

# Assessing the Impact of Gambling on Public Safety in Massachusetts

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THE PRESENT AND FUTURE OF THE  
MGM SPRINGFIELD AREA

**Christopher W. Bruce**

*Crime analysis consultant*



# Today's agenda

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Purpose and scope of this report

Methodology

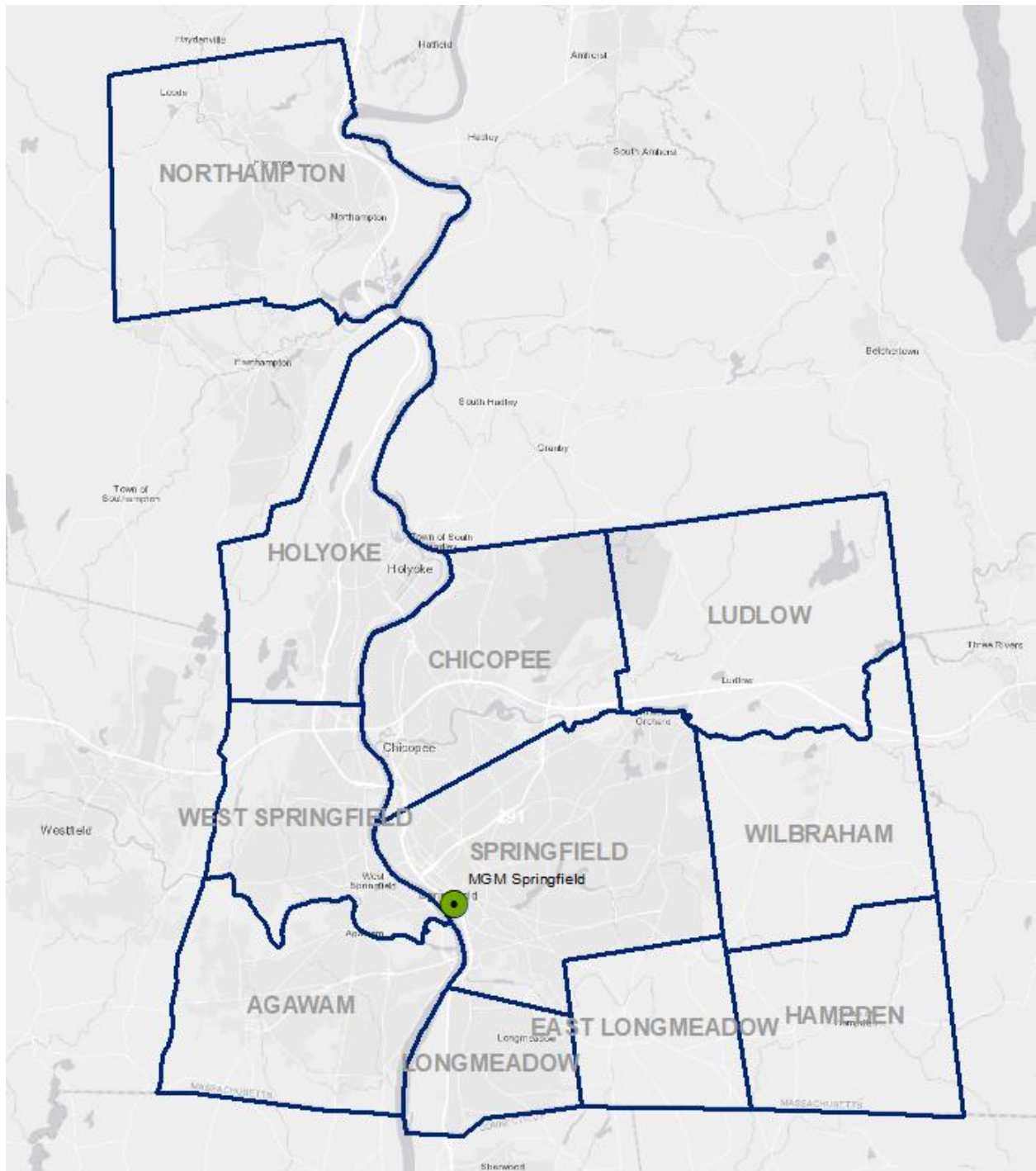
The baseline dataset

Interpreting the baseline statistics

Historic crime statistics and trends

Matters of geography

Future plan



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*Analys  
first six  
Casino*

**Assessing the Impact of Gambling on Public  
Safety in Massachusetts Cities and Towns**

*Analysis of changes in police data after the  
first year of operation at Plainridge Park  
Casino*

**Christopher W. Bruce**

Consultant to the Massachusetts Gaming Commission

December 12, 2016

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# Methodology

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Established an ODBC connection to each agency's IMC RMS/CAD

Copied database to local computers to extract data (**no PII**)

Copied database back to my computer

Merged all agencies' datasets into common "master" database

Translated calls for service to common code library

Deconflicted IMC arrests/offenses/warrants

Used master to generate statistics and maps

Future updates will have to occur on-location at each agency

File Home Create External Data Database Tools Help Fields Table Tell me what you want to do

Calibri 11

All Access Objects

Search...

Tables

- LibAddresses
- LibCADTypes
- LibCollisionEvents
- LibIBRConversion
- NotFac
- RightAround
- Temp
- ArrestsMaster
- CADIncTypeConversion
- CADMaster**
- CollisionsMaster
- FinalIncPool
- IncidentsMaster
- LibAgencies
- OffensesMaster

Queries

- CallCrosstab
- ColAldInvCrosstab
- CollisionCrosstab
- CrimeCrosstab
- Query4
- Query6
- CallCheck
- Crashes
- Crime
- ImArea
- Pawn
- Query1
- Query2

CallNum	Agency	CallIDT	IncType	ReasonText	PoliceYN	FireYN	EMSYN	StreetNum	StreetName	Streetsuf	Location	ReportingTy	Address
01-9633	HO	03/10/2110 17:45:00	Armed Theft	LARCENY	Y	N	N	2	MALL RING	RD		P	2 MALL RING RD
13-87236	SP	07/01/2072 06:23:00	Domestic Dispi	DOMESTIC DIST	Y	N	N	72	HILLTOP	ST			72 HILLTOP ST
03-3253	EL	04/20/2065 01:22:00	General Service	ASSISTANCE - T	Y	N	N	65	COOLEY	AVE	TANNEN, ALICI		65 COOLEY AVE
18-46187	SP	03/03/2029 19:04:00	911 Hangup or	911 HANG UP	Y	N	N	2988	MAIN	ST	1ST FLOOR		2988 MAIN ST
15-198337	SP	12/18/2020 11:17:00	Disorderly	DISTURBANCE Y	Y	N	N	489	STATE	ST	BURGER KING #		489 STATE ST
14-165100	SP	11/19/2020 08:12:00	Medical	ASSIST AMBUL	Y	N	N	25	POMONA	ST	FLR E911		25 POMONA ST
16-167247	SP	09/13/2020 00:16:00	Suspicious Acti	SUSPICIOUS PE	Y	N	N	492	LIBERTY	ST			492 LIBERTY ST
11-121787	SP	08/26/2020 00:28:00	Suspicious Acti	SUSPICIOUS PE	Y	N	N		NAVAJO	RD			NAVAJO RD
13-107109	SP	08/07/2020 14:33:00	Suspicious Acti	SUSPICIOUS AC	Y	N	N	1277	LIBERTY	ST			1277 LIBERTY ST
13-107018	SP	08/07/2020 10:27:00	Suspicious Acti	SUSPICIOUS AC	Y	N	N	123	CHESTNUT	ST			123 CHESTNUT
17-156216	SP	07/22/2020 22:00:00	Domestic Dispi	DOMESTIC DIST	Y	N	N	46	RINGGOLD	ST	NW SECTOR		46 RINGGOLD S
17-152305	SP	07/18/2020 06:03:00	Well-Being Ch	WELL BEING CH	Y	N	N	78	FRONT	ST			78 FRONT ST
10-90204	SP	07/03/2020 03:48:00	Weapons	GUN CALL	Y	N	N	1229	PARKER	ST			1229 PARKER S
12-86569	SP	06/30/2020 20:02:00	Medical	ASSIST AMBUL	Y	N	N		MAIN	ST			MAIN ST
10-86649	SP	06/26/2020 16:39:00	Medical	ASSIST AMBUL	Y	N	N	133	MASSACHUSET	AVE			133 MASSACHU
13-77111	SP	06/12/2020 10:44:00	Traffic Enforce	TRAFFIC CONTI	Y	N	N		EAST COLUMB	AVE	BOLAND WY		EAST COLUMB
13-59995	SP	05/10/2020 09:09:00	Traffic Collision	ACCIDENT WITI	Y	N	N		OAKLAND	ST			OAKLAND ST
16-76365	SP	05/09/2020 08:43:00	Burglary	REPORT ON BR	Y	N	N	19	SAAB	CT	CMCS APT 206		19 SAAB CT
12-58404	SP	05/04/2020 23:41:00	Disorderly	UNNECESSARY	Y	N	N	29	SPRING	ST			29 SPRING ST
16-6640	AG	04/25/2020 13:39:00	Administrative	Patrol Informa	Y	N	N	59	S WESTFIELD	ST			59 S WESTFIELD
15-52390	SP	04/11/2020 17:27:00	Fire	FIRE, BRUSH	Y	N	N	309	SUMNER	AVE			309 SUMNER A
17-74184	SP	04/10/2020 05:52:00	Medical	ASSIST AMBUL	Y	N	N	66	FOSTER	ST			66 FOSTER ST
17-67320	SP	04/01/2020 01:46:00	Suspicious Acti	SUSPICIOUS MI	Y	N	N	117	WINTON	ST			117 WINTON S
18-31917	SP	02/12/2020 22:26:00	Disorderly	UNNECESSARY	Y	N	N	107	KENSINGTON	AVE			107 KENSINGTC
12-19082	SP	02/11/2020 13:57:00	Assault	REPORT ON SIM	Y	N	N	17	WOODSIDE	TER			17 WOODSIDE
13-18019	SP	02/09/2020 21:49:00	All Other	UNKNOWN TR	Y	N	N	1037	ST JAMES	AVE			1037 ST JAMES
17-30081	SP	02/09/2020 15:41:00	Weapons	Knife Incident	Y	N	N	105	MALDEN	ST	FLR 1		105 MALDEN ST
18-24360	SP	02/02/2020 12:48:00	Traffic Collision	PROPERTY DAM	Y	N	N	11	TAPLEY	ST	IRVING GAS ST.		11 TAPLEY ST
18-4733	SP	01/07/2020 14:40:00	Well-Being Ch	WELL BEING CH	Y	N	N	17	SAAB	CT	E SECTOR		17 SAAB CT
18-64632	SP	03/29/2018 11:59:00	Burglary	BREAKING & EN	Y	N	N	56	DEARBORN	ST			56 DEARBORN :
18-64629	SP	03/29/2018 11:54:00	Burglary	BREAKING & EN	Y	N	N	56	DEARBORN	ST	ABANDON HO		56 DEARBORN :
18-64628	SP	03/29/2018 11:54:00	Auto Theft	REPORT ON ST	Y	N	N	33	FRESNO	ST			33 FRESNO ST
18-64624	SP	03/29/2018 11:48:00	Crime Enforcer	DIRECTIVE PAT	Y	N	N	77	KNOX	ST		P	77 KNOX ST
18-64626	SP	03/29/2018 11:48:00	Disorderly	DISTURBANCE Y	Y	N	N	86	WEST ALVORD	ST			86 WEST ALVO
18-64625	SP	03/29/2018 11:48:00	Warrant Servic	WARRANT SER	Y	N	N	1360	ALLEN	ST	GOLD TRADER	P	1360 ALLEN ST
18-64622	SP	03/29/2018 11:45:00	Vehicle Stop	TRAFFIC STOP	Y	N	N		CHESTNUT	ST		P	CHESTNUT ST
18-64623	SP	03/29/2018 11:44:00	Medical	ASSIST AMBUL	Y	N	N	910	CAREW	ST			910 CAREW ST

Record: 14 of 3116235 No Filter Search

# Dataset figures

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11 agencies

Total population of 410,424 (2016)

Total area of 250.3 square miles

103,822 arrests

353,866 non-arrest incidents

3,116,235 calls for service

89,412 traffic collisions

187,618 unique addresses (90% geocoded)

# Interpreting Statistics

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Average, Standard Deviation, Coefficient of Variation (c.v.), SPM

Category	2017	Avg.	St. Dev.	C.V.	SPM
Robbery	574	724.1	67.26	0.09	-2.61%
Burglary	2230	3348.6	694.09	0.21	-9.18%
Thefts from Vehicles	1442	1650.4	275.32	0.17	-6.82%
Auto Theft	865	1041.9	150.07	0.14	-6.21%
Traffic Complaints	4789	4272.5	427.40	0.10	+3.31%
Vagrancy	575	416.9	79.38	0.19	+5.39%
Traffic Collisions	12801	11348.3	820.50	0.07	+2.07%



Trendlines with SPMs of +5% and -15%



# Overall 7-year averages

City	Violent	Property	Total	Crashes
Springfield	4383.6	8287.6	15240.1	4330.6
Agawam	112.0	448.9	679.9	529.8
Chicopee	773.6	2039.8	3258.9	1623.1
East Longmeadow	71.4	425.4	635.1	540.1
Hampden	7.5	78.8	111.0	67.4
Holyoke	1044.8	2779.9	4692.4	1666.9
Longmeadow	21.5	272.3	338.5	386.5
Ludlow	67.0	433.8	601.8	540.1
Northampton	23.0	552.3	1686.1	596.1
West Springfield	374.5	1629.9	2257.5	705.3
Wilbraham	42.8	256.8	416.5	342.1



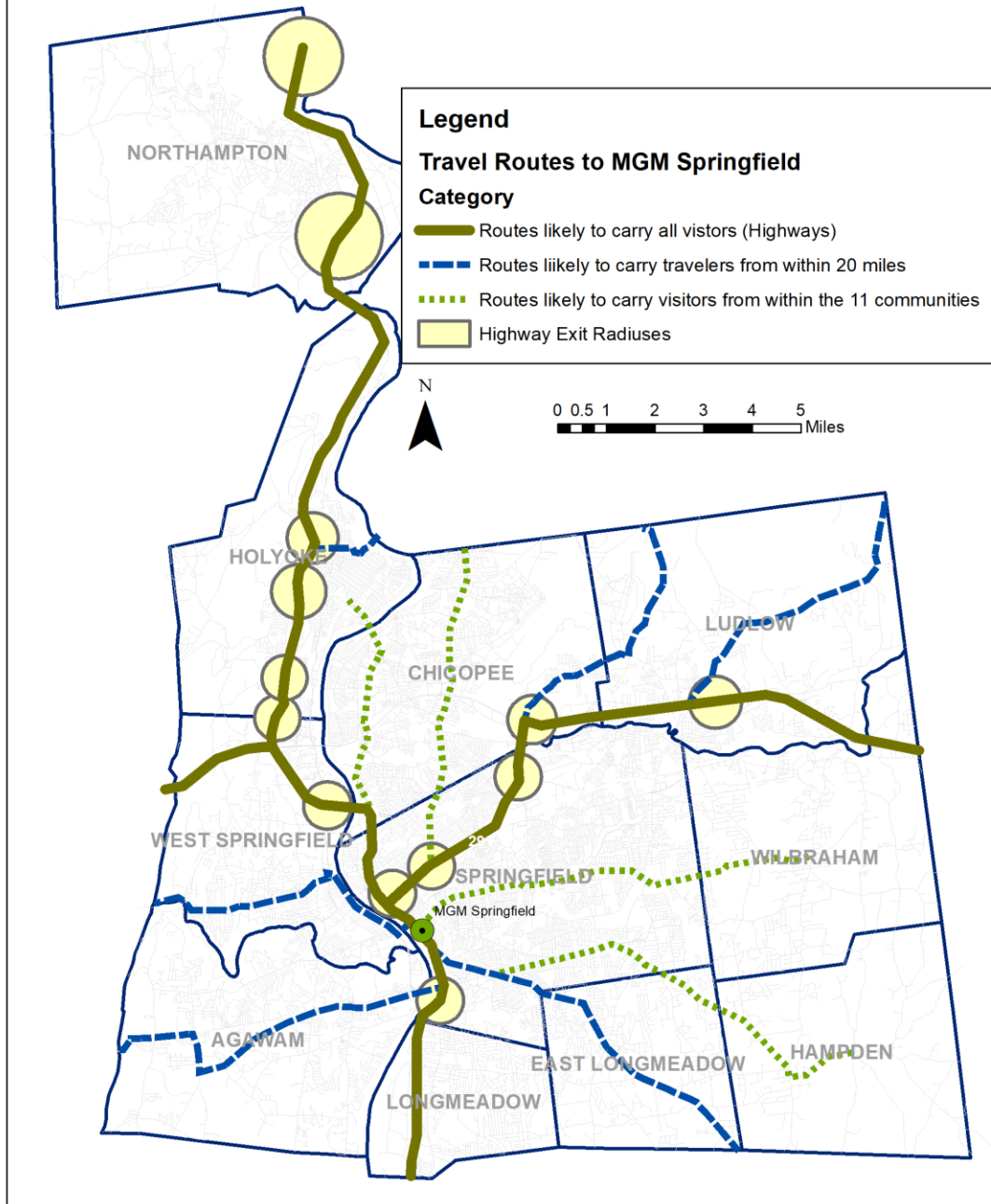
# Crashes on state roads

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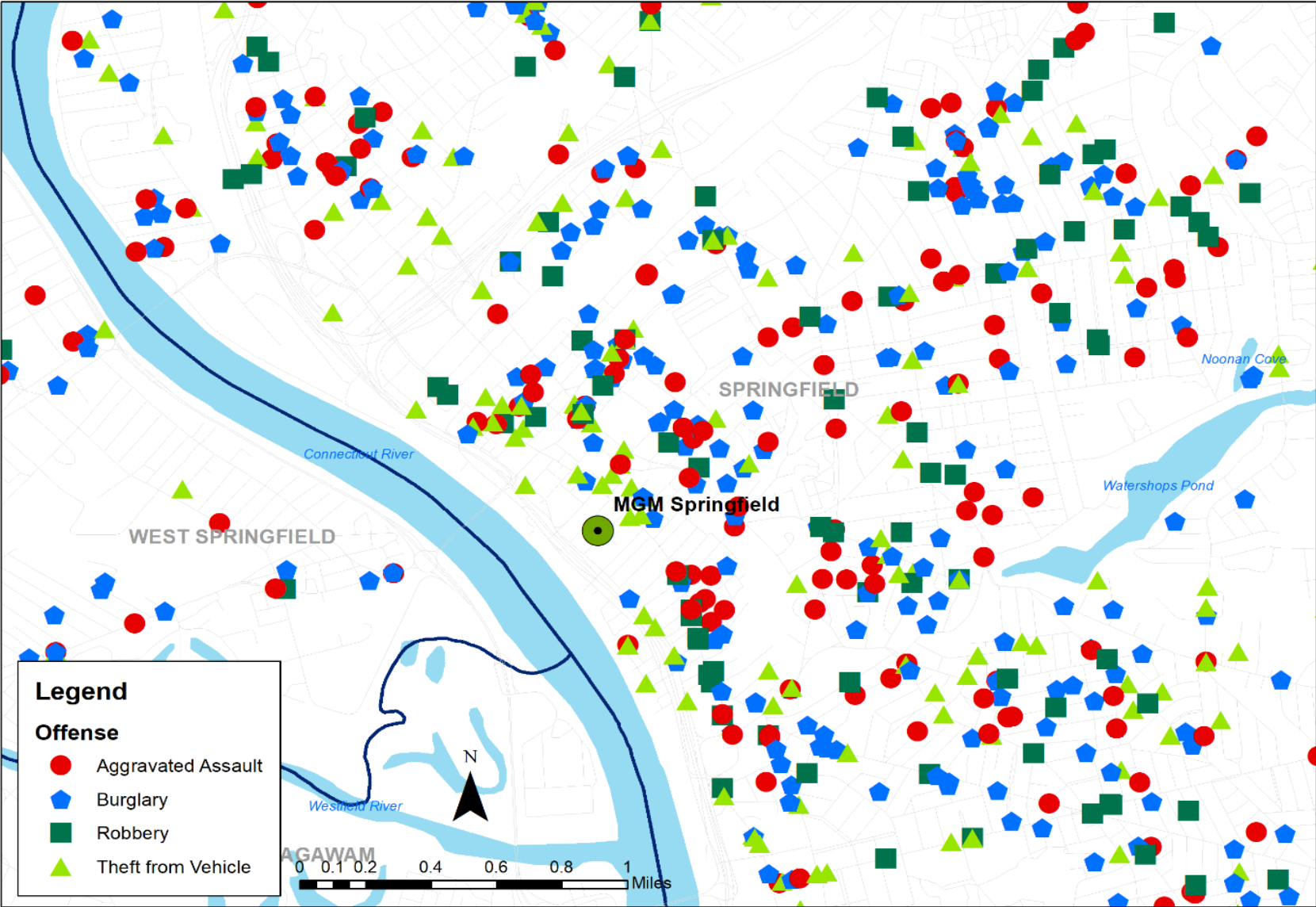
Activity	2016	2017	2010– 2017 Avg.	St. Dev.	C.V.	SPM
I-90	303	283	281.5	29.99	0.11	+2.61%
I-91	1107	1158	961.1	105.03	0.11	+3.57%
I-291	216	217	218.4	26.62	0.12	+1.44%
I-391	161	172	156.4	19.40	0.12	+4.13%
Hwy 5	119	126	109.8	15.46	0.14	-0.37%
Hwy 57	80	70	62.8	9.76	0.16	+4.74%

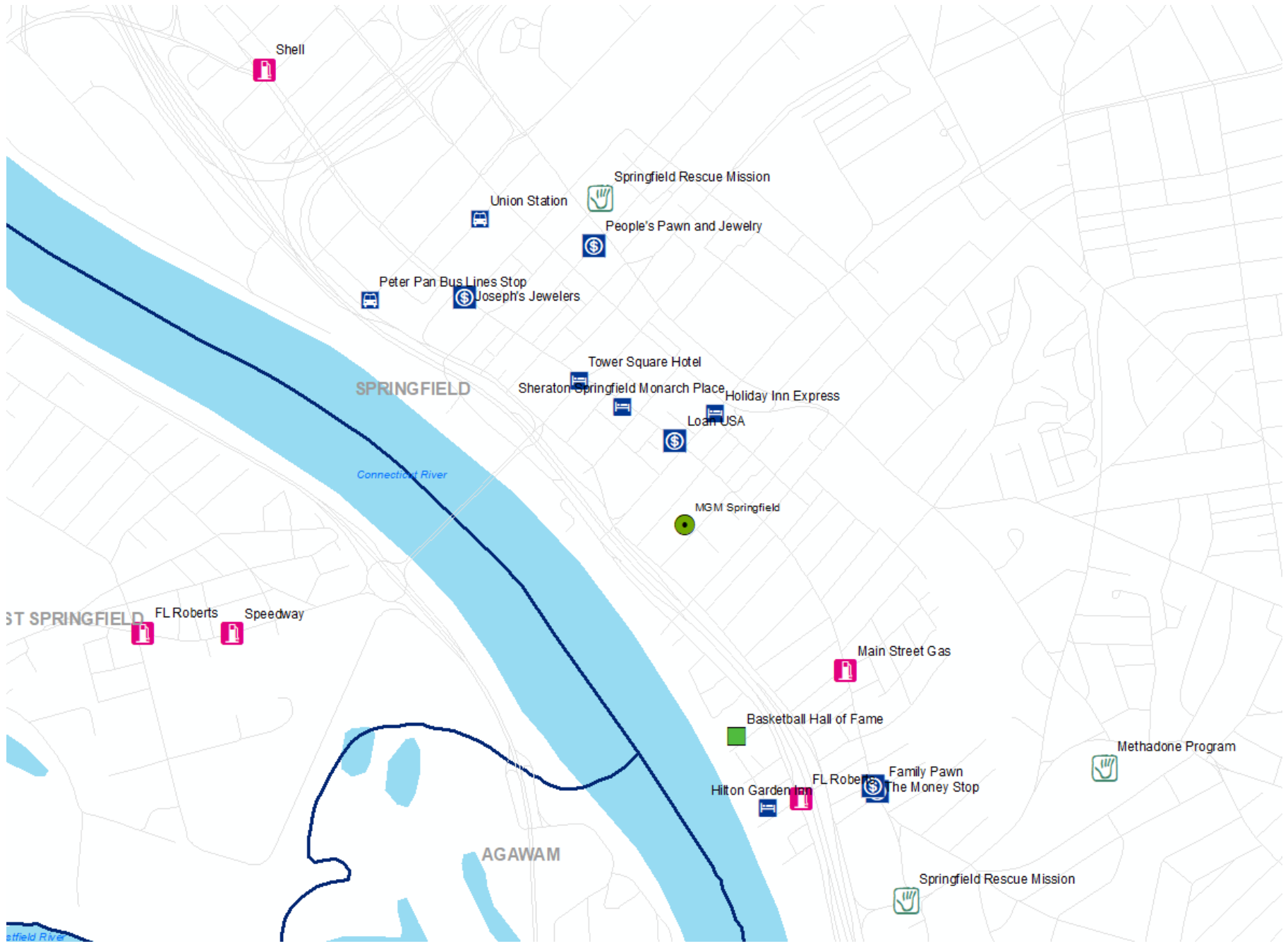
# Travel Routes Likely to be Affected by MGM Springfield

Based on Google Maps(R) recommendations from 38 origin points



# Crimes in the Area of MGM Springfield, October-December 2017





Shell



Springfield Rescue Mission



Union Station



People's Pawn and Jewelry



Peter Pan Bus Lines Stop



Joseph's Jewelers



Tower Square Hotel



Sheraton Springfield Monarch Place



Holiday Inn Express



Loan USA



MGM Springfield



SPRINGFIELD

Connecticut River

ST SPRINGFIELD

FL Roberts



Speedway



Main Street Gas



Basketball Hall of Fame



Methadone Program



Hilton Garden Inn



FL Roberts



Family Pawn  
The Money Stop



AGAWAM

Springfield Rescue Mission



Springfield River

# Evaluation plan

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Settle on method for flagging casino-related incidents

Collect post-casino data

- December 2018 (3-month)
- March 2019 (6-month)
- September 2019 (1-year)

Compare post-casino figures with pre-casino averages and trends

Try to sort out casino-related changes from non-casino related

Look for new patterns, trends, and hot spots

Work closely with GEU and Springfield Crime Analysis Center



# Thank You!

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