



# **2019 IN911 INdigital Annual Board Report**



# table of contents

<b>INdigital G-19 ESiNet summary</b>	<b>3</b>
<b>PSAP news</b>	<b>4</b>
<b>Wireless calls</b>	<b>5</b>
<b>Translation services</b>	<b>6</b>
<b>Texty service</b>	<b>7</b>
<b>Help desk support analysis</b>	<b>8</b>
<b>Event analysis</b>	<b>9</b>
<b>Appendix</b>	<b>10</b>



## ESiNet Summary

*(Please refer to graph A-1.1 in the appendix)*

### Summary of work done in 2019

INdigital made several changes to improve the G-15 ESiNet network. While making these changes work was in progress to buildout the G-19 ESiNet that subsequently replaced the G-15 network. Testing was continuously conducted on the G-19 network until it was placed into production with improvements made as those were identified. 911 Authority and Ritter Strategic Services received updates during the buildout and testing as well as during the move to production.

### G-19 ESiNet timeline

Discussions started early in 2019 on updating the Indiana ESiNet to what is now known as the G-19 network. Shortly after beginning discussion of updating the Indiana network, INdigital experienced a Cisco ASR failure. As a result of this failure, it was evident that updating the Indiana ESiNet was necessary. Building the new network began almost immediately after the failure, followed by months of testing. After successful completion of all testing, September was determined as the month we will turn up the G-19 network and turn down the G-15 network. The final steps of this work is being completed with the movement of the ESRPs into the G-19 network. A timeline in the appendix has been developed to navigate the ESiNet update timeline.



## 2020 Expectations

During the 2020 calendar year, INdigital will continue to work on the fully implementation of the G-19 ESiNet as well as all of the features and benefits of the network. One such benefit is geo-routing of 911 calls, which will allow public safety officials to designate areas for specific 911 call routing. Calls in these geo-fenced areas can be routed to a specific position in the 911 center or to a remote location such as mobile communications vehicle or backup center. Columbia City, Indiana is the first site in Indiana to test geo-routing on the G-19 network.

INdigital has always taken a proactive approach to cyber security. As it becomes more and more prevalent in our industry with public safety agencies becoming more frequently targeted by bad actors. INdigital again is taking more aggressive steps to mitigate the risk of our systems and protect our customers. We are preparing for a Statement on Standards for Attestation Engagements (SSAE18) System and Organization Controls Type 2 (SOC2) audit of our National Service Operations Center (NSOC). This audit will evaluate our business practices, access controls, policies and procedures supporting the NSOC. As part of the preparation for this audit we have engaged with SecuLore Solutions to have their Cyber Benchmark 3rd party assessment conducted. In addition to this engagement we are investigating a further ongoing partnership with SecuLore Solutions to provide 3rd party oversight and remediation assistance to further identify threat vectors and enhance INdigital's defense in depth strategy.

Continued work is needed for the NNI such as purchasing the last of the circuits and buildout. After the buildout of the NNI, continued testing will be conducted until such time testing is completed and approved by all parties. We continue to support AT&T in the buildout of their ESiNet in Indiana. Late in 2019, AT&T provided us with the connection point locations in Alabama and Michigan for the Network to Network Interface (NNI). These connection points need connections back to our data centers in Indiana. INdigital designed a network back to Indiana and submitted those plans for approval. Before the end of 2019 the most critical circuits were ordered with the rest orders shortly after the first of the year.



## **PSAP news**

We are very proud to serve Indiana PSAPs and the citizens of our home state. Our goal is to continue to evolve to provide the best 911 service and technology available in the Country. Over the past year our State Service Manager Lori Forrer worked tirelessly to support our PSAP community. She directly visited 39 PSAPs and spent over 30 additional days supporting training, PSAP meetings, and industry conferences just in Indiana. She is always anxious to meet, facilitate information sharing, and solve complex problems.

To maintain this type of commitment to personal service with our PSAPs. We've added Shane Rekeweg as our Indiana Market Manager. Shane comes with years of experience in law enforcement and PSAP oversight. For those that do not know, he is also very passionate about new uses for technology in Public Safety.

Our goal is to constantly improve and evolve with our Indiana PSAPs. We think we have a great team of leadership and support staff to continue to serve IN911. Below are a couple of highlights from last year.

### **Notable 2019 events**

All of the Indiana State Police (ISP) posts that handle 911 calls have had new call answering equipment installed by the mid 2019 year. Additionally, Owen County was brought onto the IN911 network and the Indianapolis International Airport received two (2) MEVO phones as part of their backup.

In mid-2019 Vigo Co. suffered from a malware attack, Spencer Co. had a severe lighting strike to their dispatch center, and AT&T Mobility had an outage that affected call delivery to the vast majority of Indiana. Each of these events involving Vigo Co. and Spencer Co. had an impact on operations although there were no reported effects on 911 call delivery. The AT&T Mobility outage did have an effect on 911 call delivery although the number of calls that were not delivered has not yet been revealed.

Jefferson and Rush Counties are both in the process of moving their 911 centers sometime in 2020. This has been a long process for both of these counties and INdigital continues to support them in the move.



Marion County (Indy Metro) reported issues with call routing, with wireless calls overflowing to their alternate routing number. After an investigation from INdigital an increase of trunks were added to Marion County to support the increase of wireless 911 calls.

In 2019 INdigital added One-Call Now Service as an additional method of communicating important messages to key public safety personnel. PSAP Directors and staff may enroll in receiving these communications. In 2020 we will be adding another key piece of this mass communication system which is sending messages to the ISP. ISP will then re-send these messages over their IDACS system to all terminals in the State of Indiana. Currently there are 172 members enrolled to receive messages from One-Call.

During 2019 the busiest week for PSAPs was the first week of June with 85,200 911 calls made. March 31, 2019 was the busiest day for PSAPs for the year with 17,415 calls processed by IN911.

## Wireless calls

*(Please refer to graph C-1.1 in the appendix)*



Wireless call volumes for Indiana remained fairly constant examining call volumes for years 2017, 2018, 2019 for totals of 3,277,434, 3,178,432, and 3,839,342 respectively.

Since the start of the IN911 network in 2006, 40,007,688 wireless calls have been processed on the IN911 network.

Over the past 13 years, the IN911 network has averaged 3,003,136 calls and has seen an annual increase in call volume of 2.52%.



Usage by the top five counties (Marion, Howard, Allen, Elkhart, and Tippecanoe) remained consistent with prior periods. Spanish counts for the last three quarters of this year totals are 6,682 with 36,262 minutes of usage.

Non-Spanish translation has similar month to month trends, with the top five counties (Allen, Marion, Howard, Tippecanoe, and LaPorte). Non-spanish usage for the first three quarters total 619 sessions with 3,725 minutes.

In 2019 Spanish was the most frequently translated language with Burmese, Mandarin, Haitian Creole, and Swahili wrapping up as the top five languages translated. In all, there were 48 different languages translated by Indiana PSAPs in 2019.



## Texty services

*(Please refer to graph E-1.1 through E-1.4 in the appendix)*



The Texty platform was updated to 17.0.0.2 early in 2019. As a result of that improvement dispatchers will see benefits of Barge/Conference/Transfer as well as display of the carrier information. Additionally, sessions can be transferred from one PSAP to another giving this version's further enhancements to the Texty service. Additionally, PSAPs could query supplemental data from the Rapid SOS clearinghouse in this release. Indiana was the first state to have statewide access to the Rapid SOS services.

In 2019 there were 10,397 inbound text sessions received by 99 PSAPs within the State of Indiana. Additionally, outbound text sessions for 2019 totaled 260,881, sent from 113 PSAPs within the State of Indiana.

A future version of Texty 17.0.0.3 supports RapidSOS manual lookup in addition to giving the dispatcher the ability to "Rebid" location information from RapidSOS. Dispatchers will also have the ability to see who's logged into Texty at their center for call transfers.

The next version, 17.0.0.4 will have the ability to support language translation although this version is currently in QA testing. Finally version 17.0.0.5 supports supplemental (uber app) and additional data developed in applications.



## Help desk ticket analysis

*(Please refer to graphs F-1.1 through F-1.4 in the appendix)*

INdigital's growth over the last decade has allowed for the deployment of National Service Operations Center (NSOC) to meet the 24x7x365 needs of the PSAPs. NSOC staff is entirely dedicated to support 911 services and INdigital technologies. The company continues to evolve and provide new products, services, and systems to support the complexities of Next Generation 911. Work is always fresh at the NSOC.

Rob Fisher is the NSOC manager and is always at the ready to improve services provided. Rob and the NSOC can be reached at 877-469-2010 anytime.

Support tickets for 2019 in the IN911 network has seen light increases in all areas except for eCats, VPN, Maintenance, and IDACS. Areas such as eCats, and VPN seen a decrease in support for 2019 as compared to 2018. Maintenance has seen an increase as a result of the G-19 ESiNet buildout although we expect to see this number to decrease to previous levels. IDACS is a new field we are tracking therefore there is not much historical data at this point.

Overall in 2019 INdigital's support to the PSAPs for all types of service has seen steady increase except for Database and Training related support. Database has seen a decrease as a result of no new counties coming onto the network, whereas training has seen a decrease as a result of no new products or updates to products that require training in 2019 except for Texty.

Carrier support tickets have seen more than double the number of support tickets than seen in 2018. Carriers such as Centurylink, Comcast, Com Tech, Intelligent Fiber Network, US Signal, and West Safety Services have seen the most dramatic increases in support. Some but not all of these increases can be contributed to the buildout of the G-19 as well as the turndown of the G-15 networks. Further tracking of these carriers will be needed to determine



## Event analysis

*(Please refer to graphs G-1.1 through G-1.4 in the appendix)*

1. The first Indiana snow storm event on November 11, 2019 produced over 5,000 more calls than normally seen statewide.
2. There were 424 911 calls during the Indiana State Fair from August 2-18, 2019.
3. On May 23, 2019 Severe Storms in northern Indiana created about 1,000 extra 911 calls as a result of 80 mph winds and heavy tree damage.
4. Tractor trailer fire on February 20, 2020 at I-70 / I-465 in Indianapolis, Indiana. Marion Co PSAP received 158 911 calls in approximately a 10 minute period shortly before 2:00 pm.

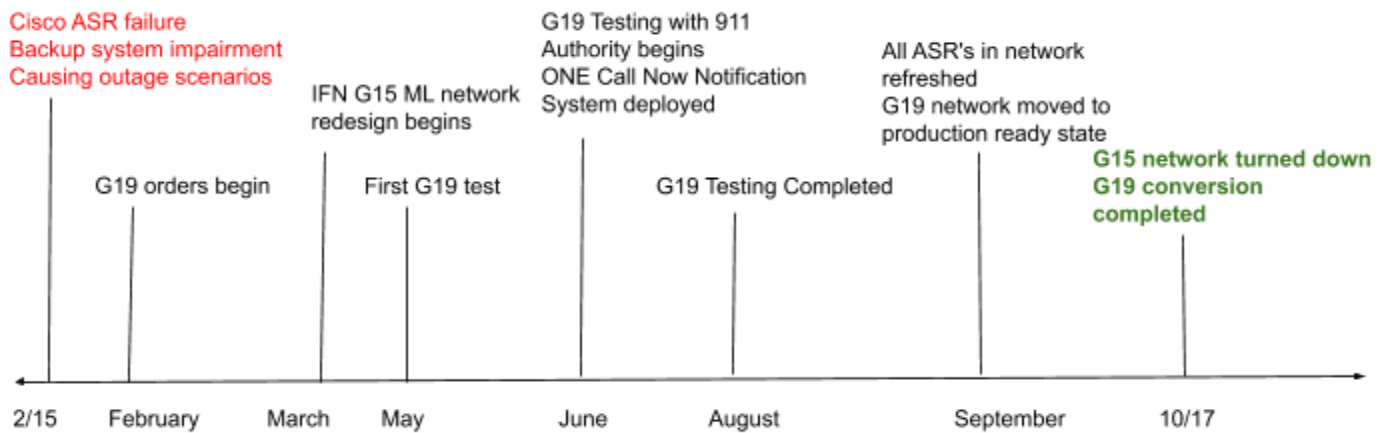
INdigital is celebrating its 25th Anniversary this year. INdigital was incorporated on June 6, 1995.



## Appendix

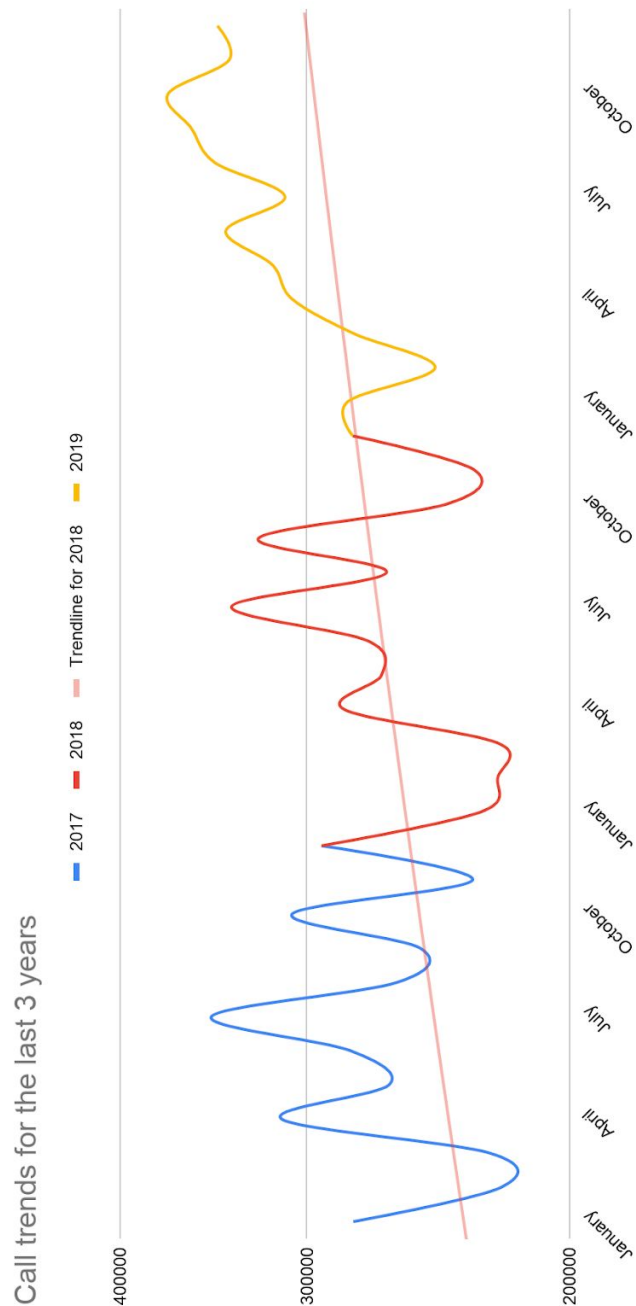
### Graph A-1.1

Timeline for the IN911 G-19 ESiNet.



## Graph C-1.1

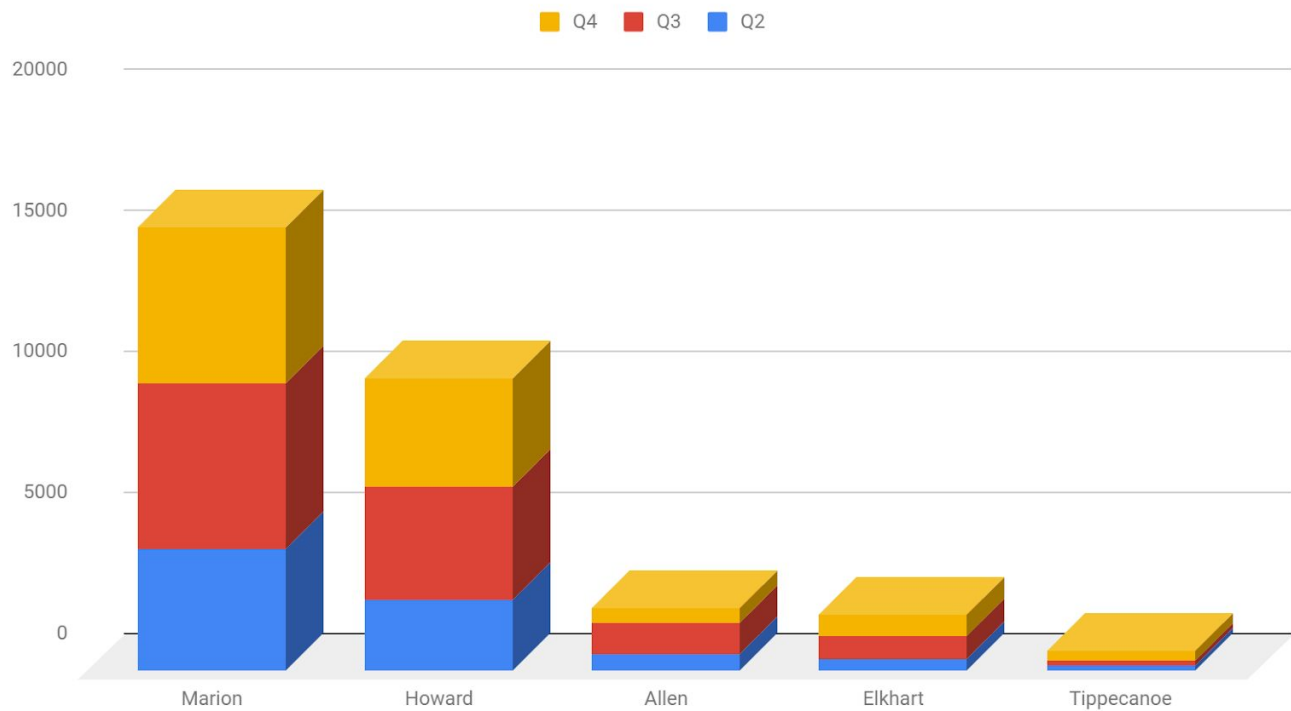
Call volume from 2017 to September 2019.



## Graph D-1.1

Counties with the top 5 Spanish translation minutes.

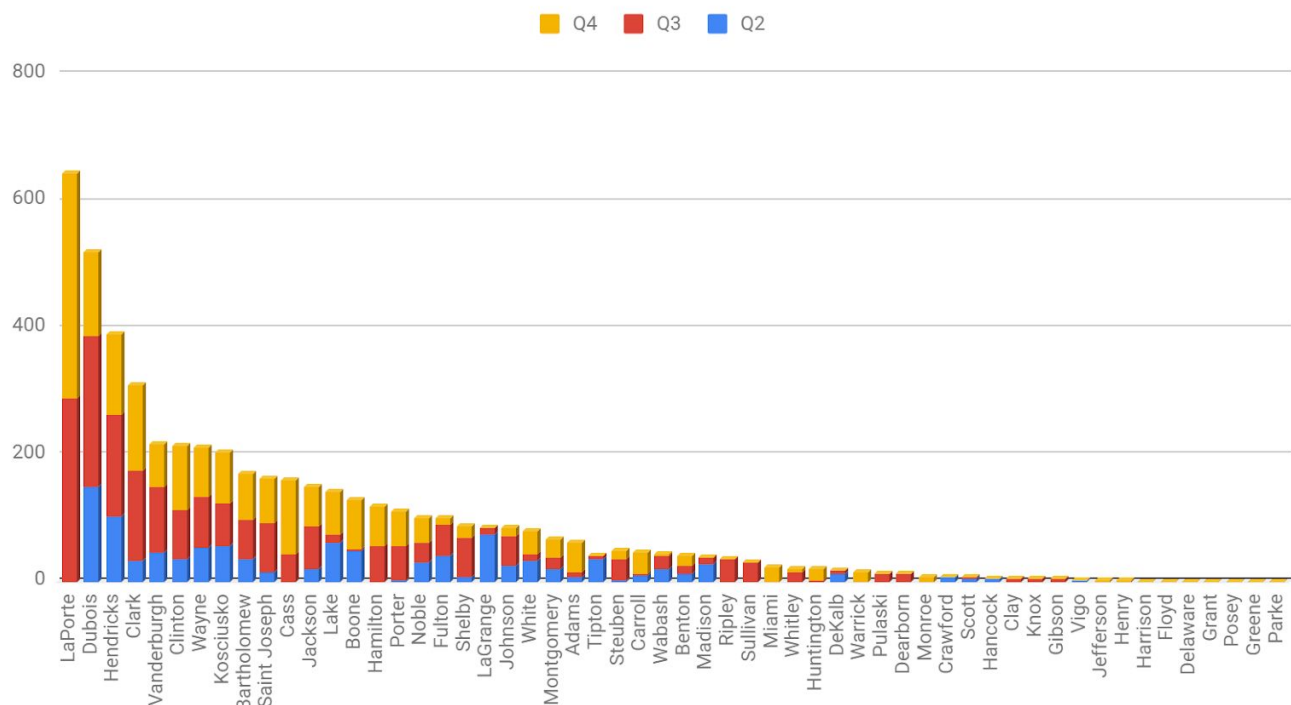
Spanish total minutes (top 5)



## Graph D-1.2

All other counties with spanish translation in minutes.

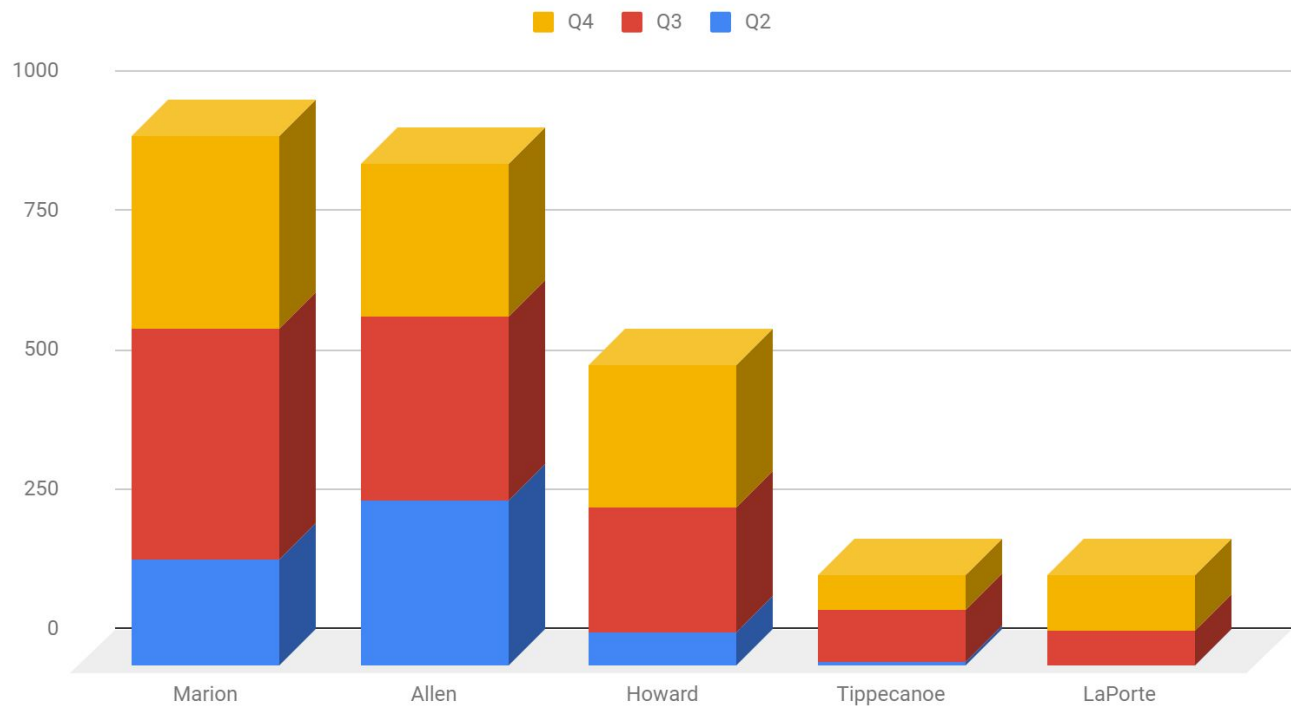
Spanish total minutes (balance of counties)



## Graph D-1.3

Counties with the top 5 non-Spanish translation minutes.

Non-Spanish total minutes (top 5)

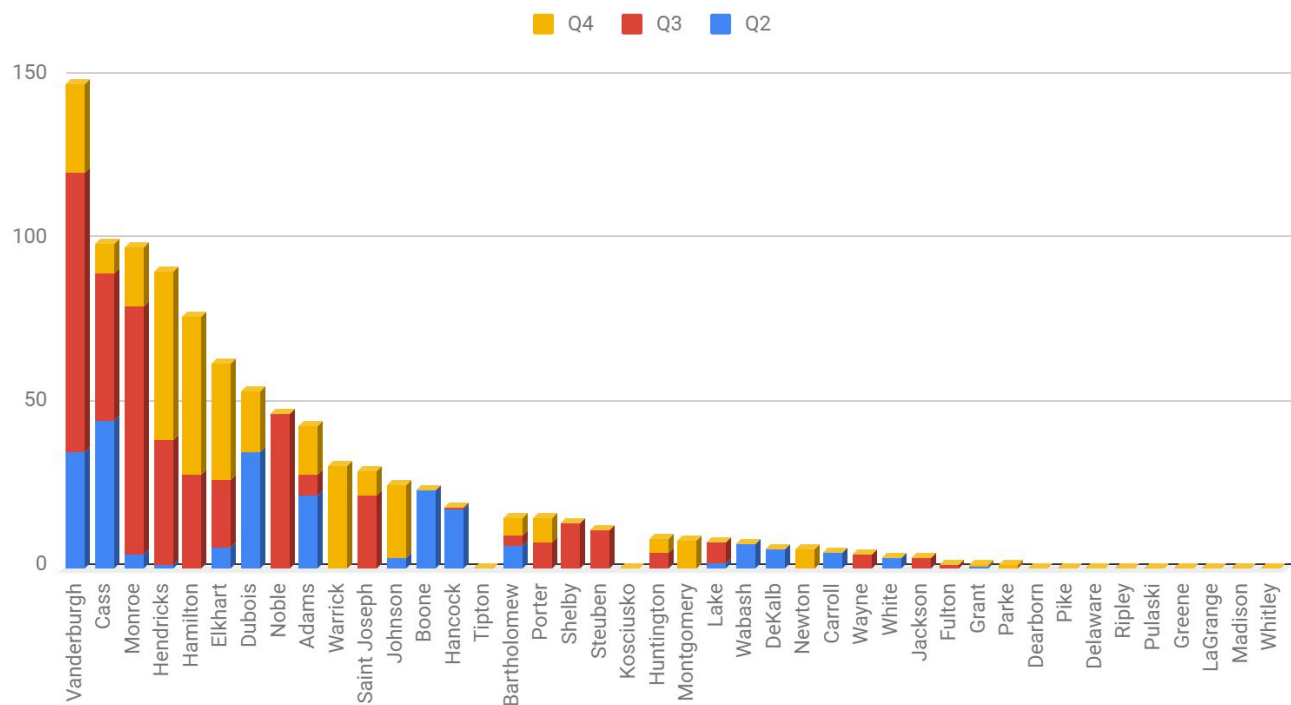




## Graph D-1.4

All other counties with non-spanish translation minutes.

Non-Spanish total minutes (balance of counties)



## Graph D-1.5

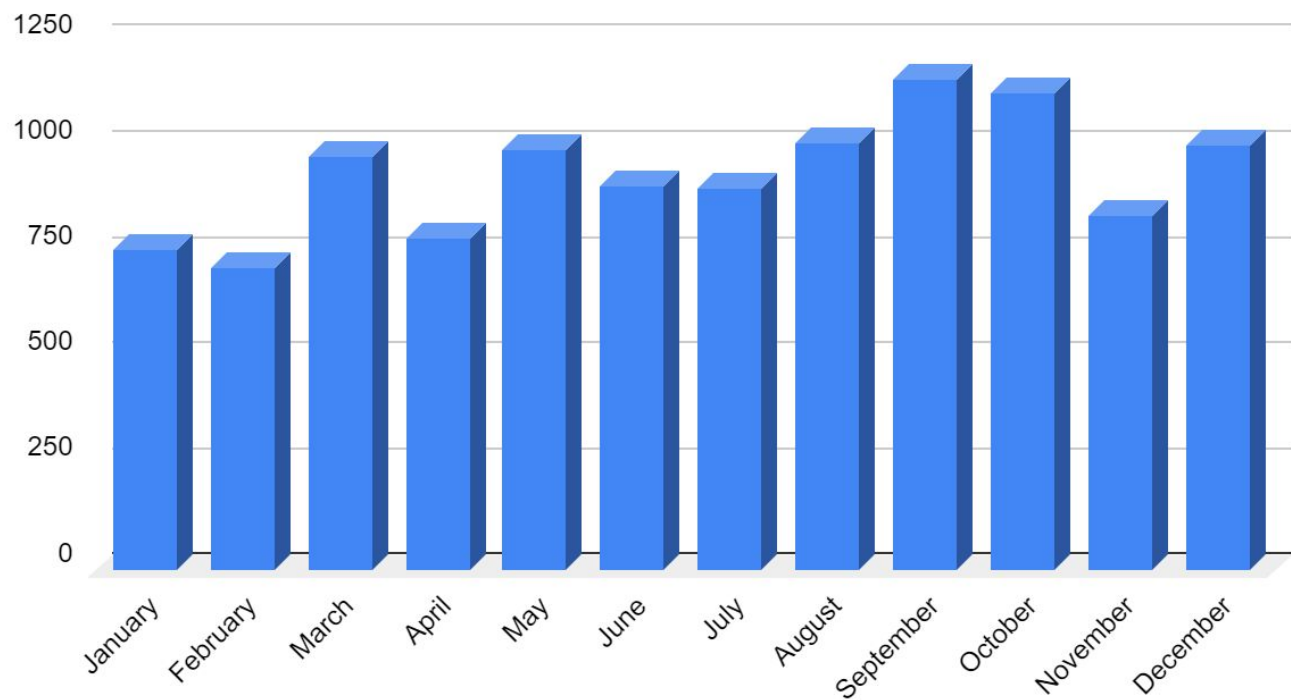
Total minutes of each language used in 2019.

Language	Annual Total	Language	Annual Total
SPANISH	36,262	PORTUGUESE	23
BURMESE	1934	CROATIAN	22
MANDARIN	1060	SERBIAN	20
HAITIAN CREOLE	669	YORUBA	17
SWAHILI	548	AMHARIC	13
FRENCH	514	BOSNIAN	13
CHIN	394	NEPALI	13
ROMANIAN	280	MONGOLIAN	12
ARABIC	264	TURKISH	12
VIETNAMESE	219	DARI	10
PUNJABI	215	Nigerian Pidgin	10
RUSSIAN	193	ENGLISH	9
TIGRINYA	165	ZO	9
JAPANESE	141	CANTONESE	8
HINDI	124	GERMAN	8
SOMALI	117	GREEK	8
KINYARWANDA	115	URDU	8
POLISH	88	GUJARATI	7
Portuguese Br.	50	MOROCCAN ARABIC	6
ROHINGYA	50	TAMIL	5
KAREN	46	AFRIKAANS	4
KOREAN	46	TAGALOG	4
ALBANIAN	25	CAMBODIAN	3
BENGALI	24		

## Graph E-1.1

All Inbound Text to 911 by month.

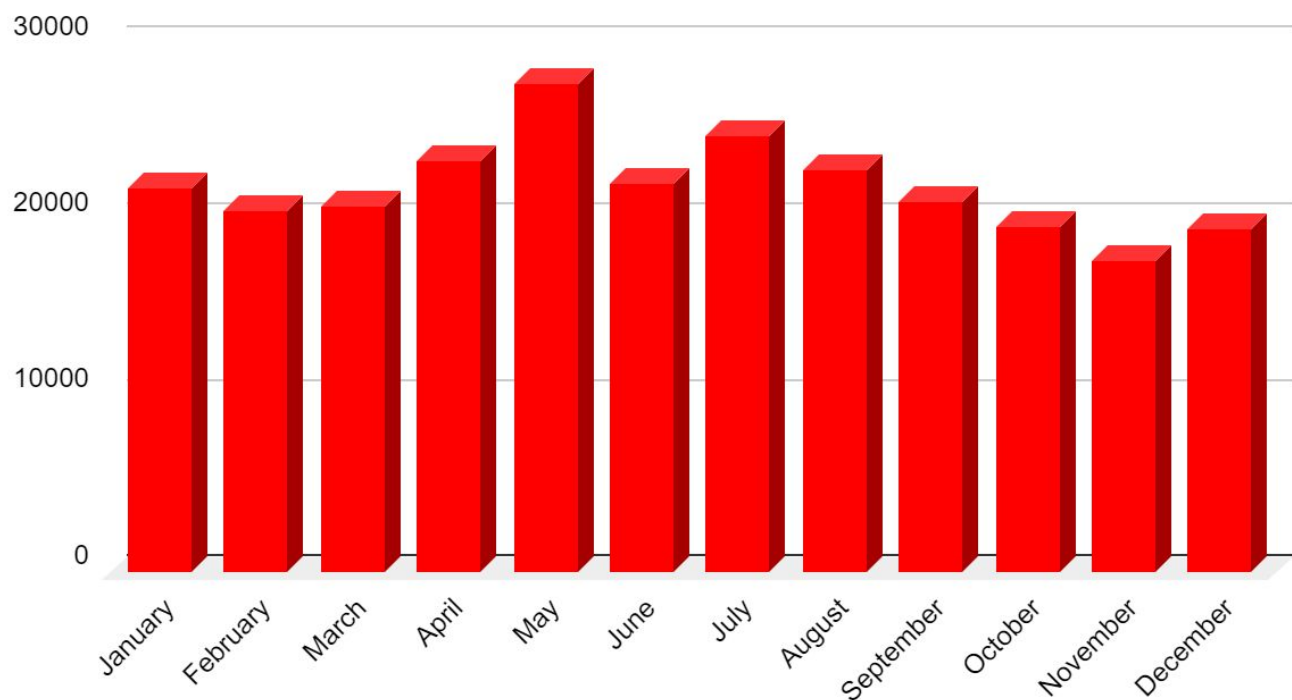
### Total Inbound Text Sessions



## Graph E-1.2

All Outbound Text from 911 by month.

### Total Outbound Text Sessions



## Graph E-1.3

All Inbound Text to 911 by PSAP.

Inbound Text to 911		100 +		10,397		40 - 99		20 - 39		< 20	
IMC-SD (Indianapolis-Marion County Sheri		3072	Floyd County Sheriff's Department	84	Huntington County Sheriff's Office	39	Dearborn County				
Lake County Sheriff's Office		634	Jackson County 911	80	Jefferson County 911	39	Wabash County Central Dispatch				
Allen County Sheriff's Department		533	Boone County Sheriff's Department	77	Steuben County 911	38	Gibson County Sheriff's Department				
Vanderburgh County Central Dispatch		497	Hancock County Emergency Operations C	74	Jasper County Sheriff's Office	37	Posey County 911				
St Joseph County Police Department		489	Grant County Sheriff's Department	70	LaGrange County Communications	37	Franklin County Communications E-911				
Elkhart County 911 Center		355	Howard County Sheriff Department	61	Noble County Sheriff's Department	37	Stark County Sheriff's Office				
Vigo County 911		320	Morgan County 911	60	Clinton County 911	36	Fountain/Warren County Regional Dispatc				
Kosciusko County		259	Harrison County Sheriff's Department Dispx	58	Warrick County Sheriff's Office	35	Brown County Sheriff's Department				
Lafayette Police Department		217	Jennings County 911	57	DeKalb County Sheriff's Department	33	Jay County Sheriff Department				
Hamilton County Sheriff's Office Dispatch		210	Shelby County Sheriff's Department	57	Knox County Dispatch Office	33	Parke County 911				
Wayne County Emergency Communication		208	White County	56	Cass County E911	32	Schererville Police Department				
Bartholomew County Emergency Operator		189	Ripley County E-911 Communications	47	Decatur County Sheriff's Department	32	Greene County Sheriff's Office				
Monroe County Central Dispatch		189	Henry County Emergency Services	46	Adams County Sheriff Department	29	Union County 911				
LaPorte County 911 Communications		149	Tiptecanoe County Sheriff's Office	46	Fulton County Communications	29	Pike County Sheriff's Office				
Madison County Sheriff's Office		143	Clay County Justice Center	45	Lawrence County Sheriff's Office	29	Blackford County Central Dispatch				
Delaware County Emer. Com. Center		142	Dubois County Communications Center	42	Whitley County Communications Center	29	Marion Co Indy FD				
Johnson County Sheriff's Department		141			Marshall County Police Department	27	Newton County 911				
Hendricks County Communications Center		132			Tipton County E911	25	Orange County Sheriff's Department				
Indigital Text Test PSAP		119			Miami County 911	24	Davess County 911				
Clark County 911 Center		114			Pulham County Sheriff's Office	23	Rush County Sheriff's Department				
Porter County Sheriff's Office		112			Scott County Emergency Communications	23	Pulaski County Sheriff's Office				
Montgomery County / Crawfordsville E911		111			Carroll County E911	22	Sullivan County 911				
					Fayette County Communications	22	Switzerland County Communication				
					Bluffton Police Department (Wells County)	21	Vermillion County Sheriff's Office				
					Owen County Sheriff's Office	21	Jasper Police Department				
					Spencer County 911	21	Washington County Sheriff's Office				
					Randolph County Communications	20	Bedford Police Department				
							Benton County Jail/Sheriff's Office				
							Crawford County Central Dispatch				
							Elkhart City Police Department				
							Martin County Sheriff's Department				
							Rushville Police Department				
							Speedway Police				

## Graph E-1.4

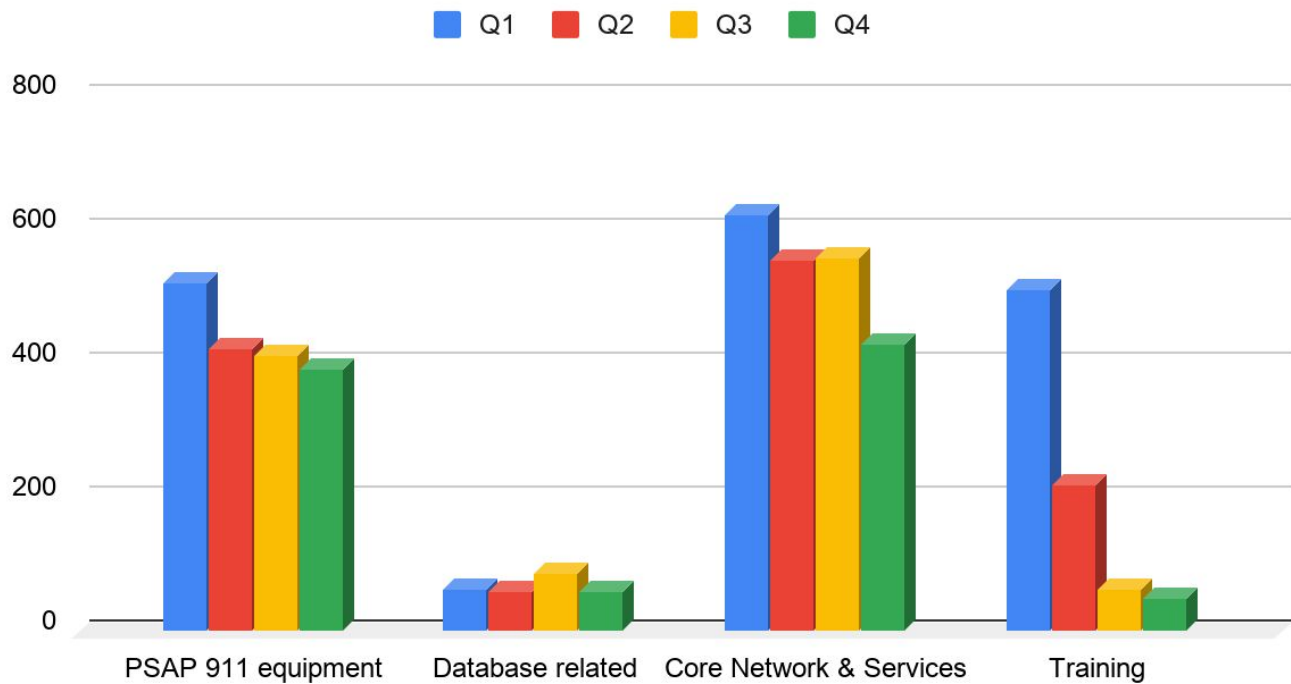
All Outbound Text from 911 by PSAP.

Outbound Text from 911			260 881			600 - 1,599			100 - 599			< 100		
1,600 +														
IMC-SD (Indianapolis-Marion County Sheri	77385		Morgan County 911	1540		Brown County Sheriff's Department	573		Rush County Sheriff's Department	97				
Allen County Sheriff's Department	18844		Clinton County 911	1510		Tippecanoe County Sheriff's Office	564		Warrick County Sheriff's Office	92				
Hamilton County Sheriff's Office Dispatch	13896		Marshall County Police Department	1505		Jackson County 911	534		Putnam County Sheriff's Office	90				
Elkhart County 911 Center	11373		Bluffton Police Department (Wells County)	1453		Elkhart City Police Department	495		Mooresville Police Department	87				
St. Joseph County Police Department	10178		Dearborn County	1446		Jennings County 911	481		Marion Co Ind. FD	83				
Lafayette Police Department	9216		Miami County 911	1433		Owen County Sheriff's Office	359		Indigital Text Test PSAP	74				
Monroe County Central Dispatch	8562		Madison County Sheriff's Office	1401		Decatur County Sheriff's Department	358		Fayette County Communications	71				
Lake County Sheriff's Office	8307		Shelby County Sheriff's Department	1386		Starke County Sheriff's Office	346		Benton County Jail/Sheriff's Office	58				
Clark County 911 Center	8063		LaPorte County 911 Communications	1369		Franklin County Communications E-911	327		Tipton County E911	56				
Wayne County Emergency Communication	5406		Steuben County 911	1355		Pulaski County Sheriff's Office	326		Tell City Police Department	44				
Porter County Sheriff's Office	5318		Spencer County 911	1289		Jasper County Sheriff's Office	311		Bedford Police Department	43				
Hancock County Emergency Operations C	4818		Purdue University Police Department	1107		Orange County Sheriff's Department	309		Seymour PD	40				
Vigo County 911	4701		Jay County Sheriff Department	953		Delaware County Emer. Com. Center	294		ISP ID 42 - Versailles (serving Versailles d	38				
Vanderburgh County Central Dispatch	4509		Henry County Emergency Services	894		Sullivan County 911	293		New Haven Police Department	32				
Hendricks County Communications Center	4349		DeKalb County Sheriff's Department	873		Newton County 911	269		Pike County Sheriff's Office	31				
Bartholomew County Emergency Operator	3962		Schererville Police Department	870		Knox County Dispatch Office	237		Davess County 911	30				
Grant County Sheriff's Department	2983		Whitley County Communications Center	862		Lowell Police Department	219		ISP ID 21 - Toll Road	28				
West Lafayette Police Department	2964		Jefferson County 911	849		Switzerland County Communication	219		Parke County 911	24				
Montgomery County / Crawfordville E911	2950		Fountain/Warren County Regional Dispatch	842		Floyd County Sheriff's Department	211		Batesville Police Department	18				
Kosciusko County	2587		Scott County Emergency Communications	839		Blackford County Central Dispatch	203		Columbia City Communications Center	18				
White County	2526		LaGrange County Communications	829		Randolph County Communications	201		Kendallville Police Department	18				
Crawford County Central Dispatch	2342		Huntington County Sheriff's Office	827		Harrison County Sheriff's Department Dispt	199		Gibson County Sheriff's Department	15				
Dubois County Communications Center	2196		Cass County E911	759		Washington County Sheriff's Office	151		ISP ID 22 - Fort Wayne (serving Fort Wayr	14				
Noble County Sheriff's Department	1844		Lawrence County Communications	741		Greene County Sheriff's Office	137		Jasper Police Department	10				
Boone County Sheriff's Department	1813		Fulton County Communications	740		Union County 911	137		Martin County Sheriff's Department	9				
Wabash County Central Dispatch	1695		Clay County Justice Center	677		Howard County Sheriff Department	123		Speedway Police	9				
			Ripley County E-911 Communications	651		Johnson County Sheriff's Department	110		Rushville Police Department	8				
			Carroll County E911	636		Ohio County Communications	100		ISP ID 33 - Blooming (serving Blooming	7				
			Adams County Sheriff Department	619					Vermillion County Sheriff's Office	3				
			Posey County 911	606										

## Graph F-1.1

Quarterly totals of trouble tickets for core support.

### Support Quarter Comparison (2019)

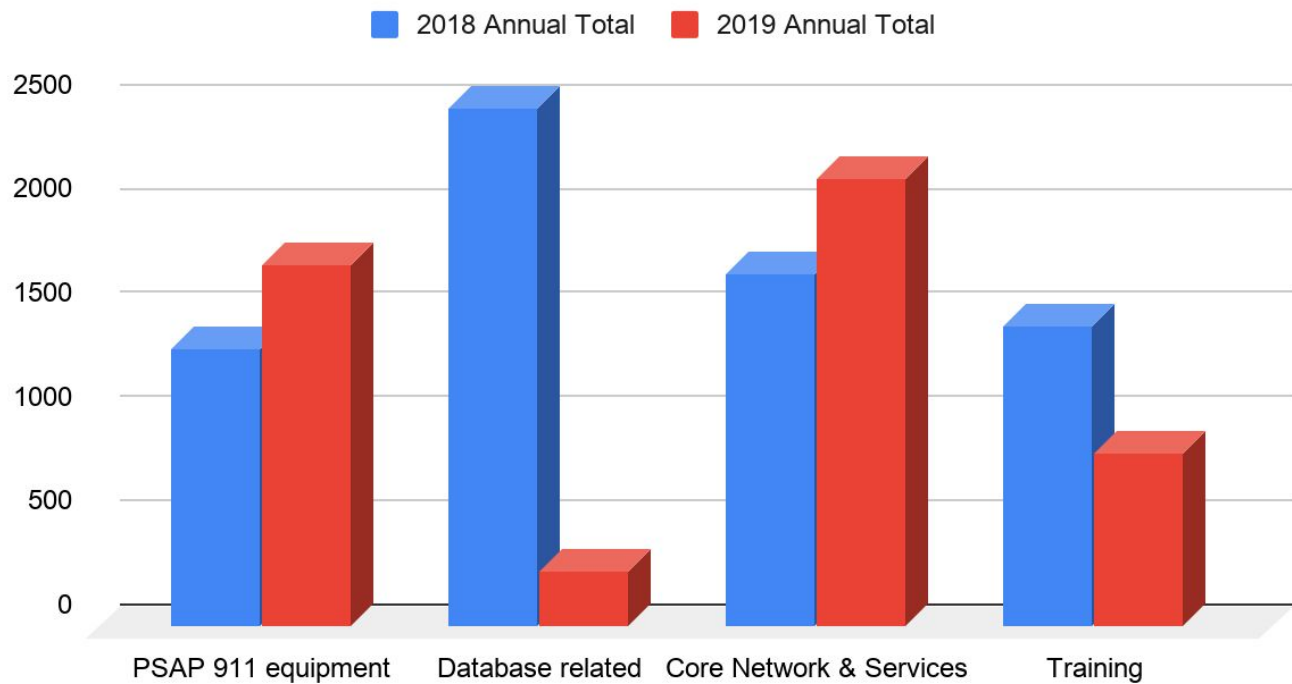




## Graph F-1.2

Annual comparison of core support.

### 2018 / 2019 Support Comparison Annual Comparison

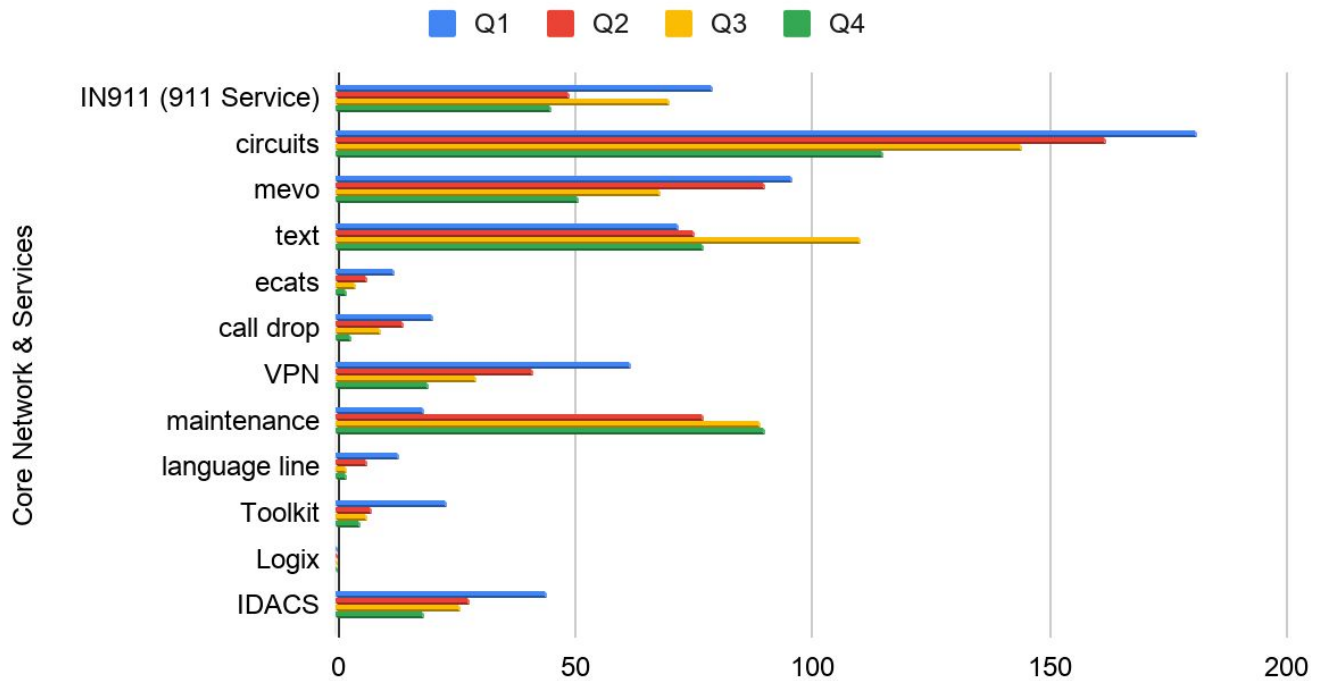




## Graph F-1.3

Quarterly totals of core network & service support totals.

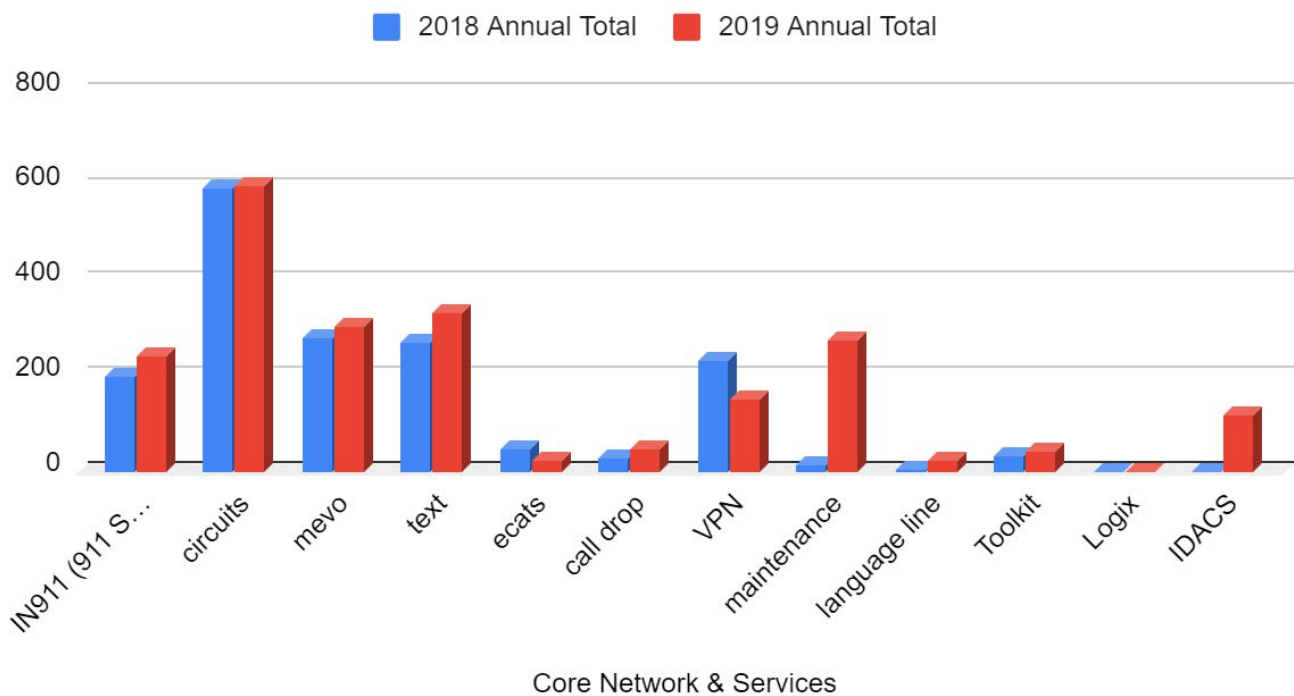
### Core Network & Services (2019)



## Graph F-1.4

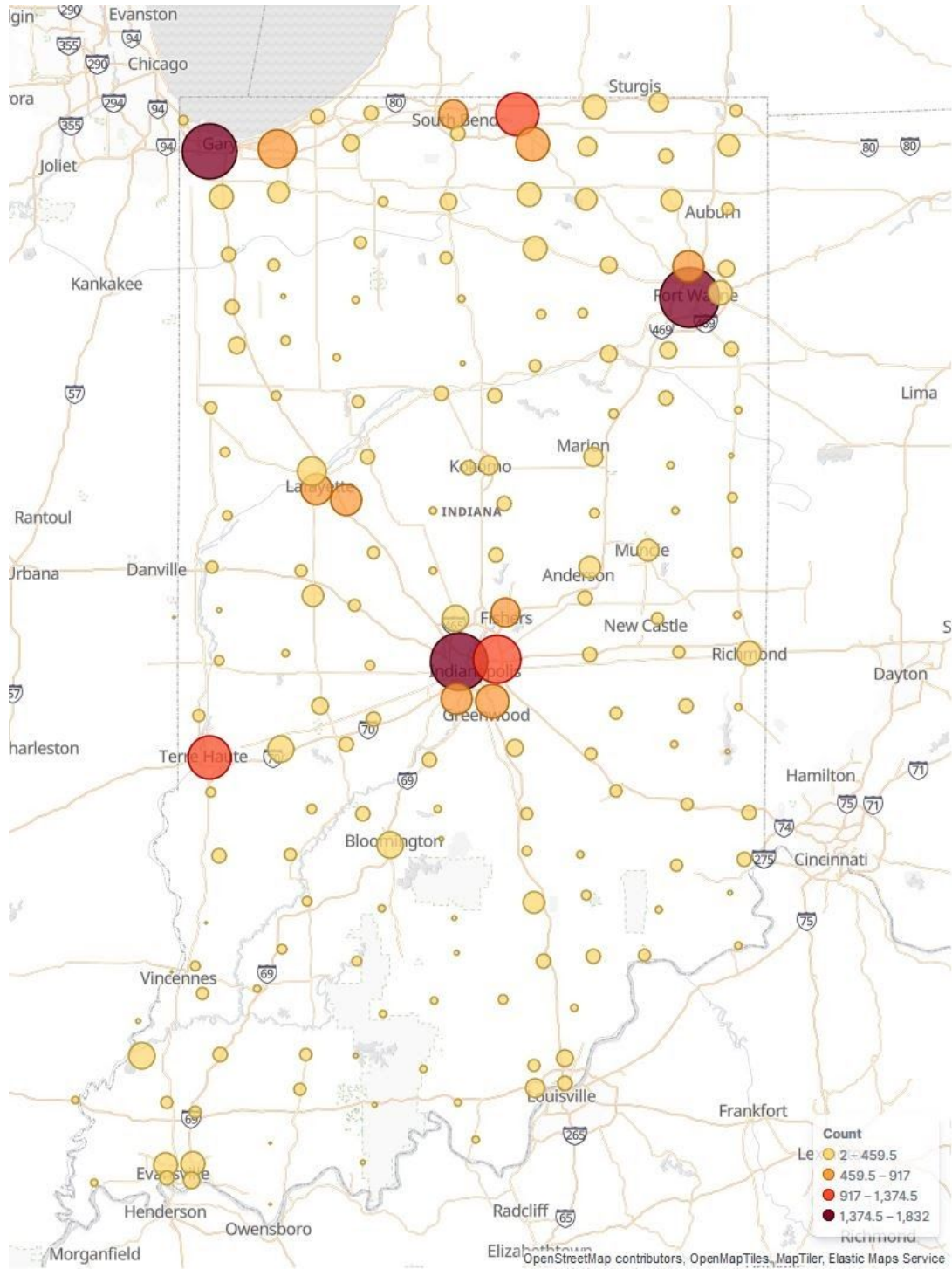
Annual comparison of core network services.

### 2018 / 2019 Core Network & Services Annual Comparison



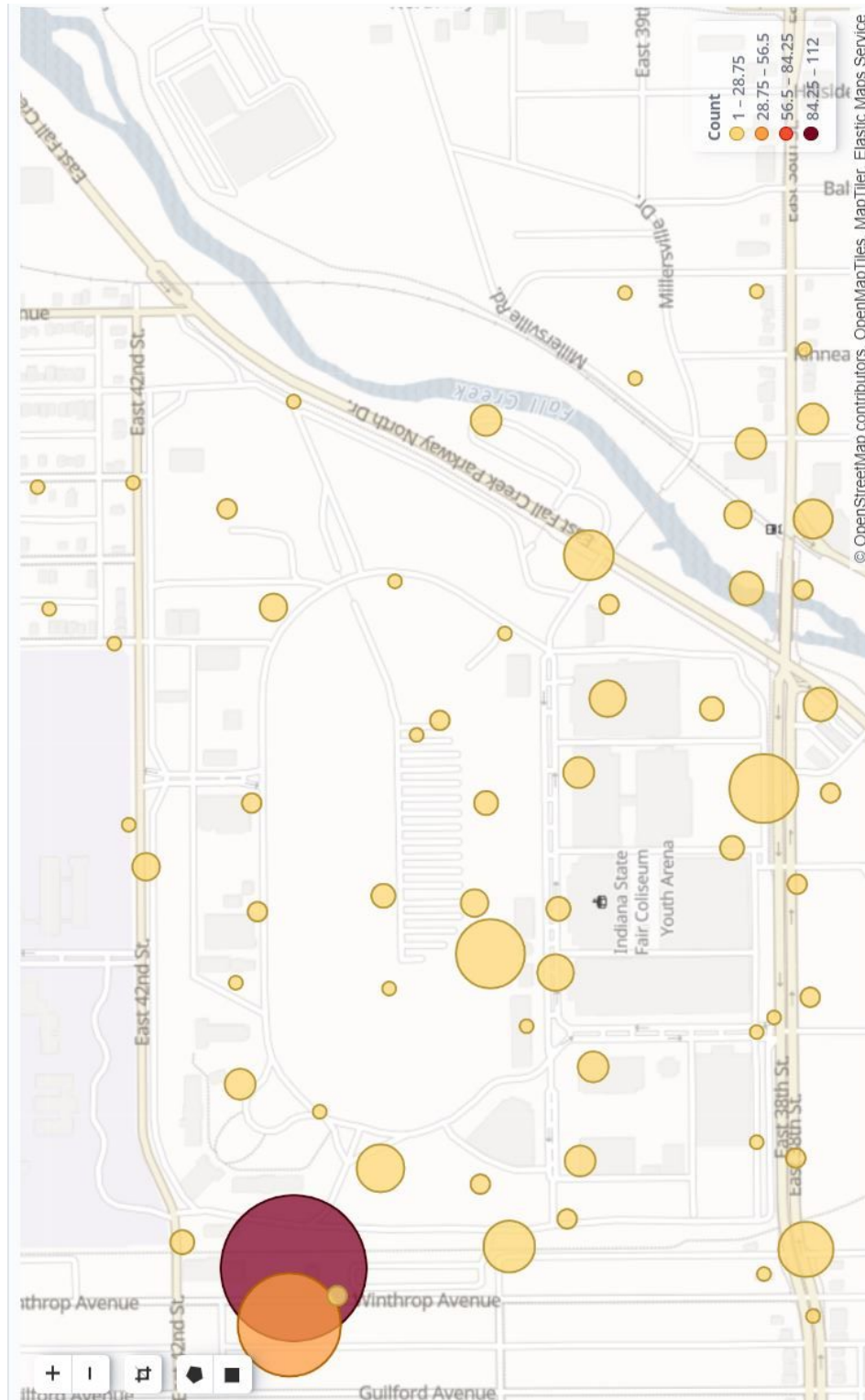
## Graph G-1.1 Event Analysis

Indiana's first snowstorm of the season.



### Graph G-1.2 Event Analysis

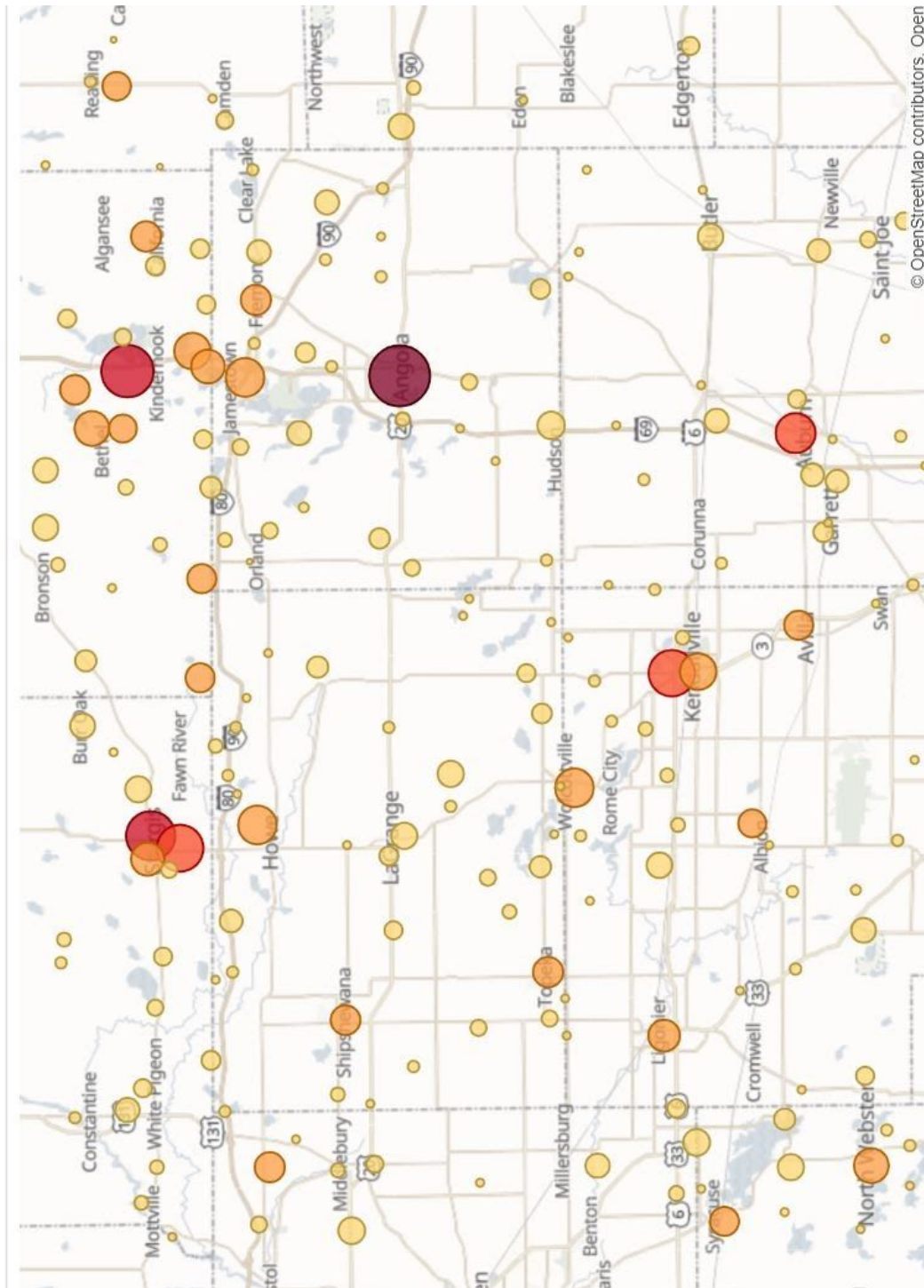
Indiana's State Fair Grounds.





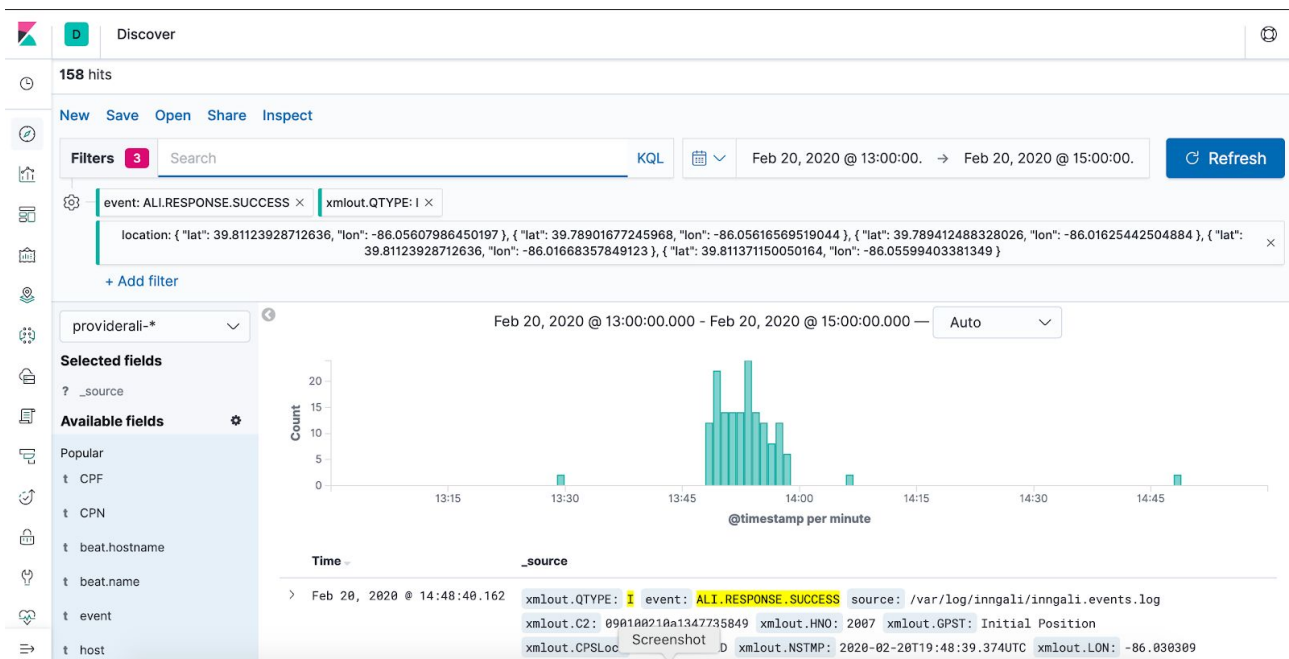
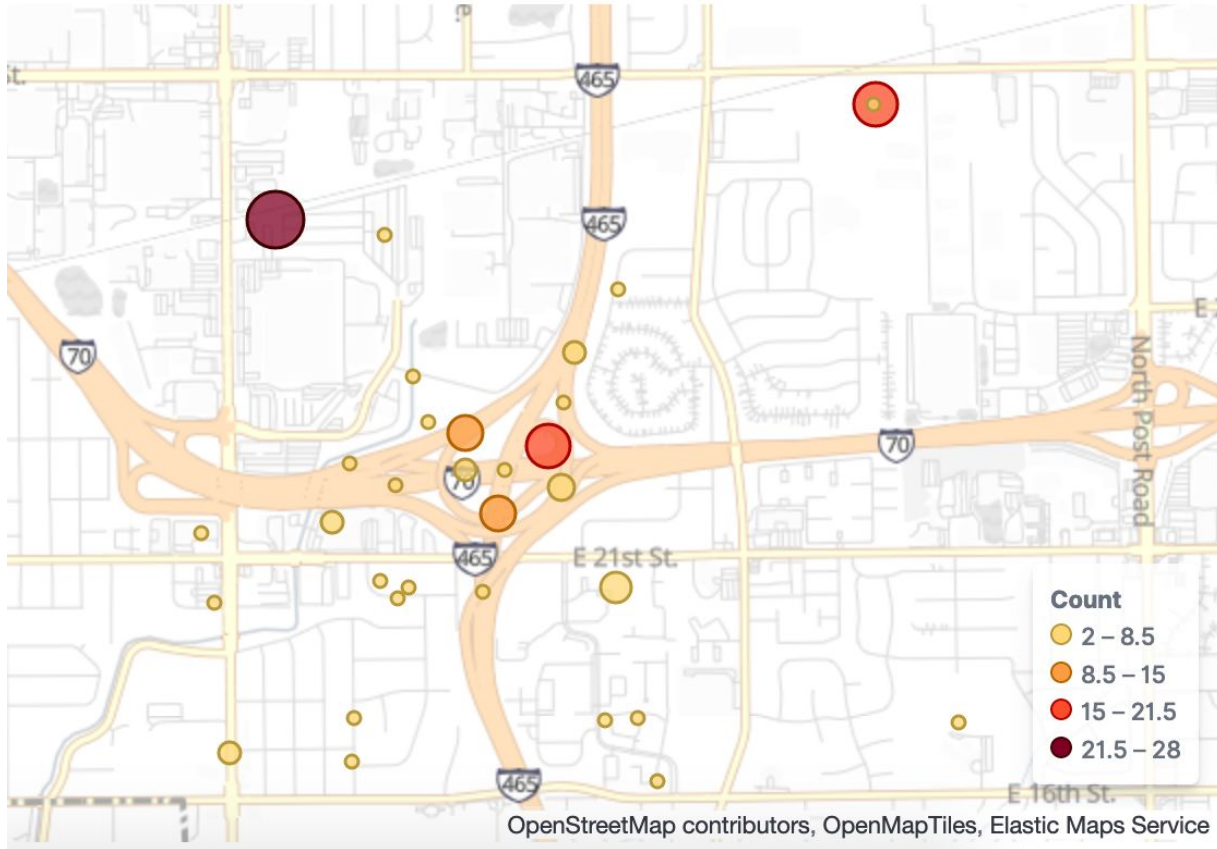
## Graph G-1.4 Event Analysis

Severe Thunderstorms May 23, 2019 in northern Indiana.



## Graph G-1.3 Event Analysis

Tractor Trailer Fire February 20, 2020 in Indianapolis, Indiana.





Lori Forrer-Beckman  
Indiana Service Manager  
[lforrer@indigital.net](mailto:lforrer@indigital.net)  
574-601-9618



Shane Rekeweg  
Indiana Market Manager  
[srekeweg@indigital.net](mailto:srekeweg@indigital.net)  
260-517-8228

**Contact  
Us**



1616 Directors Row  
Fort Wayne, IN 46808



877.469.2010  
260.517.8228



[srekeweg@indigital.net](mailto:srekeweg@indigital.net)