

PM1: SAFETY PERFORMANCE MEASURES SNHPC 2021

Southern New Hampshire Planning Commission
Technical Advisory Committee
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MAP-21- Moving Ahead for Progress in the 21st Century Act

- Passed in 2012
- Sought to increase **the transparency and accountability** related to states' investment of federal taxpayer dollars into transportation infrastructure and services nationwide,
- To ensure that states distribute funds to transportation projects that collectively make progress toward the achievement of **national goals**.
- Aimed to **achieve set objectives** by assessing the performance of state transportation systems compared to national goals and enforcing minimum requirements.



- Requires DOTs to **measure and report performance** in the following areas:
Safety, pavement and bridge, system performance/congestion, freight movement, and congestion mitigation and air quality (CMAQ).

MAP-21- Moving Ahead for Progress in the 21st Century Act

National performance goals for Federal highway programs:

Safety—To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.

Infrastructure condition—To maintain the highway infrastructure asset system in a state of good repair.

Congestion reduction—To achieve a significant reduction in congestion on the NHS.

System reliability—To improve the efficiency of the surface transportation system development.

Freight movement and economic vitality—To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic

Environmental sustainability—To enhance the performance of the transportation system while protecting and enhancing the natural environment.

Reduced project delivery delays—To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices.

FAST - Fixing America's Surface Transportation Act

- Passed in 2015
- Continues MAP-21's overall performance management approach, within which States invest resources in projects that collectively will make progress toward national goals.

Tweaked...

- *Performance period adjustment* to the timeframe for States and MPOs to make progress toward meeting their performance targets under the National Highway Performance Program
- *Clarifies the significant progress timeline* for the Highway Safety Improvement Program (HSIP) performance targets.
[FAST Act § 1406(a)(1) and (b); 23 U.S.C. 119(e)(7) and 148(i)]
- *Five federally-required safety measures* for transportation.

Background Info – Federal Legislation and Safety Performance

What are the Five Federally-required safety measures?

1. **Number of Fatalities**: The five-year average of the total number of persons suffering fatal injuries in a motor vehicle crash during a calendar year.
2. **Rate of Fatalities**: The five-year average of the ratio of the number of fatalities to the number of vehicle miles traveled (VMT, in 100 Million VMT) in a calendar year.
3. **Number of Serious Injuries**: The five-year average of the total number of persons suffering at least one serious injury in a motor vehicle crash during a calendar year.
4. **Rate of Serious Injuries**: The five-year average of the ratio of the number of serious injuries to the number of VMT (in 100 Million VMT) in a calendar year.
5. **Number of Non-Motorized Fatalities and Non-motorized Serious Injuries**: The five-year average of the combined total number of non-motorized fatalities and non-motorized serious injuries involving a motor vehicle during a calendar year.

Federal Legislation and State-level Safety Performance Targets

States set safety performance targets

- MPOs including SNHPC are allowed the flexibility to set their own safety targets

OR

- MPOs may support the State-level performance targets

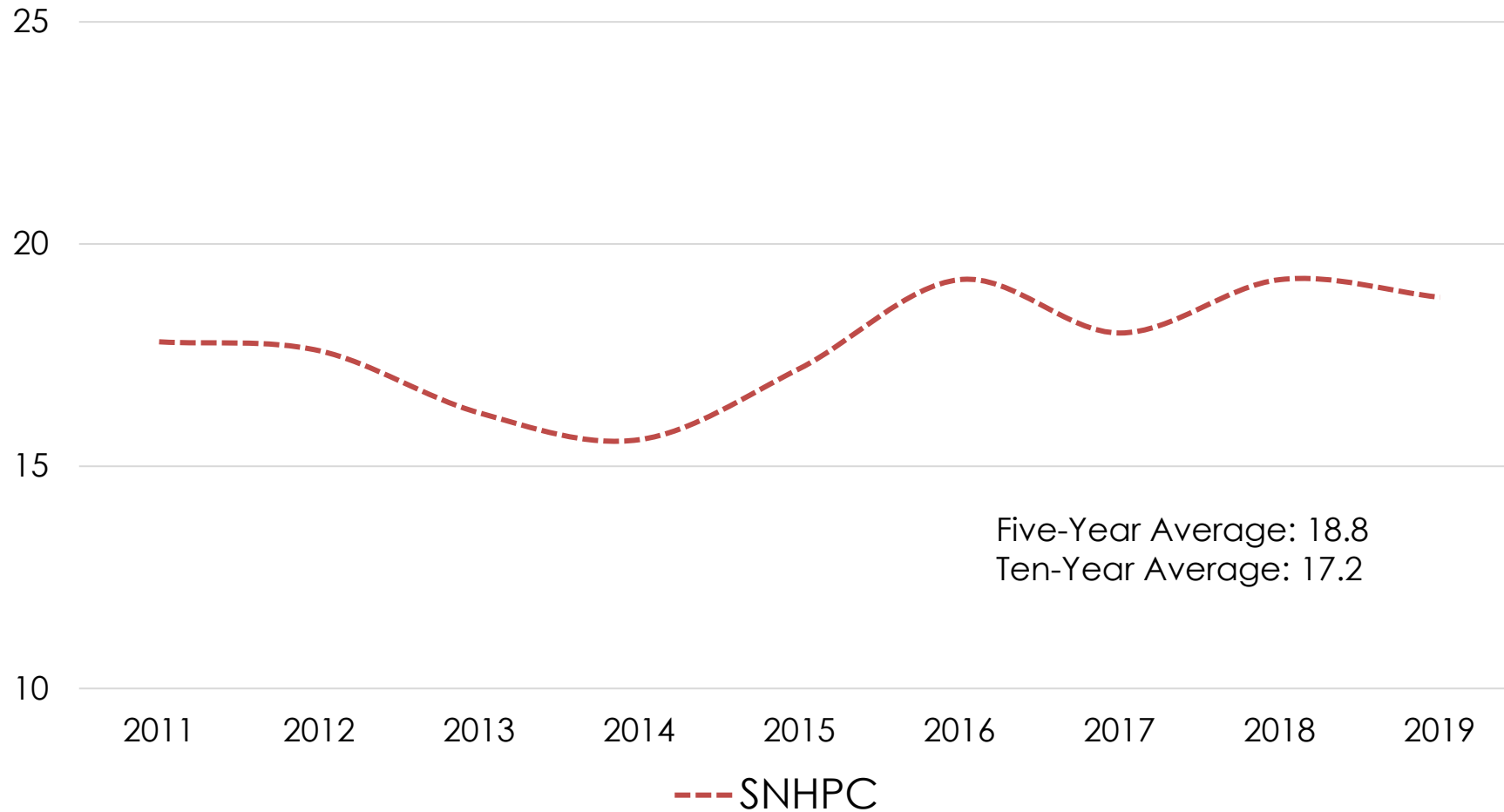
Last year, on January 28, 2020, SNHPC adopted the State of New Hampshire's Safety Performance Targets for 2020

SNHPC Recommended Targets for 2021: **Support State Targets**

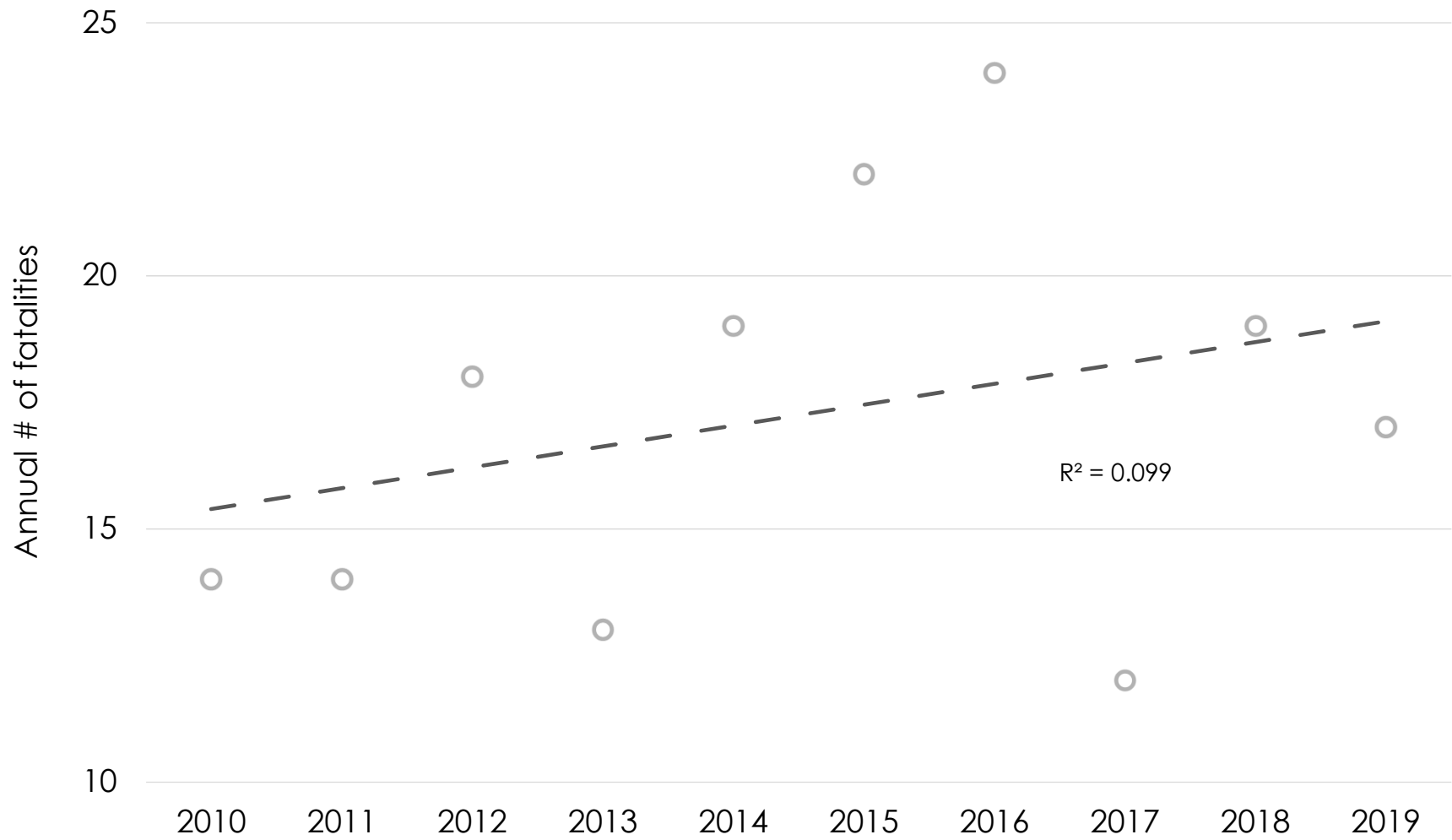
It is recommended that SNHPC again adopt the State Performance Targets for 2021

Measure 1: Number of Fatalities

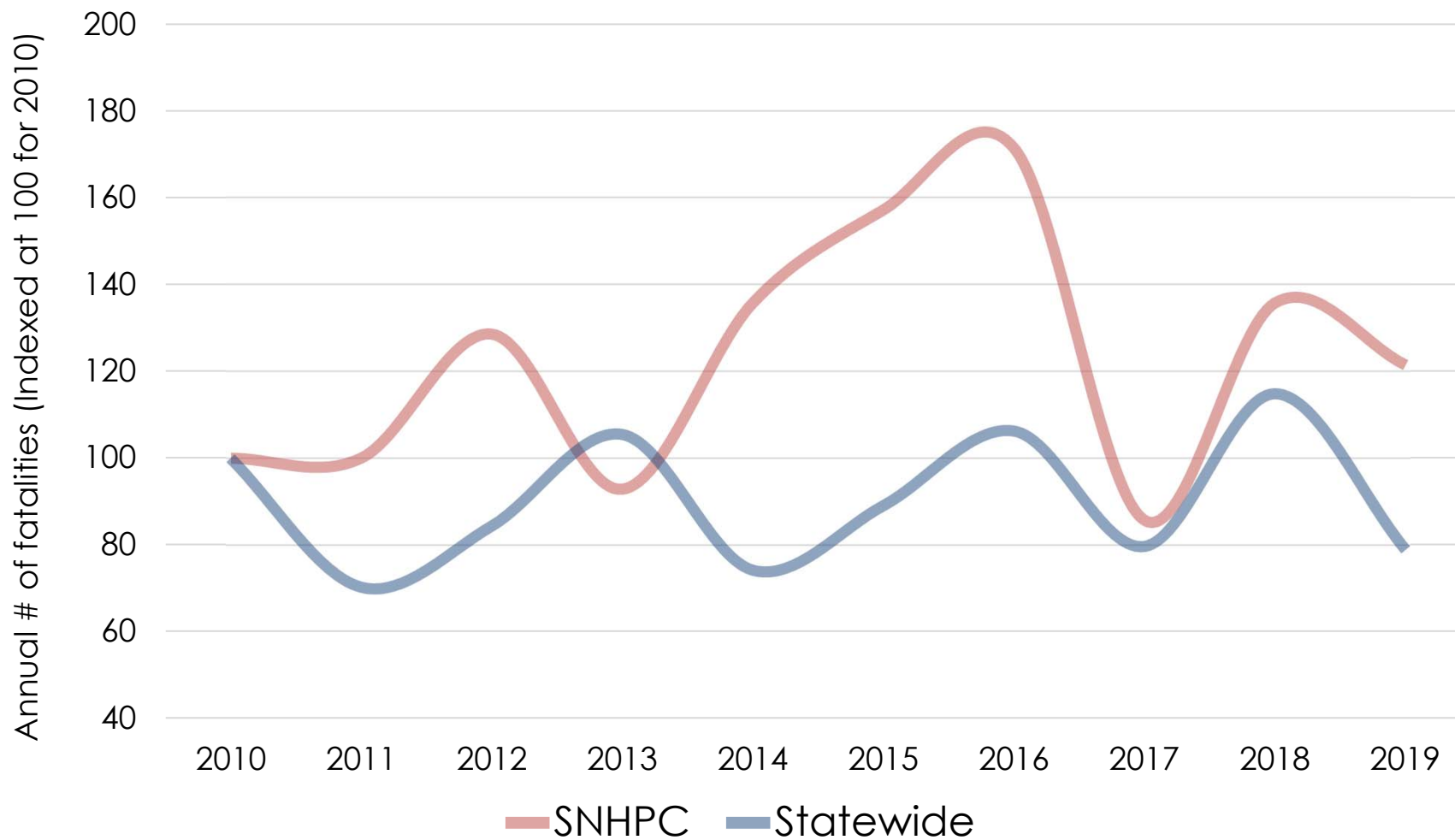
(Five-Year Moving Average)



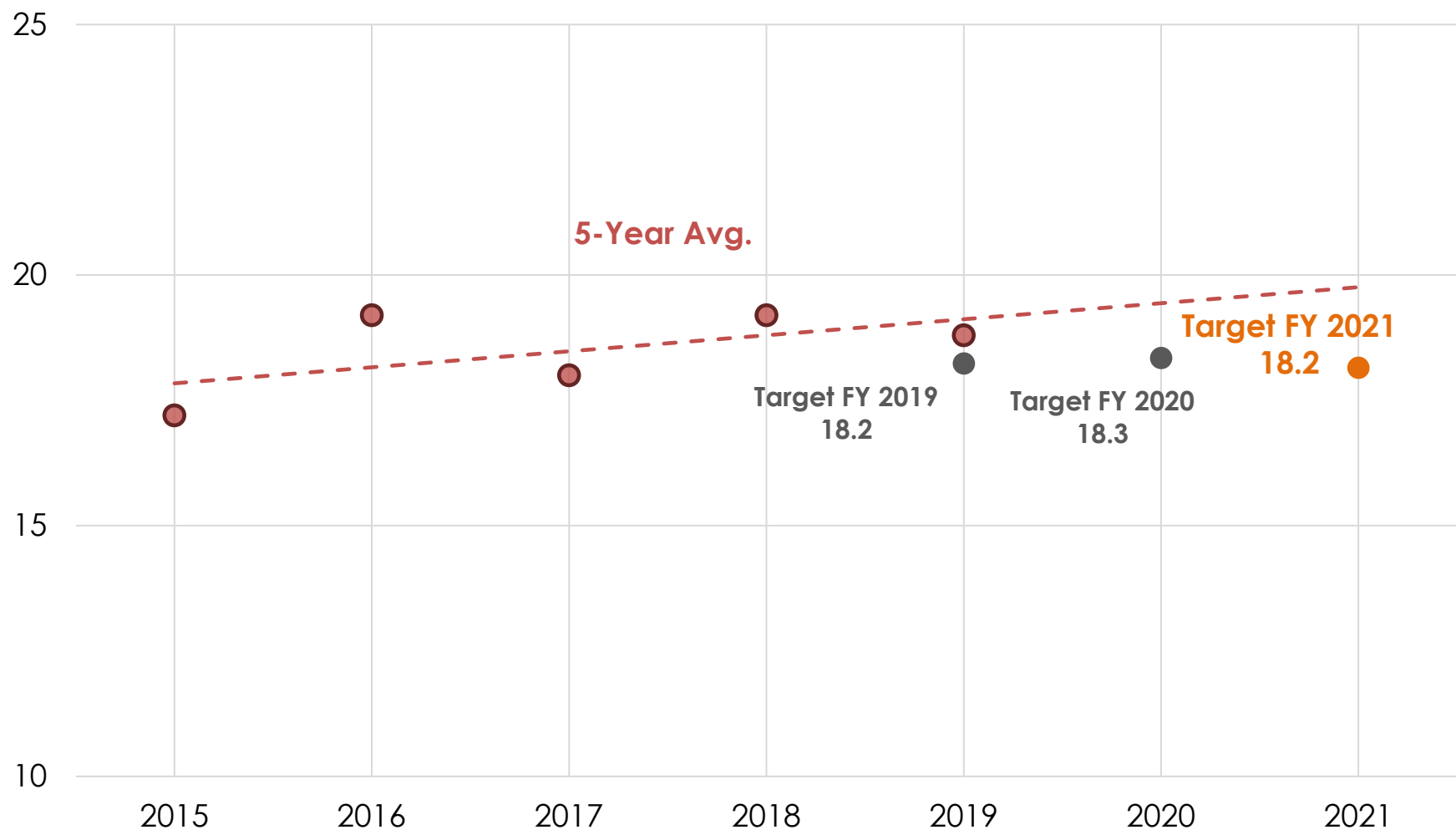
Number of SNHPC Fatalities



Change in the Number of Fatalities

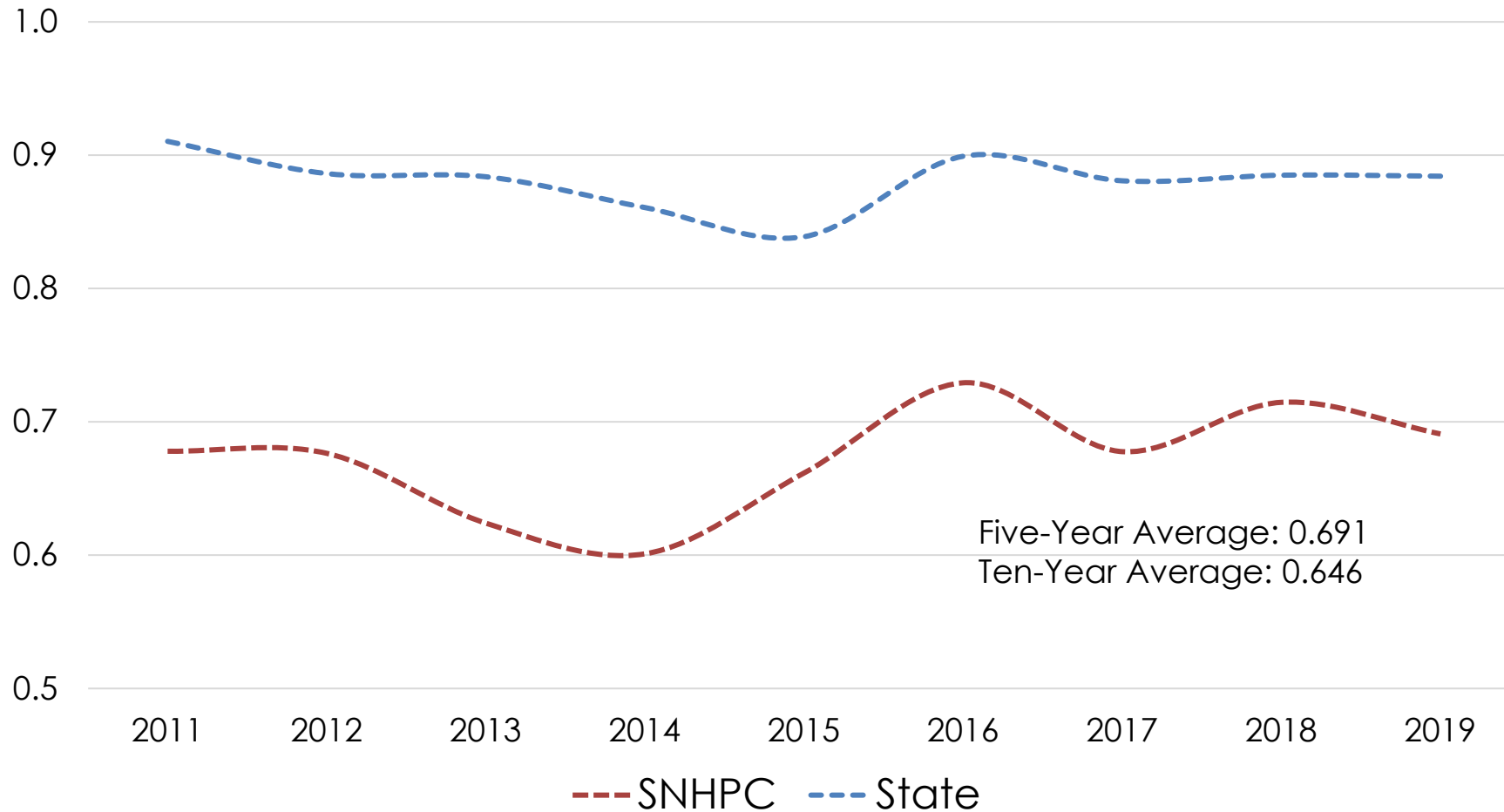


Measure 1: Projected Number of SNHPC Fatalities

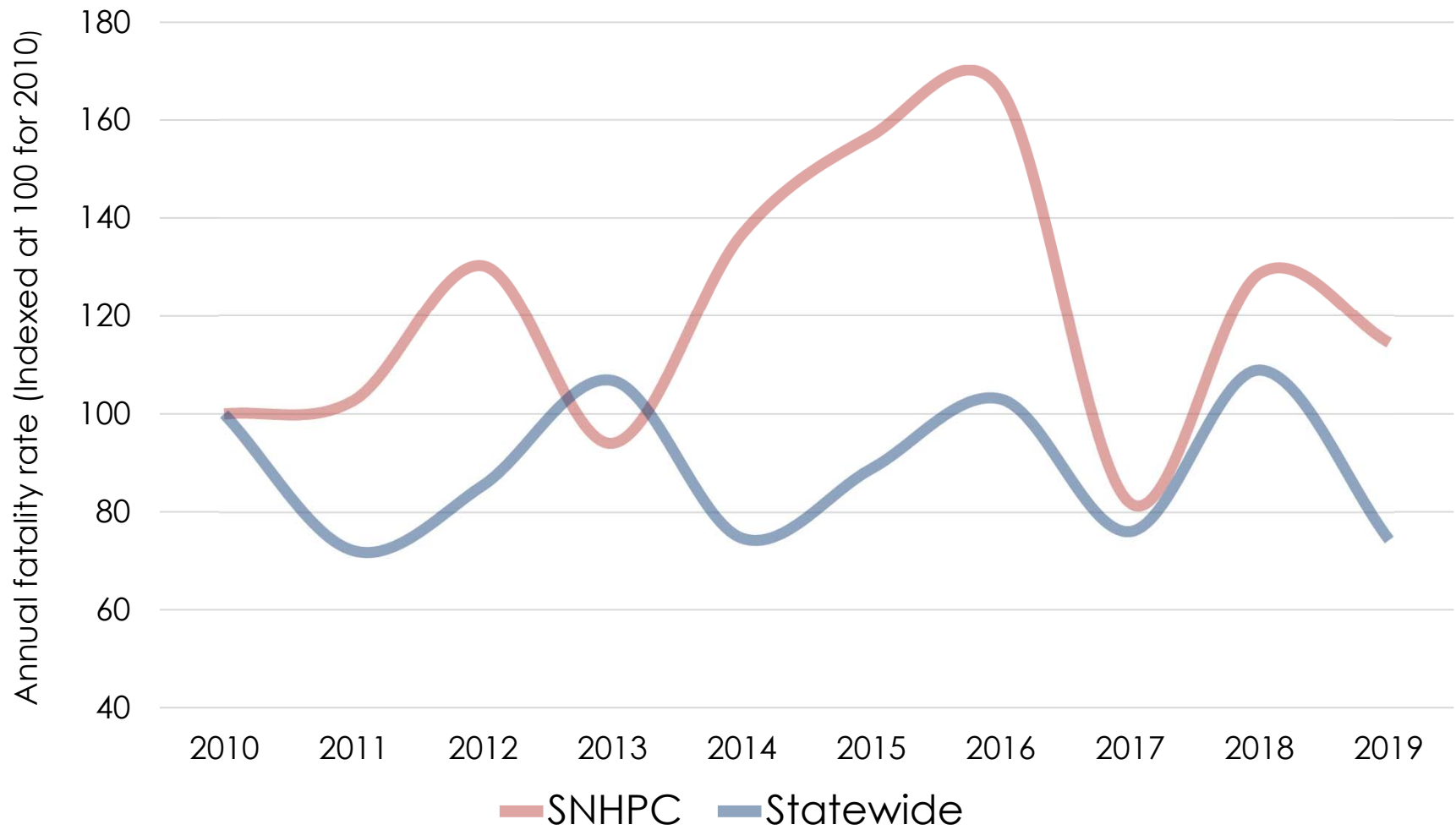


Measure 2: Fatality Rate

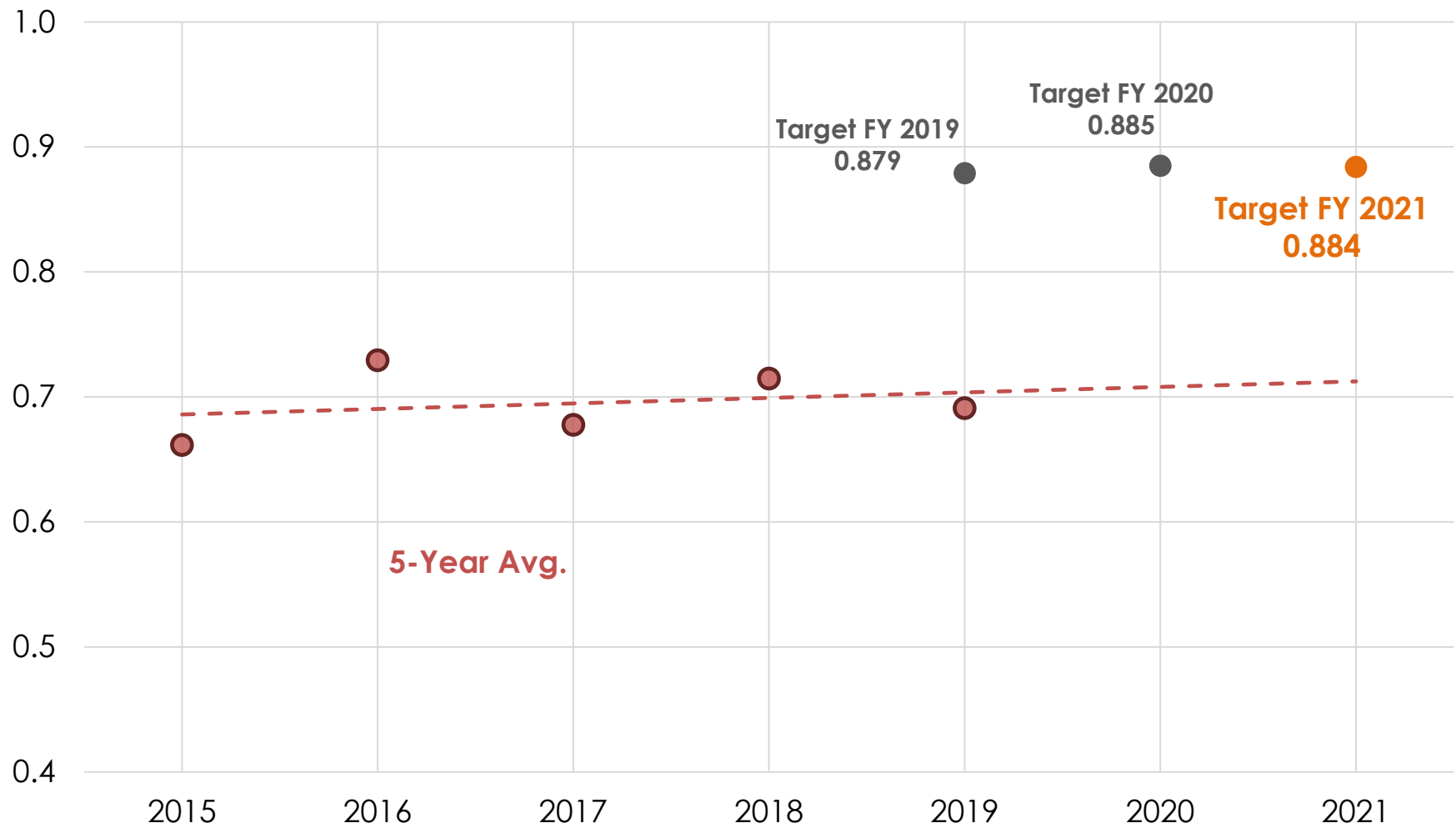
(Five-Year Moving Average)



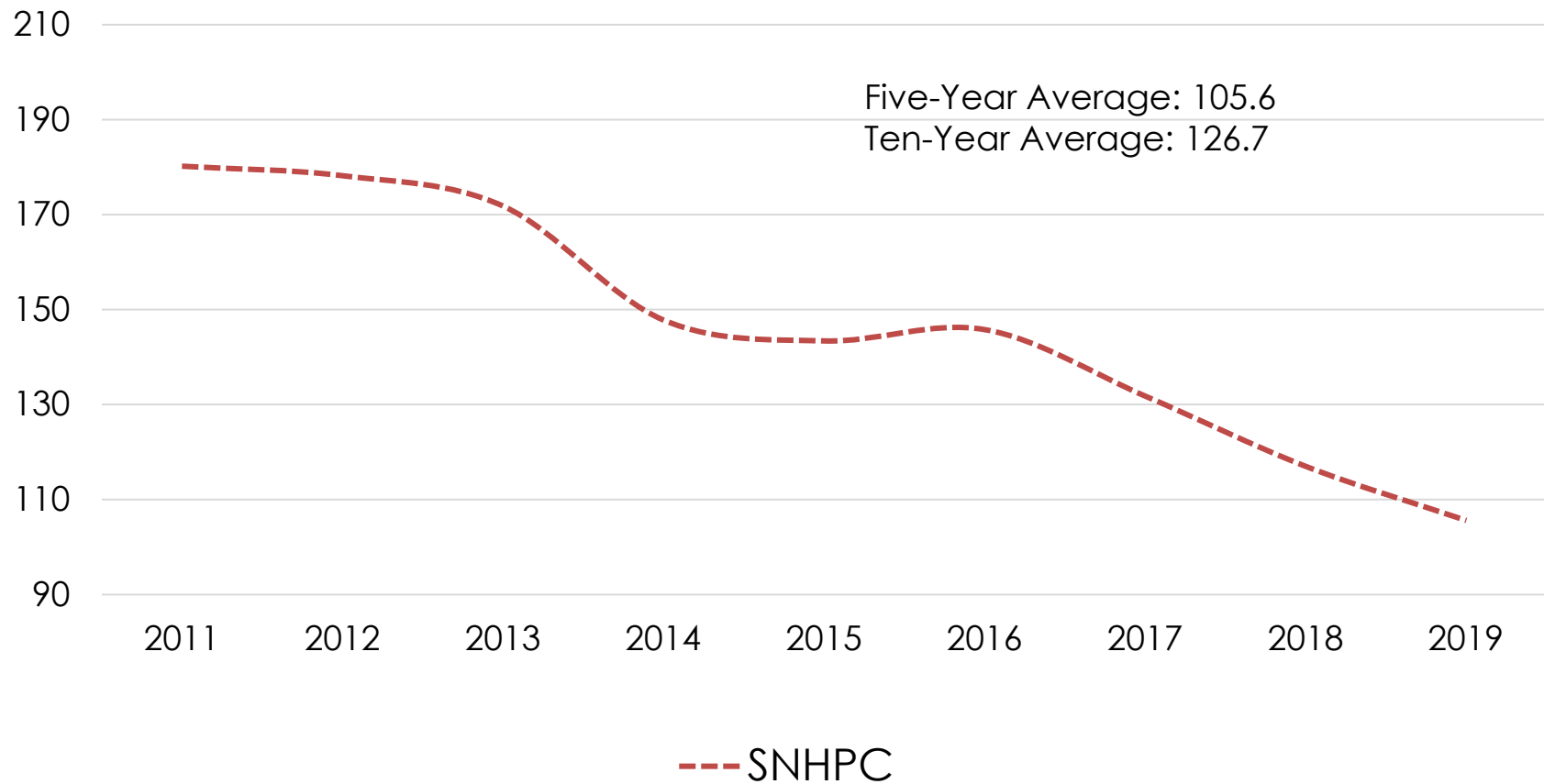
Change in the Fatality Rate



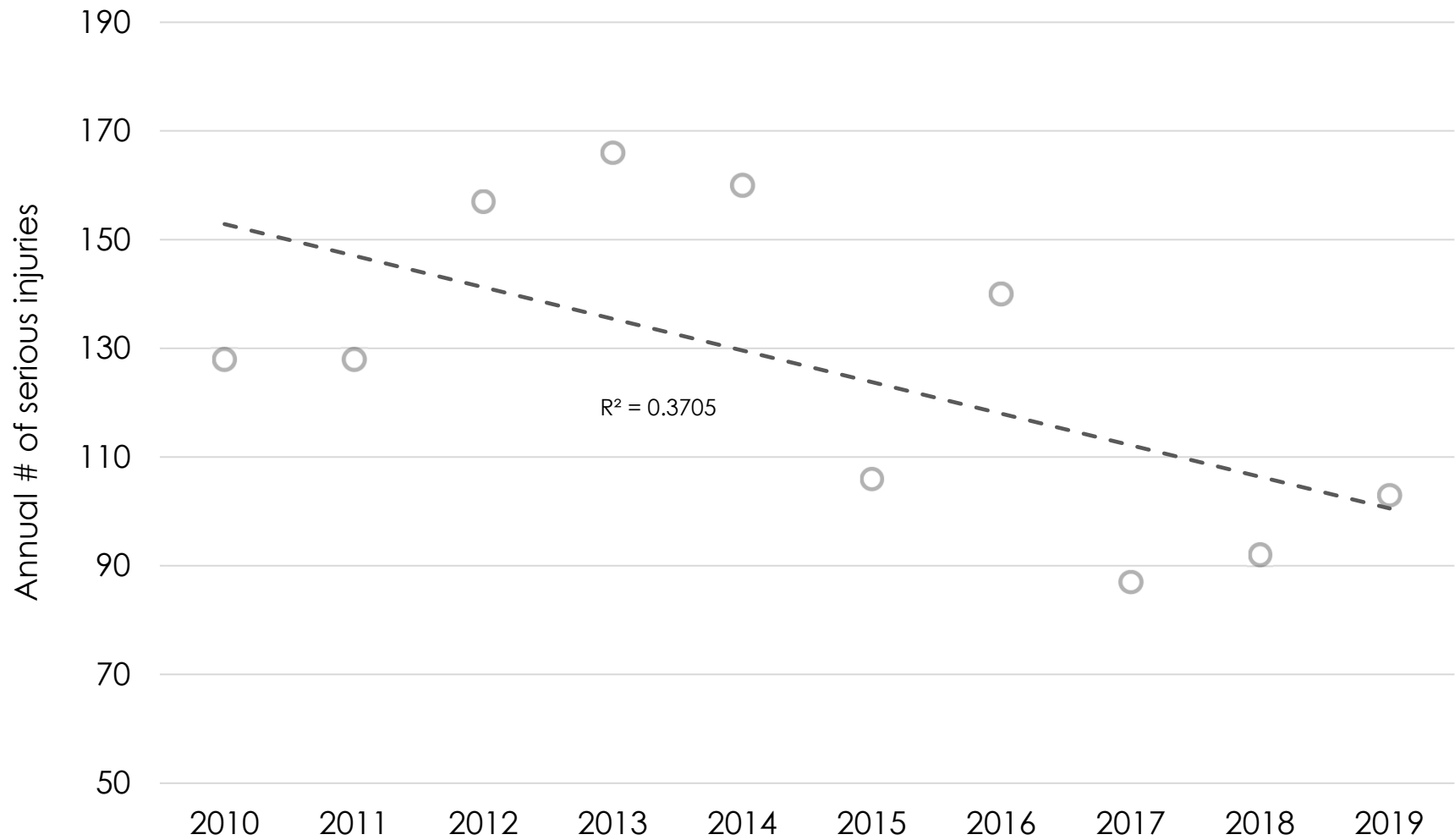
Measure 2: Projected SNHPC Fatality Rate



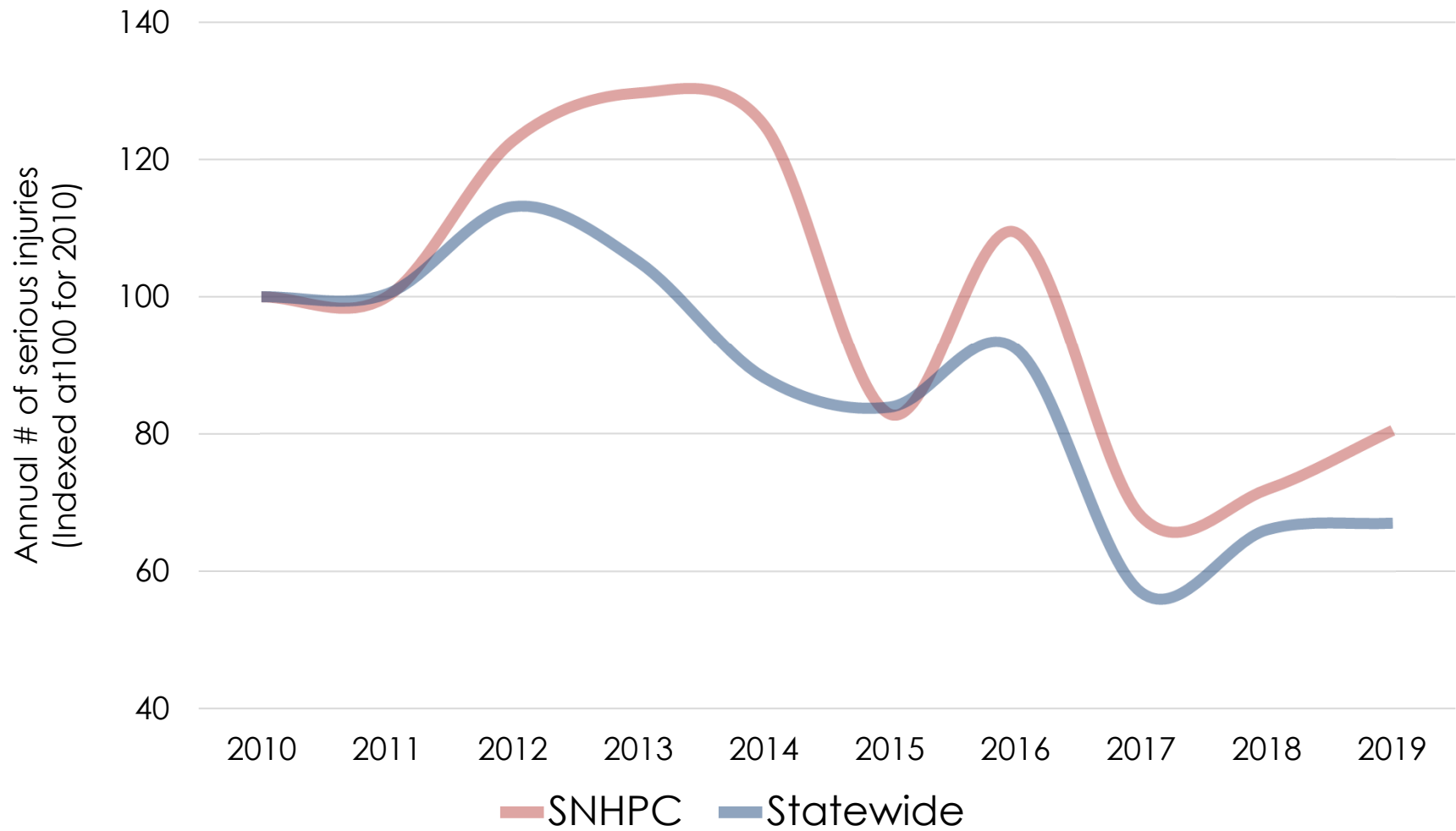
Measure 3: Number of Serious Injuries (Five-Year Moving Average)



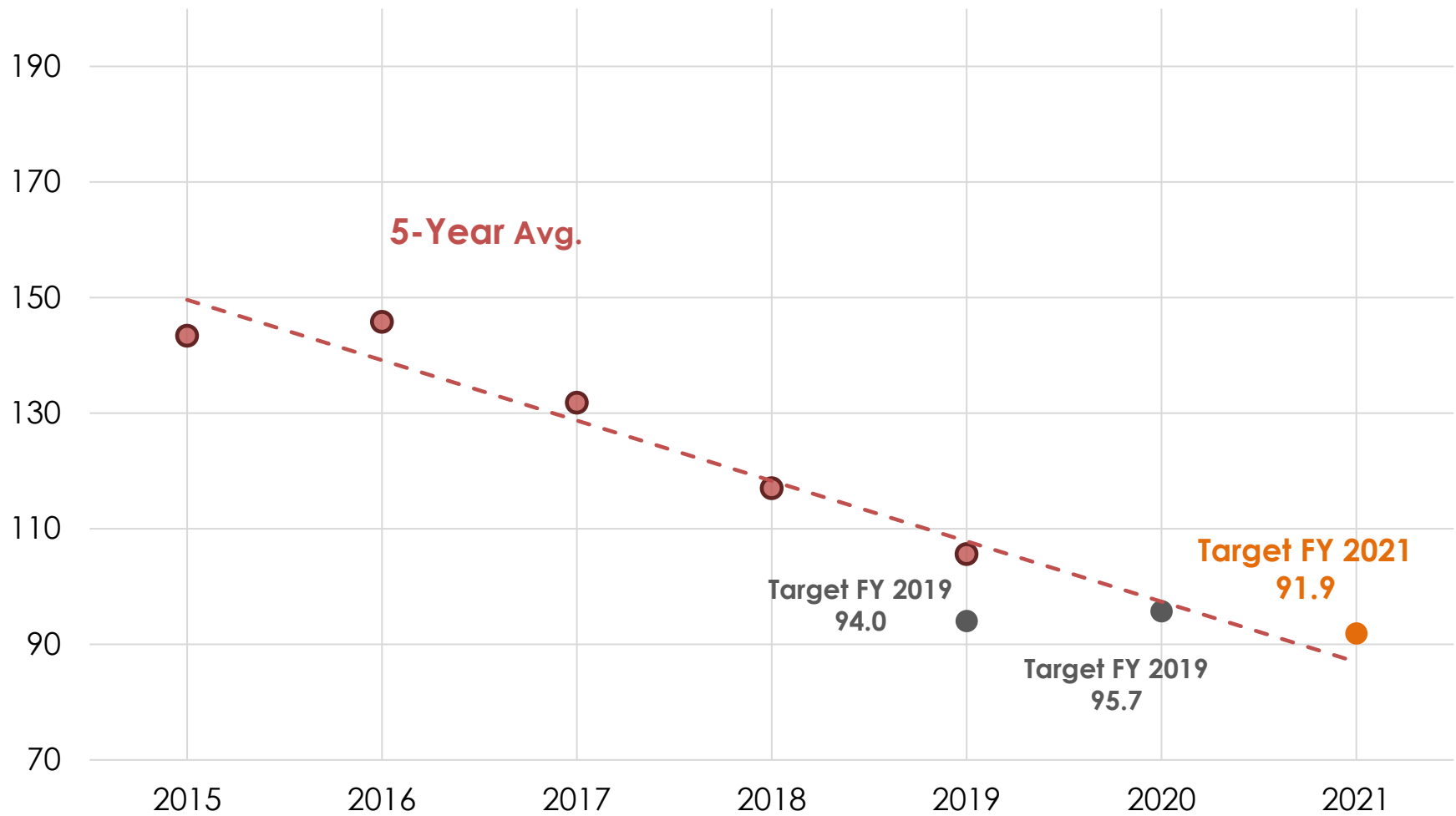
Number of SNHPC Serious Injuries



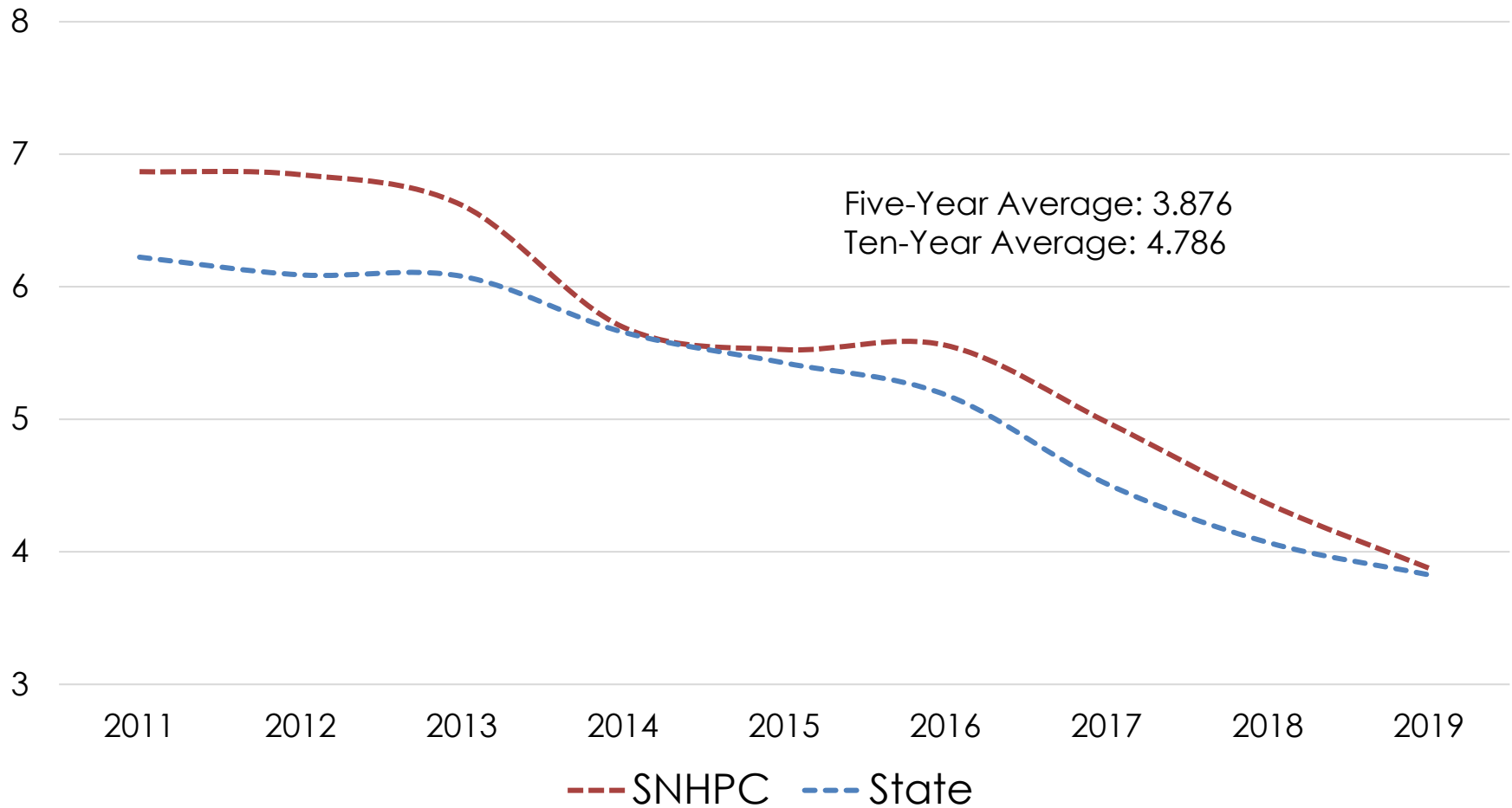
Change in the Number of Serious Injuries



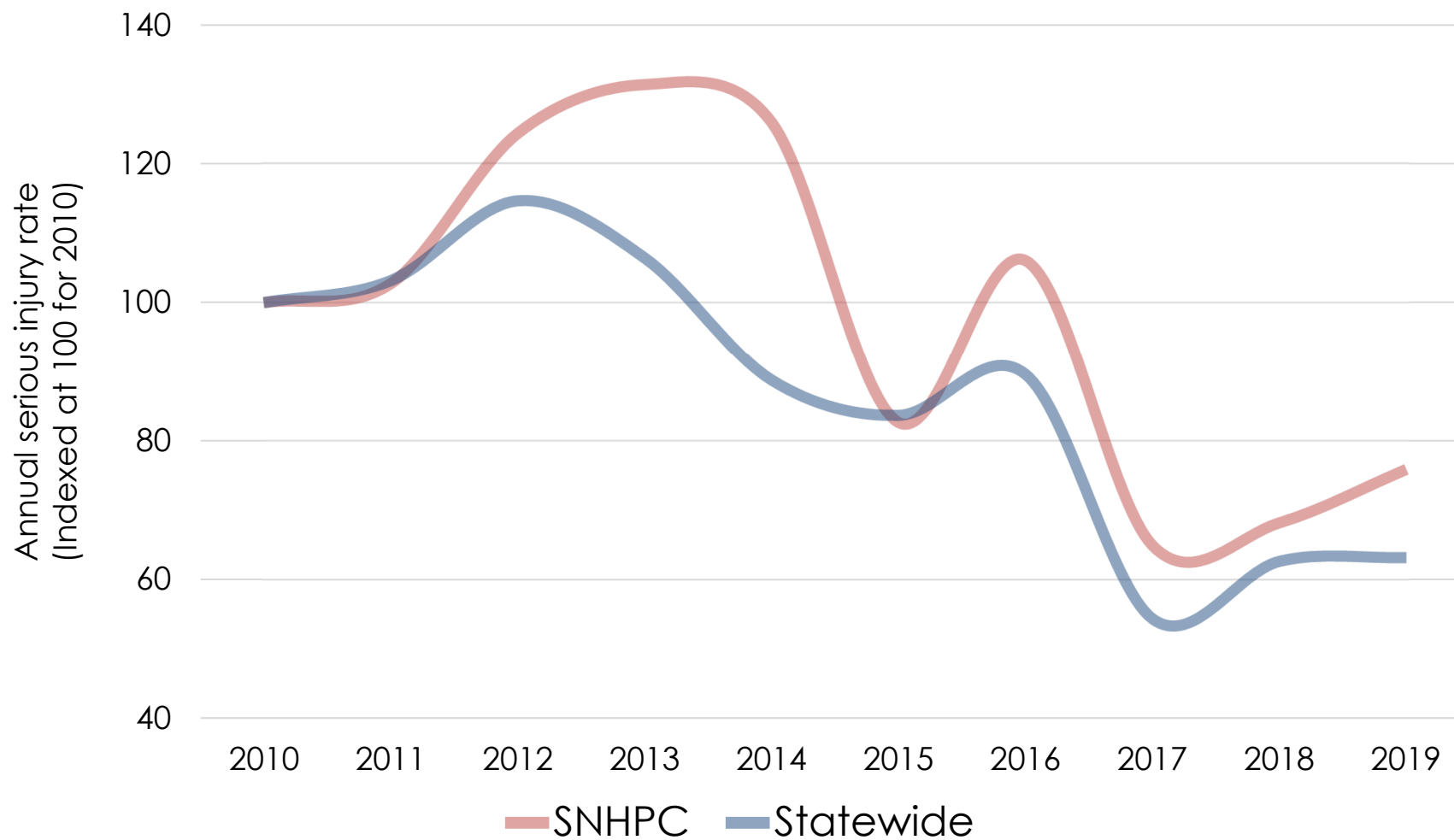
Measure 3: Projected Number of SNHPC Serious Injuries



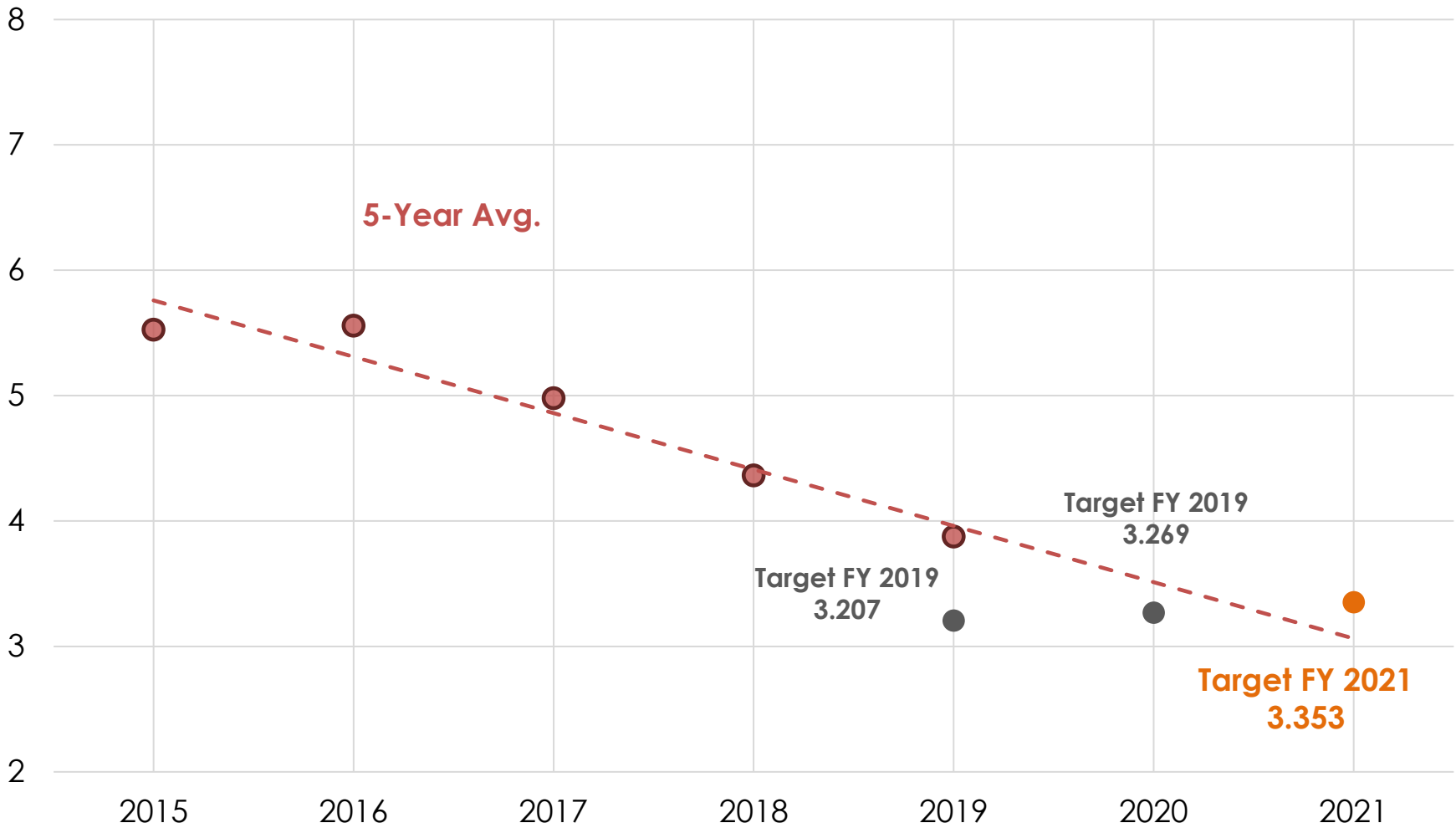
Measure 4: Serious Injury Rate (Five-Year Moving Average)



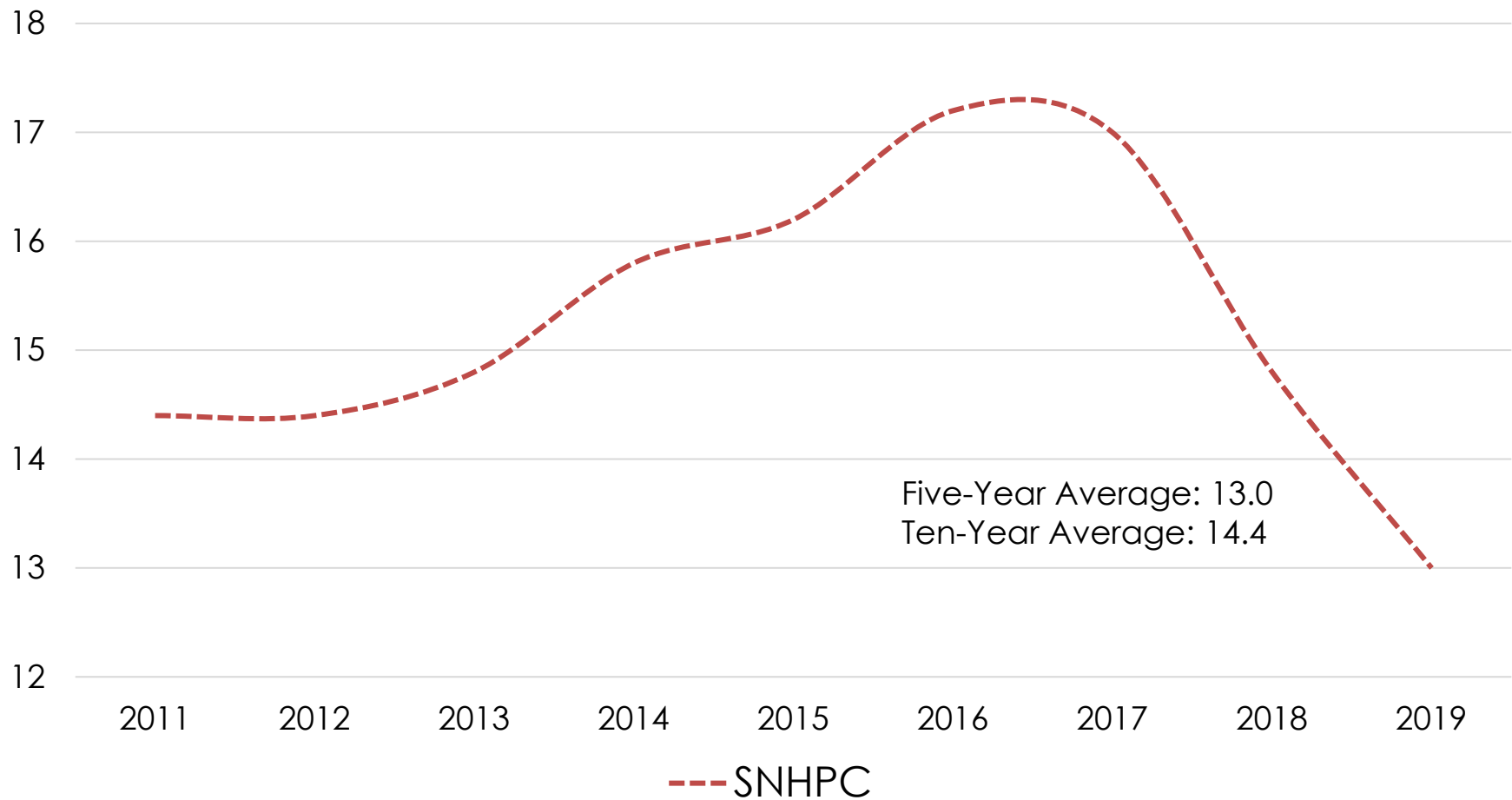
Change in the Serious Injury Rate



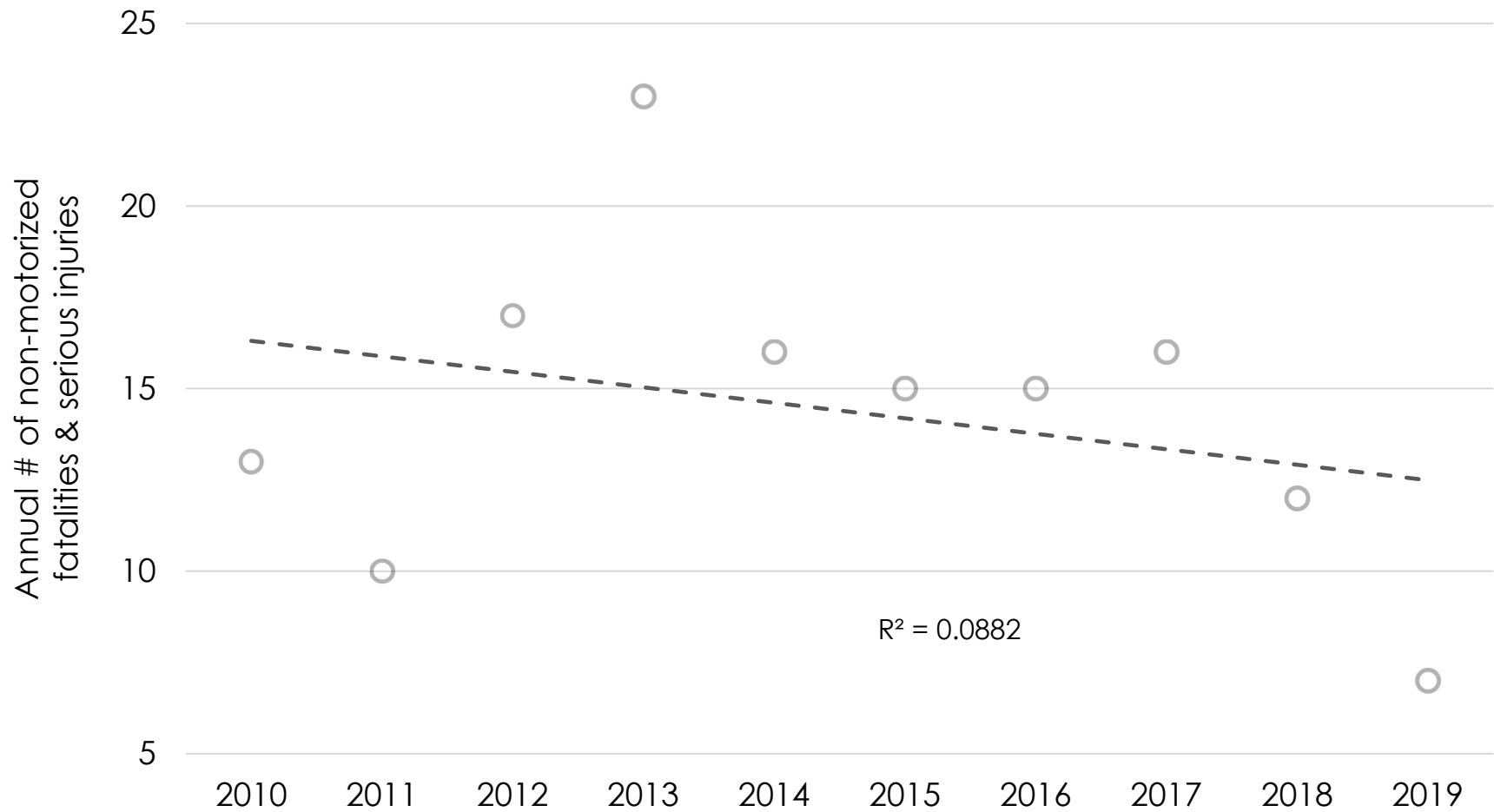
Measure 4: Projected SNHPC Serious Injury Rate



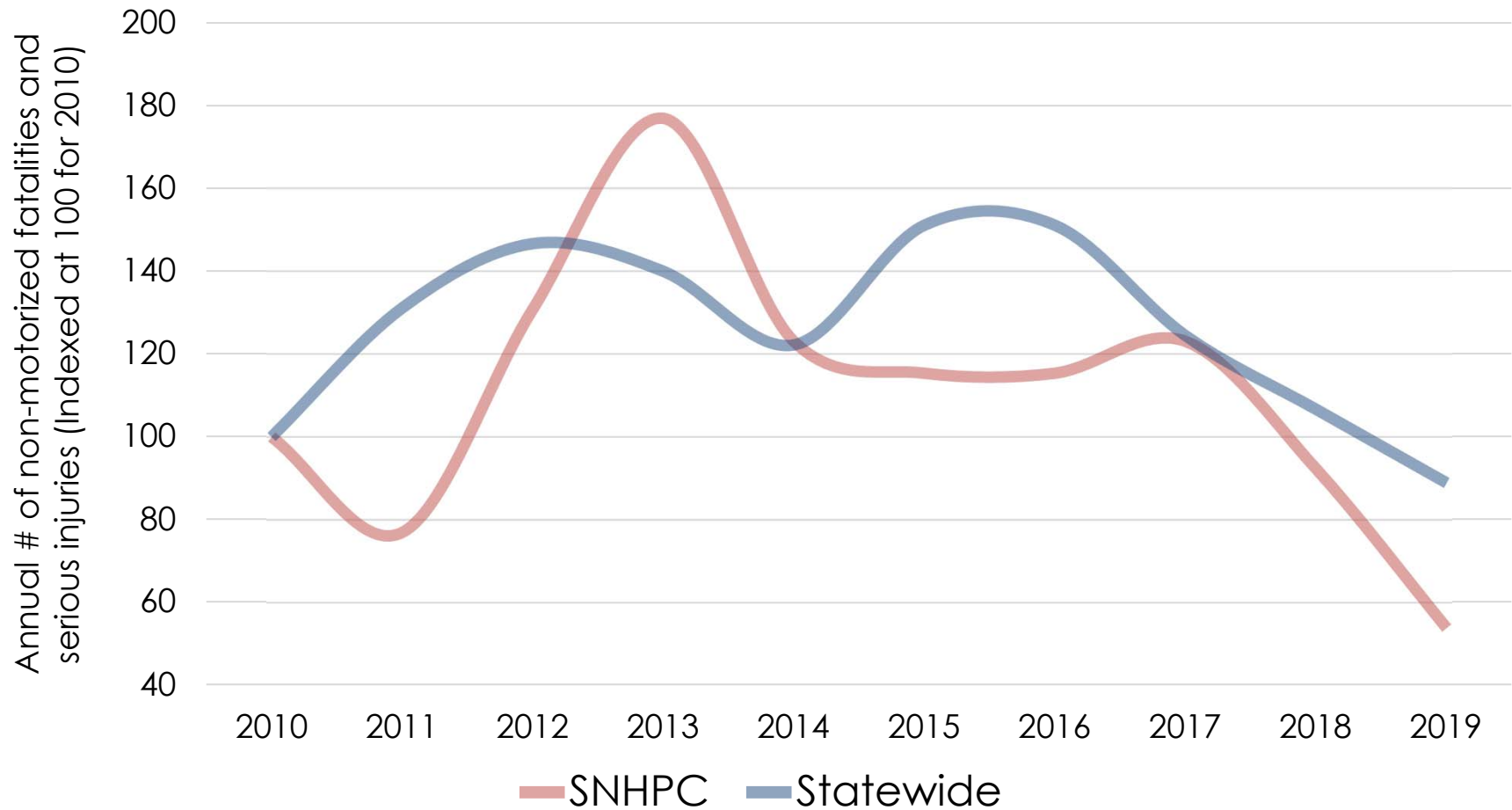
Measure 5: Number of Non-motorized Fatalities and Serious Injuries (Five-Year Moving Average)



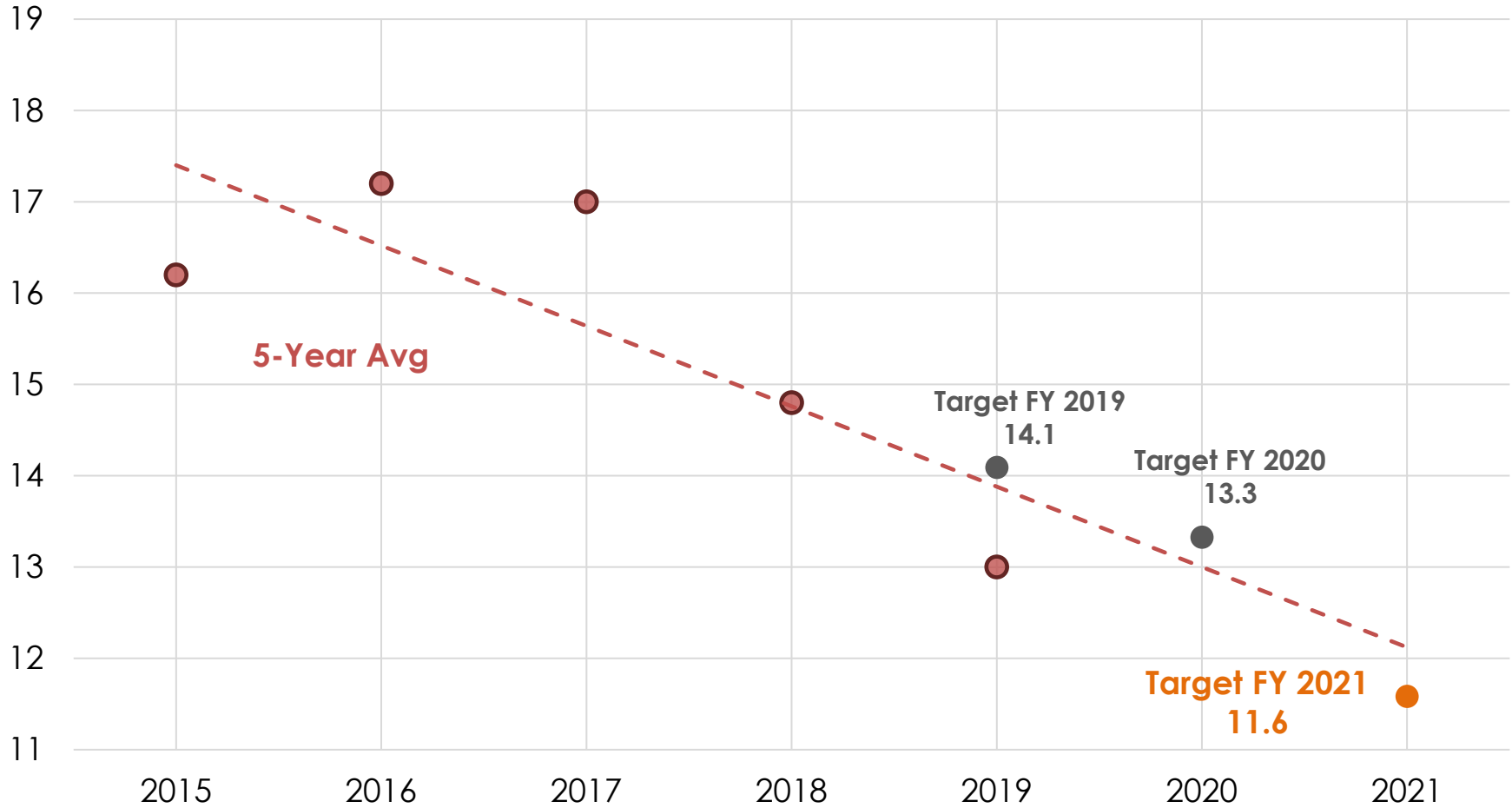
Number of SNHPC Non-motorized Fatalities and Serious Injuries



Change in the Number of Non-motorized Fatalities and Serious Injuries



Measure 5: Projected Number Non-motorized
Fatalities and Serious Injuries



State-level 2021 Safety Performance Targets

Safety Measures	State Five-Year Rolling Average		Trends		State Target
	2014-2018	2015-2019	Recent	Desired	2021
Number of Fatalities	118.8	120.0	↑	↓	120
Fatality Rate per 100 Million VMT	0.885	0.884	↓	↓	0.884
Number of Serious Injuries	560.8	530.2	↓	↓	456.4
Serious Injury Rate per 100 Million VMT	4.071	3.826	↓	↓	3.353
Non-Motorized Fatalities and Serious Injuries	59.0	56.0	↓	↓	45.9

SNHPC 2021 Safety Performance Targets (Proposed)

2019
(Observed) SNHPC Regional Targets

Safety Measures

Number of Fatalities

Fatality Rate per 100 Million VMT

Number of Serious Injuries

Serious Injury Rate per 100 Million VMT

Non-Motorized Fatalities and Serious Injuries

2019	2019	2020	2021
18.8	18.3	18.3	18.2
0.691	0.879	0.885	0.884
105.6	94	95.7	91.9
3.876	3.207	3.269	3.353
13.0	14.1	13.3	11.6

2021 Proposed SNHPC Regional Safety Performance Targets

Safety Measures	SNHPC Five-Year Rolling Averages		Trends		State Target	SNHPC Recommended Target
	2014-2018	2015-2019	Recent	Desired	2021	
Number of Fatalities	13.0	18.8	↑	↓	120.0	Support State Target (approx. 18 regionally)
Fatality Rate per 100 Million VMT	0.715	0.691	↓	↓	0.884	Support State Target
Number of Serious Injuries	117.0	105.6	↓	↓	456.4	Support State Target (approx. 92 regionally)
Serious Injury Rate per 100 Million VMT	4.364	3.876	↓	↓	3.353	Support State Target
Non-Motorized Fatalities and Serious Injuries	14.8	13.0	↓	↓	45.9	Support State Target (approx. 12 regionally)

SNHPC 2021 Safety Performance Targets (Proposed)

Safety Measures	SNHPC		Action
	State Target	Regional Target	
	2021		
Number of Fatalities	120.0	18.2	Support State Target
Fatality Rate per 100 Million VMT	0.884	0.884	Support State Target
Number of Serious Injuries	456.4	91.9	Support State Target
Serious Injury Rate per 100 Million VMT	3.353	3.353	Support State Target
Non-Motorized Fatalities and Serious Injuries	45.9	11.6	Support State Target

Supporting State's Safety Performance Targets

What does supporting mean for SNHPC?

For 2021, staff is recommending that the SNHPC again adopt the State of New Hampshire's Safety Performance Targets. In supporting the State-level targets, the SNHPC would be agreeing to:

- Work with the State and safety stakeholders to address areas of concern for fatalities or serious injuries within the SNHPC metropolitan planning area;
- Coordinate with the State and include the safety performance measures and HSIP targets for all public roads in the metropolitan area in the SNHPC Long-Range Transportation Plan; and
- Integrate into the metropolitan transportation planning process, the safety goals, objectives, performance measures and targets described in other State safety transportation plans and processes such as applicable portions of the HSIP, including the Strategic Highway Safety Plan.

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Questions?



SNHPC

Background Info – Federal Legislation and Safety Performance

FAST - Fixing America's Surface Transportation Act

-FAST Act § 1406(a)(1) and (b);

23 U.S.C. 119(e)(7) Performance achievement.**-A State that does not achieve or make significant progress toward achieving the targets of the State for performance measures described in section 150(d) for the National Highway System shall include as part of the performance target report under section 150(e) a description of the actions the State will **undertake to achieve the targets

***23 U.S.C. 148(i) State Performance Targets.**—If the Secretary determines that a State has not met or made significant progress toward meeting the safety performance targets of the State established under section 150(d), the State shall—*

*(1) use obligation authority equal to the apportionment of the State for the prior year under section 104(b)(3) only for highway safety improvement projects under this section until the Secretary determines that the State has met or made significant progress toward meeting the safety performance targets of the State; and
(2) submit annually to the Secretary, until the Secretary determines*