

Functional and Access Needs (FAN)/At-Risk Populations in Illinois: *Data Report*

Illinois Emergency Medical Services for
Children

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Acknowledgement

This report was developed by a data consultant working in conjunction with the Illinois Emergency Medical Services for Children (EMSC) program. Funding support was provided through the Illinois Hospital Preparedness Program (HPP).

Illinois EMSC is a collaborative grant funded program established in 1994 by the Illinois Department of Public Health to improve pediatric emergency care within our state. Illinois EMSC works with professional health care organizations, public agencies and key stakeholders to enhance and integrate pediatrics into the emergency care system through:

- Education
- Practice standards
- Injury prevention
- Data initiatives
- Disaster preparedness

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Executive Summary

The Hospital Preparedness Program (HPP) and Public Health and Emergency Preparedness (PHEP) Program provide funding and technical assistance to enhance preparedness of the health care system to respond to and recover from a disaster. States receive HPP grants from the Assistant Secretary for Preparedness and Response (ASPR) to assist hospitals and healthcare organizations, while PHEP funding from the Centers for Disease Control and Prevention (CDC) targets the preparedness efforts of local health departments.

Awardees of HPP/PHEP funding are required to integrate the needs of at-risk individuals at all levels of emergency planning and to ensure incorporation of at-risk populations into existing and future policy, planning, and programmatic initiatives. Recommended activities include the integration of social vulnerability indices into preparedness planning and the inclusion of at-risk populations in healthcare planning and coordination between the public health and healthcare systems.

In order to address Illinois' specific HPP/PHEP requirements, the Illinois Department of Public Health (IDPH) Emergency Medical Services for Children (EMSC) Program and the Illinois Primary Health Care Association (IPHCA) have been charged with developing planning initiatives as well as identifying related needs and resources for at-risk populations.

Within this context, the purpose of this report is to describe at-risk populations in Illinois and how that information can be accessed for disaster planning purposes. At-risk populations include, but are not limited to, children; the elderly; pregnant women; single-parent households; limited English proficiency; and persons with any of the following: disabilities, mental health issues, homelessness, or low socioeconomic status. Descriptive information about these populations is combined whenever possible with hospital capacity and utilization data. Maps are shown that display geographic areas of social vulnerability. In addition, links to online interactive maps and other resources are provided.

Data are grouped by Illinois Department of Public Health (IDPH) Public Health & Medical Services Response (PHMSR) Regions. In addition, because of the heavy concentration of population and resources in the Chicago PHMSR Region, data are further grouped by each Emergency Medical Services (EMS) Region within the Chicago PHMSR Region (EMS Regions 7-11).

A wide variety of data sources are used in this report, including the following:

- Centers for Disease Control and Prevention (CDC) Social Vulnerability Index and CDC Wonder
- U.S. Census Bureau
- Robert Wood Johnson Foundation County Health Rankings
- U.S. Department of Health & Human Services data regarding the number of Medicare beneficiaries and the number of Medicare beneficiaries that rely on electricity-dependent medical equipment, such as ventilators, wheel chairs, and cardiac devices
- Illinois Department of Public Health (IDPH) vital statistics and the IDPH IQuery online system
- Illinois Health and Hospital Association COMPData for hospital inpatient and outpatient data
- Illinois Health Facilities Planning Board Annual Hospital Questionnaire

- Illinois Emergency Medical Services for Children data regarding hospital pediatric designations and perinatal resources
- U.S. Department of Housing and Urban estimates of homelessness
- Illinois Department of Human Services Homeless Prevention Annual Report regarding services provided to individuals and families who are in danger of eviction, foreclosure, homelessness, or who are currently homeless

Key highlights in this report include the following:

- **Analysis of indicators available within the CDC Social Vulnerability Index show:**
 - Relatively high percentages of population below poverty level for the Marion PHMSR Region and EMS Region 11 (city of Chicago)
 - Relatively high percentages of both disabled persons (civilian noninstitutionalized population with a disability) and mobile homes for the Marion PHMSR Region
 - Relatively high proportions of minority populations, persons who speak English "less than well", and housing in structures with 10 or more units in the Chicago PHMSR Region and EMS Region 11
- **Analysis of other resources show the following:**
 - Highest percentage of population classified as rural (53.4%) for the Marion PHMSR Region
 - Relatively high percentages of Medicare beneficiaries and electricity-dependent beneficiaries (per total population) for the Marion PHMSR Region
 - Relatively high rate of homeless persons per population for the Edwardsville PHMSR Region (nearly twice the state rate per population)
- In analysis of the Illinois Health Facilities Planning Board Annual Hospital Questionnaire, the number of "Certificate of Need" beds is available by bed type (medical/surgical beds, pediatric beds, mental illness beds, etc.). These bed numbers are considered relative to the total populations in the PHMSR and EMS Regions, and one particular finding stood out:
 - Relatively high number of children (age 0-15 years) per pediatric bed in the Edwardsville and Marion PHMSR Regions, particularly in Edwardsville at more than twice the statewide average

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Introduction

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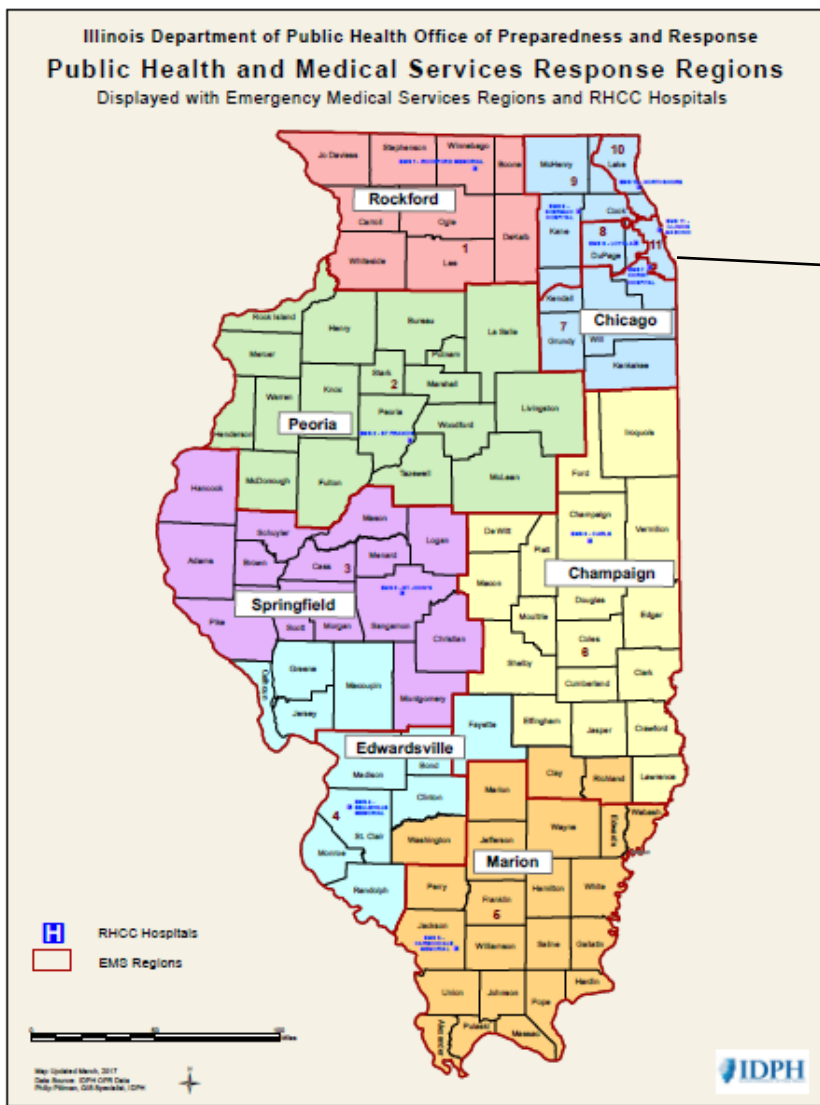
Awardees of HPP/PHEP funding are required to integrate the needs of at-risk individuals at all levels of emergency planning and to ensure incorporation of at-risk populations into existing and future policy, planning, and programmatic initiatives. Recommended activities include the integration of social vulnerability indices into preparedness planning and the inclusion of at-risk populations in healthcare planning and coordination between the public health and healthcare systems.

In order to address Illinois' specific HPP/PHEP requirements, the Illinois Department of Public Health (IDPH) Emergency Medical Services for Children (EMSC) Program and the Illinois Primary Health Care Association (IPHCA) have been charged with developing planning initiatives as well as identifying related needs and resources for at-risk populations.

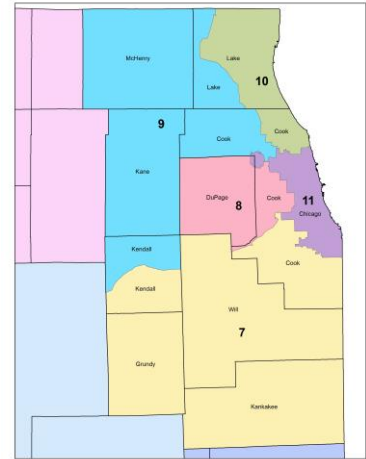
Within this context, the purpose of this report is to describe at-risk populations in Illinois and how that information can be accessed for disaster planning purposes. At-risk populations include, but are not limited to, children; the elderly; pregnant women; single-parent households; limited English proficiency; and persons with any of the following: disabilities, mental health issues, homelessness, or low socioeconomic status. Descriptive information about these populations is combined whenever possible with hospital capacity and utilization data.

Data are grouped by Illinois Department of Public Health (IDPH) Public Health & Medical Services Response (PHMSR) Regions. In addition, because of the heavy concentration of population and resources in the Chicago PHMSR Region, data are further grouped by each Emergency Medical Services (EMS) Region within the Chicago PHMSR Region (EMS Regions 7-11; see **Figure 1**).

Figure 1. Map of PHMSR Regions and EMS Regions 7-11



The Chicago PHMSR Region Includes EMS Regions 7-11



NOTE: In the main body of the report, data are organized by topic areas, with data for all regions presented together in tables and figures.

After the main report, **Appendix 1** presents the same data re-organized by region, so that each PHMSR Region and EMS Regions 7-11 have their own data presented in separate two-page reports.

Objectives

The objectives defined for this report were to:

1. Test the feasibility of obtaining and aggregating data that describe at-risk populations by PHMSR Region and by EMS Regions 7-11 for the Chicago PHMSR Region. At-risk populations include children; the elderly; pregnant women/newborns; single-parent households; limited English proficiency; and persons with any of the following: disabilities, mental health issues, homelessness, or low socioeconomic status.
2. Test the feasibility of including hospital capacity and utilization data together with at-risk population data.

Data Sources and Methods

This section of the report outlines data sources and methods utilized, however it is important to note that the data websites identified in this report allow users to download and aggregate data for a variety of purposes. Queries done after datasets have been updated or using slightly different variables may result in slight differences in results. Because of this, it is important for users to document the methods used so that findings can be compared appropriately to other reporting. Data sources consist of the following:

Population Data

Population data were available by census tract for total population and age 65 years or older from the Centers for Disease Control and Prevention (CDC) Social Vulnerability Index. This data source is described in the next sub-section below.

For the age group of 0-15 year olds, data by census tract were separately obtained from the U.S. Census Bureau's American Factfinder web site (<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>).

PHMSR Region borders align with counties so their populations were obtained using county totals.

To derive EMS Region 7-11 population data, census tracts were used:

- EMS Regions 7-11 include over 2,000 census tracts. The large majority of these tracts fall entirely within one EMS region when examining EMS Region 7-11 borders. EMS region borders are described in the Administrative Code for the Illinois Department of Public Health (IDPH), available online at <ftp://www.ilga.gov/icar/admincode/077/077005150B02000R.html>.
- Twenty-one of the census tracts did not fall entirely within a single EMS region. For these tracts, their populations were divided proportionately based on how much of the tract area fell into each region, using mapping data available online at https://www.census.gov/geo/maps-data/maps/2010ref/st17_tract.html. (Note: this methodology was reviewed with Philip J. Pittman, M.S., M.P.H., GIS Coordinator for IDPH, Illinois Department of Innovation and Technology, per correspondence on September 12, 2017.)

Centers for Disease Control and Prevention (CDC)

CDC provides data regarding socioeconomic status, age groups, disability, single parent households, and other variables for download at its Social Vulnerability Index (SVI) website (<https://svi.cdc.gov/SVIDataToolsDownload.html>). CDC also makes available

data regarding mortality (including suicides) at its CDC Wonder web site (<https://wonder.cdc.gov/>).

County Health Rankings

The Robert Wood Johnson Foundation (RWJF) and the University of Wisconsin Population Health Institute prepare health indicator data for counties throughout the U.S. in the "County Health Rankings & Roadmaps" program (<http://www.countyhealthrankings.org/>).

Medicare Beneficiaries and Electricity-Dependent Medical Equipment

The U.S. Department of Health & Human Services provides an online mapping tool that shows the number of Medicare beneficiaries by U.S. county, and then within county by ZIP code. The "emPOWER" web site (<https://empowermap.hhs.gov/>) also provides the number of Medicare beneficiaries that rely on electricity-dependent medical equipment, such as ventilators, wheel chairs, and cardiac devices.

Note that, because data are available at the ZIP code level, Chicago data can be separated from Suburban Cook County. EMS Region 7-11 data can then be estimated using three steps:

- 1) Use Chicago data for Region 11
- 2) Use county data for counties that fall entirely within EMS regions: Grundy, Kankakee, and Will for Region 7; Kane and McHenry for Region 9
- 3) Use the populations found by the previously noted census tract analysis to calculate the proportion by EMS regional population for each of the remaining counties (DuPage, Kendall, Lake, and Suburban Cook). Then apply this proportion to the Medicare beneficiary data. For example, the proportions of population for Lake County by region were 31.6% for Region 9 and 68.4% for Region 10. The Medicare beneficiary numbers for Lake County were divided using these values into numbers for Region 9 and Region 10.

Homelessness

The U.S. Department of Housing and Urban Development prepares a report with "point in time" (PIT) estimates of homelessness at the state level, available online at <https://www.hudexchange.info/resource/5178/2016-ahar-part-1-pit-estimates-of-homelessness/>. Separately, the Illinois Department of Human Services (IDHS) makes available its "Homeless Prevention Annual Report FY2015" at <http://www.dhs.state.il.us/page.aspx?item=81378>. The IDHS Homeless Prevention Program provides assistance and services to individuals and families who are in danger of eviction, foreclosure, homelessness, or who are currently homeless. They also track the number of persons served and report this by the counties and areas supported.

IDHS reports data in different county groups than the county groups used in PHMSR Regions. As with the Medicare beneficiary data noted above, proportions of overall population were applied to the county/area groupings available from the IDHS report to derive both PHMSR Region and EMS Region 7-11 values.

Illinois Department of Public Health (IDPH)

IDPH makes numerous data sets available online. For this report, data regarding mental health was obtained using the IQuery system at <https://iquery.illinois.gov/iquery/> while natality data was available at <http://www.dph.illinois.gov/data-statistics/vital-statistics/birth-statistics>. Also, IDPH lists the trauma centers online at <http://www.dph.illinois.gov/topics-services/emergency-preparedness-response/ems/trauma-program/centersByReg>.

Hospital Capacity and Utilization

Hospital utilization data were obtained from Illinois Health and Hospital Association (IHHA) COMPData inpatient and outpatient records for 2015. The numbers of hospital beds by type (e.g., pediatric beds) were obtained from the Illinois Health Facilities Planning Board (IHFPB) Annual Hospital Questionnaire (2015), available online at <https://www.illinois.gov/sites/hfsrb/InventoriesData/FacilityProfiles/Pages/default.aspx>

Hospital Pediatric Designations and Perinatal Resources

Illinois EMSC maintains a statewide Regional Pediatric Resource Directory that tracks IDPH designations for hospital EMSC pediatric care, trauma level, and perinatal level. The directory is available online at www.luriechildrens.org/emsc.

Note that pediatric designations consist of the following:

- PCCC: Pediatric Critical Care Center
- EDAP: Emergency Department Approved for Pediatrics
- SEDP: Standby Emergency Department for Pediatrics

In addition, in 2016 Illinois EMSC conducted a survey to obtain data regarding perinatal resources in Illinois and neighboring (“border”) states. These data included the number of Pediatric Intensive Care Units (PICUs), Neonatal Intensive Care Units (NICUs), and nursery beds by designated levels of Level II-E (“extended”).

Glossary of Key Terms

The following key terms are defined according to the data sources noted above.

Disability

The U.S. Census and the American Community Survey ask respondents 6 questions to identify limitations in basic areas of functioning and independent living (<https://www2.census.gov/programs-surveys/acs/about/qbyqfact/2016/Disability.pdf>).

Respondents answering any of these questions are considered disabled in the CDC Social Vulnerability Index. The questions are as follows:

- Hearing Disability (asked of all ages): Is this person deaf or does he/she have serious difficulty hearing?
- Visual Disability (asked of all ages): Is this person blind or does he/she have serious difficulty seeing even when wearing glasses?
- Cognitive Disability (asked of persons ages 5 or older): Because of a physical, mental, or emotional condition, does this person have serious difficulty concentrating, remembering, or making decisions?

- Ambulatory Disability (asked of persons ages 5 or older): Does this person have serious difficulty walking or climbing stairs?
- Self-Care Disability (asked of persons ages 5 or older): Does this person have difficulty dressing or bathing?
- Independent Living Disability (asked of persons ages 15 or older): Because of a physical, mental, or emotional condition, does this person have difficulty doing errands alone such as visiting a doctor's office or shopping?

Limited English Proficiency

One of the CDC Social Vulnerability Indicator variables is "Persons (age 5+) Who Speak English 'less than well'". This variable reports survey data collected in both the U.S. Census and in the American Community Survey, as described at <https://census.gov/newsroom/blogs/research-matters/2015/10/how-well-do-you-speak-english-assessing-the-validity-of-the-american-community-survey-english-ability-question.html>. According to this description, the related survey question asks respondents who report speaking a language other than English at home to indicate how well they speak English: "very well," "well," "not well" or "not at all." Also the description notes that survey responses were found to be consistent with measures of literacy.

Mental Illness CON Authorized Beds and Inpatient Admissions

The Illinois Health Facilities Planning Board (IHFPB) distributes an Annual Hospital Questionnaire to all facilities in Illinois. It asks facilities to report their number of CON authorized beds for mental illness as well as the number of inpatient admissions to these beds.

Mental Health ED Visits

The IDPH IQuery system includes an indicator for the number of emergency department (ED) visits for mental health. IQuery uses statewide hospital ED records and identifies mental health visits as having ICD-9 diagnosis codes with values in the range 290-319.

Rural Population

The Robert Wood Johnson Foundation (RWJF) county health rankings include an indicator regarding the percentage of rural population by county. RWJF uses Census Bureau definitions for "Urban" and "Rural" (<https://www.census.gov/geo/reference/ua/urban-rural-2010.html>). Urban consists of contiguous census tracts with 2,500 or more people plus linked surrounding areas that are non-residential (e.g., parks, school grounds, industrial sites, etc.). "Rural" consists of all other areas.

Limitations

As noted previously, population data used estimates based on census tracts which did not align completely with EMS Regions 7-11. Also, several data sets were available only by county, so approximations were made using the proportion of population in counties that overlap with more than one EMS region.

The report results are only appropriate for the year(s) noted. All data sets may be updated over time so superseding information may become available.

Out-of-state data were not available for hospital capacity and utilization data. This particularly affects areas in Illinois, where residents are treated by out-of-state hospitals in Indiana, Iowa, Kentucky, Missouri, and Wisconsin.

Data regarding hospital inpatient stays and emergency department (ED) visits for mental illness were obtained from the IDPH IQuery web site. IQuery includes several variables of interest related to this topic on its site, such as drug use overall and opioid use specifically. However, counties cannot be aggregated by PHMSR Region in IQuery reports and are listed individually. At the same time, IQuery suppresses cell values in these lists that are 10 or less. This often makes for reports consisting of county lists with many suppressed cells. This limitation is described further in the Mental Illness section of the report.

Data regarding migrant and seasonal workers is particularly challenging to obtain and validate. This is described as a future opportunity on page 24, since problems with obtaining this information include the ongoing transitory nature of migrant workers and their unwillingness in some circumstances to be identified. An estimate of the number of these workers was not made in this report but a useful future project could consist of investigating and cross-referencing a number of resources to make statewide and local estimates of the number of migrant workers.

Finally, this report was limited in scope to at-risk populations. Other information, such as geographic hazards, may be of interest. For example, maps regarding earthquake risk are available from the U.S. Geological Survey (<https://earthquake.usgs.gov/hazards/hazmaps/>). Also the Illinois Department of Natural Resources provides maps regarding flood plains and levees (<https://www.dnr.illinois.gov/waterresources/pages/gismaps.aspx>), and the Illinois Emergency Management Agency maintains data on levee locations along rivers where levee breaks have occurred as well as the locations of Emergency Operations Centers and recovery equipment assets. It may be useful to pool these and other Illinois geographic hazard data (e.g., nuclear safety) together with the at-risk population data presented in this report.

Results

The previous pages have provided background information on the development of this report and the data sources utilized. The remainder of this report, including the appendices, provide specific data findings and results.

Total Illinois Population

Using CDC's data for 2014, Table 1 shows the total population by PHMSR Region and for EMS Regions 7-11. As noted, EMS Regions 7-11 comprise the Chicago PHMSR Region.

Table 1. Total Population by PHMSR Region and EMS Regions 7-11, 2014

PHMSR Region	2014 Estimated Population	% of Illinois	EMS Regions 7-11	2014 Estimated Population	% of Illinois
Champaign	707,296	5.5%	Region 7	1,721,568	13.4%
Edwardsville	769,070	6.0%	Region 8	1,492,188	11.6%
Marion	466,798	3.6%	Region 9	1,856,317	14.4%
Peoria	1,103,569	8.6%	Region 10	862,168	6.7%
Rockford	681,167	5.3%	Region 11	2,718,161	21.1%
Springfield	490,446	3.8%	Total (Matches to Chicago PHMSR)	8,650,401	67.2%
Chicago	8,650,401	67.2%			
Total	12,868,747	100.0%			

Source: CDC Social Vulnerability Index, <https://svi.cdc.gov/map.aspx>

The following sections present statewide data for Illinois at-risk populations similarly aggregated by PHMSR Region and EMS Regions 7-11.

CDC Social Vulnerability Index

CDC uses data regarding socioeconomic status, age groups, disability, single parent households, and other variables to create an overall Social Vulnerability Index (SVI). Data are organized in four major themes:

- Socioeconomic
- Minority Status and Language
- Housing Composition and Disability
- Housing and Transportation

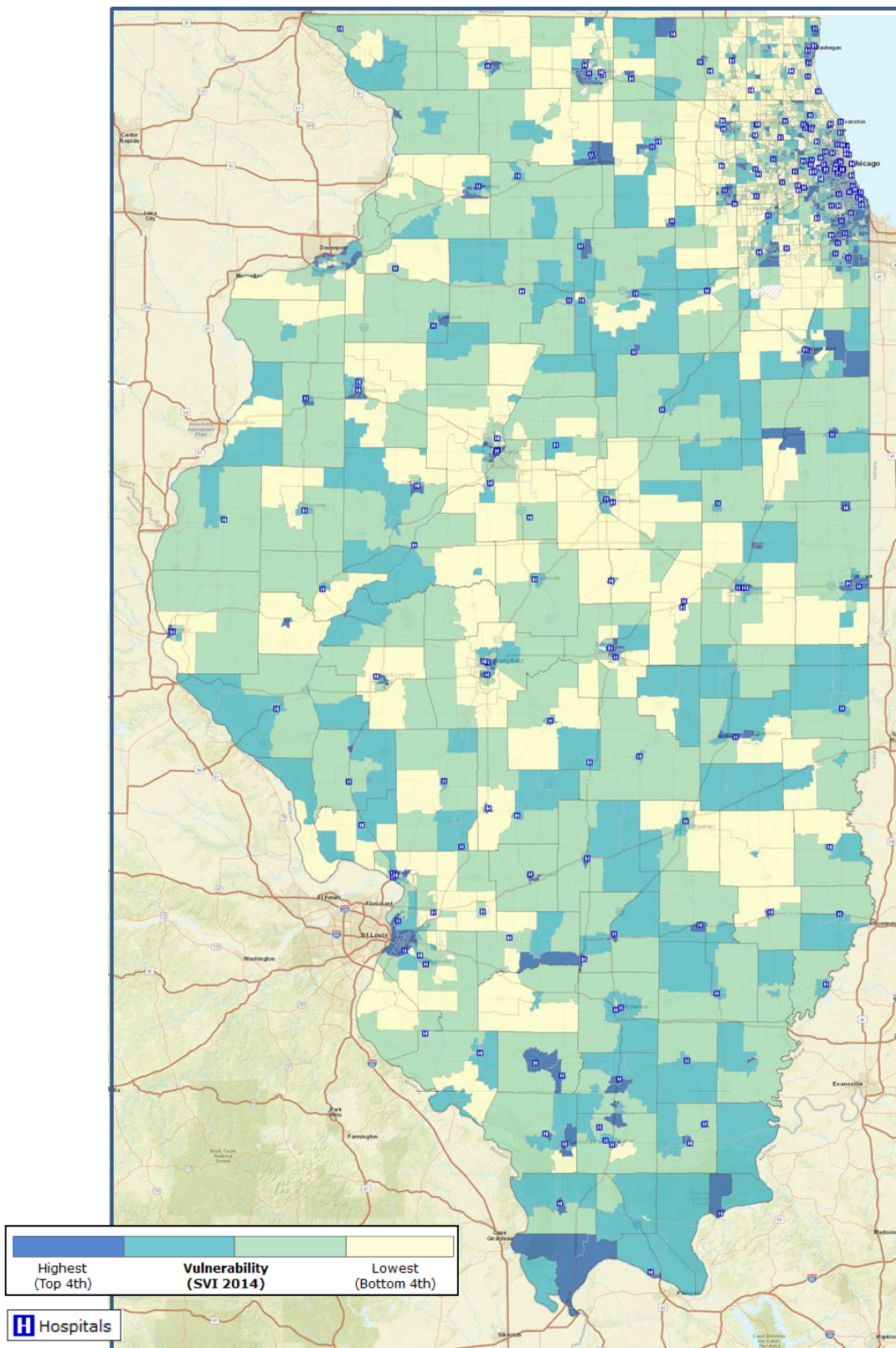
Each theme consists of 2 to 5 indicators, with a total of 15 indicators for all themes. For example, the socioeconomic indicator consists of measures regarding poverty level, unemployment, per capita income, and persons lacking a high school diploma.

All indicators are compiled into a composite SVI ranking at the census tract level. CDC provides maps of the results such as the Illinois map in **Figure 2**. (Note: The CDC web site, <https://svi.cdc.gov/map.aspx>, includes interactive features so that users can drill down to local areas of interest. See **Appendix 2** for a brief introduction to using this web site.)

In addition, CDC makes these data available for download. **Table 2** shows the 15 SVI indicators aggregated by PHMSR Regions and EMS Regions 7-11 for 2014. Of particular note are the following:

- Relatively high percentages below poverty level are found for the Marion PHMSR Region and EMS Region 11 (city of Chicago).
- Marion also has relatively high percentages of disabled persons (civilian noninstitutionalized population with a disability) and mobile homes.
- The Chicago PHMSR Region and EMS Region 11 have high proportions of minority populations, persons who speak English "less than well", and housing in structures with 10 or more units.

Figure 2. Illinois Map Showing CDC's Social Vulnerability Index and Hospital Locations, 2014



Source: CDC Social Vulnerability Index, <https://svi.cdc.gov/map.aspx>

Table 2. CDC Social Vulnerability Index Indicators by PHMSR Region and EMS Regions 7-11, 2014

	STATEWIDE	CHAMPAIGN	EDWARDSVILLE	MARION	PEORIA	ROCKFORD	SPRINGFIELD	CHICAGO	Chicago PHMSR by EMS Regions 7-11				
									Region 7	Region 8	Region 9	Region 10	Region 11
Socioeconomic Status													
Below Poverty Level	14.1%	16.8%	14.0%	18.3%	13.3%	15.0%	13.6%	13.7%	11.7%	9.2%	8.7%	9.1%	22.2%
Civilian Unemployed	8.2%	7.0%	6.8%	7.2%	6.6%	9.2%	6.2%	8.8%	9.6%	7.7%	7.3%	6.8%	10.4%
Per Capita Income	\$30,019	\$24,919	\$26,894	\$22,367	\$27,252	\$25,083	\$26,394	\$32,075	\$28,286	\$35,085	\$33,635	\$41,860	\$28,652
No High School Diploma	10.8%	8.6%	9.0%	11.4%	8.4%	10.3%	8.9%	11.6%	9.3%	10.1%	10.2%	8.4%	15.8%
Housing Composition and Disability													
Persons >= 65 years old	13.2%	15.2%	14.8%	17.5%	15.7%	15.2%	16.5%	12.0%	12.5%	12.5%	11.8%	14.4%	10.7%
Persons <= 17 years old	23.7%	21.5%	23.0%	21.4%	22.5%	23.5%	22.2%	24.4%	25.7%	24.5%	25.8%	24.6%	22.5%
Civilian Noninstitutionalized Population with a Disability	10.5%	12.0%	12.5%	16.7%	11.4%	11.9%	13.4%	9.4%	10.3%	8.5%	7.9%	8.7%	10.7%
Single Parent Household (as % of households)	9.1%	8.7%	9.7%	8.7%	9.1%	10.0%	9.5%	9.0%	9.8%	7.4%	7.2%	7.5%	10.8%
Minority Status and Language													
Minority (all persons except white, non-Hispanic)	37.1%	17.4%	19.8%	10.7%	16.1%	21.6%	12.9%	47.0%	40.7%	40.1%	32.7%	37.1%	67.8%
Persons (age 5+) Who Speak English "less than well"	4.4%	0.9%	0.3%	0.4%	1.0%	2.0%	0.4%	6.1%	3.0%	5.9%	5.9%	5.5%	8.6%
Housing and Transportation (as % of households)													
Housing in Structures with 10 or More Units	14.2%	9.9%	4.1%	4.7%	8.1%	6.9%	5.5%	18.3%	8.5%	15.9%	11.4%	17.7%	28.9%
Mobile Homes	2.6%	5.3%	6.2%	14.9%	3.3%	3.0%	6.1%	0.9%	2.1%	0.5%	1.1%	0.9%	0.2%
At Household Level, More People than Rooms	2.6%	1.2%	1.2%	1.5%	1.4%	1.8%	1.4%	3.3%	2.2%	3.1%	3.1%	2.6%	4.4%
Households With No Vehicle	10.8%	8.6%	6.8%	7.6%	6.9%	7.2%	6.6%	12.7%	6.3%	5.9%	4.3%	7.0%	26.8%
Persons in Institutionalized Group Quarters*	2.3%	5.2%	2.6%	3.9%	3.9%	2.4%	5.4%	1.6%	1.3%	1.2%	0.8%	3.3%	2.0%

* Institutionalized group quarters consist of correctional facilities, nursing homes, and mental hospitals.

Source: CDC Social Vulnerability Index, <https://svi.cdc.gov/SVIDataToolsDownload.html>

Rural Population

The total population for Illinois in 2015 was 12.9 million persons. The RWJF County Health Rankings report categorizes 11.5% of this population as rural. However, as shown in **Table 3**, this percentage varied greatly by PHMSR Region, with over half of Marion's population (53.4%) classified as rural. (Note: These data were only available by county, so values for EMS Regions 7-11 could not be derived. Also RWJF used 2015 data compared to the CDC SVI data in the previous section which used 2014 data.)

Table 3. Percent Rural Population by PHMSR Region, 2015

PHMSR Region	Statewide	Champaign	Edwardsville	Marion	Peoria	Rockford	Springfield	Chicago
% Rural Population	11.5%	35.0%	24.9%	53.4%	28.4%	25.0%	34.4%	1.6%

Source: RWJF County Health Rankings

Note: These rankings use Census Bureau definitions for "Urban" and "Rural". Urban consists of contiguous census tracts with $\geq 2,500$ people plus linked surrounding areas, and "Rural" consists of all other areas (<https://www.census.gov/geo/reference/ua/urban-rural-2010.html>).

Statewide Hospital Capacity and Utilization

Trauma Centers

Per IDPH's web site, there are 67 Illinois trauma centers, including out-of-state facilities. The majority of these centers are in the Chicago PHMSR Region (44), as shown in **Table 4**. Note that, although listed under the Edwardsville PHMSR Region, Missouri trauma centers also serve the Marion and Springfield PHMSR Regions.

Table 4. Illinois Trauma Centers by PHMSR Region and EMS Regions 7-11, 2017

Illinois Trauma Centers	Statewide	PHMSR Region							Chicago PHMSR					
		Champaign	Edwardsville	Marion	Peoria	Rockford	Springfield	Chicago	Region 7	Region 8	Region 9	Region 10	Region 11	
Illinois Hospitals														
Level I	14	1					2	1	10	1	2	1	3	3
Level I and Level I Pediatric	2					1			1					1
Level I and Level II Pediatric	1							1						
Level I Pediatric	2								2					2
Level II	40	1			7	1	1	1	30	5	9	11	5	
Out-of-State Hospitals														
Level I - Missouri	2		2											
Level I Pediatric - Missouri	2		2											
Level II - Iowa	1						1							
Level II - Wisconsin	1								1					
Level II and Level II Pediatric - Indiana	2			2								1		
Total Number of Hospitals	67	2	4	2	8	4	3	44	6	11	12	9	6	

Source: IDPH web site <http://www.dph.illinois.gov/topics-services/emergency-preparedness-response/ems/trauma-program/centersByReg>, accessed 10/4/2017

Hospital and Emergency Department (ED) Capability

Table 5 shows the total number of hospitals, medical-surgical beds, and related capacity using 2015 data from the Illinois Health Facilities Planning Board. It also shows the number of hospitals with ED visits in 2015 and the number of Freestanding Emergency Centers.

**Table 5. Hospital and ED Capability
by PHMSR Region and EMS Regions 7-11, 2015**

	Statewide	PHMSR Region							Chicago PHMSR				
		Champaign	Edwardsville	Marion	Peoria	Rockford	Springfield	Chicago	Region 7	Region 8	Region 9	Region 10	Region 11
Number of Hospitals	211	17	18	22	27	14	15	98	13	19	18	10	38
Medical-Surgical Certificate of Need (CON) Authorized Beds	20,567	1,183	1,280	868	1,941	929	1,001	13,365	2,843	2,298	2,094	1,216	4,914
Number of Medical-Surgical Admissions Per Bed	42.3	43.3	32.0	44.0	38.1	43.1	44.1	43.6	42.3	49.7	45.2	44.9	40.4
Number of Persons (region population) Per Medical-Surgical Bed	626	598	601	538	569	733	490	647	606	649	886	709	553
Hospitals with ED Visits in 2015	184	16	18	22	26	11	13	78	13	14	13	10	28
Freestanding Emergency Centers	9	-	-	-	1	-	-	8	1	2	2	2	1

Sources: Illinois Health Facilities Planning Board, IHHA COMPData, Illinois EMSC

Elderly Persons

Total Population

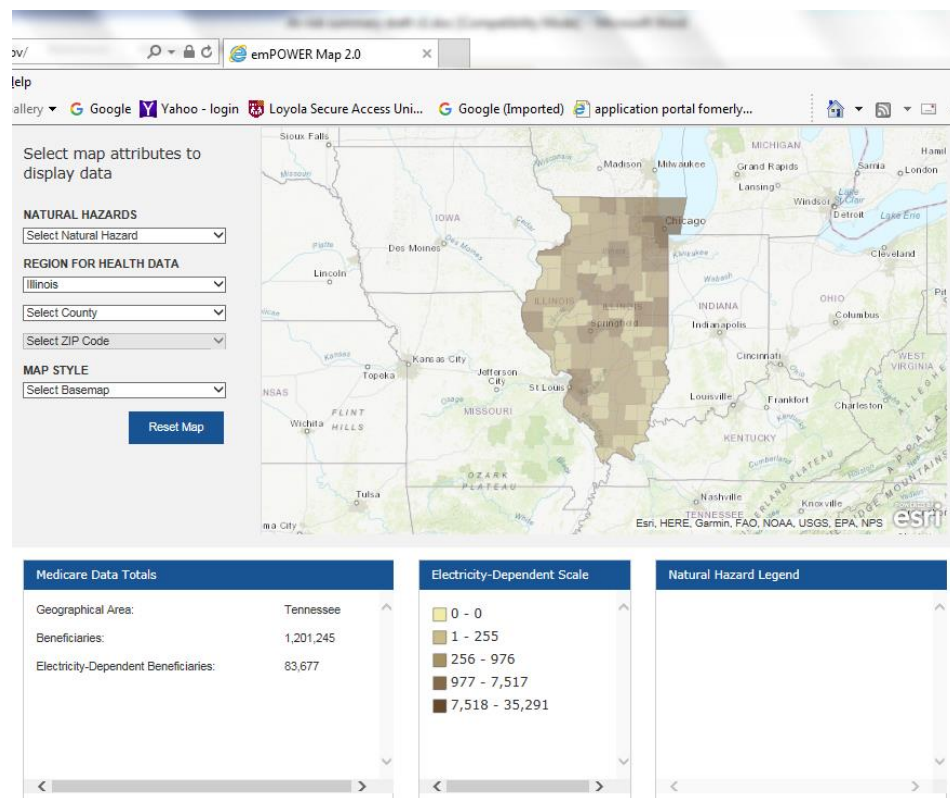
Table 6 shows the total number of persons who are 65 years old or older and this number as a percentage of the total population.

Medicare Beneficiaries and Electricity-Dependent Medical Equipment

As noted previously, the U.S. Department of Health & Human Services provides online data regarding the number of Medicare beneficiaries by U.S. county, and then within county by ZIP code. The "emPOWER" web site (<https://empowermap.hhs.gov/>) also provides data regarding the number of Medicare beneficiaries that rely on electricity-dependent medical equipment, such as ventilators, wheel chairs, and cardiac devices.

Figure 3 shows a screen image of the emPOWER site showing data from 2015. As with the CDC SVI data, the site offers an interactive mapping capability. This includes a density scale for electricity-dependence, options to display natural hazards, and the ability to drill down to state and county levels. (NOTE: Within counties, data are aggregated by ZIP code.)

Figure 3. Screen Image of emPOWER Web Site with 2015 Data



Source: Screen image from emPOWER web site <https://empowermap.hhs.gov/>, accessed 10/3/17

The Medicare beneficiary data by PHMSR Region and EMS Regions 7-11 are included in **Table 6** along with the population data noted above. The Marion PHMSR Region has the highest percentages per total population of Medicare beneficiaries and of electricity-dependent beneficiaries.

Table 6. Total Population, Medicare Beneficiaries, and Electricity-Dependent Medicare Beneficiaries by PHMSR Region and EMS Regions 7-11, 2015

	Statewide	PHMSR Region							Chicago PHMSR				
		Champaign	Edwardsville	Marion	Peoria	Rockford	Springfield	Chicago	Region 7	Region 8	Region 9	Region 10	Region 11
Persons >= 65 Years Old	1,696,283	107,473	113,882	81,742	173,187	103,410	81,068	1,035,521	214,876	186,082	218,989	123,775	291,799
% of Total Population in Region (All Ages)	13.2%	15.2%	14.8%	17.5%	15.7%	15.2%	16.5%	12.0%	12.5%	12.5%	11.8%	14.4%	10.7%
Medicare Beneficiaries	1,947,802	125,212	136,780	96,997	201,293	126,289	97,094	1,164,137	247,697	221,283	260,800	125,777	308,580
% of Total Population in Region (All Ages)	15.1%	17.7%	17.8%	20.8%	18.2%	18.5%	19.8%	13.5%	14.4%	14.8%	14.0%	14.6%	11.4%
Electricity-Dependent Medicare Beneficiaries	88,148	8,054	6,982	7,245	10,266	5,903	6,489	43,209	10,336	7,699	9,763	4,534	10,877
% of Total Population in Region (All Ages)	0.7%	1.1%	0.9%	1.6%	0.9%	0.9%	1.3%	0.5%	0.6%	0.5%	0.5%	0.5%	0.4%
% of Persons >=65 Years Old in Region	5.2%	7.5%	6.1%	8.9%	5.9%	5.7%	8.0%	4.2%	4.8%	4.1%	4.5%	3.7%	3.7%

Sources: CDC SVI for population data; HHS emPOWER for Medicare beneficiaries

Mental Illness

Regarding mental illness, **Table 7** shows several variables from multiple sources:

- ED Visits for Mental Health
- Acute Mental Illness Inpatient Admissions
- Acute Mental Illness Certificate of Need (CON) Beds as an indicator of hospital capacity
- Suicide as Cause of Death

Regarding ED visits for mental health, relatively high rates per population appear for the Marion, Peoria, Rockford, and Springfield PHMSR Regions relative to statewide. Regarding inpatient admissions, relatively high rates per population appear for the Chicago and Springfield PHMSR Regions.

The number of persons (region population) per mental illness CON bed is extremely high for the Rockford PHMSR Region and EMS Region 10, in both cases more than three times the rate for the state overall. It should be noted that these numbers are affected by the location of mental health care facilities. For the Rockford PHMSR Region and EMS Region 10, mental illness CON beds may be available in nearby regions.

Regarding suicide as cause of death, relatively high rates per population appear for the Marion and Springfield PHMSR Regions relative to statewide.

In addition, as noted in the Limitations section of this report, ED and inpatient data regarding mental illness were obtained from the IDPH IQuery web site (<https://iquery.illinois.gov/iquery/>). IQuery includes several variables of interest to this topic on its site, such as drug use overall and opioid use specifically. However, counties cannot be aggregated by PHMSR Region in IQuery reports and are listed individually. At the same time IQuery suppresses cell values in these lists that are 10 or less. This often makes for reports consisting of county lists with many suppressed cells, which cannot be grouped into PHMSR Regions. An example IQuery report for drug-related ED visits is shown in **Appendix 3**. Although this list is problematic for aggregating data by PHMSR Region, it may be useful for local disaster planning purposes.

Finally, the University of Illinois conducts an Illinois Youth Survey every two years (<https://iys.cprd.illinois.edu/results/county>). Several indicators of mental health for 8th, 10th, and 12th graders appear as survey questions, including questions regarding substance abuse. Question responses are reported as percentages by individual counties. As with the IQuery data regarding substance abuse, grouping these values by PHMSR Region is problematic; however, the county data may be of use for local planning purposes.

Table 7. ED Visits for Mental Health (2014), Acute Mental Illness Inpatient Admissions (2015), Acute Mental Illness Certificate of Need (CON) Authorized Beds (2015), and Suicides as Cause of Death (2014) by PHMSR Region and EMS Regions 7-11

	Statewide	PHMSR Region							Chicago PHMSR				
		Champaign	Edwardsville	Marion	Peoria	Rockford	Springfield	Chicago	Region 7	Region 8	Region 9	Region 10	Region 11
ED Visits for Mental Health	87,477	5,634	5,316	4083*	9,813	6,288	5,154	51,189	Data not available by EMS Region				
Rate of ED Visits per 100,000 Population in Region	680	797	691	875	889	923	1,051	592	Data not available by EMS Region				
Acute Mental Illness Inpatient Admissions	116,740	5,859	5,782	2,581	7,690	2,389	5,545	86,894	10,474	14,770	18,670	3,156	39,824
Rate of Inpatient Admissions per 100,000 Region Population in Region	907	828	752	553	697	351	1,131	1,005	608	990	1,006	366	1,465
Acute Mental Illness Certificate of Need (CON) Authorized Beds	4,077	195	160	59	209	66	242	3,146	335	633	715	80	1,383
Number of Persons (region population) Per Mental Illness CON Bed**	3,156	3,627	4,807	7,912	5,280	10,321	2,027	2,750	5,139	2,357	2,596	10,777	1,965
Suicide as Cause of Death	1,396	86	104	91	160	95	83	777	Data not available by EMS Region				
Rate of Suicides per 100,000 Region Population	10.8	12.2	13.5	19.5	14.5	13.9	16.9	9.0	Data not available by EMS Region				

Notes:

* For ED Visits for Mental Health, IDPH data were obtained from the IQuery system. IQuery reports data by county, and these data were aggregated by PHMSR Region. One county in the Marion Region was not available because its value was 10 or less and IQuery suppresses such values.

** The number of persons per mental illness bed is affected by the location of mental health care facilities. For the Rockford PHMSR Region and EMS Region 10, beds may be available in nearby regions.

Sources: Illinois Health Facilities Planning Board (IHFPB); IDPH IQuery; CDC Wonder

Homelessness

Statewide Data

As noted previously, the U.S. Department of Housing and Urban Development reports “point in time” (PIT) estimates of homelessness at the state level. In 2016, the estimated number of homeless in Illinois was 11,590. This value was 1,587 persons lower than in 2015.

Regional Data

Data regarding homeless individuals at the regional level is available from the Illinois Department of Human Services (IDHS). The IDHS Homeless Prevention Program provides assistance and services to individuals and families who are in danger of eviction, foreclosure, homelessness, or who are currently homeless. IDHS tracks the number of persons served and reports this number by the counties and areas supported in its "Homeless Prevention Annual Report FY2015". Table 8 shows the number of persons served by IDHS by PHMSR Region and EMS Regions 7-11. The highest estimated rate of homeless persons per population is for the Edwardsville PHMSR Region (145 per 100,000 population), nearly twice the state value (73 per 100,000 population).

Table 8. Number of Persons Served by the IDHS Homeless Prevention Program, by PHMSR Region and EMS Regions 7-11, 2015

PHMSR Region	2015 Estimated Homeless Persons		EMS Regions 7-11	2015 Estimated Homeless Persons	
	Number	Rate per 100,000 Population		Number	Rate per 100,000 Population
Champaign	724	102	Region 7	741	43
Edwardsville	1,113	145	Region 8	782	52
Marion	194	41	Region 9	813	44
Peoria	1,195	108	Region 10	574	67
Rockford	638	94	Region 11	2,243	83
Springfield	441	90	Total (Matches to Chicago PHMSR)	5,153	60
Chicago	5,153	60			
Total	9,458	73			

Source: IDHS "Homeless Prevention Annual Report FY2015".

Note: Proportions of overall population were applied to the county/area groupings available from the IDHS report to derive both PHMSR Region and EMS Region 7-11 values.

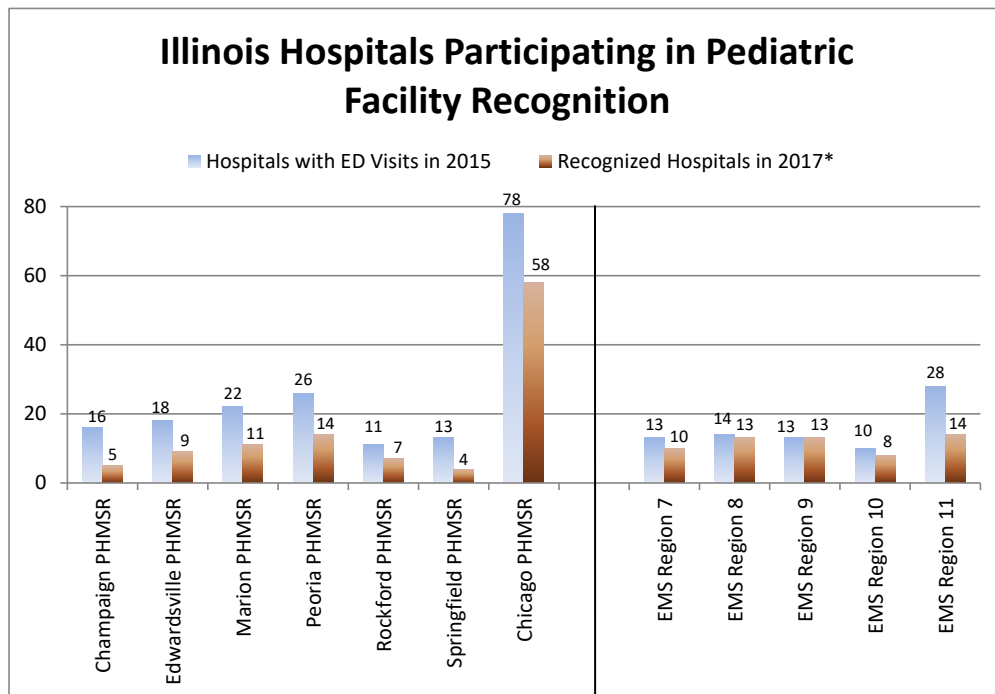
Children (Age 0-15 Years)

Table 9 on page 20 shows data for children age 0-15 years old in the following categories:

- Population (using the 2010 U.S. census to obtain the age group of 0-15 years)
- ED visits and hospital inpatients (using 2015 IHHA COMPData)
- Pediatric Recognized Facilities (using 2017 Illinois EMSC data)
- Pediatric Intensive Care Units (using 2017 Illinois EMSC data)
- Certificate of Need (CON) Authorized Pediatric Beds (using 2015 IHFPB data)

The number of pediatric recognized facilities compared to total number of hospitals with EDs varies by region, as shown in Figure 4. The proportion of recognized facilities is especially high for EMS Regions 7-10. This contributes to the apparent high proportion for the Chicago PHMSR Region overall, but it should be noted that, within that grouping, the proportion is relatively low for EMS Region 11 (City of Chicago).

Figure 4. Illinois Hospitals* Participating in Pediatric Facility Recognition (2017) Compared with Total Number of Hospitals with EDs (2015) by PHMSR and EMS Region

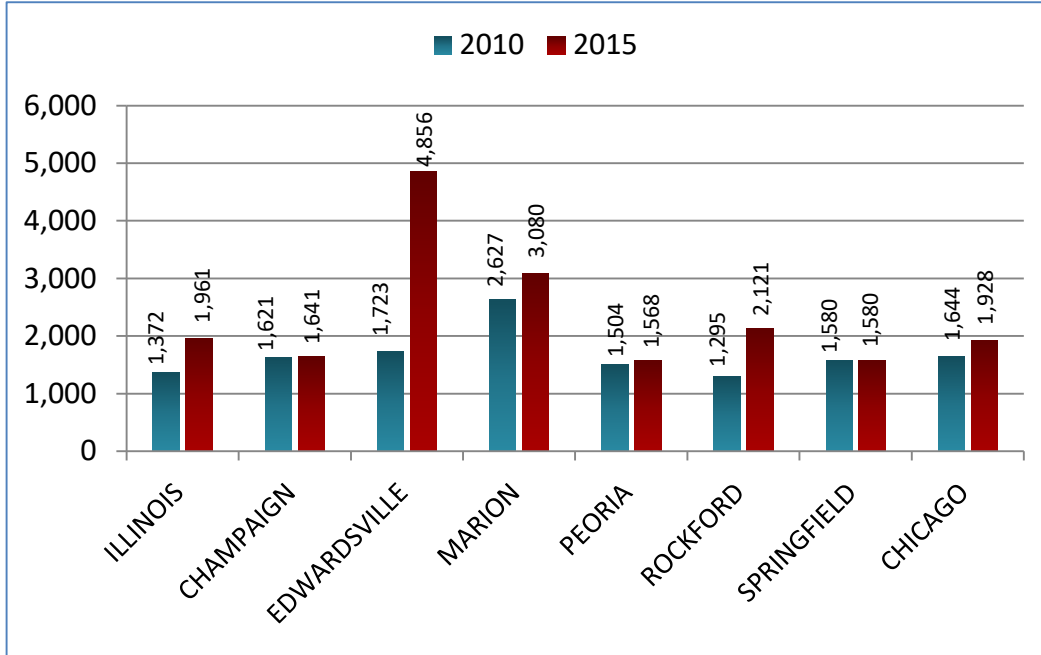


*Note: In this chart, only recognized hospitals from Illinois were counted. Out-of-state facilities that were not counted consisted of 3 facilities in Indiana that border the Marion PHMSR Region and 2 facilities in Iowa that border the Rockford PHMSR Region.

Source: Illinois EMSC

Separately, of particular note is the number of children (age 0-15 years) per pediatric bed. As shown in Figure 5, in 2015 the Edwardsville and Marion PHMSR Regions had considerably larger numbers of children per pediatric bed (4,865 and 3,080) than the statewide average (1,961). As also shown in Figure 5, this changed greatly between 2010 and 2015 for Edwardsville. Per communication with hospital representatives at their regional EMSC meetings, this change resulted from closure or reduction in the size of pediatric units in Illinois hospitals while depending more on transferring pediatric patients to Missouri hospitals for inpatient care.

Figure 5. Ratio of the Population of Children 0-15 Years Old Per Authorized Pediatric Inpatient Beds, by PHMSR Region, Comparing 2010 and 2015



Sources: Illinois Health Facilities Planning Board (IHFPB) Annual Hospital Questionnaire (2010 and 2015) and U.S. Census Bureau

Table 9. Children (Age 0-15 Years) Population (2010), Hospital Utilization (2015), Pediatric Recognized Facilities (2017), and Authorized Pediatric Beds (2015) by PHMSR Region and EMS Regions 7-11

	Statewide	PHMSR Region							Chicago PHMSR				
		Champaign	Edwardsville	Marion	Peoria	Rockford	Springfield	Chicago	Region 7	Region 8	Region 9	Region 10	Region 11
Persons <= 15 Years Old (2010 U.S. Census)	2,757,783	136,179	160,246	89,319	222,653	146,354	97,965	1,905,067	402,931	329,304	431,031	189,890	551,911
% of Region Population <=15 Years Old	21.5%	19.2%	20.7%	19.0%	20.2%	21.3%	19.9%	22.2%	23.5%	22.3%	23.4%	22.1%	20.5%
ED Visits for Patients <= 15 Years Old	947,144	56,023	59,842	37,557	85,402	51,510	41,020	615,790	134,782	117,537	116,389	62,171	184,911
Hospital Inpatients <=15 Years Old	213,060	10,647	7,047	5,236	17,784	8,682	9,770	153,894	22,723	27,668	32,117	11,711	59,675
<i>Pediatric Recognized Facilities:</i>													
Pediatric Critical Care Center (PCCC)	10	-	-	-	1	1	1	7	1	3	1	-	2
Emergency Department Approved for Pediatrics (EDAP)	89	4	6	7 (3 in Indiana)	13	6 (2 in Iowa)	3	50	9	10	11	8	12
Standby Emergency Department for Pediatrics (SEDP)	8	1	3	4	-	-	-	1	-	-	1	-	-
Pediatric Intensive Care Units (PICUs)	18 + 1 adult with 12 dedicated peds beds + 2 each in MO*, IN*, and WI*	1 adult with 12 dedicated peds beds	2 in MO*	2 in MO*, 2 in IN*	1	1 in IL, 2 in WI*	1	15	2	4	2	-	7
Hospital Certificate of Need (CON) Authorized Pediatric Beds	1,406	83	33	29	142	69	62	988	156	118	129	48	537
Number of Persons 0-15 Years Old Per Pediatric Bed	1,961	1,641	4,856	3,080	1,568	2,121	1,580	1,928	2,583	2,791	3,341	3,956	1,028

Sources: U.S. Census Bureau; IHHA COMPData; Illinois EMSC; and the Illinois Health Facilities Planning Board

*Note: For PICUs, out-of-state hospitals located in Missouri, Indiana, and Wisconsin are not counted in the CON authorized bed count; however, they serve as resources for bordering areas within the state. In addition, two Missouri hospitals are listed under both Edwardsville and Marion PHMSR Regions since they serve both regions, but they are only counted once in the statewide total.

Newborns/Pregnancy

Table 10 on the following page shows data regarding newborns and pregnancy in the following categories:

- Number of newborns and birth rate per population (using the 2014 data from CDC and IDPH)
- Authorized OB/Gyn Beds and OB admissions per bed (using 2015 IHFPB data)
- Perinatal Resources (using 2016 data obtained by Illinois EMSC)

Relative to state averages, the birth rate per population is higher for EMS Region 11 (City of Chicago), and the number of Obstetrics (OB) admissions per bed is higher for the Marion PHMSR Region and for EMS Region 9.

Regarding perinatal resources, most of the Illinois Neonatal Intensive Care Units (NICUs) and Level II-E nurseries appear in the Chicago PHMSR Region (21 of 24 NICUs and 18 of 22 Level II-E nurseries). In addition, perinatal resources include facilities in Missouri, Indiana, and Wisconsin for the Edwardsville, Marion, and Rockford PHMSR Regions.

Regarding out-of-state facilities, note that Missouri hospitals are part of the Illinois perinatal system. Indiana and Wisconsin hospitals are not part of the Illinois perinatal system; however, they serve as resources for bordering areas in Illinois.

Table 10. Newborn/Pregnancy Children Population (2014), Authorized OB/Gyn Beds (2015), and Perinatal Resources (2016), by PHMSR Region and EMS Regions 7-11

	Statewide	PHMSR Region							Chicago PHMSR				
		Champaign	Edwardsville	Marion	Peoria	Rockford	Springfield	Chicago	Region 7	Region 8	Region 9	Region 10	Region 11
Newborns (2014)	158,522	8,207	8,898	5,559	12,979	7,787	5,317	109,775	20,201	17,364	22,224	9,850	40,137
Birth Rate Per 1,000 Population	12.3	11.7	11.7	12.1	11.9	11.6	11.0	12.7	11.8	11.7	12.1	11.5	14.9
Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	2,660	169	180	68	230	120	103	1,790	303	339	315	158	675
Number of OB Admissions Per Bed	60	48	37	73	56	60	55	64	59	65	76	66	59
<i>Perinatal Resources</i>													
Neonatal Intensive Care Units (NICUs)	24 + 2 in MO*, 1 in IN*, and 3 in WI*	1	2 in MO*	2 in MO*, 1 in IN*	1	1 in IL, 3 in WI*	1	21	1	5	4	1	10
Level II-E Nurseries	22	1	-	1	1	1	-	18	7	-	4	3	4
Level II Nurseries	60	5	9	4	12	6	3	23	4	7	3	2	7
Level I Nurseries	9	3	1	-	2	-	3	-	-	-	-	-	-
Non-Birthing Hospitals	72	7	11	17	9	4	6	18	1	2	3	3	9

Sources: U.S. Census Bureau; Illinois Health Facilities Planning Board; and Illinois EMSC

*Note: For NICUs, Missouri hospitals are part of the Illinois perinatal system. Indiana and Wisconsin hospitals are not part of the Illinois perinatal system; however, they serve as resources for bordering areas in Illinois. In addition, two Missouri hospitals are listed under both Edwardsville and Marion PHMSR Regions since they serve both regions, but they are only counted once in the statewide total.

Conclusions and Future Opportunities

This report used numerous resources to describe at-risk population data in Illinois for disaster planning purposes. Data were aggregated by IDPH Public Health & Medical Services Response (PHMSR) Regions, and, because of the heavy concentration of population and resources in the Chicago PHMSR Region, by Emergency Medical Services (EMS) Regions 7-11.

Particularly useful data were available regarding the following at-risk populations:

- Low socioeconomic status, single-parent households, persons with disabilities, and persons with limited English proficiency from CDC in its Social Vulnerability Index
- Medicare beneficiaries and beneficiaries with electricity-dependending equipment from the U.S. Department of Health & Human Services (DHHS) in its "emPOWER" data
- Hospital capacity from the Illinois Health Facilities Planning Board in its Annual Hospital Questionnaire
- Mental illness from IDPH's online IQuery system
- Homelessness from the Illinois Department of Human Services (IDHS) Homeless Prevention Program annual report
- Children and newborns from the Illinois EMSC program

Note that this report was limited in scope to at-risk populations. Other information, such as geographic hazards, may be of interest for further planning opportunities. Topics could include nuclear safety, earthquake risk, tornados, and flood plains in relation to the location/volume of at-risk populations. The Illinois Emergency Management Agency maintains data on levee locations along rivers where levee breaks have occurred as well as the locations of Emergency Operations Centers and recovery equipment assets.

Also all data sets used in this report may be updated over time. As a result, the report could be modified with new data in the future.

More refined calculations are possible. For example, variables for pediatric recognized facilities could be combined with population information and with Illinois Health Facilities Planning Board survey data to calculate the number of children in a region per bed when that bed is available at a recognized facility. This presents a future opportunity in working further with the data.

Finally, although this report addressed disaster planning at the state-wide level, several resources could be particularly useful for further planning opportunities at the county or local level. Two of the resources noted above offer online mapping tools that drill down within counties:

- CDC's Social Vulnerability Index at <https://svi.cdc.gov/map.aspx>
- DHHS's Medicare beneficiary data at <https://empowermap.hhs.gov/>

In addition, a number of resources provide data at the county level:

- IDPH's Illinois Public Health Community Map (<http://map-idph-ipro-org.bitnamiapp.com/>) provides available information to the public about the quality of healthcare in Illinois communities. A variety of health care and socioeconomic topics are available, specifically including behavioral health and opioid/heroin overdose.
- IDPH's online IQuery system (<https://iquery.illinois.gov/iquery/>) has data regarding substance abuse by county

- Limited English Proficiency (LEP) - Federal Interagency Website (<https://www.lep.gov/maps/>) provides information about languages spoken by individuals with LEP in a community. (Note: In the middle of this web page, a section named “Mapping LEP Populations in Your Community” allows for selection by state and county level.)
- University of Illinois’ Illinois Youth Survey (<https://iys.cprd.illinois.edu/results/county>) for several indicators of mental health by county, including substance abuse, for 8th, 10th, and 12th graders

Migrant Workers

Data regarding migrant and seasonal workers is particularly challenging to obtain and validate. Problems with obtaining this information include the ongoing transitory nature of migrant workers and their unwillingness in some circumstances to be identified.

These challenges suggest that a useful future project may consist of investigating and cross-referencing a number of resources to estimate the local and statewide population of migrant workers. These may include the following, grouped by topic area. Note that the definitions for persons who can be served may vary by organization.

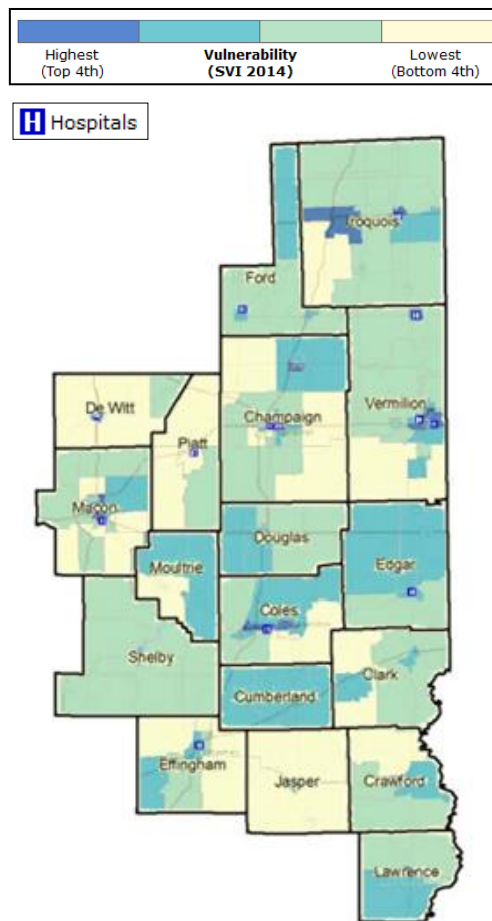
- General Information
 - Illinois Migrant Council (<http://www.illinoismigrant.org/>)
 - Illinois Department of Employment Security’s Migrant and Seasonal Farmworker Program (http://www.ides.illinois.gov/Pages/Migrant_Seasonal_Farm_Worker_Program.aspx)
- Health Care:
 - Community Health Partnership of Illinois (<http://www.chpofil.org/>) for health care to agricultural workers in Northern and Central Illinois, including clinics and outreach activities
 - Shawnee Health Service: Farmworker Health Program (<http://www.shawneehealth.com/services/farmworker-health-program/>) for health care in southern Illinois
- Education:
 - Illinois Board of Education Migrant Education Program (<https://www.isbe.net/Pages/Migrant-Education-Program.aspx>) for school-age children
 - Illinois Department of Human Services Migrant and Seasonal Head Start Program (<http://www.dhs.state.il.us/page.aspx?item=30353>) and regional Migrant and Seasonal Head Start programs throughout the state (<http://www.dhs.state.il.us/page.aspx?item=31432>)

Appendix 1. Reports by Public Health & Medical Services Response (PHMSR)
Regions and EMS Regions 7-11

Champaign PHMSR Region

- 1. Total Population in 2014:** 707,296 (5.5% of state total)
- 2. CDC Social Vulnerability Index (table and map)**

	CHAMPAIGN	STATEWIDE
Socioeconomic Status		
Below Poverty Level	16.8%	14.1%
Civilian Unemployed	7.0%	8.2%
Per Capita Income	\$24,919	\$30,019
No High School Diploma	8.6%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	15.2%	13.2%
Persons <= 17 years old	21.5%	23.7%
Civilian Noninstitutionalized Population with a Disability	12.0%	10.5%
Single Parent Household (as % of households)	8.7%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	17.4%	37.1%
Persons (age 5+) Who Speak English "less than well"	0.9%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	9.9%	14.2%
Mobile Homes	5.3%	2.6%
At Household Level, More People than Rooms	1.2%	2.6%
Households With No Vehicle	8.6%	10.8%
Persons in Institutionalized Group Quarters	5.2%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

- 3. Rural Population:** 247,463 (35.0% of the region population, compared to 11.5% statewide)
- 4. Hospital Capacity and Utilization**
 - Trauma Centers: 1 Level I, 1 Level II
 - Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
Champaign	17	1,183	43	598	16	-
Statewide	211	20,567	42	626	184	9

Champaign PHMSR Region, continued

5. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
Champaign	107,473	15.2%	125,212	17.7%	8,054	1.1%	7.5%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

6. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
Champaign	5,634	797	5,859	828	195	3,627	86	12.2
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

7. **Homelessness:** estimated 724 homeless persons (102 per 100,000 population, compared to 73 per 100,000 population statewide)

8. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
Champaign	136,179	19.2%	56,023	10,647	0	4	1	1 adult with 12 dedicated peds beds	83	1,641
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

9. Newborns/Pregnancy

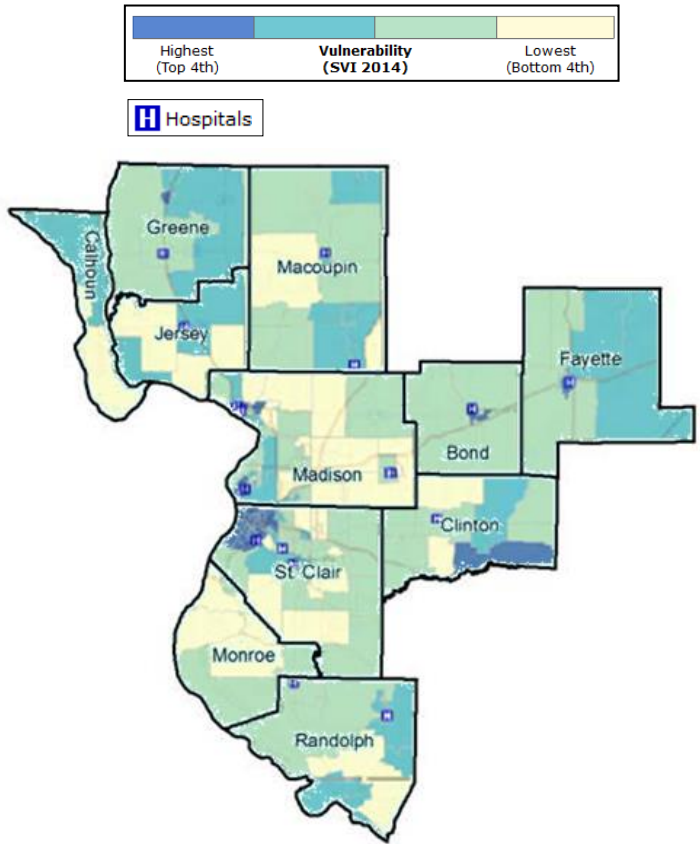
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level I Nurseries	Non-Birthing Hospitals
Champaign	8,207	11.7	169	48	1	1	5	3	7
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

Edwardsville PHMSR Region

1. Total Population in 2014: 769,070 (6.0% of state total)

2. CDC Social Vulnerability Index (table and map)

	EDWARDSVILLE	STATEWIDE
Socioeconomic Status		
Below Poverty Level	14.0%	14.1%
Civilian Unemployed	6.8%	8.2%
Per Capita Income	\$26,894	\$30,019
No High School Diploma	9.0%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	14.8%	13.2%
Persons <= 17 years old	23.0%	23.7%
Civilian Noninstitutionalized Population with a Disability	12.5%	10.5%
Single Parent Household (as % of households)	9.7%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	19.8%	37.1%
Persons (age 5+) Who Speak English "less than well"	0.3%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	4.1%	14.2%
Mobile Homes	6.2%	2.6%
At Household Level, More People than Rooms	1.2%	2.6%
Households With No Vehicle	6.8%	10.8%
Persons in Institutionalized Group Quarters	2.6%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Rural Population: 191,719 (24.9% of the region population, compared to 11.5% statewide)

4. Hospital Capacity and Utilization

- Trauma Centers: 2 Level I in Missouri and 2 Level I Pediatric in Missouri
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
Edwardsville	18	1,280	32	601	18	0
Statewide	211	20,567	42	626	184	9

Edwardsville PHMSR Region, continued

5. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
Edwardsville	113,882	14.8%	136,780	17.8%	6,982	0.9%	6.1%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

6. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
Edwardsville	5,316	691	5,782	752	160	4,807	104	13.5
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

7. **Homelessness:** estimated 1,113 homeless persons (145 per 100,000 population, compared to 73 per 100,000 population statewide)

8. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
Edwardsville	160,246	20.7%	59,842	7,047	0	6	3	2 in MO	33	4,856
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

9. Newborns/Pregnancy

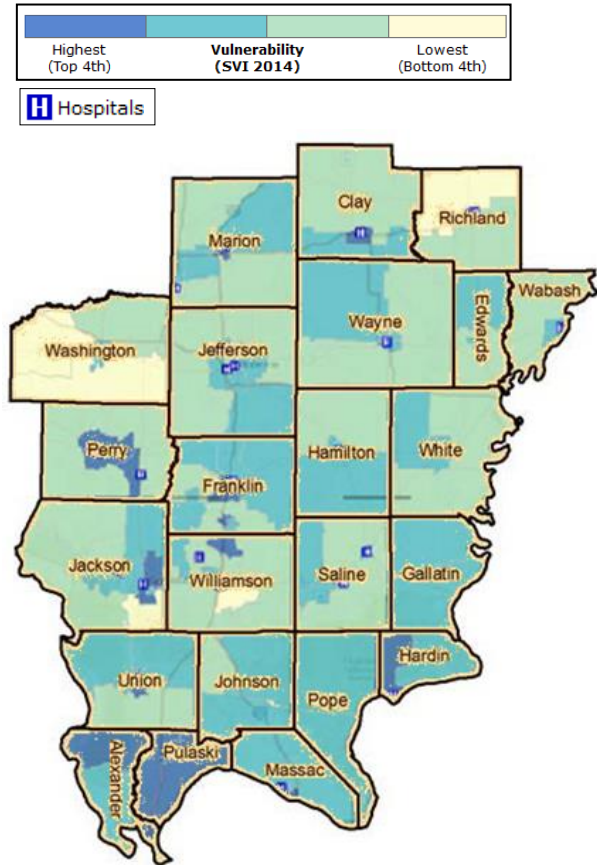
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level 1 Nurseries	Non-Birthing Hospitals
Edwardsville	8,898	11.7	180	37	2 in MO	0	9	1	11
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

Marion PHMSR Region

1. Total Population in 2014: 466,798 (3.6% of state total)

2. CDC Social Vulnerability Index (table and map)

	MARION	STATEWIDE
Socioeconomic Status		
Below Poverty Level	18.3%	14.1%
Civilian Unemployed	7.2%	8.2%
Per Capita Income	\$22,367	\$30,019
No High School Diploma	11.4%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	17.5%	13.2%
Persons <= 17 years old	21.4%	23.7%
Civilian Noninstitutionalized Population with a Disability	16.7%	10.5%
Single Parent Household (as % of households)	8.7%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	10.7%	37.1%
Persons (age 5+) Who Speak English "less than well"	0.4%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	4.7%	14.2%
Mobile Homes	14.9%	2.6%
At Household Level, More People than Rooms	1.5%	2.6%
Households With No Vehicle	7.6%	10.8%
Persons in Institutionalized Group Quarters	3.9%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Rural Population: 249,463 (53.4% of the region population, compared to 11.5% statewide)

4. Hospital Capacity and Utilization

- Trauma Centers: 2 hospitals in Indiana that are both Level II and Level II Pediatric
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
Marion	22	868	44	538	22	-
Statewide	211	20,567	42	626	184	9

Marion PHMSR Region, continued

5. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
Marion	81,742	17.5%	96,997	20.8%	7,245	1.6%	8.9%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

6. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
Marion	4083*	875	2,581	553	59	7,912	91	19.5
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

* For ED Visits for Mental Health, IDPH data were used from the IQuery system. IQuery reports data by county, and these data were aggregated by PHMSR Region. One county in the Marion Region was not available because its value was 10 or less and IQuery suppresses such values.

7. **Homelessness:** estimated 194 homeless persons (41 per 100,000 population, compared to 73 per 100,000 population statewide)

8. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
Marion	89,319	19.0%	37,557	5,236	0	7 (3 in Indiana)	4	2 in MO, 2 in IN	29	3,080
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

9. Newborns/Pregnancy

	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				Non-Birthing Hospitals
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level I Nurseries	
Marion	5,559	12.1	68	73	2 in MO, 1 in IN	1	4	0	17
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

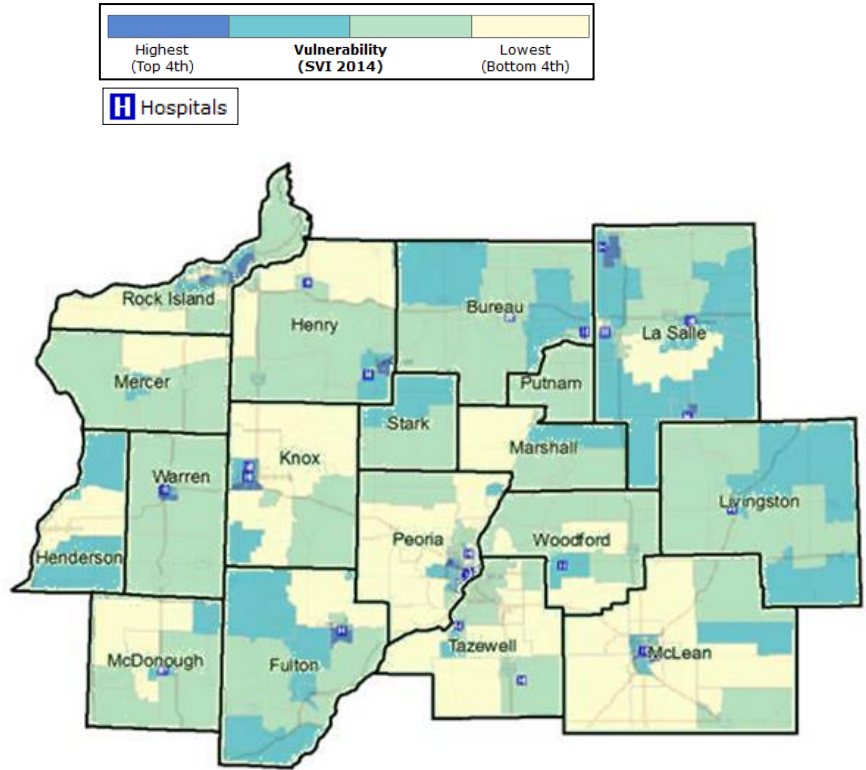
Appendix 1. Reports for Each PHMSR Region and EMS Regions 7-11

Peoria PHMSR Region

1. Total Population in 2014: 1,103,569 (8.6% of state total)

2. CDC Social Vulnerability Index (table and map)

		PEORIA
Socioeconomic Status		
Below Poverty Level		13.3%
Civilian Unemployed		6.6%
Per Capita Income		\$27,252
No High School Diploma		8.4%
Housing Composition and Disability		
Persons >= 65 years old		15.7%
Persons <= 17 years old		22.5%
Civilian Noninstitutionalized Population with a Disability		11.4%
Single Parent Household (as % of households)		9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)		16.1%
Persons (age 5+) Who Speak English "less than well"		1.0%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units		8.1%
Mobile Homes		3.3%
At Household Level, More People than Rooms		1.4%
Households With No Vehicle		6.9%
Persons in Institutionalized Group Quarters		3.9%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Rural Population: 312,900 (28.4% of the region population, compared to 11.5% statewide)

4. Hospital Capacity and Utilization

- Trauma Centers: 1 Level I and Level I Pediatric and 7 Level II
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
Peoria	27	1,941	38	569	26	1
Statewide	211	20,567	42	626	184	9

Peoria PHMSR Region, continued

5. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
Peoria	173,187	15.7%	201,293	18.2%	10,266	0.9%	5.9%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

6. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
Peoria	9,813	889	7,690	697	209	5,280	160	14.5
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

7. **Homelessness:** estimated 1,195 homeless persons (108 per 100,000 population, compared to 73 per 100,000 population statewide)

8. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
Peoria	222,653	20.2%	85,402	17,784	1	13	0	1	142	1,568
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

9. Newborns/Pregnancy

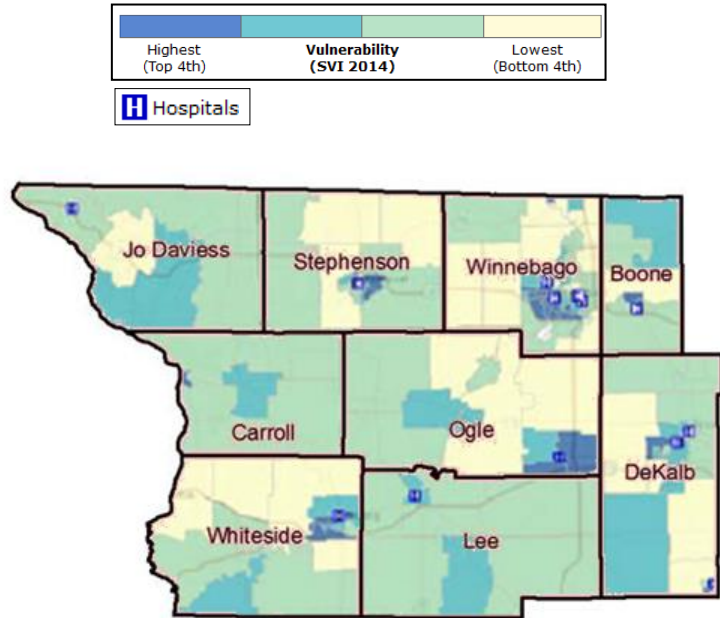
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level I Nurseries	Non-Birthing Hospitals
Peoria	12,979	11.9	230	56	1	1	12	2	9
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

Rockford PHMSR Region

1. Total Population in 2014: 681,167 (5.3% of state total)

2. CDC Social Vulnerability Index (table and map)

	ROCKFORD
Socioeconomic Status	
Below Poverty Level	15.0%
Civilian Unemployed	9.2%
Per Capita Income	\$25,083
No High School Diploma	10.3%
Housing Composition and Disability	
Persons >= 65 years old	15.2%
Persons <= 17 years old	23.5%
Civilian Noninstitutionalized Population with a Disability	11.9%
Single Parent Household (as % of households)	10.0%
Minority Status and Language	
Minority (all persons except white, non-Hispanic)	21.6%
Persons (age 5+) Who Speak English "less than well"	2.0%
Housing and Transportation (as % of households)	
Housing in Structures with 10 or More Units	6.9%
Mobile Homes	3.0%
At Household Level, More People than Rooms	1.8%
Households With No Vehicle	7.2%
Persons in Institutionalized Group Quarters	2.4%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Rural Population: 170,350 (25.0% of the region population, compared to 11.5% statewide)

4. Hospital Capacity and Utilization

- Trauma Centers: 2 Level I and 1 Level II in Illinois and 1 Level II in Iowa
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
Rockford	14	929	43	733	11	0
Statewide	211	20,567	42	626	184	9

Rockford PHMSR Region, continued

5. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
Rockford	103,410	15.2%	126,289	18.5%	5,903	0.9%	5.7%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

6. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
Rockford	6,288	923	2,389	351	66	10,321	95	13.9
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

7. **Homelessness:** estimated 638 homeless persons (94 per 100,000 population, compared to 73 per 100,000 population statewide)

8. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
Rockford	146,354	21.3%	51,510	8,682	1	6 (2 in Iowa)	0	1 in IL, 2 in WI	69	2,121
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

9. Newborns/Pregnancy

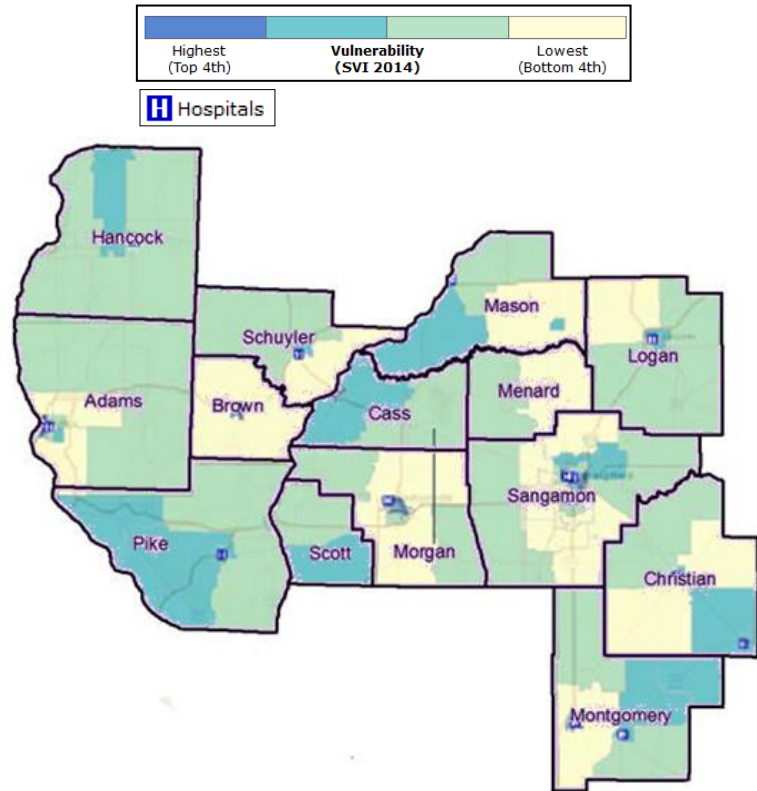
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level I Nurseries	Non-Birthing Hospitals
Rockford	7,787	11.6	120	60	1 in IL, 3 in WI	1	6	0	4
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

Springfield PHMSR Region

1. Total Population in 2014: 490,446 (3.8% of state total)

2. CDC Social Vulnerability Index (table and map)

		SPRINGFIELD
Socioeconomic Status		
Below Poverty Level		13.6%
Civilian Unemployed		6.2%
Per Capita Income	\$26,394	
No High School Diploma		8.9%
Housing Composition and Disability		
Persons >= 65 years old		16.5%
Persons <= 17 years old		22.2%
Civilian Noninstitutionalized Population with a Disability		13.4%
Single Parent Household (as % of households)		9.5%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)		12.9%
Persons (age 5+) Who Speak English "less than well"		0.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units		5.5%
Mobile Homes		6.1%
At Household Level, More People than Rooms		1.4%
Households With No Vehicle		6.6%
Persons in Institutionalized Group Quarters		5.4%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Rural Population: 168,710 (34.4% of the region population, compared to 11.5% statewide)

4. Hospital Capacity and Utilization

- Trauma Centers: 1 Level I, 1 Level I and Level II Pediatric, and 1 Level II
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
Springfield	15	1,001	44	490	13	0
Statewide	211	20,567	42	626	184	9

Springfield PHMSR Region, continued

5. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
Springfield	81,068	16.5%	97,094	19.8%	6,489	1.3%	8.0%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

6. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
Springfield	5,154	1,051	5,545	1,131	242	2,027	83	16.9
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

7. Homelessness: estimated 441 homeless persons (90 per 100,000 population, compared to 73 per 100,000 population statewide)

8. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
Springfield	97,965	19.9%	41,020	9,770	1	3	0	1	62	1,580
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

9. Newborns/Pregnancy

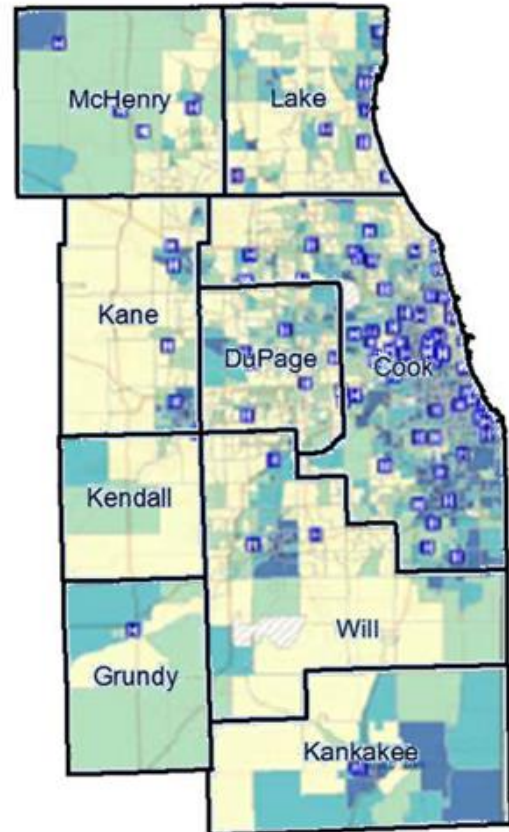
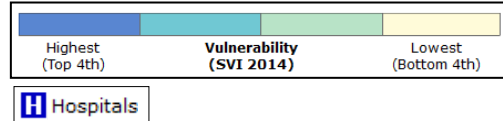
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				Non-Birthing Hospitals
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level I Nurseries	
Springfield	5,317	11.0	103	55	1	0	3	3	6
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

Chicago PHMSR Region

1. **Total Population in 2014:** 8,650,401 (67.2% of state total)

2. **CDC Social Vulnerability Index (table and map)**

	CHICAGO	STATEWIDE
Socioeconomic Status		
Below Poverty Level	13.7%	14.1%
Civilian Unemployed	8.8%	8.2%
Per Capita Income	\$32,075	\$30,019
No High School Diploma	11.6%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	12.0%	13.2%
Persons <= 17 years old	24.4%	23.7%
Civilian Noninstitutionalized Population with a Disability	9.4%	10.5%
Single Parent Household (as % of households)	9.0%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	47.0%	37.1%
Persons (age 5+) Who Speak English "less than well"	6.1%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	18.3%	14.2%
Mobile Homes	0.9%	2.6%
At Household Level, More People than Rooms	3.3%	2.6%
Households With No Vehicle	12.7%	10.8%
Persons in Institutionalized Group Quarters	1.6%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. **Rural Population:** 138,731 (1.6% of the region population, compared to 11.5% statewide)

4. **Hospital Capacity and Utilization**

- Trauma Centers: 10 Level I, 1 Level I and Level I Pediatric, 2 Level I Pediatric, 30 Level II in Illinois; and 1 Level II in Wisconsin
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
Chicago	98	13,365	44	647	78	8
Statewide	211	20,567	42	626	184	9

Chicago PHMSR Region, continued

5. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
Chicago	1,035,521	12.0%	1,164,137	13.5%	43,209	0.5%	4.2%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

6. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
Chicago	51,189	592	86,894	1,005	3,146	2,750	777	9.0
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

7. Homelessness: estimated 5,153 homeless persons (60 per 100,000 population, compared to 73 per 100,000 population statewide)

8. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
Chicago	1,905,067	22.2%	615,790	153,894	7	50	1	15	988	1,928
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

9. Newborns/Pregnancy

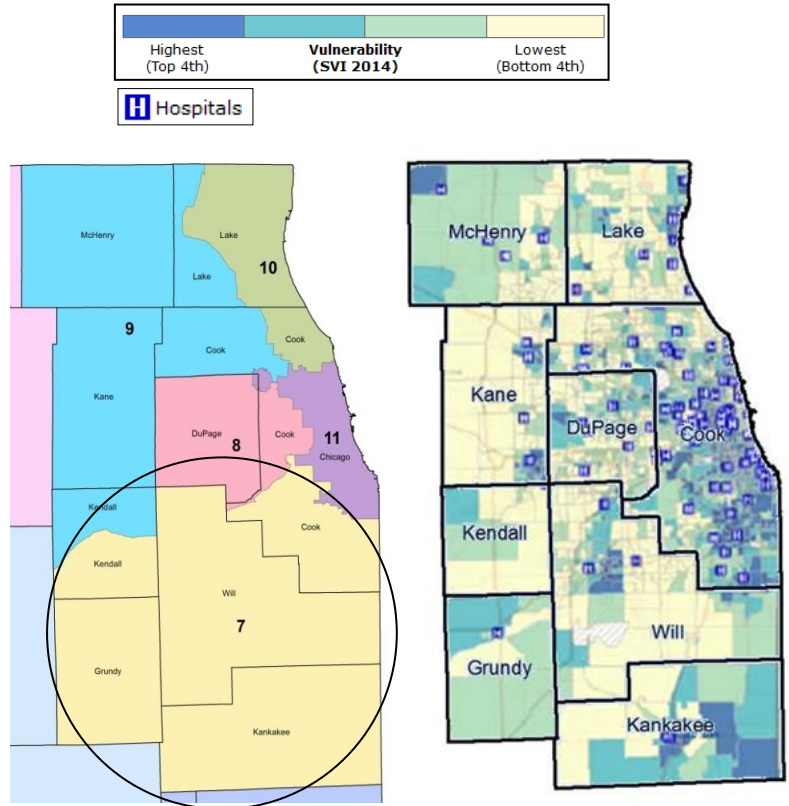
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level I Nurseries	Non-Birthing Hospitals
Chicago	109,775	12.7	1,790	64	21	18	23	0	18
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

EMS Region 7

1. Total Population in 2014: 1,721,568 (13.4% of state total)

2. CDC Social Vulnerability Index (table and map)

	EMS Region 7	STATEWIDE
Socioeconomic Status		
Below Poverty Level	11.7%	14.1%
Civilian Unemployed	9.6%	8.2%
Per Capita Income	\$28,286	\$30,019
No High School Diploma	9.3%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	12.5%	13.2%
Persons <= 17 years old	25.7%	23.7%
Civilian Noninstitutionalized Population with a Disability	10.3%	10.5%
Single Parent Household (as % of households)	9.8%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	40.7%	37.1%
Persons (age 5+) Who Speak English "less than well"	3.0%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	8.5%	14.2%
Mobile Homes	2.1%	2.6%
At Household Level, More People than Rooms	2.2%	2.6%
Households With No Vehicle	6.3%	10.8%
Persons in Institutionalized Group Quarters	1.3%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Hospital Capacity and Utilization

- Trauma Centers: 1 Level I and 5 Level II
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
EMS Region 7	13	2,843	42	606	13	1
Statewide	211	20,567	42	626	184	9

EMS Region 7, continued

4. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
EMS Region 7	214,876	12.5%	247,697	14.4%	10,336	0.6%	4.8%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

5. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
EMS Region 7	*	*	10,474	608	335	5,139	*	*
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

*Data not available by EMS Region

6. **Homelessness:** estimated 741 homeless persons (43 per 100,000 population, compared to 73 per 100,000 population statewide)

7. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
EMS Region 7	402,931	23.5%	134,782	22,723	1	9	0	2	156	2,583
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

8. Newborns/Pregnancy

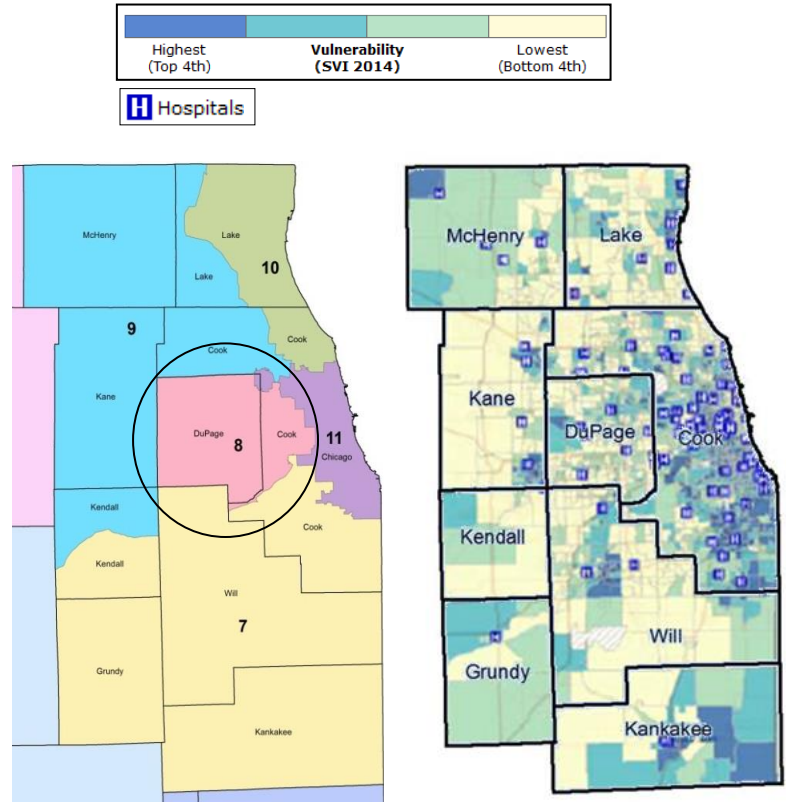
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level I Nurseries	Non-Birthing Hospitals
EMS Region 7	20,201	11.8	303	59	1	7	4	0	1
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

EMS Region 8

1. Total Population in 2014: 1,492,188 (11.6% of state total)

2. CDC Social Vulnerability Index (table and map)

	EMS Region 8	STATEWIDE
Socioeconomic Status		
Below Poverty Level	9.2%	14.1%
Civilian Unemployed	7.7%	8.2%
Per Capita Income	\$35,085	\$30,019
No High School Diploma	10.1%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	12.5%	13.2%
Persons <= 17 years old	24.5%	23.7%
Civilian Noninstitutionalized Population with a Disability	8.5%	10.5%
Single Parent Household (as % of households)	7.4%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	40.1%	37.1%
Persons (age 5+) Who Speak English "less than well"	5.9%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	15.9%	14.2%
Mobile Homes	0.5%	2.6%
At Household Level, More People than Rooms	3.1%	2.6%
Households With No Vehicle	5.9%	10.8%
Persons in Institutionalized Group Quarters	1.2%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Hospital Capacity and Utilization

- Trauma Centers: 2 Level I and 9 Level II
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
EMS Region 8	19	2,298	50	649	14	2
Statewide	211	20,567	42	626	184	9

EMS Region 8, continued

4. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
EMS Region 8	186,082	12.5%	221,283	14.8%	7,699	0.5%	4.1%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

5. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
EMS Region 8	*	*	14,770	990	633	2,357	*	*
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

*Data not available by EMS Region

6. **Homelessness:** estimated 782 homeless persons (52 per 100,000 population, compared to 73 per 100,000 population statewide)

7. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
EMS Region 8	329,304	22.3%	117,537	27,668	3	10	0	4	118	2,791
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

8. Newborns/Pregnancy

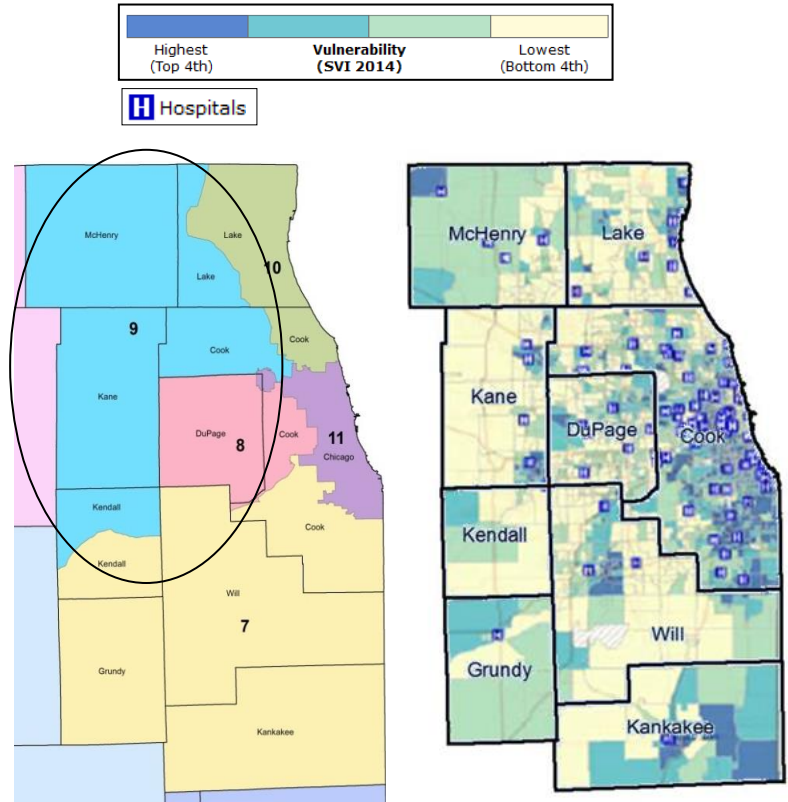
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level 1 Nurseries	Non-Birthing Hospitals
EMS Region 8	17,364	11.7	339	65	5	0	7	0	2
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

EMS Region 9

1. Total Population in 2014: 1,856,317 (14.4% of state total)

2. CDC Social Vulnerability Index (table and map)

	EMS Region 9	STATEWIDE
Socioeconomic Status		
Below Poverty Level	8.7%	14.1%
Civilian Unemployed	7.3%	8.2%
Per Capita Income	\$33,635	\$30,019
No High School Diploma	10.2%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	11.8%	13.2%
Persons <= 17 years old	25.8%	23.7%
Civilian Noninstitutionalized Population with a Disability	7.9%	10.5%
Single Parent Household (as % of households)	7.2%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	32.7%	37.1%
Persons (age 5+) Who Speak English "less than well"	5.9%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	11.4%	14.2%
Mobile Homes	1.1%	2.6%
At Household Level, More People than Rooms	3.1%	2.6%
Households With No Vehicle	4.3%	10.8%
Persons in Institutionalized Group Quarters	0.8%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Hospital Capacity and Utilization

- Trauma Centers: 1 Level I and 11 Level II
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
EMS Region 9	18	2,094	45	886	13	2
Statewide	211	20,567	42	626	184	9

EMS Region 9, continued

4. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
EMS Region 9	218,989	11.8%	260,800	14.0%	9,763	0.5%	4.5%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

5. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
EMS Region 9	*	*	18,670	1,006	715	2,596	*	*
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

*Data not available by EMS Region

6. **Homelessness:** estimated 813 homeless persons (44 per 100,000 population, compared to 73 per 100,000 population statewide)

7. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
EMS Region 9	431,031	23.4%	116,389	32,117	1	11	1	2	129	3,341
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

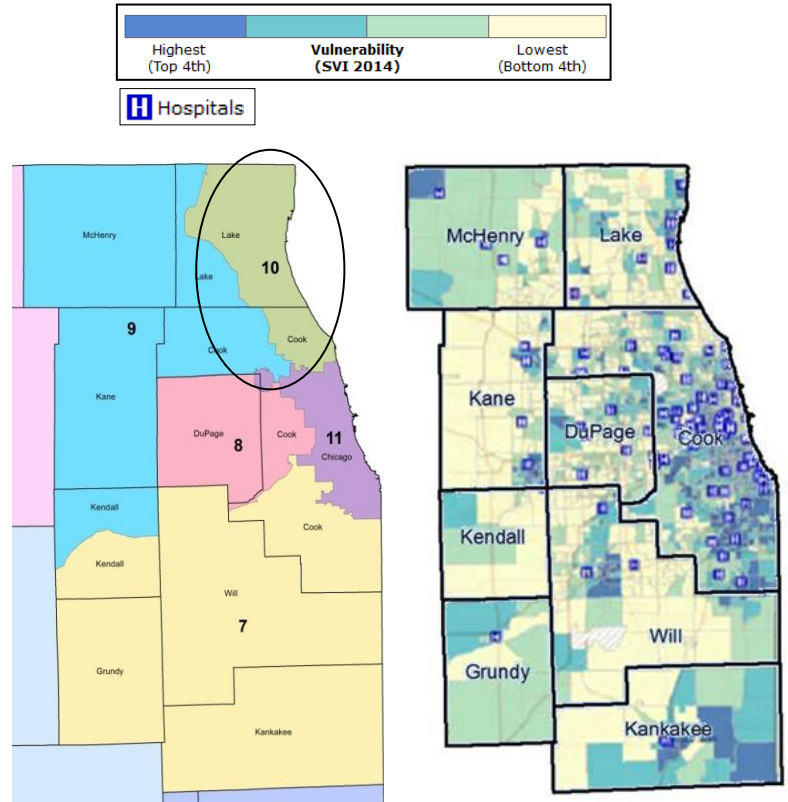
8. Newborns/Pregnancy

	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level 1 Nurseries	Non-Birthing Hospitals
EMS Region 9	22,224	12.1	315	76	4	4	3	0	3
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

EMS Region 10

1. Total Population in 2014: 862,168 (6.7% of state total)
2. CDC Social Vulnerability Index (table and map)

	EMS Region 10	STATEWIDE
Socioeconomic Status		
Below Poverty Level	9.1%	14.1%
Civilian Unemployed	6.8%	8.2%
Per Capita Income	\$41,860	\$30,019
No High School Diploma	8.4%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	14.4%	13.2%
Persons <= 17 years old	24.6%	23.7%
Civilian Noninstitutionalized Population with a Disability	8.7%	10.5%
Single Parent Household (as % of households)	7.5%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	37.1%	37.1%
Persons (age 5+) Who Speak English "less than well"	5.5%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	17.7%	14.2%
Mobile Homes	0.9%	2.6%
At Household Level, More People than Rooms	2.6%	2.6%
Households With No Vehicle	7.0%	10.8%
Persons in Institutionalized Group Quarters	3.3%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Hospital Capacity and Utilization

- Trauma Centers: 3 Level I and 5 Level II in Illinois; and 1 Level II in Wisconsin
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
EMS Region 10	10	1,216	45	709	10	2
Statewide	211	20,567	42	626	184	9

EMS Region 10, continued

4. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries		
	Number	% of Total Population in Region	Number	% of Total Population in Region	Number	% of Total Population in Region	% of Persons >=65 Years Old in Region
EMS Region 10	123,775	14.4%	125,777	14.6%	4,534	0.5%	3.7%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%	5.2%

5. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
EMS Region 10	*	*	3,156	366	80	10,777	*	*
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

*Data not available by EMS Region

6. **Homelessness:** estimated 574 homeless persons (67 per 100,000 population, compared to 73 per 100,000 population statewide)

7. Children (Age 0-15 Years)

	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
EMS Region 10	189,890	22.1%	62,171	11,711	0	8	0	0	48	3,956
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

8. Newborns/Pregnancy

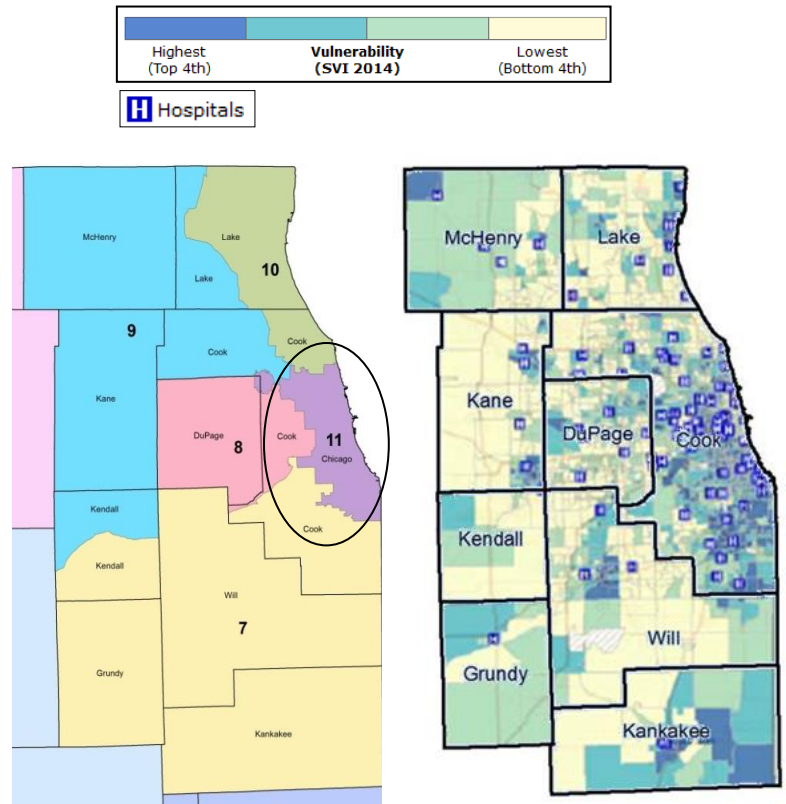
	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level 1 Nurseries	Non-Birthing Hospitals
EMS Region 10	9,850	11.5	158	66	1	3	2	0	3
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

EMS Region 11

1. Total Population in 2014: 2,718,161 (21.1% of state total)

2. CDC Social Vulnerability Index (table and map)

	EMS Region 11	STATEWIDE
Socioeconomic Status		
Below Poverty Level	22.2%	14.1%
Civilian Unemployed	10.4%	8.2%
Per Capita Income	\$28,652	\$30,019
No High School Diploma	15.8%	10.8%
Housing Composition and Disability		
Persons >= 65 years old	10.7%	13.2%
Persons <= 17 years old	22.5%	23.7%
Civilian Noninstitutionalized Population with a Disability	10.7%	10.5%
Single Parent Household (as % of households)	10.8%	9.1%
Minority Status and Language		
Minority (all persons except white, non-Hispanic)	67.8%	37.1%
Persons (age 5+) Who Speak English "less than well"	8.6%	4.4%
Housing and Transportation (as % of households)		
Housing in Structures with 10 or More Units	28.9%	14.2%
Mobile Homes	0.2%	2.6%
At Household Level, More People than Rooms	4.4%	2.6%
Households With No Vehicle	26.8%	10.8%
Persons in Institutionalized Group Quarters	2.0%	2.3%



Online interactive map available at <https://svi.cdc.gov/map.aspx>

3. Hospital Capacity and Utilization

- Trauma Centers: 3 Level I, 1 Level I and Level I Pediatric, and 2 Level I Pediatric
- Hospitals, Medical Surgical Beds, and Admissions Per Medical-Surgical Bed:

	Number of Hospitals	Medical-Surgical Certificate of Need (CON) Authorized Beds	Medical-Surgical Admissions Per Bed	Persons (region population) Per Medical-Surgical Bed	Hospitals with ED Visits in 2015	Freestanding Emergency Centers
EMS Region 11	38	4,914	40	553	28	1
Statewide	211	20,567	42	626	184	9

EMS Region 11, continued

4. Elderly Persons

	Persons >= 65 Years Old		Medicare Beneficiaries		Electricity-Dependent Beneficiaries	
	Number	% of Total Population	Number	% of Total Population	Number	% of Total Population
EMS Region 11	291,799	10.7%	308,580	11.4%	10,877	0.4%
Statewide	1,696,283	13.2%	1,947,802	15.1%	88,148	0.7%

5. Mental Health

	ED Visits for Mental Health	Rate of ED Visits per 100,000 Population in Region	Acute Mental Illness Inpatient Admissions	Rate of Inpatient Admissions per 100,000 Region Population in Region	Acute Mental Illness Certificate of Need (CON) Authorized Beds	Number of Persons (region population) Per Mental Illness CON Bed	Suicide as Cause of Death	Rate of Suicides per 100,000 Region Population
EMS Region 11	*	*	39,824	1,465	1,383	1,965	*	*
Statewide	87,477	680	116,740	907	4,077	3,156	1,396	10.8

*Data not available by EMS Region

6. **Homelessness:** estimated 2,243 homeless persons (83 per 100,000 population, compared to 73 per 100,000 population statewide)

7. Children (Age 0-15 Years)

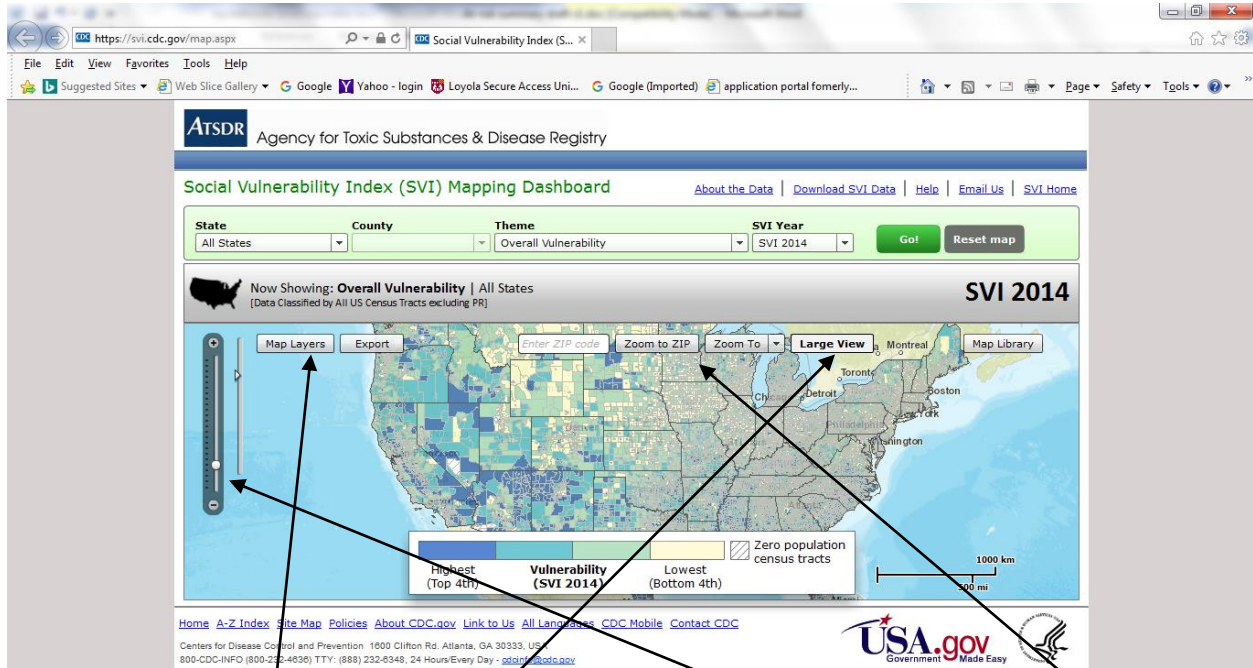
	Persons <= 15 Years (2010 U.S. Census)		ED Visits for Patients <= 15 Years Old	Hospital Inpatients <=15 Years Old	Pediatric Recognized Facilities			Pediatric Intensive Care Units (PICUs)	Hospital Certificate of Need (CON) Authorized Pediatric Beds	Number of Persons 0-15 Years Old Per Pediatric Bed
	Number	% of Region Population			Pediatric Critical Care Center (PCCC)	Emergency Department Approved for Pediatrics (EDAP)	Standby Emergency Department for Pediatrics (SEDP)			
EMS Region 11	551,911	20.5%	184,911	59,675	2	12	0	7	537	1,028
Statewide	2,757,783	21.5%	947,144	213,060	10	89	8	18 + 1 adult with 12 dedicated peds beds + 2 each in MO, IN, and WI	1,406	1,961

8. Newborns/Pregnancy

	Newborns (2014)	Birth Rate Per 1,000 Population	Hospital Certificate of Need (CON) Authorized OB/Gyn Beds	Number of OB Admissions Per Bed	Perinatal Resources				
					Neonatal Intensive Care Units (NICUs)	Level II-E Nurseries	Level II Nurseries	Level 1 Nurseries	Non-Birthing Hospitals
EMS Region 11	40,137	14.9	675	59	10	4	7	0	9
Statewide	158,522	12.3	2,660	60	24 + 2 in MO, 1 in IN, and 3 in WI	22	60	9	72

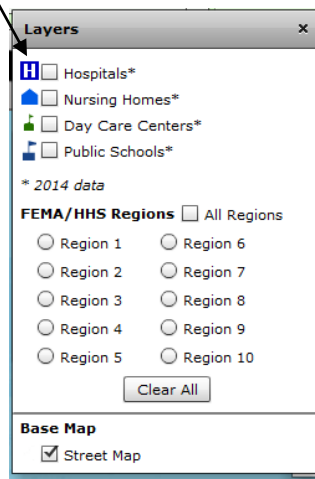
Appendix 2. CDC SVI Mapping Web Site

As noted in the discussion of CDC’s SVI data, CDC makes an interactive map of its SVI available online at <https://svi.cdc.gov/map.aspx>. Below is a screen image of the site accessed on 3/4/2018.



Multiple controls allow for drill-down capability, such as the scrolling tool and the “Zoom To” buttons at the top of the map. Also the “Large View” button removes some of the web page header and expands the map.

Finally, a “Map Layers” button appears near the top left. Clicking on this button shows a drop down list with selections for additional data elements to show, such as hospitals, nursing homes, day care centers, and public schools. Click the checkbox for any of these elements to add them to the map.



Appendix 3. Example IQuery Report for Drug-Related ED Visits

As noted in the report section on Mental Illness, inpatient and ED data are available from the IDPH IQuery web site (<https://iquery.illinois.gov/iquery/>). However, due to cell suppression, these data do not lend to aggregation by PHMSR Region. Below is an IQuery report for drug-related ED visits. For this report, 33 of 102 Illinois counties had their number values suppressed:

IQuery Data Export

Indicator selection: ER Visit Drug related

Area selection: Adams, Alexander, Bond, Boone, Brown, Bureau, Calhoun, Carroll, Cass, Champaign, Christian, Clark, Clay, Clinton, Coles, Cook, Crawford, Cumberland, Dekalb, Dewitt, Douglas, DuPage, Edgar, Edwards, Effingham, Fayette, Ford, Franklin, Fulton, Gallatin, Greene, Grundy, Hamilton, Hancock, Hardin, Henderson, Henry, Iroquois, Jackson, Jasper, Jefferson, Jersey, Jo Daviess, Johnson, Kane, Kankakee, Kendall, Knox, Lake, LaSalle, Lawrence, Lee, Livingston, Logan, Macon, Macoupin, Madison, Marion, Marshall, Mason, Massac, McDonough, McHenry, McLean, Menard, Mercer, Monroe, Montgomery, Morgan, Moultrie, Ogle, Peoria, Perry, Piatt, Pike, Pope, Pulaski, Putnam, Randolph, Richland, Rock Island, Saline, Sangamon, Schuyler, Scott, Shelby, St. Clair, Stark, Stephenson, Tazewell, Union, Vermilion, Wabash, Warren, Washington, Wayne, White, Whiteside, Will, Williamson, Winnebago, Woodford

Period selection: 2014

ER Visit Drug related

Source: IDPH Discharge Data

Contact: IDPH Division of Patient Safety and Quality : 535 W. Jefferson St., Springfield, IL 62761
<http://www.idph.state.il.us/patientsafety/index.htm> IDPH Division of Patient Safety and Quality

Description: Emergency room visit due to drug use.

Area	Year(s)	Count	Rate	Crude Rate	Age-Adjusted Rate
Illinois	2014	7,913	0.2	0.1	0.1
Adams	2014	44	0.1	0.1	0.1
Alexander	2014	0	0	0	0
Bond	2014	15	0.2	0.1	0.1
Boone	2014	18	0.1	0	0
Brown	2014	1 to 10			
Bureau	2014	16	0.1	0.1	0.1
Calhoun	2014	1 to 10			
Carroll	2014	1 to 10			
Cass	2014	11	0.2	0.1	0.1
Champaign	2014	111	0.2	0.1	0.1
Christian	2014	24	0.1	0.1	0.1
Clark	2014	1 to 10			

Area	Year(s)	Count	Rate	Crude Rate	Age-Adjusted Rate
Clay	2014	1 to 10			
Clinton	2014	14	0.2	0	0
Coles	2014	42	0.2	0.1	0.1
Cook	2014	3,677	0.2	0.1	0.1
Crawford	2014	13	0.2	0.1	0.1
Cumberland	2014	1 to 10			
Dekalb	2014	50	0.1	0.1	0.1
Dewitt	2014	1 to 10			
Douglas	2014	1 to 10			
DuPage	2014	453	0.2	0.1	0.1
Edgar	2014	20	0.2	0.1	0.1
Edwards	2014	1 to 10			
Effingham	2014	23	0.2	0.1	0.1
Fayette	2014	20	0.3	0.1	0.1
Ford	2014	12	0.3	0.1	0.1
Franklin	2014	21	0.1	0.1	0.1
Fulton	2014	36	0.2	0.1	0.1
Gallatin	2014	1 to 10			
Greene	2014	11	0.2	0.1	0.1
Grundy	2014	28	0.1	0.1	0.1
Hamilton	2014	1 to 10			
Hancock	2014	1 to 10			
Hardin	2014	17	0.5	0.4	0.5
Henderson	2014	1 to 10			
Henry	2014	19	0.1	0	0
Iroquois	2014	21	0.2	0.1	0.1
Jackson	2014	29	0.1	0.1	0.1
Jasper	2014	1 to 10			
Jefferson	2014	29	0.1	0.1	0.1
Jersey	2014	16	0.2	0.1	0.1
Jo Daviess	2014	1 to 10			
Johnson	2014	1 to 10			
Kane	2014	238	0.2	0.1	0
Kankakee	2014	88	0.2	0.1	0.1
Kendall	2014	51	0.2	0	0
Knox	2014	34	0.1	0.1	0.1
Lake	2014	326	0.2	0.1	0
Lasalle	2014	76	0.2	0.1	0.1
Lawrence	2014	13	0.3	0.1	0.1
Lee	2014	16	0.1	0.1	0.1

Area	Year(s)	Count	Rate	Crude Rate	Age-Adjusted Rate
Livingston	2014	22	0.2	0.1	0.1
Logan	2014	19	0.1	0.1	0.1
Macon	2014	54	0.1	0.1	0
Macoupin	2014	24	0.1	0.1	0.1
Madison	2014	218	0.2	0.1	0.1
Marion	2014	46	0.2	0.1	0.1
Marshall	2014	1 to 10			
Mason	2014	1 to 10			
Massac	2014	1 to 10			
McDonough	2014	13	0.1	0	0
McHenry	2014	173	0.2	0.1	0.1
McLean	2014	66	0.1	0	0
Menard	2014	1 to 10			
Mercer	2014	1 to 10			
Monroe	2014	1 to 10			
Montgomery	2014	15	0.1	0.1	0
Morgan	2014	14	0.1	0	0
Moultrie	2014	1 to 10			
Ogle	2014	31	0.2	0.1	0.1
Peoria	2014	106	0.1	0.1	0.1
Perry	2014	1 to 10			
Piatt	2014	12	0.3	0.1	0.1
Pike	2014	1 to 10			
Pope	2014	0	0	0	0
Pulaski	2014	0	0	0	0
Putnam	2014	1 to 10			
Randolph	2014	27	0.2	0.1	0.1
Richland	2014	1 to 10			
Rock Island	2014	76	0.1	0.1	0.1
Saline	2014	18	0.2	0.1	0.1
Sangamon	2014	132	0.2	0.1	0.1
Schuyler	2014	0	0	0	0
Scott	2014	1 to 10			
Shelby	2014	1 to 10			
St. Clair	2014	105	0.1	0	0
Stark	2014	0	0	0	0
Stephenson	2014	17	0.1	0	0.1
Tazewell	2014	91	0.2	0.1	0.1
Union	2014	1 to 10			
Vermilion	2014	59	0.2	0.1	0.1

Area	Year(s)	Count	Rate	Crude Rate	Age-Adjusted Rate
Wabash	2014	1 to 10			
Warren	2014	1 to 10			
Washington	2014	1 to 10			
Wayne	2014	14	0.2	0.1	0.1
White	2014	12	0.2	0.1	0.1
Whiteside	2014	47	0.2	0.1	0.1
Will	2014	378	0.2	0.1	0.1
Williamson	2014	31	0.1	0.1	0
Winnebago	2014	280	0.2	0.1	0.1
Woodford	2014	12	0.1	0	0

Crude Rate is the number of occurrences in a specified population period. It is expressed as the number of cases per 100.

Age-Adjusted Rate is a statistical process applied to rates of disease, death, injuries or other health outcomes which allows communities with different age structures to be compared. Age-Adjusted Rate is expressed as the number of cases per 100 with confidence level.

Source: IQuery, Illinois Department of Public Health
Sat Nov 18 2017 11:53:16 GMT-0600 (Central Standard Time)