UNIVERSITY OF MASSACHUSETTS SCHOOL OF PUBLIC HEALTH AND HEALTH SCIENCES

# Lottery Revenue and MGM Springfield: Statewide and Local Analysis

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February 27, 2020

#### Research Objective and Outline

## Describe Changes in Lottery Revenue During First Year of Operation of MGM Springfield

- Describe sales trends in lottery revenue statewide
- Describe changes in lottery revenue after opening of MGM Springfield
  - Statewide
  - In Springfield
  - In designated surrounding communities
- Purpose is to identify potential impacts associated with opening of MGM Springfield



#### Importance of Research

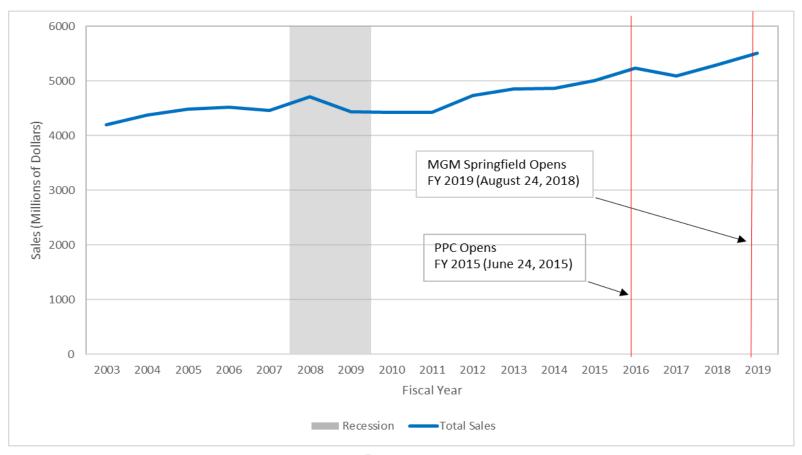
#### Why Do Changes in Lottery Sales Matter?

- Lottery sales statewide are the largest source of local aid for communities.
- Potential impacts on lottery revenue likely to be greater in Springfield and surrounding communities due to closer proximity to the casino.
- Local aid for communities is not tied to lottery sales in those communities.
- MGM Springfield is first resort-style casino to open in Massachusetts. Economic impact may be different than PPC.



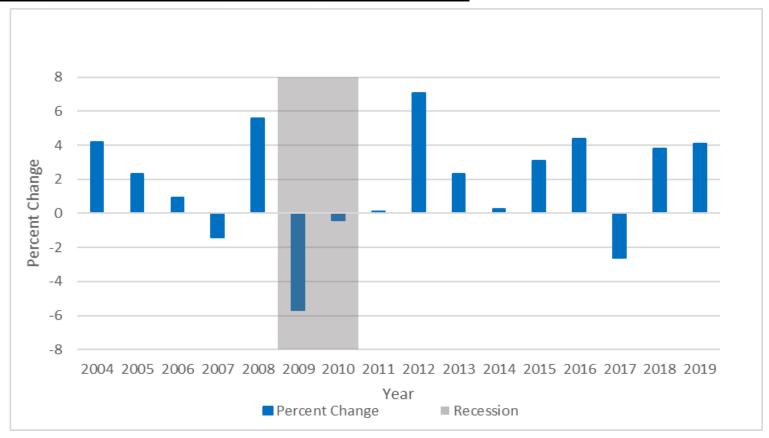
### Lottery Sales Trend Statewide

#### **Lottery Sales, Fiscal Years 2003-2019**



#### Year-to-Year Changes Statewide

#### **Lottery Sales, Percentage Change, 2004-2019**



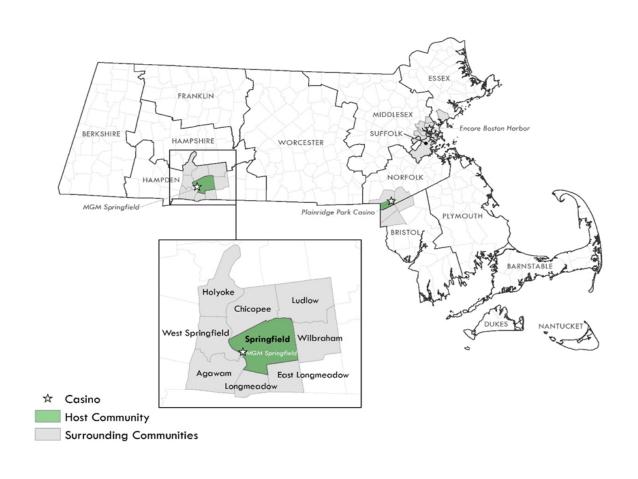


### **Summary of Statewide Impacts**

- Lottery sales vary year to year.
- Important to not make conclusions from changes in single year.
- No sign that lottery revenue statewide declines after opening of casinos in Massachusetts. Since PPC opened, lottery sales increased in every year except FY 2017.



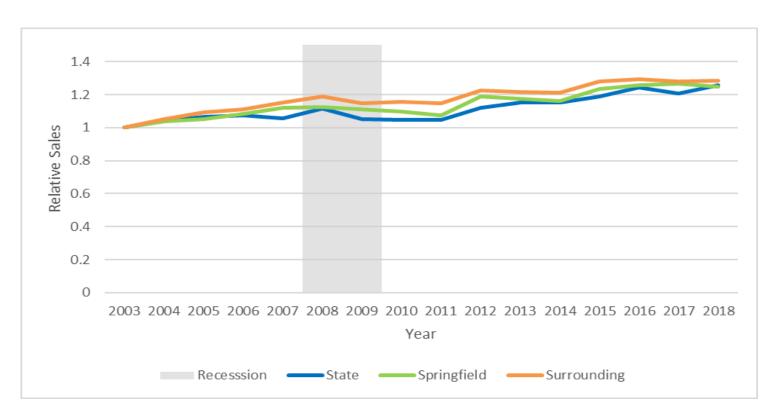
# Description of Lottery Sales in Springfield and Surrounding Communities





## Springfield and Surrounding Communities

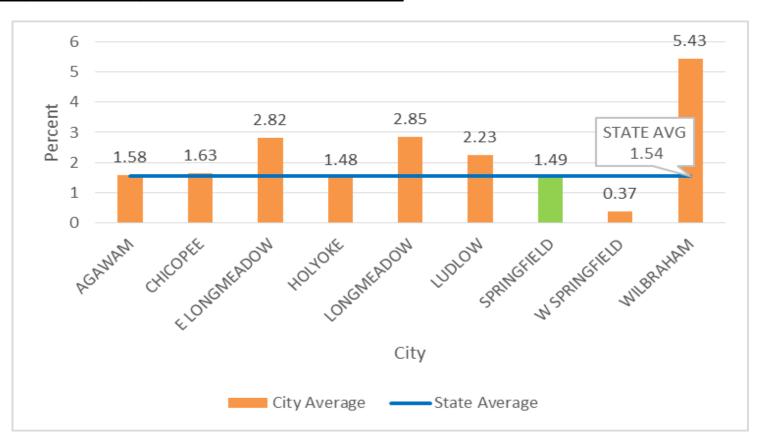
## Growth in lottery revenue historically similar. Growth for state slightly faster in recent years.





### Springfield and Surrounding Communities

#### Average annual growth rates, 2004-2018





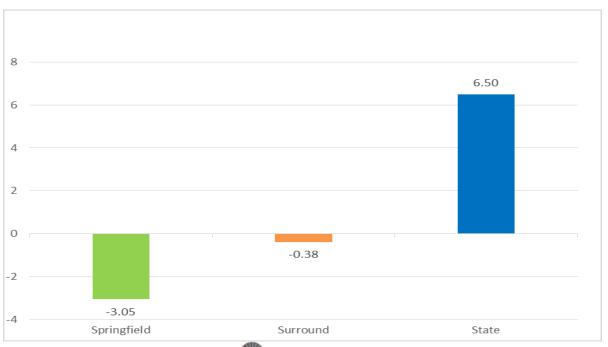
#### Lottery Sales over First Year of Operation

- MGM Springfield opens August 24, 2018.
- We analyze weekly lottery sales data for all lottery agents.
- An early comparison of Springfield and surrounding communities over time and versus rest of state. Recall, historically Springfield and rest of state grew at nearly identical rate.



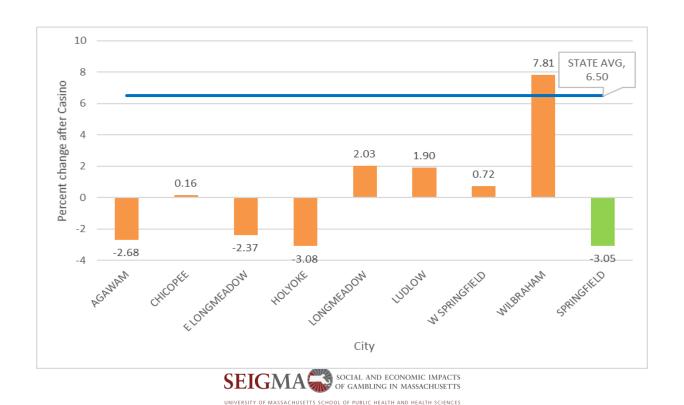
# What happened to lottery sales in Springfield and Surrounding Communities During the First Year of Operation of MGM Springfield?

- Lottery Sales in Springfield decreased 3.05% in first year of MGM operation compared to year prior.
- Statewide Lottery Sales increased 6.5% over same period.



# What happened to lottery sales in Springfield and Surrounding Communities During the First Year of Operation of MGM Springfield?

 Surrounding communities collectively decrease (0.38%), but varies by community.



# What happened to lottery sales in Springfield and Surrounding Communities During the First Year of Operation of MGM Springfield?

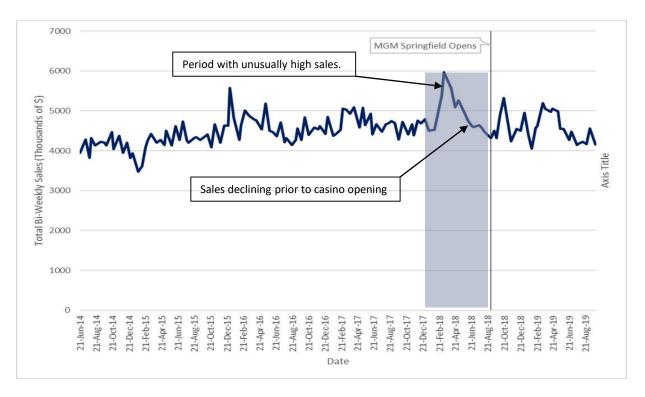
#### Are the Changes in Lottery Revenue Related to the Casino?

- It is too early to link the decline in revenue with the casino opening.
- Not possible to determine a trend using single year of data or single year-over-year comparison.
- The decline in sales in Springfield may reflect random annual fluctuation in lottery sales or unusually high sales in Springfield in the year just prior to the casino opening.
- Subsequent reports when additional data become available will allow clearer distinction between random fluctuation and a longer term trend.



## What happened to lottery sales in Springfield During the First Year of Operation of MGM Springfield?

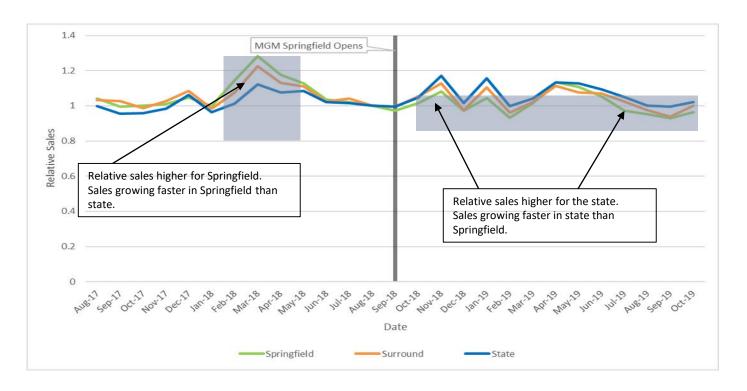
 High sales in year prior. Sales declining before the casino opens. Decline may reflect a return to trend.





## What happened to lottery sales in Springfield During the First Year of Operation of MGM Springfield?

 Lottery sales relative to month prior to opening. Month prior to opening=1





## First Year Summary and Future Analysis

- No evidence that casinos have harmed lottery sales statewide.
   Important for local aid.
- Lottery sales in Springfield decreased 3% in first year of MGM casino operation, after unusually high sales the year prior to opening.
- Lottery sales in rest of state increased 6.5% in first year of MGM casino operation.
- First year change in Springfield is different than historical growth rates in lottery revenue where state and Springfield were nearly identical.

### First Year Summary and Future Analysis

- First year change in Springfield is different change in Plainville in first year.
  - Excluding PPC, lottery sales in Plainville increased 1.96% (versus 5.19% increase in rest of state).
  - Excluding MGM Springfield sales, sales in Springfield decrease 4.25%.
- With one year of data, we cannot attribute the decrease in lottery revenue in Springfield to the casino.
- Decrease in lottery sales in Springfield may reflect unusually high sales in year prior to casino opening.
- Decrease in Springfield does not affect local aid in Springfield.



#### First Year Summary and Future Analysis

- Divergent sales in Springfield versus the rest of the state warrants future monitoring of lottery sales.
- Additional data in future will distinguish between a longer-term, casino-induced, change in revenue from normal year-to-year variation.
- Patron survey data should also clarify whether money spent in the casino would have been spent on lottery.



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Thank You!

Questions?

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