull County experience higher rates hovering near 20%. The national poverty rate average for 2017 was 12.3%, and the poverty rate average for Ohio was 14.9%.⁽⁸⁾ According to the 2019 County Health Rankings, of the 88 counties encompassed within Ohio, Trumbull County ranks in the lowest 3rd percentile across all categories, reflecting a potential correlation or link with a heightened poverty rate and lower overall health and health outcomes. These categories are listed in Table 3A below. Refer to Map 1A to see where pockets of poverty and shortened life expectancy are located.

Health Outcomes⁽¹⁰⁾

Table 3A

Category	Rank - 2019 (out of 88 counties)
Health Outcome	72
Length of Life	74
Quality of Life	63
Health Factors	77
Health Behaviors	69
Clinical Care	64
Social & Economic Factors	79
Physical Environment	69

See Table 8A for Peer Community Data Comparison

Access to Food

Chronic diseases associated with lower socioeconomic status by way of poverty are prevalent in Trumbull County as well. However, access to quality, affordable and healthy foods is also a determinant of overall health. As of 2018, the United States Department of Agriculture (USDA) had and continues to identify portions of Trumbull County including Girard, Warren and Niles as “Food Deserts”. A food desert is defined as “an urban area in which it is highly difficult to buy affordable or good-quality fresh food”. As of 2019, according to the UA Nutrition Network, Trumbull County only has 84 registered grocery stores, with nearly 57% of those also holding a classification as a convenience store as well. Disease and ailments associated with poor diet include cardiovascular and inflammatory disorders and diabetes. Of the 400 Trumbull County residents who responded to the HCNO survey:

Chronic Disease Diagnosis

Table 4A

Condition	% of Total Respondents Diagnosed	% of African American Respondents Diagnosed (Trumbull & Mahoning Counties)	% Diagnosed (income <\$25K)
High Blood Pressure	39%	58%	47%
High Blood Cholesterol	40%	32%	44%
Survived Heart Attack or Myocardial Infarction	6%	4%	-
Angina or Coronary Heart Disease	6%	1%	-
Arthritis	36%	43%	46%
Asthma	21%	18%	16%
Diabetes	15%	16%	22%
Limited in some way by Physical, Mental or Emotional Problem	28%	32%	-
Cancer (at some time in their life)	15%	14%	-

Cancer Cases⁽⁹⁾

Table 5A

Zip	Census Tract	City/Township	Breast Cancer Cases	Lung Cancer Cases	Cervical Cancer Cases	Prostate Cancer Cases
44076	930300	Greene	4	4	0	1
44402	930400	Bristol	4	4	0	3
44403	931300	Brookfield	8	3	0	2
44404	930102	Hartford	5	2	0	0
44410	931000	Bazetta	9	7	0	5
44410	930900	Cortland City	8	8	1	13
44417	930200	Gustavus	2	2	0	4
44418	931100	Fowler	1	3	0	1
44420	933900	Girard	1	2	0	0
44420	932200	Girard	3	0	0	1
44420	932300	Girard	5	3	0	7
44425	931500	Hubbard	7	3	0	3
44425	931601	Hubbard City	6	2	0	2
44425	931602	Hubbard City	4	2	0	3
44425	931700	Hubbard	3	2	0	0
44428	930101	Kinsman	4	4	0	6
44430	933700	Braceville	2	3	0	0
44430	920700	Warren	2	1	1	4
44437	932500	McDonald Village	2	3	0	1
44438	931400	Brookfield	5	3	1	4
44440	933302	Weathersfield	5	6	0	0
44444	933600	Newton	3	10	0	1
44444	933500	Newton	4	3	0	2
44446	932801	Niles City	3	1	0	1
44446	932802	Niles City	4	4	0	2
44446	932600	Niles City	4	1	0	2
44446	932702	Niles City	3	3	0	2
44446	932701	Niles City	9	6	0	6
44450	930400	Bloomfield	4	4	0	3
44450	930500	Mesopotamia	1	2	0	1
44470	930600	Southington	6	7	0	1
44473	931200	Vienna	3	6	0	4
44481	930800	Champion	4	7	0	9
44481	933400	Lordstown	2	4	0	2
44481	933100	Warren	1	4	0	1
44481	933800	Warren City	1	3	1	0
44481	933301	Weathersfield	3	3	0	5
44483	921200	Warren	1	0	0	0
44483	930700	Champion	3	2	0	6
44483	921300	Howland	2	3	0	1
44483	920600	Warren City	3	7	3	3
44483	921100	Warren City	3	3	0	3
44483	920400	Warren City	2	1	0	0
44483	920300	Warren City	4	3	0	1
44483	921400	Warren City	5	2	0	3
44484	920500	Warren City	0	1	0	0
44484	921500	Warren City	7	7	0	4
44484	921600	Warren City	4	0	0	0
44484	932900	Howland	2	2	0	3
44484	933002	Howland	6	6	0	4
44484	933001	Howland	10	10	0	5
44485	921000	Warren City	3	4	0	5
44485	920900	Warren City	5	7	0	2
44485	920800	Warren City	1	2	0	0
44491	930500	Farmington	1	2	0	1
44505	931900	Liberty	5	4	0	5
44505	932000	Liberty	5	2	1	7

Oral Health

Cavities are one of the most common chronic conditions in the United States. According to the CDC's Division of Oral Health, oral health has been linked with other chronic diseases such as diabetes and heart disease as well as risk behaviors such as using tobacco and eating and drinking foods and beverages high in sugar. They also state that oral health affects self-esteem, school performance and attendance at work and school. Of the 400 Trumbull County residents who responded to the HCNO survey:

Tooth Extractions

Table 6A

Extractions	% of Total Respondents Diagnosed
Had Any Permanent Teeth Extracted	52%
Had All Their Natural Teeth Extracted <i>(Ages 65 & Older)</i>	40%

Number of Teeth Removed by Smoking Status

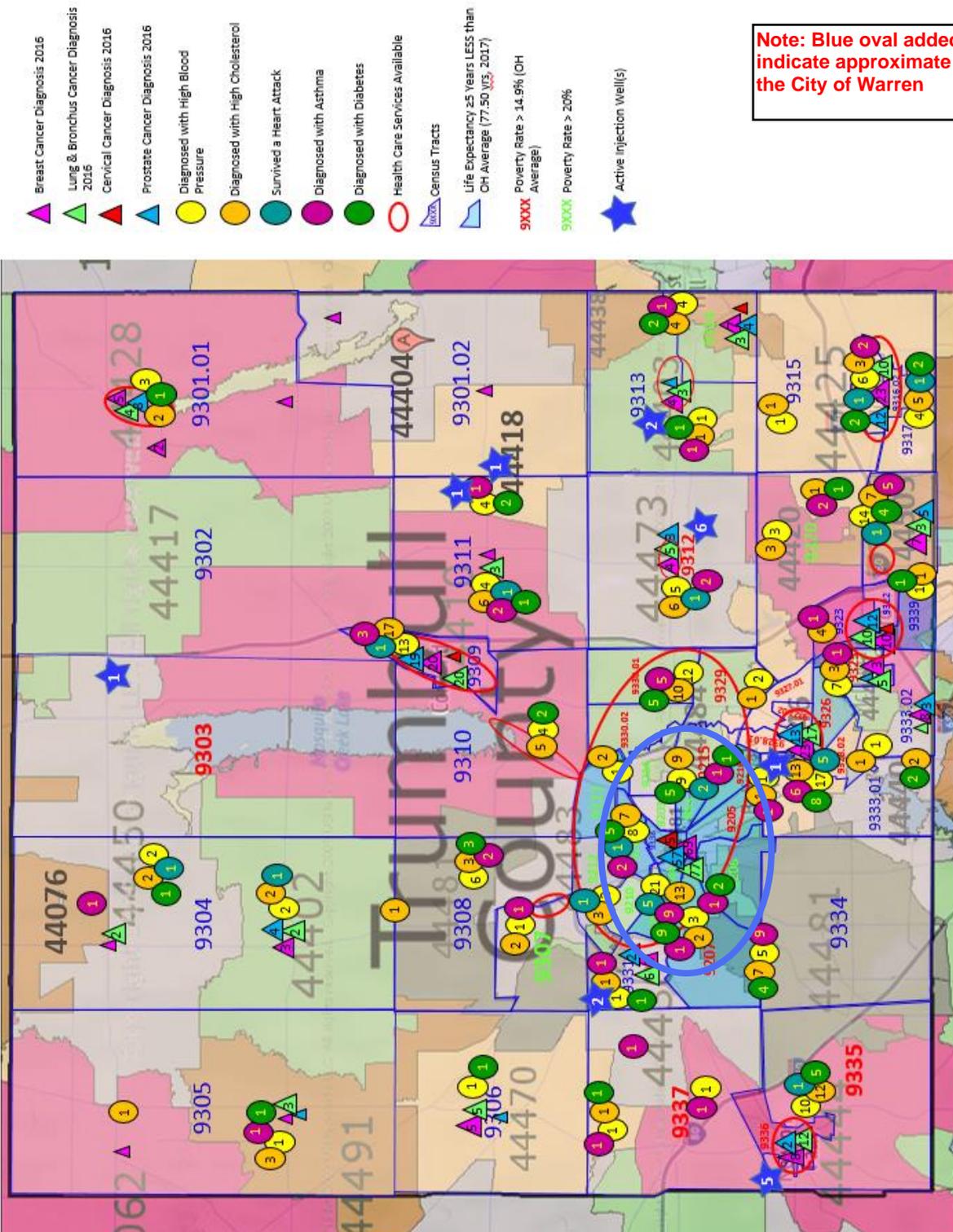
(Due to Tooth Decay or Gum Disease)

Table 7A

Number of Teeth Removed	Current Smoker	Former Smoker	Non-Smoker
None	20%	36%	51%
5 or Fewer	27%	32%	31%
6 or More, But Not All	24%	23%	15%
All	18%	6%	7%

Location of Chronic Disease, Poverty, Life Expectancy and Active Injection Wells

Map 1A



Note: Blue oval added to map to indicate approximate boundary of the City of Warren

*Map 1A reflects the 2018 clusters or concentrations of chronic disease/ailments, poverty rates, life expectancy and active injection well locations with both census tract and zip code data overlays.

Mental and Behavioral Health in Trumbull County

Poor mental health is major contributor to poor physical health. Stress and anxiety are known causes of chronic disease, and depression can lead someone to the fail to prioritize maintaining/improving their personal health and/or their family’s health. Of the 400 Trumbull County residents who responded to the HCNO survey:

In the past year Trumbull County adults:

<u>Comparisons</u>	<u>% of Respondents</u>	<u>% African Am. Respondents (Trumbull & Mahoning Counties)</u>
Felt Sad or Hopeless for 2 or More Weeks	16%	25%
Seriously Considered Attempting Suicide	5%	8%
Attempted Suicide	1%	1%

Adults reported that they or a family member were diagnosed with or treated for the following mental health issues *(Top 5 Issues)*:

<u>Issues</u>	<u>% of Respondents</u>	<u>% African Am. Respondents (Trumbull & Mahoning Counties)</u>
Depression	24%	29%
Anxiety or Emotional Problems	21%	22%
An Anxiety Disorder	13%	20%
Bipolar Disorder	13%	16%
Attention Deficit Disorder (ADD/ADHD)	7%	12%

Adults indicated the following caused them anxiety, stress or depression *(Top 5 Issues)*:

<u>Reasons</u>	<u>% of Respondents</u>	<u>% African Am. Respondents (Trumbull & Mahoning Counties)</u>
Financial Stress	36%	47%
Job Stress	30%	34%
Other Stress at Home	21%	30%
Poverty/No Money	20%	24%
Death of Close Family Member or Friend	19%	22%

Adult Tobacco Use

- 18% of Trumbull County adults were current smokers (those who indicated smoking at least 100 cigarettes in their lifetime and currently smoke some or all days)
- 23% of Trumbull and Mahoning County African American adults were current smokers (those who indicated smoking at least 100 cigarettes in their lifetime and currently smoke some or all days)

Adult Alcohol Consumption

- 52% of Trumbull County adults had at least one alcoholic drink in the past month. 37% of current drinkers were binge drinkers.
- 29% of Trumbull and Mahoning County African American had at least one alcoholic drink in the past month. 63% of current drinkers were binge drinkers.

Adult Drug Use

- 9% of Trumbull County adults had used medication not prescribed for them or took more than prescribed to feel good or high and/or more active or alert during the past six months.
- 15% of Trumbull and Mahoning County African American had used medication not prescribed for them or took more than prescribed to feel good or high and/or more active or alert during the past six months.

Trumbull County vs. Peer Communities⁽¹⁰⁾

Table 8A

RED = Worst of Peers

	Ohio	Trumbull Co, OH	Mahoning Co, OH	Portage Co, OH	Stark Co, OH
Health Outcomes		72	67	28	49
Length of Life		74	58	22	43
Life Expectancy	77.0	75.5	76.5	77.8	77.2
Premature Age-Adjusted Mortality	8,500	10,600	9,100	7,300	8,300
Child Mortality	60	60	50	50	60
Infant Mortality	7	8	8	6	8
Quality of Life		63	73	41	54
Poor or Fair Health	17%	16%	17%	15%	17%
Poor Physical Health Days	4.0	3.8	3.9	3.7	3.9
Poor Mental Health Days	4.3	4.2	3.9	3.9	4.1
Frequent Physical Distress	13%	12%	12%	11%	12%
Frequent Mental Distress	14%	13%	13%	12%	13%
Diabetes Prevalence	12%	13%	13%	11%	12%
HIV Prevalence	213	123	236	69	128
Low Birthweight	9%	9%	10%	8%	8%
Health Factors		77	63	28	44
Health Behaviors		69	57	20	41
Adult Smoking	23%	22%	22%	20%	20%
Adult Obesity	32%	36%	30%	31%	32%
Food Environment Index	6.7	7.1	6.8	7.5	7.4
Food Insecurity	15%	16%	16%	14%	14%
Limited Access to Healthy Foods	7%	8%	11%	8%	8%
Physical Inactivity	25%	25%	29%	24%	26%
Access to Exercise Opportunities	84%	82%	79%	84%	80%
Excessive Drinking	19%	17%	16%	19%	18%
Alcohol-Impaired Driving Deaths	33%	31%	31%	28%	32%
Drug Overdose Deaths	37	57	39	26	26
Sexually Transmitted Infections	520.9	408.3	521.8	282.9	495.8
Teen Births	26	28	28	10	27
Clinical Care		64	23	32	9
Uninsured	7%	7%	6%	7%	6%
Uninsured Adults	8%	8%	7%	8%	7%
Uninsured Children	4%	4%	3%	5%	3%
Primary Care Physicians	1,300:1	2,150:1	960:1	2,610:1	1,250:1
Dentists	1,620:1	1,910:1	1,380:1	2,250:1	1,580:1
Mental Health Providers	470:1	720:1	360:1	540:1	420:1
Preventable Hospital Stays	5,135	6,202	5,564	4,169	4,336
Mammography Screening	41%	39%	40%	41%	42%
Flu Vaccinations	47%	45%	44%	47%	48%
Social & Economic Factors		79	78	31	49
High School Graduation	85%	91%	90%	92%	92%
Some College	65%	50%	62%	67%	64%
Unemployment	5.0%	7.2%	6.9%	5.0%	5.2%
Children in Poverty	20%	24%	29%	14%	22%
Income Inequality	4.8	4.4	4.8	4.5	4.4
Children in Single-Parent Households	36%	41%	44%	31%	39%
Social Associations	11.2	13.4	13.7	9.3	12.5
Violent Crime	293	237	279	117	328
Injury Deaths	82	102	88	62	79
Median Income	\$54,100	\$46,300	\$43,900	\$59,500	\$51,200
Children Eligible for Free Lunch	39%	50%	43%	34%	36%
Physical Environment		69	33	81	80
Air Pollution – Particulate Matter	11.5	11.2	11.4	11.5	12.2
Severe Housing Problems	15	13	14	15	13
Long Commute – Driving Alone	83%	89%	86%	84%	85%
Demographics					
Population	11,658,609	200,380	229,796	162,277	372,542
% Below 18 yrs of Age	22.3	20.6	20.1	18.9	21.6
% 65 & Older	16.7%	21%	20.5%	15.9%	19.0%
% Non-Hispanic African American	12.5%	8.4%	15.0%	4.4%	7.8%
% Am. Indian & Alaskan Native	0.3%	0.2%	0.3%	0.2%	0.3%
% Asian	2.3%	0.6%	0.9%	2.1%	1.2%
% Native Hawaiian/Other Pacific Islander	0.1%	0.0%	0.1%	0.0%	0.0%
% Hispanic	3.8%	1.8%	5.9%	1.8%	2.1%
% Non-Hispanic White	79.1%	87.2%	76.1%	89.6%	86.5%
% Rural	22.1%	27.3%	15.2%	32.8%	13.5%

Table 8A shows how Trumbull County compares to its peer communities as described in the 2019 County Health Rankings. In all of the state ranking categories (listed in bold) with the exception of Physical Environment, Trumbull County ranks worse than its three peer communities. Other notable areas of concern for Trumbull County include the number of overdose deaths, ratio of residents to mental health providers and number of preventable hospital stays. The population demographics are similar across all of the communities, but attention should be drawn to the larger 65 and older population residing in Trumbull County.

Although Trumbull County's ratios of residents to primary care physicians and dentists are not the worst of the communities, the numbers do indicate that there are gaps in services due to the limited number of providers. Additionally, the correlation between the limited number of primary care physicians, limited number of mental health providers and the overuse of hospital services for outpatient care as seen with the number of preventable hospital stays further supports the summation that gaps in service exist. The Trumbull Community Health Improvement Partnership should consider developing CHIP strategies to address these gaps.

Capacity and Distribution of Available Resources

Capacity of Available Health Care Services within Trumbull County

Having access to affordable and good quality foods is merely one facet of achieving a healthy lifestyle. Another facet in the complex equation of healthy lifestyles is available health care services within a respective geographic region. On average and per national guidelines developed by the American Academy of Family Physicians, a patient should be seen by their physician or healthcare administrator 3.19 times per year.⁽³⁾ A study performed in 2007 further indicates that the national average for primary care physician appointments was at that time, 17.4 minutes.⁽⁶⁾ Based upon these two statistics, the average primary care physician could handle a patient case load or "panel size" of nearly 2000 patients annually and be both effective and sufficient in providing quality health care to their respective patients, resulting in a ratio of 2000:1. Utilizing this ratio as a standard, Trumbull County has the following ratios⁽¹⁰⁾:

Primary Care Physicians

94 Physicians (includes MD and DO)
Ratio: 2150:1

Dentists

105 Dentists
Ratio: 1910:1

Mental Health Providers

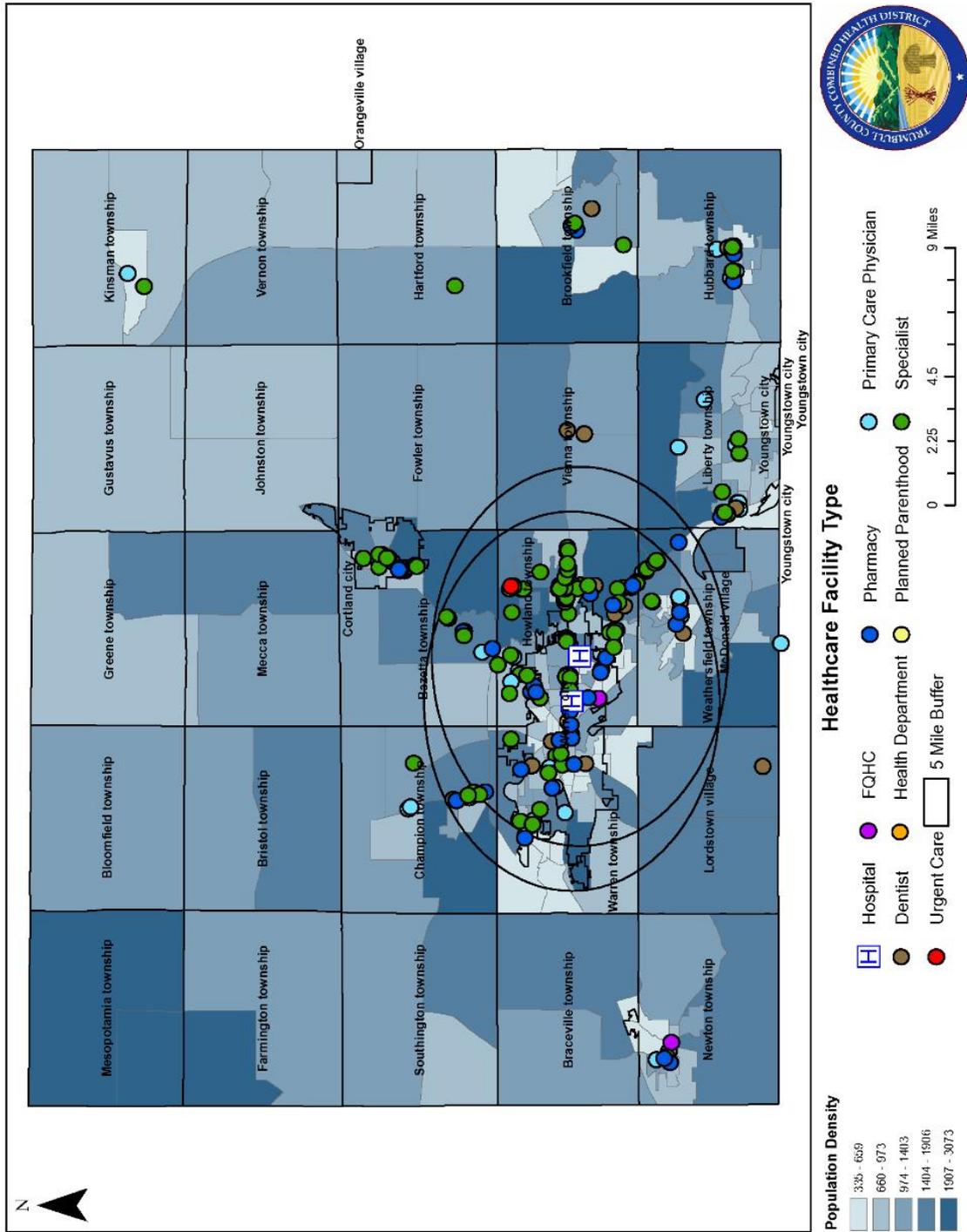
278 Mental Health Providers
Ratio: 720:1

To see how Trumbull County's data compares to peer communities, refer to Table 8A.

Distribution and Availability of Healthcare Facilities

Map 2A

Trumbull County: Access to Healthcare by Block Group and Political Subdivision (2019)



Based upon the data provided in Map 2A, a list of all the available healthcare providers is compiled below:

- 2 Hospitals (Mercy Health St. Josephs of Warren and Trumbull Regional Medical)
- 94 Primary Care Physicians
- 105 Dentists
- 10 Urgent Care (Mercy Health St. Joseph's Urgent Care)
- 2 Health Departments (Warren City and Trumbull County)
- 5 FQHC (Federally Qualified Health Care) providers
- 36 Pharmacies
- 1 Planned Parenthood
- 161 Specialists (including)
 - 2 Anesthesiologists
 - 3 Audiologists
 - 4 Cardiologists
 - 20 Chiropractors
 - 2 Dermatologists
 - 1 Endocrinologist
 - 4 Gastroenterologists
 - 1 Hematologist
 - 2 for Maternal and Fetal Medicine
 - 1 Midwife
 - 1 Nephrologist
 - 4 Neurologist
 - 1 Neuro-radiologist
 - 1 for Nuclear Medicine
 - 12 for Nursing
 - 1 Nurse Anesthetist
 - 6 for Obstetrics and Gynecology
 - 1 Occupational Therapist
 - 10 Ophthalmologists
 - 14 Optometrists
 - 3 Orthodontists
 - 4 Otolaryngologists
 - 2 for Pain Mgmt
 - 8 Pediatricians
 - 1 Periodontists
 - 2 for Physical Medicine and Rehabilitation
 - 5 Physical Therapists
 - 2 Physician Assistants
 - 20 Podiatrists
 - 1 for Pulmonary Medicine
 - 3 for Radiology/ Diagnostics
 - 1 Rheumatologist
 - 5 General Surgeons
 - 1 Hand Surgeon
 - 2 Orthopedic Surgeons
 - 2 Plastic Surgeons
 - 2 Thoracic Surgeons
 - 1 Vascular Surgeon
 - 1 Urologist
 - 1 For VA Services

Healthcare Providers by Zip Code

Zip	City/ Township	# Primary Care Physicians	# Specialists	# Dentists	# Pharmacies	# FQHC	# Hospitals
44076	Greene	0	0	0	0	0	0
44402	Bristol	0	0	0	0	0	0
44403	Brookfield	2	2	1	2	0	0
44404	Hartford	0	0	0	0	0	0
44410	Bazetta/ Cortland City	4	20	2	4	0	0
44417	Gustavus	0	0	0	0	0	0
44418	Fowler	0	1	0	0	0	0
44420	Girard	5	6	2	2	0	0
44425	Hubbard/ Hubbard City	4	6	2	3	0	0
44428	Kinsman	2	1	0	0	0	0
44430	Braceville/ Warren Twp	0	0	0	0	0	0
44437	McDonald Village	0	0	0	0	0	0
44438	Brookfield	0	0	0	0	0	0
44440	Weathersfield	1	0	0	0	0	0
44444	Newton/ Newton Falls	3	1	0	2	1	0
44446	Niles City	11	13	7	6	0	0
44450	Bloomfield/ Mesopotamia	0	0	0	0	0	0
44470	Southington	0	0	0	0	0	0
44473	Vienna	1	0	2	0	0	0
44481	Champion/ Lordstown/ Warren Twp/ Warren City/ Weathersfield	0	1	1	5	0	0
44483	Warren Twp/ Champion/ Howland/ Warren City	16	36	7	7	1	2
44484	Warren City/ Howland	7	69	7	5	1	0
44485	Warren City	4	6	1	1	1	0
44491	Farmington	0	0	0	0	0	0
44505	Liberty	0	0	0	0	0	0

Gaps in Services based on Location

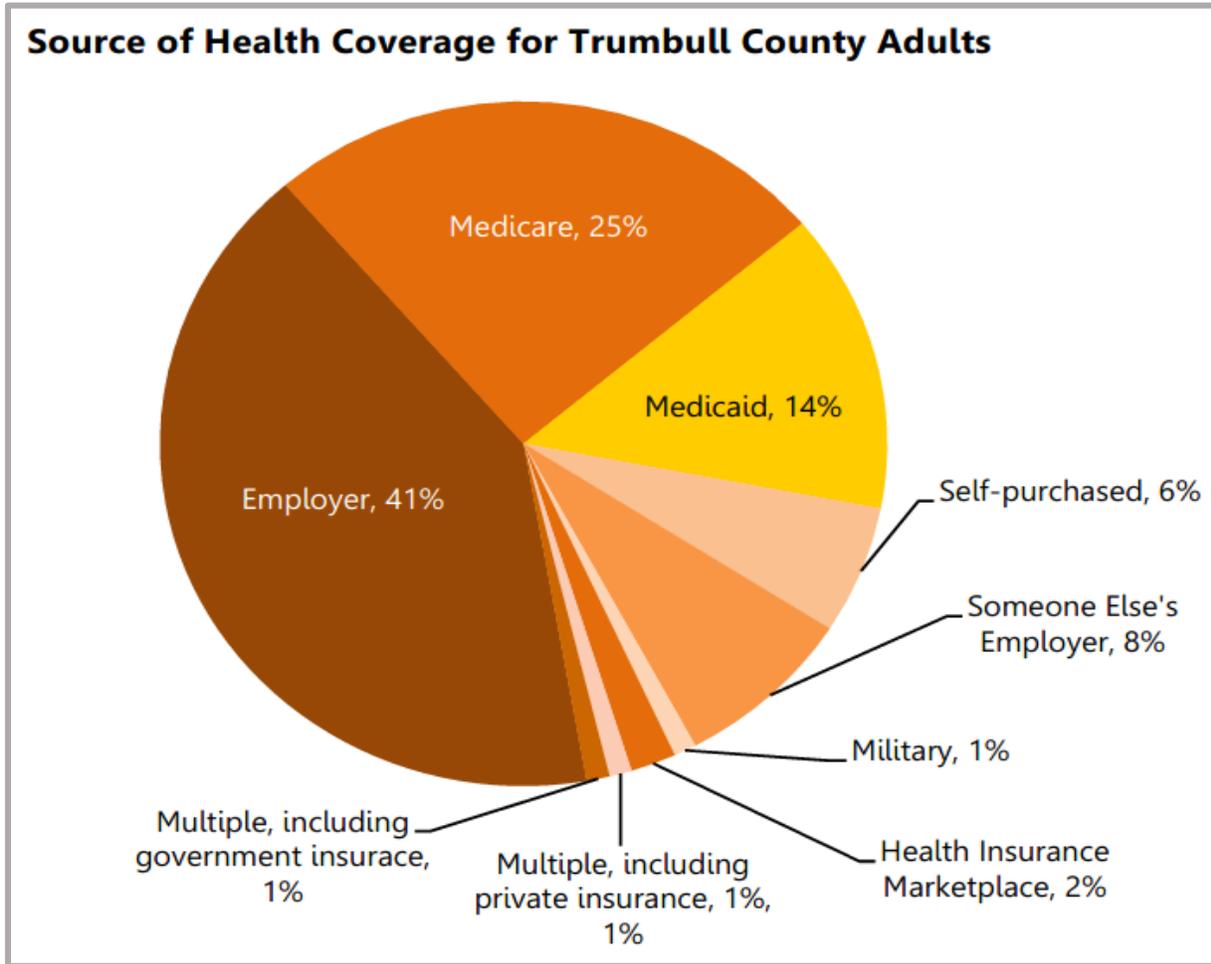
As evidenced in Map 2A however, a significant cluster of available healthcare resources is centered primarily around the highly populated areas of Warren, Cortland, Hubbard, Newton Falls, Weathersfield, Howland, Liberty and Niles, which are located in the southern region of the county. Additionally, when comparing the healthcare locations with the areas of poverty, lower life expectancy and higher instances of chronic disease as identified in Map 1A, we see that the healthcare facilities are centered around the populations experiencing the greatest disparities. Thus, other factors such as socioeconomic and health behaviors are gaps to accessing care in these areas.

Furthermore, the density of services creates a gap in available healthcare services for Trumbull County residents living in the mainly rural areas of the county. Although less populated, a large portion of the northern third of the county have no healthcare resources located within a five-mile radius. This is especially significant for Trumbull County's 7500 Amish residents living mainly in the northwest townships of Mesopotamia, Farmington and Bloomfield. Due to their religious beliefs, Amish residents still use a horse-drawn buggy as their primary mode of transportation and their homes lack modern technology and communication devices.

Insured/Uninsured/Under-Insured

According to the HCNO survey, 94% of the respondents have healthcare insurance with the largest provider of health care coverage being employer-based/sponsored coverage, followed by Medicare and Medicaid respectively. At the time this survey was utilized, 6% of respondents reported that they had no health insurance. This statistic aligns with the Centers for Health Research (CHR) 2019 data, which indicates that an estimated 7% of Trumbull County's total population was uninsured. The following is a graphical representation of the known sources of healthcare coverage for Trumbull County Residents.

Graph 1A



Source of Healthcare coverage listed by percentage:

<u>Source</u>	<u>Percentage of Total Population</u>
Employer	41%
Medicare	25%
Medicaid	14%
Someone Else's Employer	8%
Self-Purchased	6%
Health Insurance Marketplace	2%
Military and Multiple Providers	1%

Additional Barriers to Care and Treatment

Poverty, socioeconomic status (including lower income level), food access and available resources are external influences that can affect an individual’s overall health. Yet additional barriers can exist through the perception of the individual and therefore affect their overall health. From the respondents to the HCNO survey, the following categories are represented:

Medical Care Received

- 66% of respondents received medical care in the past 12 months
- 64% of Trumbull and Mahoning County African American adults received medical care in the past 12 months

Reasons for NOT Seeking Medical Care Included (Top 5):

<u>Reason</u>	<u>% of Respondents</u>	<u>% African Am. Respondents (Trumbull & Mahoning Counties)</u>
No need to go	16%	No need to go 13%
Cost or no insurance to defer cost	7%	Cost or no insurance to defer cost 3%
Too long of a wait for an appointment	3%	Discrimination 2%
Other problems prevented receiving med care	3%	No transportation 2%
Inconvenient appointment times	2%	Too embarrassed to seek help 2%

Filling Prescriptions

- 25% of respondents did not have their prescriptions filled in the past year
- 27% of Trumbull and Mahoning County African American adults did not have their prescriptions filled in the past year

Reasons for NOT Filling a Prescription (Top 5):

<u>Reason</u>	<u>% of Respondents</u>	<u>% African Am. Respondents (Trumbull & Mahoning Counties)</u>
Did not have any to fill	16%	Did not have any to fill 15%
Too expensive	6%	Too expensive 9%
Did not think they needed it	3%	Did not think they needed it 7%
No generic equivalent available	2%	Side effects 3%
Stretched the prescription by taking less	2%	Stretched the prescription by taking less 2%

Visiting a Dentist

- 62% of respondents visited the dentist or dental clinic in the past 12 months
- 51% of Trumbull and Mahoning County African American adults visited the dentist or dental clinic in the past 12 months

Reasons for NOT Visiting a Dentist or Dental Clinic Included (Top 5):

<u>Reason</u>	<u>% of Respondents</u>	<u>% African Am. Respondents (Trumbull & Mahoning Counties)</u>
Cost	38%	Had dentures 25%
Fear, apprehension, nervousness, pain and dislike going	25%	Fear, apprehension, nervousness, pain and dislike going 22%
Had dentures	18%	Cost 22%
No reason to go	17%	No reason to go 18%
Dentist did not accept their coverage	10%	Did not have/know a dentist 9%

Drug or Alcohol Treatment

- 3% of respondents had used a program or service to help with and alcohol or drug problem for themselves or a loved one
- 7% of Trumbull and Mahoning County African American adults had used a program or service to help with and alcohol or drug problem for themselves or a loved one

Reasons for NOT Receiving Drug or Alcohol Treatment Included (Top 5):

<u>Reason</u>	<u>% of Respondents</u>		<u>% African Am. Respondents (Trumbull & Mahoning Counties)</u>
Program not needed	89%	Program not needed	89%
Had not thought of it	1%	Had not thought of it	3%
Stigma	1%	Fear	2%
Don't know how to find program	1%	Insurance didn't cover it	2%
Could not afford to go	1%	Other reasons	2%

Preventive Screenings:

<u>Screening</u>	<u>% Respondents Who Received Screening</u>
Blood Pressure (within past year)	91%
Blood Cholesterol (within past 5 yrs)	80%
Cancer Screening	
Colorectal (within past 5 yrs)	33%
Oral (within past year)	16%
Skin Cancer (within past year)	16%
Lung Cancer (within past 3 yrs)	5%
Breast – Mammogram (within past year)	56%
Cervical – Pap Smear (within past year)	42%
Prostate – PSA (within past year)	53%
Prostate – Digital Rectal (within past year)	29%

Adults reported the following reasons for using the Emergency Room (ER) for their healthcare:

<u>Reason</u>	<u>% of Respondents Who Looked</u>
Serious Illness/Injury	55%
Their Doctor Told Them to Go	14%
Could Not See Primary Care Physician Due to Time of Day/Too Long Wait	13%
What They've Always Done/What They're Used to	3%
No Primary Care Physician	1%

Unable to Locate a Specific Program for Assistant with Treatment of a Specific Illness or Disorder:

<u>Illness/Disorder</u>	<u>% of Respondents Who Looked</u>
Depression or Anxiety	12%
Elder care	12%
Disability	13%
Marital/Family Problems	23%
Weight Problems	19%
Alcohol Abuse	29%
Detox for Opiates	26%
Tobacco Cessation	11%

Focus Group Reports

The following information is taken directly from the Focus Group Reports contained in the CHA. For more details regarding the focus groups and their comments, refer to the Focus Group section of the CHA. The information listed below was given by focus group participants.

Aging Population Focus Group

Barriers

Major barriers to accessing and participating in programs, services or resources in Trumbull County included fear of receiving painful treatments, lack of access to adequate and affordable insurance coverage, not having dental or eye coverage as people age, insurance not covering certain doctors and general confusion regarding health care coverage. The majority of participants wanted consistency in health care coverage, so they could go to any doctor they wanted and have insurance cover it. Not having to pay extra for dental, optical and specialists or at least making the price more consistent for those services was recommended by the group. One participant shared a mistrust of the health care system because she believed pharmaceutical companies were withholding cures for cancer from the public. Some participants experience a hard time trusting new doctors and said it was because of the high turnover of health care providers in the community.

Health Inequities

The majority of the group did not believe factors such as age, gender, physical ability, race, ethnicity or sexual orientation mattered in accessing services. They thought age and sexual preference did not matter and if a person wanted to go do something, they could. However, one participant disagreed and thought white people were more privileged in Trumbull County. Most of the participants did agree that there was a lack of minority doctors and pharmacists in the county and thought that people of different race and ethnicities may not be able to relate to their health care providers.

Southwest Warren Focus Group

Barriers

The following barriers to accessing or participating in programs were identified by focus group participants: lack of interest, disability and some programs, especially those dealing with mental health, focus on medications rather than talking through the issue. Participants perceived that sometimes agencies had the appearance of being out in the community talking and working with people, but it was very superficial. Participants share that it felt to them like the works didn't actually care about the individual nor did they provide what they really needed. They shared that the people working at the front desk of agencies or community resources were not always friendly or helpful, which creates a climate of not seeking services because of bad experiences.

Health Inequities

The group strongly agreed that factors such as age, gender, physical ability, race, ethnicity and sexual orientation play a part in accessing programs, services or health care in the community. It was brought up that racism was very prominent in Warren and participants experienced prejudice against different sexual orientations, gender and age. It was discussed that White people get better response time from law enforcement and emergency personnel. Participants thought the judicial system was also prejudice because it was perceived in their community that if two people commit the same crime, a Caucasian person would get less time than an African American person.

Participants thought that job opportunities in the area were often influenced by who people knew, rather than their skillset. They also shared that transportation impacts access to job opportunities, which also influenced how healthy someone could be. Suggested opportunities to help reduce the transportation barrier were encouraging using bikes, Uber, Taxi's and carpooling.

Southeast Warren Focus Group

Barriers

Common barriers identified were that aging people do not want to drive in the winter and there is a lack of awareness for community programs. There is also overlap between programs and services and the affordability is a barrier if it is not a free program. Also, there are too many restrictions from insurance companies for when and how procedures can be completed that inhibit a doctor's ability to make a choice based off a patient's best interest.

One group member talked about his experience with a food co-op; in the past, a co-op was popular among community members but was not sustainable because of the governmental regulations and the demand for volunteers. They had up to 300 community members participating and could take food stamps but could not sustain the unpaid volunteer required to keep the program going. It was difficult for the farmers to write government grant to get funds to support the project. They delivered nutritious meals to senior citizens which provides both physical nourishment and also helped to provide social interaction to populations that are isolated from the community.

Health Inequities

The group agreed that factors such as age, gender, physical ability, race, ethnicity and sexual orientation play a part in accessing programs, services or health care in Trumbull County. There is discrimination and prejudice from the health care system that people without insurance are treated differently than people with good insurance. Age is a factor that impacts access. Participants described that less time, resources and money are spent on the aging population in the health care system. Income will dictate a person's quality of treatment and the type of insurance will also influence the quality of care such as adequate dental care is dependent of the type insurance someone has.

Statistical Data by Zip Code/Census Tract⁽⁸⁾⁽¹¹⁾

Population Data

Trumbull County Life Expectancy = 77.38 years/Ohio = 77.50 years/US = 78.60 years

Ohio Poverty = 14.9%/Ohio Median Income = \$52,407

RED = Worse than OH

Top 5 Largest Minority Populations

Zip	Census Tract	City/Township	Life Expectancy Area (by census tract)	Poverty Rate (by zip)	Median Household Income (by zip)	Total Pop. (by zip)	Minority Pop. % (by zip)	White (by zip)	Black or African Am. (by zip)	Am. Indian & Alaska Native (by zip)	Asian (by zip)	Nat. Hawaiian & Other Pacific Islander (by zip)	Some Other Race (by zip)	2 or More Races (by zip)
44076	930300	Greene	78.50	19.0%	\$43,709.00	5,141	3.9%	4,938	89	7	13	0	12	82
44402	930400	Bristol	77.00	5.8%	\$58,640.00	3,352	1.9%	3,287	9	3	5	0	4	44
44403	931300	Brookfield	77.40	11.2%	\$55,694.00	3,820	2.1%	3,738	34	4	10	0	5	29
44404	930102	Hartford	77.60	4.2%	\$67,992.00	1,624	1.7%	1,597	2	1	2	0	6	16
44410	931000	Bazetta	77.30	8.7%	\$57,046.00	17,409	2.9%	16,911	176	26	92	11	29	164
44410	930900	Cortland City	79.00											
44417	930200	Gustavus	77.60	14.8%	\$56,711.00	1,659	1.7%	1,631	10	2	3	2	0	11
44418	931100	Fowler	77.40	3.9%	\$58,789.00	1,357	1.0%	1,343	7	1	1	0	1	4
44420	933900	Girard	69.60	14.6%	\$41,489.00	15,429	7.1%	14,334	664	27	62	7	38	297
44420	932200	Girard	79.60											
44420	932300	Girard	77.50											
44425	931500	Hubbard	77.60	11.4%	\$49,548.00	14,898	4.5%	14,224	367	13	58	5	41	190
44425	931601	Hubbard City	78.50											
44425	931602	Hubbard City	82.30											
44425	931700	Hubbard	74.60											
44428	930101	Kinsman	79.10	11.4%	\$48,750.00	3,290	2.3%	3,214	11	19	9	0	9	28
44430	933700	Braceville	75.20	19.2%	\$46,500.00	5,270	19.4%	4,247	900	15	10	3	13	82
44430	920700	Warren Twp	71.20											
44437	932500	McDonald Vlg	77.00	16.8%	\$46,522.00	4,252	3.0%	4,123	62	9	8	1	5	44
44438	931400	Brookfield	73.20	26.8%	\$32,247.00	4,751	8.3%	4,356	256	2	3	0	11	123
44440	933302	Weathersfield	75.10	10.2%	\$55,340.00	4,967	4.2%	4,760	115	3	4	1	22	62
44444	933600	Newton	76.60	15.8%	\$46,530.00	10,454	2.9%	10,152	130	10	16	1	20	125
44444	933500	Newton	77.30											
44446	932801	Niles City	74.70	19.0%	\$40,713.00	20,955	6.5%	19,599	678	39	143	1	61	438
44446	932802	Niles City	75.10											
44446	932600	Niles City	70.80											
44446	932702	Niles City	74.10											
44446	932701	Niles City	77.60											
44450	930400	Bloomfield	77.00	4.0%	\$53,906.00	2,042	4.8%	1,945	69	5	3	1	0	19
44450	930500	Mesopotamia	80.60											
44470	930600	Southington	78.60	6.8%	\$59,298.00	3,790	1.9%	3,719	31	4	6	0	8	22
44473	931200	Vienna	77.80	19.6%	\$50,875.00	3,823	2.6%	3,724	41	3	13	1	3	38
44481	930800	Champion	80.10	12.4%	\$51,311.00	10,408	6.7%	9,711	539	14	31	0	17	96
44481	933400	Lordstown	80.40											
44481	933100	Warren Twp	73.20											
44481	933800	Warren City	63.20											
44481	933301	Weathersfield	73.60											
44483	921200	Warren Twp	75.60	22.4%	\$37,152.00	26,006	14.7%	22,196	2,891	39	97	3	100	680
44483	930700	Champion	76.60											
44483	921300	Howland	69.70											
44483	920600	Warren City	69.00											
44483	921100	Warren City	69.20											
44483	920400	Warren City	71.60											
44483	920300	Warren City	77.10											
44483	921400	Warren City	77.90											
44484	920500	Warren City	71.90	18.2%	\$48,394.00	22,991	14.2%	19,735	2,424	41	275	2	95	419
44484	921500	Warren City	73.90											
44484	921600	Warren City	70.40											
44484	932900	Howland	76.70											
44484	933002	Howland	79.40											
44484	933001	Howland	86.00											
44485	921000	Warren City	72.80	38.6%	\$26,824.00	16,498	42.7%	9,448	6,201	57	66	2	144	580
44485	920900	Warren City	70.70											
44485	920800	Warren City	68.60											
44491	930500	Farmington	80.60	14.9%	\$56,038.00	3,515	2.4%	3,432	20	10	3	0	14	36
44505	931900	Liberty	78.40	30.1%	\$29,223.00	19,357	57.2%	8,277	9,431	89	163	13	670	714
44505	932000	Liberty	79.70											

It is worth noting that the five zip codes with the largest minority populations also have poverty rates and median household incomes that are worse than the averages for the state. Four out of five of those same zip codes contain census tracts that report life expectancies that are worse than the average for the state. Although the majority of health care services are located within these same areas, once again the correlation between poverty and poor health outcomes can be seen.

Overall Medical Service Usage for Trumbull County

In 2018, the two Hospital systems within Trumbull County reported the following with regard to medical service usage:

Steward Family Health

- Trumbull Memorial Hospital- 8,228 hospitalizations
- Hillside- 968 hospitalizations
- Trumbull Memorial ED visits- 30,816

Mercy Health Systems

- St. Joseph Hospital- 8,441 hospitalizations
- ED visits:
 - Howland Urgent Care- 15,084 visits
 - Tod Minor Care- 12,139 visits
 - St. Joseph Hospital ED- 42,087 visits

Total Mercy ED visits (included ER & Urgent Care listed above) - 69,310

On the HCNO survey, TC Adults reported the following reasons for using the Emergency Room (ER) for their healthcare:

<u>Reason</u>	<u>% Respondents Who Looked</u>
Serious Illness/Injury	55%
Their Doctor Told Them to Go	14%
Could Not See Primary Care Physician Due to Time of Day/Too Long Wait	13%
What They've Always Done/What They're Used to	3%
No Primary Care Physician	1%

Trumbull County Emerging Issues

Many emerging issues are coming about within Trumbull County including injection well fracturing; increased and sustained drug use and communicable disease related to such including the transmission of Hepatitis A and C, and HIV; overdose deaths due to Fentanyl lacing; the use of Methamphetamines as a substitute for opioid-based drugs due to the significantly reduced cost; continued economic loss due to withdrawal of major employers including General Motors and Northside Hospital; the potential rescission of Medicaid expansion; potential increase in suicide rates; and the re-emergence of communicable disease such as measles. Positive emerging issues impacting Trumbull County include improved technology in the medical community that provides virtual care resources as well as patient access to personal health information/records.

Injection Wells (Hydraulic Fracturing)

Utilizing a health needs assessment for households near hydraulic fracturing injection wells, nearly 900 residents of Trumbull County were solicited via a survey/questionnaire for their input regarding their health needs near the injection well sites. In total only 27 responded. Although statistically underpowered, of the 27 respondents, 12 commented upon reduced air quality via odors arising from the facilities, with 2 medically diagnosed and reported cases of Asthma. Three respondents commented on the noise pollution produced by passing trucks and other heavy machinery associated with the production needs of the facility. Cancer rates reported by the 27 respondents included 2 cases of Lung Cancer, 2 cases of Breast Cancer, 1 case of Cervical Cancer, and 1 case of Prostate Cancer. Again, although the number of responses collected are statistically underpowered, this activity should be monitored by the Public Health Partnership to identify any change in health status.

Furthermore, zip code areas surrounding active injection wells were examined for any potential increase in the prevalence of cancers most associated with risk of exposure to underground wastewater fracking activities. Additionally, data was collected on low birth weights and premature births as they are also believed to be linked to an increased risk of exposure to fracking activity. Data was collected through the ODH Data Warehouse starting with a period of five years prior to the activity in a given area up through most current data. Although most of the data shows no change in rates, more data should be collected in these areas, as it is made available to further evaluate potential health risks. See Appendix E for this data.

Increased/Sustained Drug Use

Increased and sustained drug use with an emphasis upon opioid use has reached endemic levels within Trumbull County. The age-adjusted mortality rate for Trumbull County as of 2017 was 71.9 per 100,000 population overall.⁽⁷⁾ Males are disproportionately affected when compared to females with an age adjusted rate of 97.2 deaths per 100,000 for males, and 39.8 deaths per 100,000 for females.⁽⁷⁾ Comparatively on a larger scale, the age adjusted mortality rate for females in Ohio during 2017 was 25 deaths per 100,000, and 9.4 deaths per 100,000 for the United States as a whole.⁽⁷⁾ For males in 2017, the Ohio age adjusted mortality rate was 53.6 deaths per 100,000, and 20.4 deaths per 100,000 for the United States as a whole.⁽⁷⁾ Opioid deaths by race are also disproportionate in Trumbull County with Whites at 71.3 deaths per 100,000, with virtually every other race/ethnicity barely registering discernable data.⁽⁷⁾ Particular age demographics are also disproportionate when compared to other age groups. The age demographic of 35-44 years of age is the highest at 164.8 deaths per 100,000, followed by those ages 25-34 with a rate of 149 deaths per 100,000 and finally, those ages 45-54 with a rate of 99 deaths per 100,000.⁽⁷⁾ Considering every category included, Trumbull County is evidence that the opioid epidemic may be present on a national scale; however, with regard to mortality associated with the opioid epidemic, it is not disseminated uniformly. Some geographic areas may experience a higher health disparity than others.

Seniors with Medicare coverage may soon have an alternative to prescription opioids to aid with chronic pain. Many seniors experience chronic pain simply from living a long productive life. Recently a bill has been introduced to Congress that if passed would provide Medicare reimbursement for all services provided by a doctor of chiropractic to seniors. The Chiropractic Medicare Coverage Modernization Act, H.R. 3654 would allow seniors to receive therapies that may be able to improve their health, quality of life and reduce pain rather than masking pain with an addictive drug. The passage of H.R 3654 could have a major impact on Trumbull County seniors.

Communicable Disease(s)

Communicable disease associated with increased and sustained drug use in Trumbull County is on the rise as well. Hepatitis A is a liver disease that is preventable by way of vaccination.⁽¹⁾ In 2018, Trumbull County reported 15 total cases.⁽¹⁾ By July of 2019, Trumbull County had already recorded 22 cases. Hepatitis C is a liver infection that is treatable with antiviral medications.⁽²⁾ In 2015, Trumbull County reported 310 cases of Hepatitis C.⁽²⁾ In the 2016, that number increased by nearly 70% to 524 total cases in Trumbull County.⁽²⁾ Considering that the Hepatitis C virus that cause the infection is a blood borne pathogen, a potential mode of transmission is the use/sharing of intravenous injection needles used in opioid and other drug use. HIV rates within Trumbull County experienced a steady plateau throughout 2016 and 2017 with 4.0 deaths per 100,000.⁽⁴⁾ However, in 2018 the age adjusted rate rose to 5.0 deaths per 100,000 and 2 new cases were reported with Trumbull County.⁽⁴⁾ HIV much like strains of Hepatitis is a blood borne pathogen and can be transmitted in a similar fashion. The re-emergence of diseases such as measles is expected to continue/increase due to the popular anti-vaccination movement across the country. Although no current measles cases have been confirmed or reported in Trumbull County at the time of this Addendum, one confirmed case was reported in Stark County as of July 2019. Stark County is a county to the Southwest of Trumbull.

Loss of Major Employers

Two large and major employers exited Trumbull County in 2018 and 2019. Northside Hospital (Part of the Steward Medical Group) located in Liberty ceased operations on September 20th, 2018, and General Motors of Lordstown, Ohio closed its production plant in March of 2019. In total the county lost nearly 3,000 jobs. Many employees of these institutions were relocated to other plants or facilities outside of Ohio. Additionally, several support/auxiliary businesses were also forced to close their doors. The true economic and health impact have yet to be fully determined as most of the unemployed are still being compensated via unemployment benefits and extended healthcare coverage provided by union negotiations on behalf of the unemployed. However, based on the information shown on Graph 1A, we know that Trumbull County residents' most common source of health insurance is through their employers. Loss of employment equates to loss of health insurance for most residents affected. This will surely have an impact on the insured rate in Trumbull County.

Rescission of Medicaid Expansion

House bill 3 or H.R. 3 entitled Spending Cuts to Expired and Unnecessary Programs Act was a bill introduced in May of 2018.⁽⁵⁾ It was drafted to further "free up" additional monies for Congress. The bill aimed to strip \$15 billion dollars from appropriated funds designated for the Children's Health Insurance Program (CHIP), and \$800 million from the center for Medicaid and Medicare.⁽⁵⁾ The bill passed the House of Representatives in June of 2018, and was rejected by the Senate during the same month.⁽⁵⁾ If the attempt had been successful, 39% of Trumbull County residents (25% on Medicare, and 14% on Medicaid) may have been adversely affected by the changes made to both programs. Discussions regarding rescission are still taking place, with the potential negative impact looming on the horizon for Trumbull County residents.

Increased Potential for Suicide

Increased stress due to job loss (and insurance loss) across the general public and the impacts of weather and tariffs on the agricultural community this year has caused a growing concern of a potential increase

in suicide rates. According to data compiled by the Trumbull County Mental Health and Recovery Board and the Trumbull County Coroners Office, the suicide rate is highest among adult males; veterans have the highest suicide rate among people with comparative backgrounds; and the most common method used was a gun. In 2018, there were a total of 28 suicides. In just the first quarter of 2019, there have been nine suicides. When you also consider that according to the HCNO survey 5% of respondents considered suicide and another 1% actually attempted suicide, this is negative trend that needs to be evaluated and addressed.

Improved Technology in Healthcare

Two of Ohio's largest healthcare systems are located in Northeast Ohio; the Cleveland Clinic and University Hospitals. Although located outside of Trumbull County, many residents do travel to these hospitals/satellite medical offices for treatment/care. Both hospital systems offer 24/7 virtual care available through any computer or mobile device with internet access. Virtual care allows medical care for a wide variety of conditions without the patient having to leave home or work. This technology will help close the gaps for residents that experience transportation issues, are homebound and the infirm.

Mercy Health and Steward Hospital systems both have patient-access programs. These programs allow patients to create an online account to access their health information. The programs allow patients to monitor health information, view test results, manage appointments, request prescription refills and send and receive messages from their physician(s). These programs empower patients to be proactive in their care.

Increasing Accessibility to Health Care Services in Trumbull County

TCCHD and its partners recently completed the Trumbull County Community Health Assessment (CHA). Much of the data used in this report was collected through the CHA process. TCCHD and its partners are moving forward with the next step, which is to develop a Community Health Improvement Plan (CHIP). At the time that this Addendum was completed, the Trumbull Community Health Improvement Partnership (TCHIP) had identified Access to Care as a cross-cutting factor to be included in the CHIP. A cross-cutting factor is a factor that impacts several or all of the chosen CHIP priorities. Strategies to address Access to Care gaps and barriers identified in this report will be developed and included in the CHIP. As part of the CHIP process, Health Care System and Access to Care data as included in this report as well as any additional information developed through the CHIP will be updated and reviewed on an annual basis. Any change in strategies will be based on an annual review of the data in combination with the improvements or lack of improvements that have been made in the previous year.

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Appendices

	<u>Appendix</u>
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Mental Health & Recovery Board Suicide Data	D
Injection Wells, Cancer and Birth Data	E

Trumbull County Healthcare Resources

Last Name	Group Name	Address	City	State	Zip	Specialty	Geocode Category
Wieland	Advanced Anesthesia Associates	1601 Motor Inn Drive	Girard	OH	44420	Anesthesiology	Specialist
Malvasi	Advanced Anesthesia Associates	3893 East Market St	Warren	OH	44484	Anesthesiology	Specialist
TRUMBULL	Anthong Durig Audiology	1258 Youngstown Warren Rd	Niles	OH	44446	Audiology	Specialist
	Warren Otological Group	3893 East Market Street	Warren	OH	44484	Audiology	Specialist
TRUMBULL	Audiology & Hearing Associates	8019 East Market Street	Warren	OH	44484	Audiology	Specialist
Kenarney	Warren City Health Department	258 East Market Street	Warren	OH	44481	Cardiology	Health Department
Di Iulio	Mercy Health St. Joseph Warren Hospital	627 Eastland Ave Southeast	Warren	OH	44484	Cardiology	Hospital
Kunkel	Trumbull Regional Medical Center	1350 East Market Street	Warren	OH	44483		Hospital
Wallie	Cardiac Management Inc	1753 East Market Street	Warren	OH	44483	Cardiovascular Disease	Specialist
Lanier	Richard L Weitzel Jr MD	405 Niles Cortland Rd Southeast	Warren	OH	44484	Cardiovascular Disease	Specialist
	Clinic Medical Services	652 Youngstown Warren Road	Niles	OH	44446	Cardiovascular Disease	Specialist
Delliquadri	Mercy Health St. Joseph Warren Hospital	667 Eastland Avenue Southeast	Warren	OH	44484	Cardiovascular Disease	Specialist
Molinaro	Jones Chiropractic Clinic	1223 Brookfield Road	Hubbard	OH	44425	Chiropractic Medicine	Specialist
Hashmi	Afford A Care Chiropractic	1223 Brookfield Road	Hubbard	OH	44425	Chiropractic Medicine	Specialist
Enyeart	Byrne Chiropractic	145 Shaffer Drive Northeast	Warren	OH	44484	Chiropractic Medicine	Specialist
Lindsey	Integrative Medical Centers Of Ohio	148 West Main Street	Cortland	OH	44410	Chiropractic Medicine	Specialist
Jones	Massaro Chiropractic	1515 East Market Street	Warren	OH	44483	Chiropractic Medicine	Specialist
Wray	Allied Pain Relief Clinic Aprc	2400 Niles Cortland Rd Southeast	Warren	OH	44484	Chiropractic Medicine	Specialist
Khavari	Trumbull County Chiropractic	260 Niles Cortland Rd Northeast	Warren	OH	44484	Chiropractic Medicine	Specialist
Mangalji	Bell Family Chiropractic	269 West Main Street	Cortland	OH	44410	Chiropractic Medicine	Specialist
Sutton	Accident Pain and Injury Center dba-Pain and Wellness Center	2835 Elm Rd Northeast	Warren	OH	44483	Chiropractic Medicine	Specialist
Baky	Barnot Family Chiropractic	3637 State Highway 5	Cortland	OH	44410	Chiropractic Medicine	Specialist
Awadalla	Martuccio Chiropractic & Health Center	369 Niles Cortland Rd Southeast	Warren	OH	44484	Chiropractic Medicine	Specialist
Durig	Hafely Chiropractic	447 Churchill Road	Girard	OH	44420	Chiropractic Medicine	Specialist
TRUMBULL	Mark Engle DC	4751 Mahoning Ave Northwest	Warren	OH	44483	Chiropractic Medicine	Specialist
Barnovsky	Akron Children's Hospital Pediatrics	5000 E Market Street	Warren	OH	44484	Chiropractic Medicine	Specialist
Porter	Aggarwal Chiropractic and Wellness	5555 Youngstown Warren Road	Niles	OH	44446	Chiropractic Medicine	Specialist
		5609 Mahoning Ave Northwest	Warren	OH	44483	Chiropractic Medicine	Specialist
	Advanced Chiropractic & Rehab	730 North Main Street	Hubbard	OH	44425	Chiropractic Medicine	Specialist
	Core Chiropractic Center	8098 East Market Street	Warren	OH	44484	Chiropractic Medicine	Specialist
Behari	Ohio Pain And Rehabilitation	8323 East Market Street	Warren	OH	44484	Chiropractic Medicine	Specialist
Catterlin	Associated Chiropractic Center	837 Mahoning Ave Northwest	Warren	OH	44483	Chiropractic Medicine	Specialist
Ricotti	Chirohealth	8547 East Market Street	Warren	OH	44484	Chiropractic Medicine	Specialist
Gonzalez	Brodell Medical	2660 East Market Street	Warren	OH	44483	Dermatology	Specialist
Ballester	Warren Dermatology & Mohs Surgery	735 Niles Cortland Road Southeast	Warren	OH	44484	Dermatology	Specialist
Birch	Advanced Anesthesia Associates	3893 East Market Street	Warren	OH	44484	Emergency Medicine	Specialist
Byrne	Youngstown Ohio Physician Services Company	2658 Elm Road	Cortland	OH	44410	Endocrinology	Specialist
Rashid	DENTALWORKS	5320 Youngstown Warren Road	Niles	OH	44446	ENDODONTIST	Dentist
Patel	DENTAL EXPRESS NILES	6285 Youngstown Warren Road	Niles	OH	44446	ENDODONTIST	Dentist
	Dr. Phillip Malvasi D.O. Llc	1017 Youngstown Warren Road	Niles	OH	44446	Family Practice	Primary Care Physician
	David Angelo Delliquadri Do, Inc	116 East Liberty Street	Girard	OH	44420	Family Practice	Primary Care Physician
Montgomery		1185 Trails Edge Drive	Hubbard	OH	44425	Family Practice	Primary Care Physician
Eschman	James J Enyeart MD Inc.	121 East Liberty Street	Girard	OH	44420	Family Practice	Primary Care Physician
	Mercy Health Physicians Youngstown	1296 Tod Place Northwest	Warren	OH	44485	Family Practice	Primary Care Physician
	Hmph Physicians Enterprise	1360 North Canfield Niles Road	Mineral Ridge	OH	44440	Family Practice	Primary Care Physician
Fonagy	Pedro A Ballester MD	1405 East Market Street	Warren	OH	44483	Family Practice	Primary Care Physician
Foster	Jagdish H Patel MD Inc	1455 Parkman Rd Northwest	Warren	OH	44485	Family Practice	Primary Care Physician
Doss	Trumbull Psychological Associates	151 South High Street	Cortland	OH	44410	Family Practice	Primary Care Physician
Massaro	Circulatory Center of Pa	1601 Motor Inn Drive	Girard	OH	44420	Family Practice	Primary Care Physician
Chuba	Falls Convenient Care	17 East Broad Street	Newton Falls	OH	44444	Family Practice	Primary Care Physician
Sitch	Lifeline Partners	1825 Tibbetts Wick Road	Girard	OH	44420	Family Practice	Primary Care Physician
	Mercy Health Howland Medical Center	1930 Niles Cortland Road Northeast	Warren	OH	44484	Family Practice	Primary Care Physician

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Lebec Shields	Arthur G Lapping DO Physicians Diagnostic & Rehabilitation Center	204 Monroe Street Northwest 2048 North River Road Northeast	Warren Warren	OH OH	44483 Family Practice 44483 Family Practice	Primary Care Physician Primary Care Physician
Abruzzi	Falls Convenient Care	2218 East Market Street	Warren	OH	44483 Family Practice	Primary Care Physician
Lileas	Robert F Naples DO	2249 Elm Road	Cortland	OH	44410 Family Practice	Primary Care Physician
Mikula	Patsy Buccino DO	24 South State Street	Girard	OH	44420 Family Practice	Primary Care Physician
Abadco	Mercy Health Physicians Youngstown	2473 North Road Northeast	Warren	OH	44483 Family Practice	Primary Care Physician
Andrews	Edward G Myers DO Inc	2581 North Road Northeast	Warren	OH	44483 Family Practice	Primary Care Physician
Dodig	Steward Medical Group	340 Ridge Road	Newton Falls	OH	44444 Family Practice	Primary Care Physician
Horvath	Youngstown Ohio Phys Ser Co	340 Ridge Road	Newton Falls	OH	44444 Family Practice	Primary Care Physician
Andrews	Vienna Medical Arts Clinic Inc	341 Youngstown Kingsville Road Southeast	Vienna	OH	44473 Family Practice	Primary Care Physician
Rupeka	Sharon George DO Inc	420 Southern Blvd Northwest	Warren	OH	44485 Family Practice	Primary Care Physician
Miller	Michael T Ciletti Md	425 Robbins Ave	Niles	OH	44446 Family Practice	Primary Care Physician
Smesko	Frank G Veres DO and Zachary F Veres DO	4681 Mahoning Ave Northwest	Warren	OH	44483 Family Practice	Primary Care Physician
TRUMBULL	Zachary F Veres DO	4687 Mahoning Ave Northwest	Warren	OH	44483 Family Practice	Primary Care Physician
Ochoa	Joseph A Potocki Do Inc	531 Robbins Avenue	Niles	OH	44446 Family Practice	Primary Care Physician
	Sharon Clinic Company	55 Hall Avenue	Hubbard	OH	44425 Family Practice	Primary Care Physician
Khalid	Samuel J. Pipes, D.O., Inc.	5975 Mahoning Ave Northwest	Warren	OH	44483 Family Practice	Primary Care Physician
	Comprehensive Physician Associates	654 Youngstown Warren Road	Niles	OH	44446 Family Practice	Primary Care Physician
Fredericka	Shani Vaturi MD LLC	7264 Warren Sharon Road	Brookfield	OH	44403 Family Practice	Primary Care Physician
Enyeart	C P Sammarone Jr Do	730 North Main Street	Hubbard	OH	44425 Family Practice	Primary Care Physician
TRUMBULL	Upmc Community Medicine	8511 Main Street	Kinsman	OH	44428 Family Practice	Primary Care Physician
Torres	DR Jacob A Bair Do	8700 East Market Street	Warren	OH	44484 Family Practice	Primary Care Physician
TRUMBULL	Steward Medical Group	880 West Liberty Street	Hubbard	OH	44425 Family Practice	Primary Care Physician
Charlton	Clinic of Osteopathic Medicine Inc	929 Robbins Avenue	Niles	OH	44446 Family Practice	Primary Care Physician
Sammarone	Trumbull County Health Dept	176 Chestnut Avenue Northeast	Warren	OH	44483 Family Practice-TB Clinic	Health Department
Desalvo	ONE Health Ohio at Falls Family Clinic	175 East Broad Street	Newton Falls	OH	44444 FQHC	FQHC
Alam	ONE Health Ohio at Lloyd McCoy	1977 Niles Road Southeast	Warren	OH	44484 FQHC	FQHC
	Kidz 1st Pediatrics	1821 East Market Street	Warren	OH	44483 FQHC	FQHC
	Premier Care Pediatrics	2642 State Route 5	Cortland	OH	44410 FQHC	FQHC
Padubidri	ONE Health Ohio at Warren West	716 Tod Avenue Southwest	Warren	OH	44485 FQHC	FQHC
Porter	Carlos A Ricotti MD	1373 East Market Street	Warren	OH	44483 Gastroenterology	Specialist
Patel	The Gastroenterology Clinic & Endoscopy Center	1622 East Market Street	Warren	OH	44483 Gastroenterology	Specialist
	Avamar Center for EndoscopyInc	9225 East Market Street	Warren	OH	44484 Gastroenterology	Specialist
TRUMBULL	Farid Naffah MD Inc	9225 East Market Street	Warren	OH	44484 Gastroenterology	Specialist
	CHRISTOPHE CARSON	1019 North Park Avenue	Warren	OH	44483 GENERAL DENTIST	Dentist
Brown	T FLERE DDS & W KUNKEL DDS	1041 East Liberty Street	Girard	OH	44420 GENERAL DENTIST	Dentist
Abdul Aal	PATRICK R HULY DMD INC	1706 North Road Southeast	Warren	OH	44484 GENERAL DENTIST	Dentist
Agana	BERDYSZ DOMINIK	1820 East Market Street	Warren	OH	44483 GENERAL DENTIST	Dentist
	ANTHONY P SCHIAVONE JR DDS	1975 Niles Cortland Road Northeast Street 2	Warren	OH	44484 GENERAL DENTIST	Dentist
Lapping	JOSEPH FANAGY DDS INC	2068 Mahoning Avenue Northwest	Warren	OH	44483 GENERAL DENTIST	Dentist
Masternick	M PARISH DDS	211 North Main Street	Hubbard	OH	44425 GENERAL DENTIST	Dentist
	GEORGE C PLOUMBIS DDS	2239 East Market Street	Warren	OH	44483 GENERAL DENTIST	Dentist
TRUMBULL	RICHARD RAGOZINE DDS	28 East Main Street	Girard	OH	44420 GENERAL DENTIST	Dentist
TRUMBULL	DENNIS A BENTON DDS LLC	320 Windsor Drive	Cortland	OH	44410 GENERAL DENTIST	Dentist
TRUMBULL	JAMES M TRAPP DDS	351 Youngstown Kingsville Road Southeast	Vienna	OH	44473 GENERAL DENTIST	Dentist
Hart	DOMENIC DINELLO DMD	40 East Park Avenue	Niles	OH	44446 GENERAL DENTIST	Dentist
	ROGER CLOUSE	4400 Warren Sharon Road	Vienna	OH	44473 GENERAL DENTIST	Dentist
Ganson	BRAYDICH DENTAL	45 East Liberty Street	Hubbard	OH	44425 GENERAL DENTIST	Dentist
Fleischer	JOHN J WALSH JR DMD	4664 Mahoning Avenue Northwest	Warren	OH	44483 GENERAL DENTIST	Dentist
Rupeka	CORTLAND DENTAL TECHNOLOGY	500 Wakefield Drive	Cortland	OH	44410 GENERAL DENTIST	Dentist
TRUMBULL	CHRISTOPHER T BART DMD	5078 Mahoning Avenue Northwest	Warren	OH	44483 GENERAL DENTIST	Dentist
Naples	ASPEN DENTAL	5700 Youngstown Warren Road	Niles	OH	44446 GENERAL DENTIST	Dentist
	DAVID A MORVAY DDS INC	628 Niles Cortland Road Southeast	Warren	OH	44484 GENERAL DENTIST	Dentist

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Mehta	PEDRO RODRIGUEZ DDS	680 Youngstown Warren Road	Niles	OH	44446 GENERAL DENTIST	Dentist
Buccino	MARK PERLMAN DDS	7124 Brookwood Drive	Brookfield	OH	44403 GENERAL DENTIST	Dentist
Clendenin	WARREN W COMMUNITY HEALTH CENT	716 Tod Avenue Southwest	Warren	OH	44485 GENERAL DENTIST	Dentist
Patel	R WALTON DDS	8003 East Market Street	Warren	OH	44484 GENERAL DENTIST	Dentist
Billy	NILES FAMILY DENTISTRY	827 Robbins Avenue	Niles	OH	44446 GENERAL DENTIST	Dentist
Ashdown	T WILSON DDS	8401 Howland Springs Road Southeast	Warren	OH	44484 GENERAL DENTIST	Dentist
Khaterpaul	JEFFREY C LAFURIA DMD	8501 East Market Street	Warren	OH	44484 GENERAL DENTIST	Dentist
Ebert	K LAPOLLA DDS	8588 East Market Street	Warren	OH	44484 GENERAL DENTIST	Dentist
Myers	J ROTILIE DDS	947 Hallock Young Road Southwest	Warren	OH	44481 GENERAL DENTIST	Dentist
Eschman	THOMAS KALASKY DDS LLC	950 Youngstown Warren Road	Niles	OH	44446 GENERAL DENTIST	Dentist
Apgar	PRECISION ORTHODONTICS	4696 Mahoning Avenue Northwest	Warren	OH	44483 GENERAL DENTIST; ORTHODONTIST	Dentist
Ensminger	Richard Hart MD	213 Perkinswood Boulevard Northeast	Warren	OH	44483 General Practice	Primary Care Physician
	Mahoning Valley Hemat Onc	1745 Niles Cortland Road Northeast	Warren	OH	44484 Hematology	Specialist
Brodell	Family Medical Clinic	1150 Niles Cortland Road	Niles	OH	44446 Internal Medicine	Primary Care Physician
Agana	Z S Mangalji MD	1244 East Market Street	Warren	OH	44483 Internal Medicine	Primary Care Physician
Seetharaman	Sutton Internal and Physical Medicine Clinic Inc	1250 Youngstown Warren Road	Niles	OH	44446 Internal Medicine	Primary Care Physician
Bolser	St George Medical Practice	1254 Youngstown Warren Road	Niles	OH	44446 Internal Medicine	Primary Care Physician
Eucker	Steward Medical Group	151 South High Street	Cortland	OH	44410 Internal Medicine	Primary Care Physician
Eswaran	Justin P Mikula MD Inc	1615 North River Road Northeast	Warren	OH	44483 Internal Medicine	Primary Care Physician
Wagamon	Ohio North East Health Systems, Inc Kidz 1st Pediatrics	1821 East Market Street	Warren	OH	44483 Internal Medicine	Primary Care Physician
Lohman	Alam Ramamurthy N MD	1910 East Market Street	Warren	OH	44483 Internal Medicine	Primary Care Physician
Sarkos	S & J Medical, Inc dba Parkman Medical Group	2760 Parkman Road Northwest	Warren	OH	44485 Internal Medicine	Primary Care Physician
Bell	Warren Physicians Group	310 Windsor Drive	Cortland	OH	44410 Internal Medicine	Primary Care Physician
	Optimum Anesthesia	3893 East Market Street	Warren	OH	44484 Internal Medicine	Primary Care Physician
Jaffer	Dr BADI Altawil MD LLC	4439 Mahoning Avenue Northwest	Warren	OH	44483 Internal Medicine	Primary Care Physician
TRUMBULL	Warren Medical Group Inc	461 Niles Cortland Road Southeast	Warren	OH	44484 Internal Medicine	Primary Care Physician
Schneider	Cyril Medical Associates LLC	5901 Mahoning Ave Northwest	Warren	OH	44483 Internal Medicine	Primary Care Physician
	Trumbull Internal Medicine	628 Niles Cortland Road Southeast	Warren	OH	44484 Internal Medicine	Primary Care Physician
Vescera	Robert E Bisel DO & Associates	652 Youngstown Warren Road	Niles	OH	44446 Internal Medicine	Primary Care Physician
Conti	Douglas A Dunlap Do Inc	654 Youngstown Warren Road	Niles	OH	44446 Internal Medicine	Primary Care Physician
Gerdes	Sharon Clinic Company	7264 Warren Sharon Road	Brookfield	OH	44403 Internal Medicine	Primary Care Physician
Martuccio	A G Kumar MD	8052 East Market Street	Warren	OH	44484 Internal Medicine	Primary Care Physician
Conti	Youngstown Ohio Phys Ser Co	8231 Main Street	Kinsman	OH	44428 Internal Medicine	Primary Care Physician
Petkovic	Robert E Bisel DO & Associates	8600 East Market Street	Warren	OH	44484 Internal Medicine	Primary Care Physician
Gibson	Yogesh O Sheth Md	940 Robbins Avenue	Niles	OH	44446 Internal Medicine	Primary Care Physician
Bains	Thomas J Zarlingo Md	7264 Warren Sharon Road	Brookfield	OH	44403 Maternal and Fetal Medicine	Specialist
Belany	Mahoning Valley High Risk Obstetrics	8828 East Market Street	Warren	OH	44484 Maternal and Fetal Medicine	Specialist
TRUMBULL		550 Trumbull Avenue	Cortland	OH	44410 Medical Group	Specialist
Kondolios	Cairns & Mondary OBGYN	1651 East Market Street	Warren	OH	44483 Midwifery	Specialist
	Planned Parenthood Gtr Oho	375 North Park Avenue	Warren	OH	44481 Midwifery	Planned Parenthood
Arnold	Kidney Group	311 Niles Cortland Road Northeast	Warren	OH	44484 Nephrology	Specialist
DeMario		1400 Tod Avenue Northwest	Warren	OH	44485 Neurology	Specialist
Fitzpatrick		8098 East Market Street	Warren	OH	44484 Neurology	Specialist
Neuman	Hillside Rehabilitation Hospital	8747 Squires Lane Northeast	Warren	OH	44484 Neurology	Specialist
TRUMBULL	Holly J Maggiano MD Inc	983 Niles Cortland Road Southeast	Warren	OH	44484 Neurology	Specialist
Barnot	Clinic Medical Services	652 Youngstown Warren Road	Niles	OH	44446 Neuroradiology	Specialist
McCloy	Clinic Medical Services/Cleveland Clinic Star Imaging	652 Youngstown Warren Road	Niles	OH	44446 Nuclear Medicine	Specialist
Martuccio	Ohio Podiatry and Wound Care	109 Walnut Street	Cortland	OH	44410 Nurse	Specialist
	Fernado G Chaves Md	1421 East Market Street	Warren	OH	44483 Nurse	Specialist
	Youngstown Ohio Phys Ser Co	1615 North Rivder Road	Warren	OH	44483 Nurse	Specialist
Tabin	Libby Group	3893 East Market Street	Warren	OH	44484 Nurse	Specialist
Abadco	Warren Otologic Group	3893 East Market Street	Warren	OH	44484 Nurse	Specialist
Dayal	Lippy Group for ENT	3893 East Market Street	Warren	OH	44484 Nurse	Specialist

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Griffith	Triad Health Services	3915 East Market Street	Warren	OH	44484 Nurse	Specialist
Kovoor	Northeast Surgical Wound Care	4121 Tod Avenue Northwest	Warren	OH	44485 Nurse	Specialist
Kim	Mercy Health Cortland Family Health Center	421 South High Street	Cortland	OH	44410 Nurse	Specialist
Miller	Lynn M Johnson MD	550 Trumbull Avenue	Cortland	OH	44410 Nurse	Specialist
Ruiter	NP Health Services	5954 Shaffer Road Northwest	Warren	OH	44481 Nurse	Specialist
Worona	Ohio Northeast Health System	716 Tod Avenue Northwest	Warren	OH	44485 Nurse	Specialist
Litwin	Doctors Pain Clinic	8740 East Market Street	Warren	OH	44484 Nurse	Specialist
Berenholz	Advanced Anesthesia Associates	3893 East Market Street	Warren	OH	44484 Nurse Anesthetist	Specialist
Farmer	Khavari Parisa MD	1227 East Market Street	Warren	OH	44483 Obstetrics & Gynecology	Specialist
Zembower	Comprehensive Care For Women of Mahoning	1252 Youngstown Warren Road	Niles	OH	44446 Obstetrics & Gynecology	Specialist
McElroy	Ob-Gyn Associates of Warren	1842 East Market Street	Warren	OH	44483 Obstetrics & Gynecology	Specialist
Coney	Cortland Obgyn Associates Inc	200 Garfield Drive Northeast	Warren	OH	44483 Obstetrics & Gynecology	Specialist
Sheik	Parkman Road Medical Associates Inc	2390 Parkman Road Northwest	Warren	OH	44485 Obstetrics & Gynecology	Specialist
	Jonathan T Eucker Md	2652 Elm Road	Cortland	OH	44410 Obstetrics & Gynecology	Specialist
TRUMBULL	Youngstown Orthopaedic Associates	1695 Niles Cortland Road Northeast	Warren	OH	44484 Occupational Therapy	Specialist
Weitzel	Retina Associates of Cleveland	170 North Road Northeast	Warren	OH	44483 Ophthalmology	Specialist
Aey	Emerald Eye Care	2636 State Highway 5	Cortland	OH	44410 Ophthalmology	Specialist
Coney	Northeast Ohio Eye Surgeons	2660 East Market Street	Warren	OH	44483 Ophthalmology	Specialist
Johnson	Vitreous Retinal Consultants	2932 Youngstown Road Southeast	Warren	OH	44484 Ophthalmology	Specialist
Sudheendra	Warren Eye Clinic Inc	302 Niles Cortland Road Northeast	Warren	OH	44484 Ophthalmology	Specialist
Thompson	Vitreous Retinal Consultants	306 Niles Cortland Road Northeast	Warren	OH	44484 Ophthalmology	Specialist
George	Retina Associates of Cleveland	3919 East Market Street	Warren	OH	44484 Ophthalmology	Specialist
Adams	Warren Ophthalmology Associates Corp	3921 East Market Street	Warren	OH	44484 Ophthalmology	Specialist
Ciletti	Eye Care Associates	4060 North River Road Northeast	Warren	OH	44484 Ophthalmology	Specialist
	Center for Advanced Eye Care	4060 North River Road Northeast	Warren	OH	44484 Ophthalmology	Specialist
TRUMBULL	Ophthalmology & Oculoplastic Surgery	4060 North River Road Northeast	Warren	OH	44484 Ophthalmology	Specialist
Altawil	Eyes 20/20	115 West Broad Street	Newton Falls	OH	44444 Optometry	Specialist
Ashdown	Dale P Lindsey OD	122 Fowler Street	Cortland	OH	44410 Optometry	Specialist
Hafely	Thomas M Abruzzi OD	1606 East Market Street	Warren	OH	44483 Optometry	Specialist
TRUMBULL	Howland Eye Center	199 Niles Cortland Road Southeast	Warren	OH	44484 Optometry	Specialist
Patel	Krause Optical	2200 Niles Cortland Road Southeast	Warren	OH	44484 Optometry	Specialist
Barnhart	Robert J Gerdes OD	30 North Main Street	Hubbard	OH	44425 Optometry	Specialist
TRUMBULL	Mobile Medical	369 North High Street	Cortland	OH	44410 Optometry	Specialist
Veres	John W Barnhart OD	4620 Mahoning Avenue Northwest	Warren	OH	44483 Optometry	Specialist
Veres	Dr Peter E Sporza Jr OD	514 North State Street	Girard	OH	44420 Optometry	Specialist
TRUMBULL	DR Gregory M Yuricek and Associates	5555 Youngstown Warren Road	Niles	OH	44446 Optometry	Specialist
Anania	Advanced Family Eye Care	8252 High Street Northeast	Warren	OH	44484 Optometry	Specialist
Engle	Krause Optical	8252 High Street Northeast	Warren	OH	44484 Optometry	Specialist
	Advanced Family Eye Care	8252 High Street Northeast	Warren	OH	44484 Optometry	Specialist
TRUMBULL	DR Gregory M Yuricek and Associates	8528 East Market Street	Warren	OH	44484 Optometry	Specialist
Cecil	Michael G Thimon Od	906 Great E Plaza	Niles	OH	44446 Optometry	Specialist
	ROY E SCOTT DDS	1800 Elm Road Northeast	Warren	OH	44483 ORTHODONTIST	Specialist
	DRS NAJEM & LEHKY ORTHODONTICS	210 Windsor Drive	Cortland	OH	44410 ORTHODONTIST	Specialist
	BAUER ORTHODONTICS	8096 East Market Street	Warren	OH	44484 ORTHODONTIST	Specialist
TRUMBULL	Thomas R Neuman MD	349 Niles Cortland Road Northeast	Warren	OH	44484 Otolaryngology	Specialist
Sforza	Warren Otologic Group Inc	3893 East Market Street	Warren	OH	44484 Otolaryngology	Specialist
Potocki	Warren Otologic Group Inc	3893 East Market Street	Warren	OH	44484 Otolaryngology	Specialist
TRUMBULL	Ear Nose and Throat of Warren	628 Niles Cortland Road Southeast	Warren	OH	44484 Otolaryngology	Specialist
Slemons	St Cyril Pain Clinic	1621 East Market Street	Warren	OH	44483 Pain Management	Specialist
Johnson	Syndolor Medical	1806 East Market Street	Warren	OH	44483 Pain Management	Specialist
Knight	Pediatric Corp of Warren	200 Garfield Drive Northeast	Warren	OH	44483 Pediatrics	Specialist
	Pediatric Corp of Warren	2630 Elm Road	Cortland	OH	44410 Pediatrics	Specialist
Aggarwal	Premier Care Pediatrics	2642 Elm Road	Cortland	OH	44410 Pediatrics	Specialist

Trumbull County Healthcare Resources

Barrett	Giorgio Vescera LLC	2875 Parkman Road Northwest	Warren	OH	44485 Pediatrics	Specialist
	Pediatric Associates of Warren	321 Niles Cortland Road Northeast	Warren	OH	44484 Pediatrics	Specialist
Stear	Akron Children's Hospital Pediatrics-Warren Downtown	661 Mahoning Avenue Northwest	Warren	OH	44483 Pediatrics	Specialist
	Akron Children's Hospital-Physician Group	8720 East Market Street	Warren	OH	44484 Pediatrics	Specialist
TRUMBULL	Premium Pediatrics	918 Youngstown Warren Road	Niles	OH	44446 Pediatrics	Specialist
Ragheb	PDA ORTHO SPECIALTY LLC	1258 Youngstown Warren Road	Niles	OH	44446 PERIODONTIST	Specialist
Fekety	Sams Club Pharmacy	1040 Niles Cortland Road Southeast	Warren	OH	44484 Pharmacy	Pharmacy
Pipes	Franklin Healthcare	1154 East Market Street	Warren	OH	44483 Pharmacy	Pharmacy
	CVS Pharmacy	1331 Youngstown Warren Road	Niles	OH	44446 Pharmacy	Pharmacy
Frangiamore	CVS Pharmacy	134 Youngstown Hubbard Road	Hubbard	OH	44425 Pharmacy	Pharmacy
	Rite Aid Pharmacy	135 West Church Street	Newton Falls	OH	44444 Pharmacy	Pharmacy
Sweeney	Rite Aid Pharmacy	147 West Liberty Street	Hubbard	OH	44425 Pharmacy	Pharmacy
Khaterpaul	Walgreens Pharmacy	15 South Main Street	Hubbard	OH	44425 Pharmacy	Pharmacy
Wilson	Genoa Healthcare	150 East Market Street	Warren	OH	44481 Pharmacy	Pharmacy
Kalogerou	Rite Aid Pharmacy	1560 Parkman Road Northwest	Warren	OH	44485 Pharmacy	Pharmacy
TRUMBULL	Franklin Pharmacy	1732 Youngstown Road Southeast	Warren	OH	44484 Pharmacy	Pharmacy
TRUMBULL	Walmart Pharmacy	2016 Millenium Boulevard	Cortland	OH	44410 Pharmacy	Pharmacy
Rouweyha	Giant Eagle Pharmacy	2061 El Road Northeast	Warren	OH	44483 Pharmacy	Pharmacy
Desai	Rite Aid Pharmacy	2154 Elm Road Northeast	Warren	OH	44483 Pharmacy	Pharmacy
Bisel	Walgreens Pharmacy	2249 Youngstown Warren Road	Niles	OH	44446 Pharmacy	Pharmacy
Smith	Trumbull Mahoning Medical Group	2600 Elm Road	Cortland	OH	44410 Pharmacy	Pharmacy
Brunken	Giant Eagle Pharmacy	2700 Mahoning Avenue	Warren	OH	44483 Pharmacy	Pharmacy
Roberts	Rite Aid Pharmacy	2840 Youngstown Road Southeast	Warren	OH	44484 Pharmacy	Pharmacy
Dunlap	Walgreens Pharmacy	33390 Elm Road Northeast	Warren	OH	44483 Pharmacy	Pharmacy
Jurenovich	Newton Falls Pharmacy	37 Ridge Road	Newton Falls	OH	44444 Pharmacy	Pharmacy
Gurumurthy	IPS Inc	3709 Youngstown Road Southeast	Warren	OH	44484 Pharmacy	Pharmacy
Fredericka	CVS Pharmacy	3933 Parkman Road Northwest	Warren	OH	44481 Pharmacy	Pharmacy
TRUMBULL	Champion Discount Pharmacy	4299 Mahoning Avenue	Warren	OH	44483 Pharmacy	Pharmacy
TRUMBULL	Giant Eagle Pharmacy	48 Vienna Avenue	Niles	OH	44446 Pharmacy	Pharmacy
	Rite Aid Pharmacy	5001 Mahoning Avenue	Warren	OH	44483 Pharmacy	Pharmacy
Miller	Troutman Drug Company	501 Robbins Avenue	Niles	OH	44446 Pharmacy	Pharmacy
TRUMBULL	Walgreens Pharmacy	5027 Youngstown Warren Road	Niles	OH	44446 Pharmacy	Pharmacy
	Genoa Healthcare	552 North Park Avenue	Warren	OH	44481 Pharmacy	Pharmacy
	CVS Pharmacy	5555 Youngstown Warren Road	Niles	OH	44446 Pharmacy	Pharmacy
Yarab	Rite Aid Pharmacy	569 South High Street	Cortland	OH	44410 Pharmacy	Pharmacy
	Walgreens Pharmacy	600 South Mecca Street	Cortland	OH	44410 Pharmacy	Pharmacy
Vaturi	CVS Pharmacy	620 East Market Street	Warren	OH	44481 Pharmacy	Pharmacy
D'Amore	Rite Aid Pharmacy	713 North State Street	Girard	OH	44420 Pharmacy	Pharmacy
Zarlingo	The Hometown Pharmacy	7160 Warren Sharon Road	Brookfield Township	OH	44403 Pharmacy	Pharmacy
Lapolla	Giant Eagle Pharmacy	7229 Warren Sharon Road	Brookfield Township	OH	44403 Pharmacy	Pharmacy
Lyons	Walgreens Pharmacy	804 West Market Street	Warren	OH	44481 Pharmacy	Pharmacy
Sammarone	Giant Eagle Pharmacy	8202 East Market Street	Warren	OH	44484 Pharmacy	Pharmacy
Chang	Brines Hometown Pharmacy	906 North State Street	Girard	OH	44420 Pharmacy	Pharmacy
Giovinazzo		1350 East Market Street	Warren	OH	44483	Hospital
	Ankle & Foot Care Center	720 Youngstown Warren Road	Niles	OH	44446 Physical Medicine & Rehabilitation	Specialist
Kumar	Hyo Kim MD	8098 East Market Street	Warren	OH	44484 Physical Medicine & Rehabilitation	Specialist
TRUMBULL	Ankle & Foot Care Center	130 Towson Drive Northwest	Warren	OH	44483 Physical Therapy	Specialist
Novicky	Eschman Physical Therapy	15 North Main Street	Hubbard	OH	44425 Physical Therapy	Specialist
Gonzalez	Northeast Ohio Orthopedics	1552 North Road Southeast	Warren	OH	44484 Physical Therapy	Specialist
Kim	Ankle & Foot Care Center	1930 Niles Cortland Road	Warren	OH	44482 Physical Therapy	Specialist
	Eschman Physical Therapy	2581 North Road Northeast	Warren	OH	44483 Physical Therapy	Specialist
Sharma	Primary Health Network	8231 Main Street	Kinsman	OH	44428 Physician Assistant	Specialist
Peterson	St Vincent Medical Group	8323 East Market Street	Warren	OH	44484 Physician Assistant	Specialist

Trumbull County Healthcare Resources

Fleischer	Wound Care Consultants	109 Walnut Street	Cortland	OH	44410 Podiatry	Specialist
Kover	Thomas W Kunkel Dpm	1099 East Liberty Street	Girard	OH	44420 Podiatry	Specialist
TRUMBULL	Associates in Foot & Ankle Care	1170 Niles Cortland Road	Niles	OH	44446 Podiatry	Specialist
Efthimiou	Dr Joseph J Fonagy Jr	1507 East Market Street	Warren	OH	44483 Podiatry	Specialist
Plesca	Associates Family Foot Care	1543 East Market Street	Warren	OH	44483 Podiatry	Specialist
Ashdown	Associates Family Foot Care	1616 East Liberty Street	Girard	OH	44420 Podiatry	Specialist
Matthews	Ankle & Foot Care Center	1700 East Market Street	Warren	OH	44483 Podiatry	Specialist
TRUMBULL	T M Pokabla DPM	248 Niles Cortland Road Northeast	Warren	OH	44484 Podiatry	Specialist
TRUMBULL	Advanced Foot & Ankle Center	251 South High Street	Cortland	OH	44410 Podiatry	Specialist
Tomaselli	Eastern Podiatry	3090 5 Points Hartford Road	Fowler	OH	44418 Podiatry	Specialist
Yuricek	Austintown Podiatry Associates	3802 Elm Road Northeast	Warren	OH	44483 Podiatry	Specialist
Dickson	Advanced Foot & Ankle Center	4441 Mahoning Avenue Northwest	Warren	OH	44483 Podiatry	Specialist
TRUMBULL	Ankle & Foot Care Center	4696 Mahoning Avenue Northwest	Warren	OH	44483 Podiatry	Specialist
Lapolla	Podiatric Physicians And Surgeons	603 North State Street	Girard	OH	44420 Podiatry	Specialist
Bisel	Cara Kalogerou Dpm	628 Niles Cortland Road Southeast	Warren	OH	44484 Podiatry	Specialist
Damico	Rudy M Rouweyha DPM	634 West Liberty Street	Hubbard	OH	44425 Podiatry	Specialist
Patchen	Northeast Ohio Foot & Wound Center	7264 Warren Sharon Road	Brookfield	OH	44403 Podiatry	Specialist
Bair	Advanced Foot & Ankle Center	8345 East Market Street	Warren	OH	44484 Podiatry	Specialist
Young	Northeast Ohio Foot & Wound Center	8588 East Market Street	Warren	OH	44484 Podiatry	Specialist
Sindledecker	Ankle & Foot Care Center	9375 East Market Street	Warren	OH	44484 Podiatry	Specialist
Myer	John S Belany Do	311 Niles Cortland Road Northeast	Warren	OH	44484 Pulmonary Medicine	Specialist
Khoury	Steward Medical Group Radiology	219 North River Road Northwest	Warren	OH	44483 Radiology - Diagnostic	Specialist
Vitvitsky	Trumbull Radiologists	2588 Elm Road	Cortland	OH	44410 Radiology - Diagnostic	Specialist
DeMario	Trumbull Radiologists	9371 East Market Street	Warren	OH	44484 Radiology - Diagnostic	Specialist
El Azeem	Center for Arthritis Fabio Ochoa MD	1716 North Road Southeast	Warren	OH	44484 Rheumatology	Specialist
Zarrinmakan		1451 East Market Street	Warren	OH	44483 Surgery - General	Specialist
Thimons	D'amico Patchen Surgery	8601 East Market Street	Warren	OH	44484 Surgery - General	Specialist
	D'amico Patchen Surgery	8601 East Market Street	Warren	OH	44484 Surgery - General	Specialist
Ferrara	Khoury Ronald N MD	8790 East Market Street	Warren	OH	44484 Surgery - General	Specialist
Awaida	Janet L Shiley Md	983 Niles Cortland Road Southeast	Warren	OH	44484 Surgery - General	Specialist
Naffah	Hands	2580 Elm Road Northeast	Cortland	OH	44410 Surgery - Hand	Specialist
Eddy	James David Brodell MD Inc	2614 East Market Street	Warren	OH	44483 Surgery - Orthopedic	Specialist
Apgar	Michael J Jurenovich Do	654 Youngstown Warren Road	Niles	OH	44446 Surgery - Orthopedic	Specialist
Groner	Arvind Padubidri MD	1924 East Market Street	Warren	OH	44483 Surgery - Plastic	Specialist
Sheth	Youngstown Ohio Phys Ser Co	2662 Elm Road	Cortland	OH	44410 Surgery - Plastic	Specialist
TRUMBULL	Ohio Endovascular	8790 East Market Street	Warren	OH	44484 Surgery - Thoracic	Specialist
TRUMBULL	Zarrinmakan Mehrdad MD	8952 East Market Street	Warren	OH	44484 Surgery - Thoracic	Specialist
Maggiano	Forum Health Vascular Center	4100 Youngstown Road Southeast	Warren	OH	44484 Surgery - Vascular	Specialist
Shiley	Mercy Health-Urgent Care (St Josphe's Urgent Care)	1950 Niles Cortland Road Northeast	Warren	Oh	44484 Urgent Care	Urgent Care
	Triad Health Services LLC Advanced Urology	3915 East Market Street	Warren	OH	44484 Urology	Specialist
	Veterans Outpatient Clinic	1460 Tod Avenue Northwest	Warren	OH	44485 VA Services	Specialist

Health Survey of Households Near Hydraulic Fracturing Waste Injection Well Sites

ID# _____

This survey may be completed by the head of the household for each member living in this residence.

Please DO NOT list any names or addresses on this survey.

Demographics

Household Members	Gender	Current Age	Education (highest grade completed)	Current Job Type (Examples: Office, Lab, Factory, Labor, Driver, etc.)
1				
2				
3				
4				
5				
6				
7				

Which racial or ethnic group do you most identify with?

- a) American Indian or Alaskan Native
- b) Asian
- c) Black or African American
- d) Native Hawaiian or Pacific Islander
- e) Hispanic/Latino
- f) Caucasian/European descent/White
- g) Other: _____

Residence

How long have you and your family lived at your current residence? _____ years

Smoking

Does anyone in this household smoke regularly inside the house?

1. Yes 2. No

Biometrics (for each member of the household)

Household Members	Height (inches)	Weight (pounds)
1		
2		
3		
4		
5		
6		
7		

Personal Health Symptoms

Have you or any members of this household experienced any of the following health conditions, and were they diagnosed by a health professional?

Please indicate if household members have had any of the following symptoms by writing a check mark in the appropriate boxes (Example:). Then in the last column, please write in each of the **current ages** of the household members that have experienced any of the symptoms you indicated.

Condition	Symptoms Occurred Before 2015	Symptoms Appeared in 2015, or after 2015	Symptoms were diagnosed by a Health Professional	Current Age of Household Member(s) with symptoms
RESPIRATORY ALLERGY:				
1) Asthma/COPD				
2) Allergies/Sinus problems				
3) Metallic taste in the mouth				
4) Chronic bronchitis				
5) Chest Wheezing or whistling				
6) Shortness of breath				
7) Chest tightness lasting for ≥ 30 min				
8) Cough/sore throat not caused by a cold lasting for ≥ 14 days				
9) Frequent itchy or irritated eyes				
10) Frequent nose bleeds				
11) Stuffy nose/rhinitis				
12) Hearing loss or dysfunction				
13) Tinnitus/ringing in the ears				
DERMAL:				
14) Rashes or skin problems				
15) Dermatitis				
16) Skin irritation (over areas of the body that stayed for 3 days or				

greater than does not include measles, chicken pox, poison ivy/oak, bites, or allergic reaction)				
17) Burning skin				
18) Itching				
19) Hair loss				
CARDIAC:				
20) High blood pressure				
21) Chest pain				
22) Heart palpitations				
23) Ankle swelling				
MUSCULOSKELETAL:				
24) Muscle weakness/or pain				
25) Joint pain, aching, or stiffness				
NEUROLOGIC:				
26) Neurologic Problems				
27) Severe headache or migraine				
28) Dizziness/balance problems				
29) Depression				
30) Difficulty concentrating/remembering				
31) Regular difficulty sleeping and/or insomnia				
32) Anxiety/nervousness				
33) Seizures				
34) Substance abuse (drugs)				
35) Substance abuse (tobacco)				
36) Excessive alcohol problems				
GI/LIVER				
37) Stomach problems/ulcers				
38) Any kind of liver condition				
39) Nausea/vomitting				
40) Abdominal pain				
41) Diarrhea				
42) Bleeding				
KIDNEY:				
43) Kidney disease or problems				
44) Weak or failing kidney(s) (excluding kidney stones, bladder infections, or incontinence)				
REPRODUCTIVE:				
45) Infertility				
46) Birth defects				
47) Unusual vaginal bleeding				
48) Miscarriage/ stillbirth				
ENDOCRINE:				
49) Weight loss or gain				
50) Thyroid problems				

BLOOD:				
51) Leukemia/ lymphoma				
52) Anemia				
53) Swollen glands				
54) Unusual bleeding				
OTHER:				
55) Fatigue or lack of energy for ≥ 3 days				
56) Other health problems, please list them all: _____				

Environmental Quality

For each of the following questions please indicate your level of satisfaction with your community/neighborhood by using the following ranking numbers.

- 1- Very dissatisfied
- 2- Dissatisfied
- 3- Neutral
- 4- Satisfied
- 5- Very satisfied

a. Safe areas for walking/jogging/biking?	
b. Air quality/pollution?	
c. Water quality/pollution?	
d. Land or soil quality/pollution?	
e. Neighborhood level of noise?	
f. Environmental odor(s)?	
g. Neighborhood road use and traffic?	

Residential Environment

Are you aware of any environmental health risks near your residence?

- 1. Yes 2. No

If you answered yes to the last question, please list environmental health risks:

Household Water Quality

What is the **main** source of drinking water for members of your household?

- a) Municipal
- b) Drilled well
- c) Dug well
- d) Unprotected dug well
- e) Spring water
- f) Bottled Water
- g) Tank/cistern
- h) Water buffalo

What is the **main** source of water used by your household for other purposes, such as laundry, hand-washing, and showering?

- a) Municipal
- b) Drilled well
- c) Dug well
- d) Unprotected dug well
- e) Spring water
- f) Bottled Water
- g) Tank/cistern
- h) Water buffalo

If your household uses well water, when was the last time you had your well tested for water quality?

Date: _____

Have you or members of your household noticed an unnatural change in the taste, odor, or color of your well water?

1. Yes 2. No 3. We do not use well water

If you answered yes to the last question, can you provide the date of when you noticed any changes? (day, month, year)

Date: _____

Can you describe the changes you or members of your household have noticed in the taste, odor, or color of your well water?

Household Air Quality

Have you or members of your household noticed particulate matter (dust) in the air within your home or around your property?

1. Yes 2. No

If you answered yes to the last question, can you provide the date of when you noticed this? (day, month, year)

Date: _____

Have you or members of your household noticed pungent, strange odor(s) in the air within your home or around your property?

1. Yes 2. No

If you answered yes to the last question, can you provide the date of when you noticed this? (day, month, year)

Date: _____

Comments

If there are any other concerns you have or have noticed any other changes in the environment around your household please describe them below:

Student Health and Performance Survey

Please have parents or guardians complete this survey on behalf of their children attending Brookfield Local Schools. Survey responses will remain anonymous. Survey results will be used to research the possible impacts the installation of a hydraulic fracturing well site may have on students attending Brookfield Local Schools.

Demographics

Children in Household	Gender	Current Age	Current Grade Level
1			
2			
3			
4			
5			
6			

Personal Health Symptoms

Have any of your children experienced any of the following health conditions, and were they diagnosed by a health professional?

Please indicate which child has had any of the following symptoms by writing a check mark in the appropriate boxes (Example:). Then in the last column, please write in each of the current ages of the child that has experienced any of the symptoms you indicated.

Condition	Symptoms appeared within the 2017-2018 School Year	Symptoms appeared within the 2018-2019 School Year	Symptoms were diagnosed by a Health Professional	Current Age of Child(s) with symptoms
RESPIRATORY ALLERGY:				
1) Asthma/COPD				
2) Allergies/Sinus problems				
3) Metallic taste in the mouth				
4) Chronic bronchitis				
5) Chest Wheezing or whistling				
6) Shortness of breath				

7) Chest tightness lasting for \geq 30 min				
8) Cough/sore throat not caused by a cold lasting for \geq 14 days				
9) Frequent itchy or irritated eyes				
10) Frequent nose bleeds				
11) Stuffy nose/rhinitis				
12) Hearing loss or dysfunction				
13) Tinnitus/ringing in the ears				
DERMAL:				
14) Rashes or skin problems				
15) Dermatitis				
16) Skin irritation (over areas of the body that stayed for 3 days or greater than does not include measles, chicken pox, poison ivy/oak, bites, or allergic reaction)				
17) Burning skin				
18) Itching				
19) Hair loss				
CARDIAC:				
20) High blood pressure				
21) Chest pain				
22) Heart palpitations				
23) Ankle swelling				
MUSCULOSKELETAL:				
24) Muscle weakness/or pain				
25) Joint pain, aching, or stiffness				
NEUROLOGIC:				
26) Neurologic Problems				
27) Severe headache or migraine				
28) Dizziness/balance problems				
29) Depression				
30) Difficulty concentrating/remembering				
31) Regular difficulty sleeping and/or insomnia				
32) Anxiety/nervousness				
33) Seizures				
34) Substance abuse (drugs)				
35) Substance abuse (tobacco)				
36) Excessive alcohol problems				
GI/LIVER				
37) Stomach problems/ulcers				
38) Any kind of liver condition				
39) Nausea/vomiting				

40) Abdominal pain				
41) Diarrhea				
42) Bleeding				
KIDNEY:				
43) Kidney disease or problems				
44) Weak or failing kidney(s) (excluding kidney stones, bladder infections, or incontinence)				
ENDOCRINE:				
45) Weight loss or gain				
46) Thyroid problems				
BLOOD:				
47) Leukemia/ lymphoma				
48) Anemia				
49) Swollen glands				
50) Unusual bleeding				
OTHER:				
51) Fatigue or lack of energy for ≥ 3 days				
52) Other health problems, please list them below: _____				

Student Performance

Within the 2017/2018 school year, how many days of school has your child missed due to any of the symptoms indicated in the chart on the previous page?

- 1) 0-5 days
- 2) 6-11 days
- 3) 12-17 days
- 4) 18-23 days
- 5) 24 or more days

Within the 2018/2019 school year, how many days of school has your child missed due to any of the symptoms indicated in the chart on the previous page?

- 1) 0-5 days
- 2) 6-11 days
- 3) 12-17 days
- 4) 18-23 days
- 5) 24 or more days

Within the 2017/2018 school year, how would you describe your child's grade averages in this school?

- 1) Much better
- 2) Somewhat better
- 3) Stayed the same
- 4) Somewhat worse
- 5) Much Worse

Within the 2018/2019 school year, how would you describe your child's grade averages in this school?

- 1) Much better
- 2) Somewhat better
- 3) Stayed the same
- 4) Somewhat worse
- 5) Much Worse

Noise Impacts

Within the 2017/2018 school year, has your child reported having a hard time hearing teachers or other students speak clearly while attending this school?

- 1) Yes
- 2) No

If your child answered yes, what reason(s) made it difficult for your child to hear teachers or other students clearly?

Within the 2018/2019 school year, has your child reported having a hard time hearing teachers or other students speak clearly while attending this school?

- 1) Yes
- 2) No

If your child answered yes, what reason(s) made it difficult for your child to hear teachers or other students clearly?

Within the 2017/2018 school year, has your child(s) reported having a hard time hearing while at home?

- 1) Yes
- 2) No

If your child answered yes, what reason(s) made it difficult for your child to hear teachers or other students clearly?

Within the 2018/2019 school year, has your child(s) reported having a hard time hearing while at home?

- 1) Yes
- 2) No

If your child answered yes, what reason(s) made it difficult for your child to hear teachers or other students clearly?

Water Impacts

Does the taste or odor of the school's water sources ever prevent your child from drinking, showering, or washing their hands while in school?

- 1) Always
- 2) Very Often
- 3) Sometimes
- 4) Rarely
- 5) Never

Has your child ever described the school's water sources as having an unnatural color or appearance?

- 1) Always
- 2) Very Often
- 3) Sometimes
- 4) Rarely
- 5) Never

Does the taste or odor of your household water sources ever prevent your child from drinking, showering, or washing their hands?

- 6) Always
- 7) Very Often
- 8) Sometimes
- 9) Rarely
- 10) Never

Has your child ever described your household water sources as having an unnatural color or appearance?

- 6) Always
- 7) Very Often
- 8) Sometimes
- 9) Rarely
- 10) Never

Air Quality Impacts

How often has your child noticed particulate matter (dust) in the air when inside of the school or on school campus?

- 1) Always
- 2) Very Often
- 3) Sometimes
- 4) Rarely
- 5) Never

How often has your child noticed pungent or strange odors when inside of the school or on school campus?

- 1) Always
- 2) Very Often
- 3) Sometimes
- 4) Rarely
- 5) Never

If your child has noticed strange odors at this school, can they describe what the smell was like?

How often has your child noticed particulate matter (dust) in the air when inside of your house or outside?

- 6) Always
- 7) Very Often
- 8) Sometimes
- 9) Rarely
- 10) Never

How often has your child noticed pungent or strange odors when inside of your house or outside?

- 6) Always
- 7) Very Often
- 8) Sometimes
- 9) Rarely
- 10) Never

If your child has noticed strange odors around your house, can they describe what the smell was like?

Comments

If there are any other concerns you have or have noticed any other changes in the environment around the school or your household please describe them below:

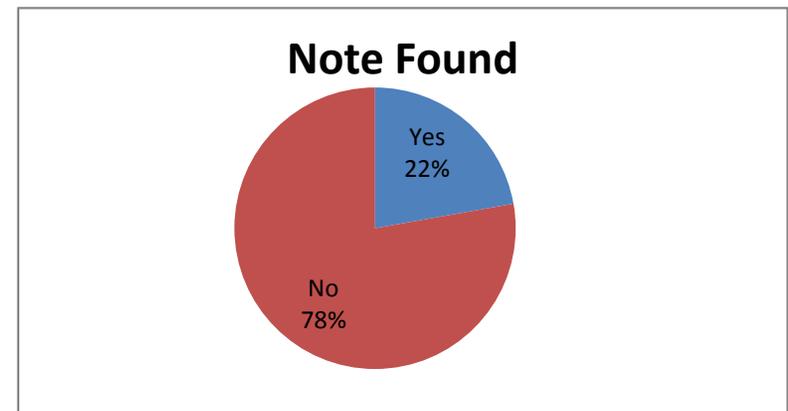
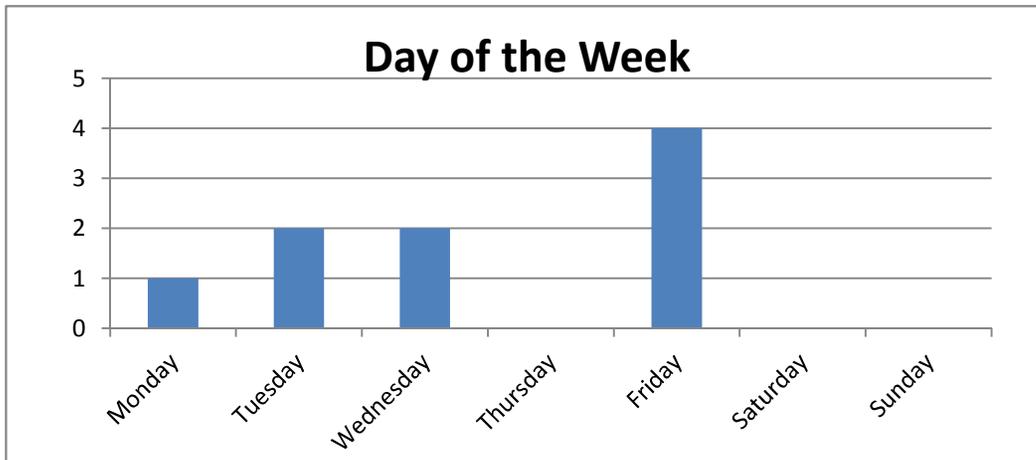
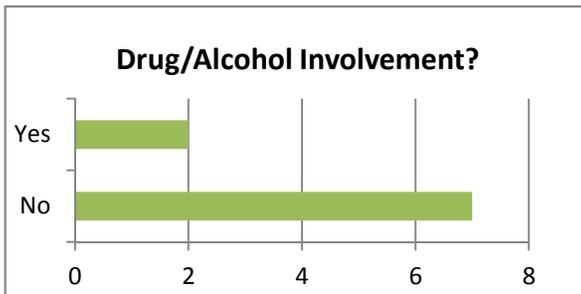
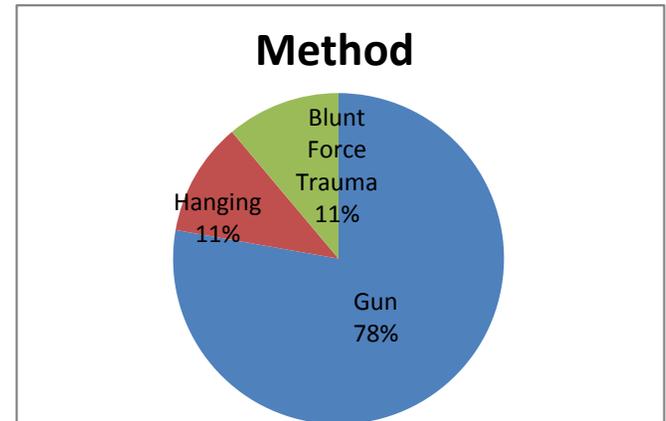
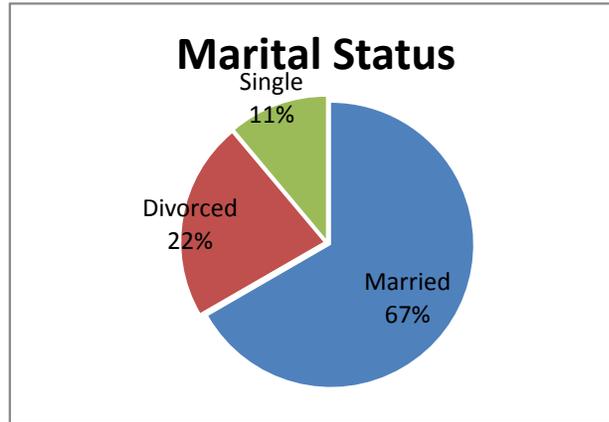
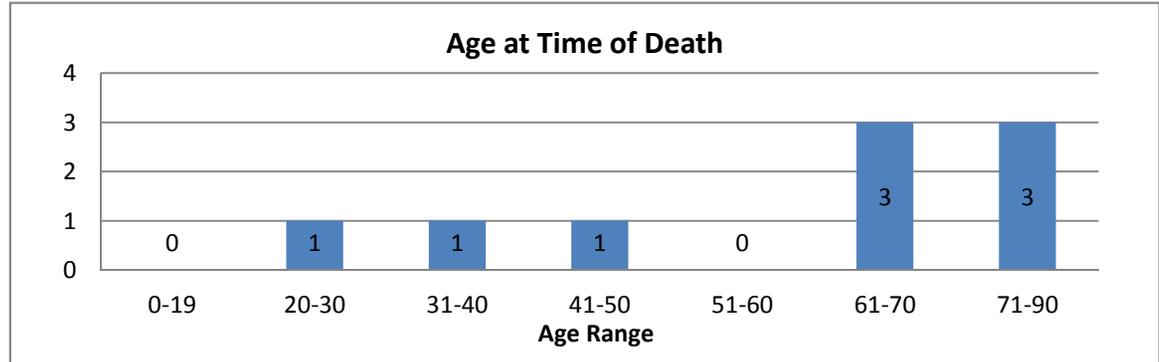
2019 Deaths by Suicide

Data Compiled Cooperatively by Trumbull County Mental Health & Recovery Board and the Trumbull County Coroners Office

Number of Suicides in January 2019: 3
Number of Suicides in February 2019: 1
Number of Suicides in March 2019: 5
Total: 9



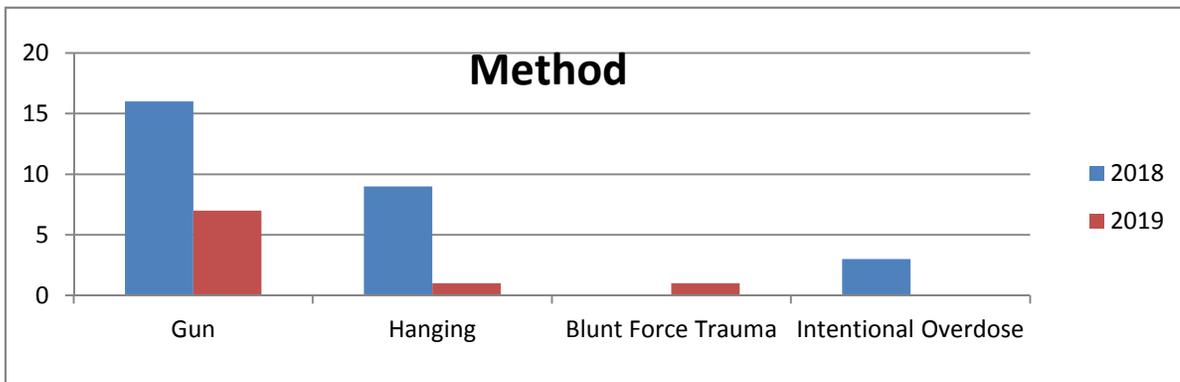
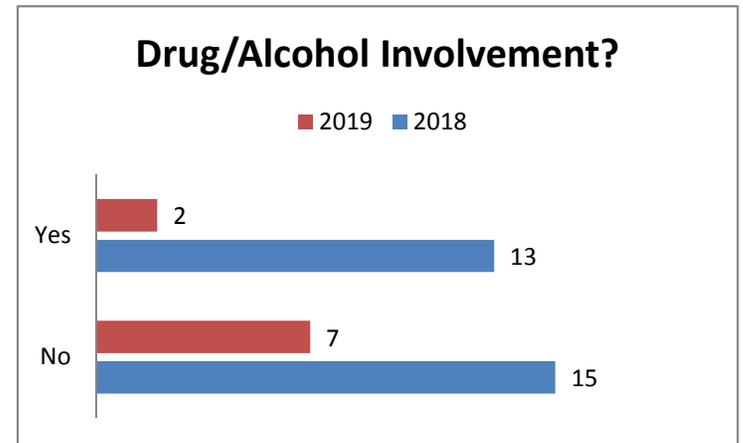
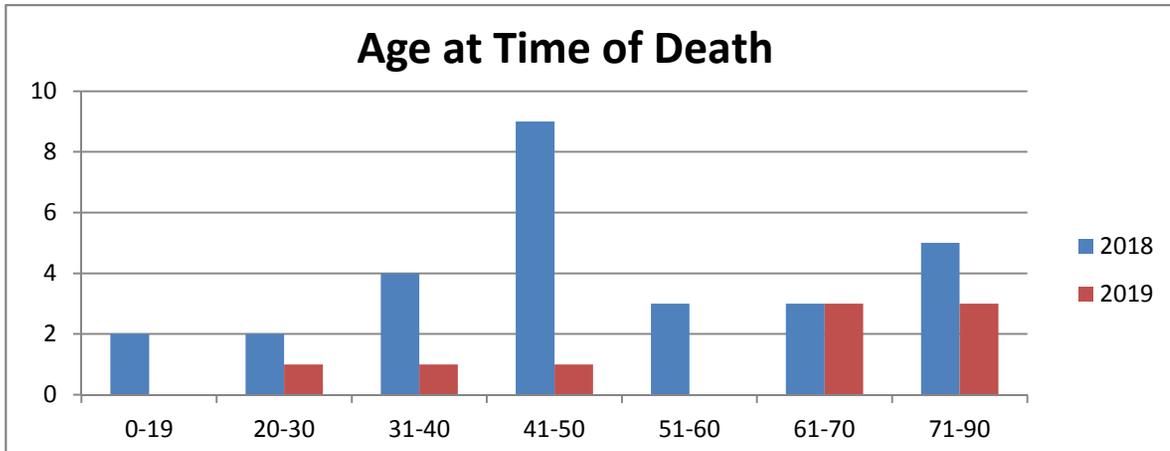
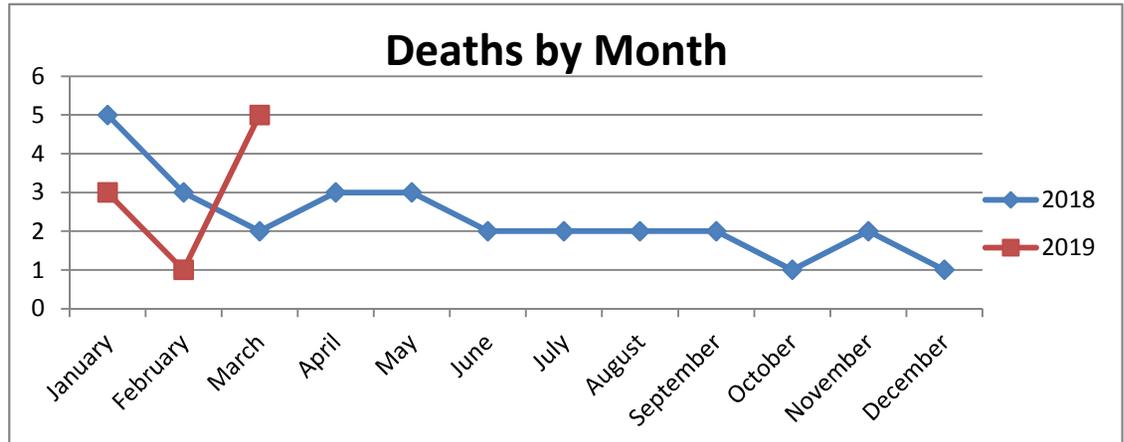
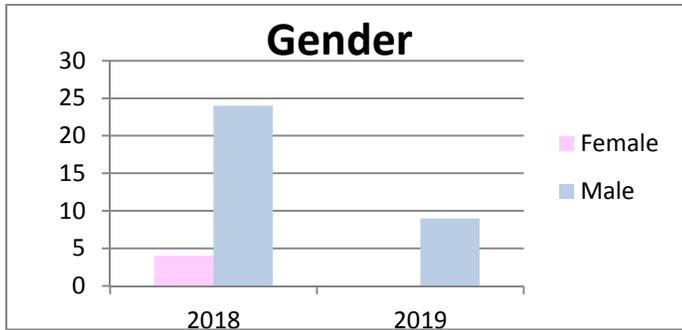
Gender= 100% Male
Race = 100% Caucasian



2018 & 2019 Deaths by Suicide

Multi Year Comparision (2019 Data Complete through March)

Total Deaths by Suicide 2018: 28
Total Deaths by Suicide 2019*: 9
 (*through March 2019)



Veteran?

2018: 14%

2019: 44%

Zip Code	API #	Operator	Init. Inj. (II)	5 yrs. Previous II	5 yrs. After II	Current Date(2017)
	44444	3795 Heckman Water Resources		10/1/2006	10/2/2001	9/30/2011
	44444	3794 Heckman Water Resources		10/23/2013	10/24/2008	10/22/2018
	44473	1438 Kleese Development		4/20/2012	4/22/2007	4/19/2017
	44473	1447 Kleese Development		4/17/2012	4/19/2007	4/16/2017
	44440	4076 AWMS Water Solutions LLC		4/1/2014	4/2/2009	3/31/2019
	44440	4075 AWMS Water Solutions LLC		4/1/2014	4/2/2009	3/31/2019
	44450	4063 American Energy, INC.		5/12/2014	5/13/2009	5/11/2019
	44473	3732 Kleese Development		6/10/2013	6/11/2008	6/9/2018
	44473	3759 Kleese Development		6/4/2013	6/5/2008	6/3/2018
	44481	3196 PAC Development, LLC		6/10/2013	6/11/2008	6/9/2018
	44481	3223 PAC Development, LLC		6/10/2013	6/11/2008	6/9/2018
	44473	4078 Kleese Development		7/2/2014	7/3/2009	7/1/2019
	44473	4079 KTCA Holdings, LLC.		9/7/2016	9/9/2011	9/6/2021

Zip Codes	# of Wells
44440	2
44450	1
44473	6
44481	2
44444	2

Mineral Ridge- 44440 (API #4076, #4075)			
Site/Type	Cases 5 yrs. Previous II (2009-2013)	Initial Injection (2014)	Cases 3 yrs. After II (2015-2017)
Lung and Bronchus	11	4	4
Leukemia	4	1	3
Melanoma of Skin	9	1	9

Newton Falls- 44444 (API #3795)				
Site/Type	Cases 5 yrs. Previous II (2001-2005)	Initial Injection (2006)	Cases 5 yrs. After II (2007-2011)	Current Year (2017)
Lung and Bronchus	59	9	51	4

Leukemia	7	3	8	0
Melanoma of Skin	11	2	10	3

Newton Falls- 44444 (API #3794)			
Site/Type	Cases 5 yrs. Previous II (2008-2012)	Initial Injection (2013)	Cases 3 yrs. After II (2014-2017)
Lung and Bronchus	57	10	32
Leukemia	10	0	2
Melanoma of Skin	12	3	17

N. Bloomfield- 44450 (API #4063)			
Site/Type	Cases 5 yrs. Previous II (2009-2013)	Initial Injection (2014)	Cases 3 yrs. After II (2015-2017)
Lung and Bronchus	10	2	4
Leukemia	1	1	1
Melanoma of Skin	1	2	3

Vienna- 44473 (API #1438, #1447)			
Site/Type	Cases 5 yrs. Previous II (2007-2011)	Initial Injection (2012)	Cases 5 yrs. After II (2013-2017)
Lung and Bronchus	25	1	21
Leukemia	3	1	1
Melanoma of Skin	11	3	10

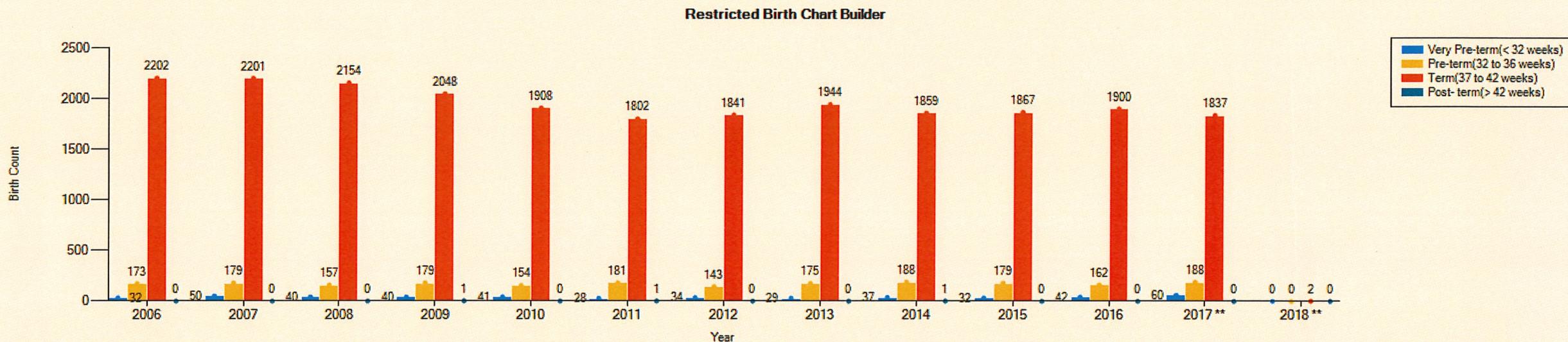
Vienna- 44473 (API #3732, #3759)			
Site/Type	Cases 5 yrs. Previous II (2008-2012)	Initial Injection (2013)	Cases 4 yrs. After II (2014-2017)
Lung and Bronchus	20	5	16
Leukemia	4	0	1
Melanoma of Skin	12	1	9

Vienna- 44473 (API #4078)			
Site/Type	Cases 5 yrs. Previous II (2009-2013)	Initial Injection (2014)	Cases 3 yrs. After II (2015-2017)

Lung and Bronchus	19	6	10
Leukemia	4	1	0
Melanoma of Skin	8	4	5

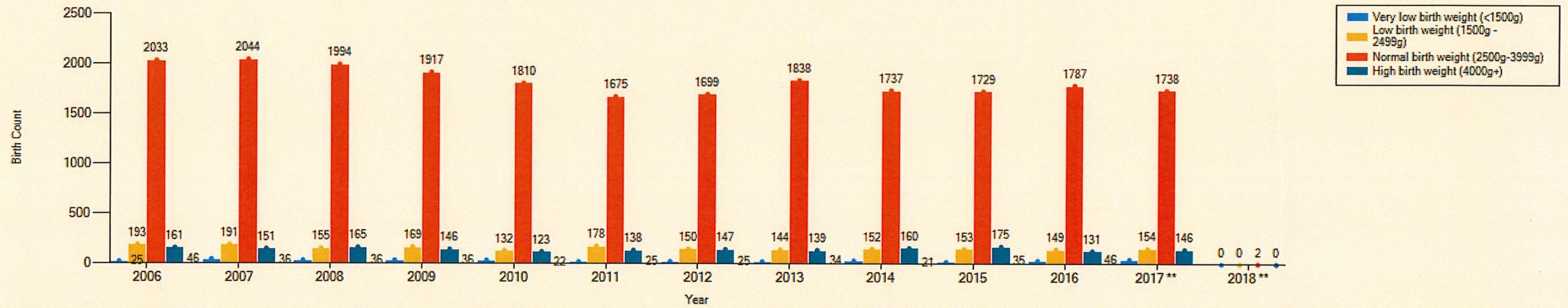
Vienna- 44473 (API #4079)			
Site/Type	Cases 5 yrs. Previous II (2011-2015)	Initial Injection (2016)	Current Year (2017)
Lung and Bronchus	20	4	2
Leukemia	2	0	0
Melanoma of Skin	11	3	0

Warren- 44481 (API #3196, #3223)			
Site/Type	Cases 5 yrs. Previous II (2008-2012)	Initial Injection (2013)	Cases 4 yrs. After II (2014-2017)
Lung and Bronchus	83	24	46
Leukemia	9	1	10
Melanoma of Skin	16	5	20



Excludes 173 Birth Count records with unknown or missing data.
 Re-release of tabulations disclosing identifiable birth data is prohibited.
 Report compiled in secure OPHIW on 1/10/2018.
 Ohio Department of Health: Center for Public Health Statistics and Informatics

Restricted Birth Chart Builder



Excludes 172 Birth Count records with unknown or missing data.

Re-release of tabulations disclosing identifiable birth data is prohibited.

Report compiled in secure OPHIW on 1/10/2018.

Ohio Department of Health: Center for Public Health Statistics and Informatics

Trumbull County Class II Injection Well Locations
Shown of Map 1A

API #	COMPANY	WELL NAME	TOWNSHIP	LAT83	LONG83
34155206 820000	BIG SKY ENERGY INC	OHIO WATER SERVICE {SWIW#11} 2	HARTFORD	-80.6133	41.3098
34155214 380000	KLEESE DEVELOPMENT ASSOCIATES	KLEESE (SWIW #18) 1	VIENNA	-80.6382	41.2393
34155214 470000	KLEESE DEVELOPMENT ASSOCIATES	KLEESE (SWIW #19) 2	VIENNA	-80.6411	41.244
34155218 930000	HECKMANN WATER RESOURCES (CVR) INC	EVA ROOT WOLF {SWIW#6} 1	NEWTON	-80.9985	41.2012
34155218 940000	HECKMANN WATER RESOURCES (CVR) INC	WOLF-ROOT {SWIW #13} 2	NEWTON	-81.0003	41.1983
34155224 030000	HECKMANN WATER RESOURCES (CVR) INC	EASTERN PETROLEUM SERVICES INC. {SWIW#7} 1-D	FOWLER	-80.6182	41.3156
34155231 960000	PAC DEVELOPMENT LLC	NATALE (SWIW #28) 1	WARREN	-80.8913	41.2684
34155232 030000	HECKMANN WATER RESOURCES (CVR) INC	WOLF ROOT EVA JEAN (SWIW#12) 4	NEWTON	-81.0022	41.2023
34155232 230000	PAC DEVELOPMENT LLC	NATALE (SWIW #29) 2	WARREN	-80.8912	41.265
34155237 320000	KLEESE DEVELOPMENT ASSOCIATES	KLEESE (SWIW #24) 4	VIENNA	-80.642	41.2411
34155237 590000	KLEESE DEVELOPMENT ASSOCIATES	KLEESE (SWIW #25) 5	VIENNA	-80.6431	41.2475
34155237 940000	HECKMANN WATER RESOURCES (CVR) INC	PANDER R & P (SWIW #16) 2	NEWTON	-80.9939	41.1988
34155237 950000	HECKMANN WATER RESOURCES (CVR) INC	PANDER R & P (SWIW #15) 1	NEWTON	-80.9916	41.2004
34155240 630000	AMERICAN ENERGY ASSOCIATES INC	JOHNSON DISPOSAL (SWIW # 23) 1	GREENE	-80.7224	41.4617
34155240 760000	AWMS WATER SOLUTIONS LLC	AWMS-1 (SWIW #21) 1	WEATHERSFIELD	-80.775	41.1954
34155240 780000	KLEESE DEVELOPMENT ASSOCIATES	KDA INJECTION WELL (SWIW #32) 1	VIENNA	-80.6413	41.2383
34155240 790000	KTCA HOLDINGS LLC	B & J NO 1 INJECTION (SWIW #33) 1	VIENNA	-80.6648	41.2493
34155240 990000	HIGHLAND FIELD SERVICES LLC	HIGHLAND BROOKFIELD (SWIW #37) 5	BROOKFIELD	-80.5831	41.2443
34155241 030000	HIGHLAND FIELD SERVICES LLC	HIGHLAND BROOKFIELD (SWIW #40) 4	BROOKFIELD	-80.5839	41.2467