

2.5 System Performance Report

2.5.1 Safety Targets

FAST Act/MAP-21 is the first transportation reauthorization bill requiring target setting coordination between state DOTs, MPOs and transit agencies on national performance measures. As shown in Table 2-4, targets were coordinated by MoDOT with MPOs, FHWA and National Highway Traffic Safety Administration for five safety performance measures using five-year rolling averages for calendar year 2018. The most recent measures and targets for Missouri are identified in the state's Highway Safety Improvement Program (HSIP) report and the Highway Safety Plan (HSP), approved in November 2017.

TABLE 2-4 – SAFETY PERFORMANCE MEASURES AND TARGETS

Performance Measure	5-Year Rolling Average (2012-2016)	5-Year Rolling Average Statewide Target for CY2018
Number of Fatalities	834	858
Fatality Rate per 100 Million VMT	1.173	1.163
Number of Serious Injuries	4,877	4,559
Serious Injury Rate per 100 Million VMT	6.884	6.191
Number of Non-Motorized Fatalities and Serious Injuries	431	432

Source: MoDOT

Safety is MoDOT's primary goal for Missouri citizens and MoDOT workers so everyone goes home safe every day. MoDOT's 2016-2020 Strategic Highway Safety Plan (SHSP) titled [Missouri's Blueprint – A Partnership Toward Zero Deaths](#) serves as the strategic plan for agencies and organizations working to improve roadway safety and reduce fatalities and serious injuries on Missouri's transportation system. The Blueprint identifies emphasis areas and corresponding strategies safety partners have agreed have the most potential to save lives and reduce injuries. The Blueprint takes a holistic approach to improving safety by considering countermeasures from the four "E's": education, enforcement, engineering, and emergency services. The Missouri Coalition for Roadway Safety (MCRS) leads the implementation of these efforts alongside a number of safety partners including MPOs, RPCs, community leaders, health care providers, legislators, educators, law enforcement, emergency responders, engineers and concerned citizens. The ultimate goal of the Blueprint is to have zero traffic fatalities in Missouri. An interim goal of 700 or fewer fatalities by 2020 has been identified to help evaluate the efforts and strategies implemented. Using the same collaborative approach in developing the new Blueprint goals, MoDOT coordinated with planning partners on these safety targets.

2.5.2 Safety Performance Report

Missouri has seen a 25 percent reduction in fatalities from 2005-2016, from 1,257 in 2005 to 947 in 2016. In recent years however, Missouri has seen an increase in fatalities from 826 in 2012 to 947 in 2016. The graphs below depict the safety data on fatalities and serious injuries.

FIGURE 2-5 – NUMBER OF FATALITIES BY CALENDAR YEAR

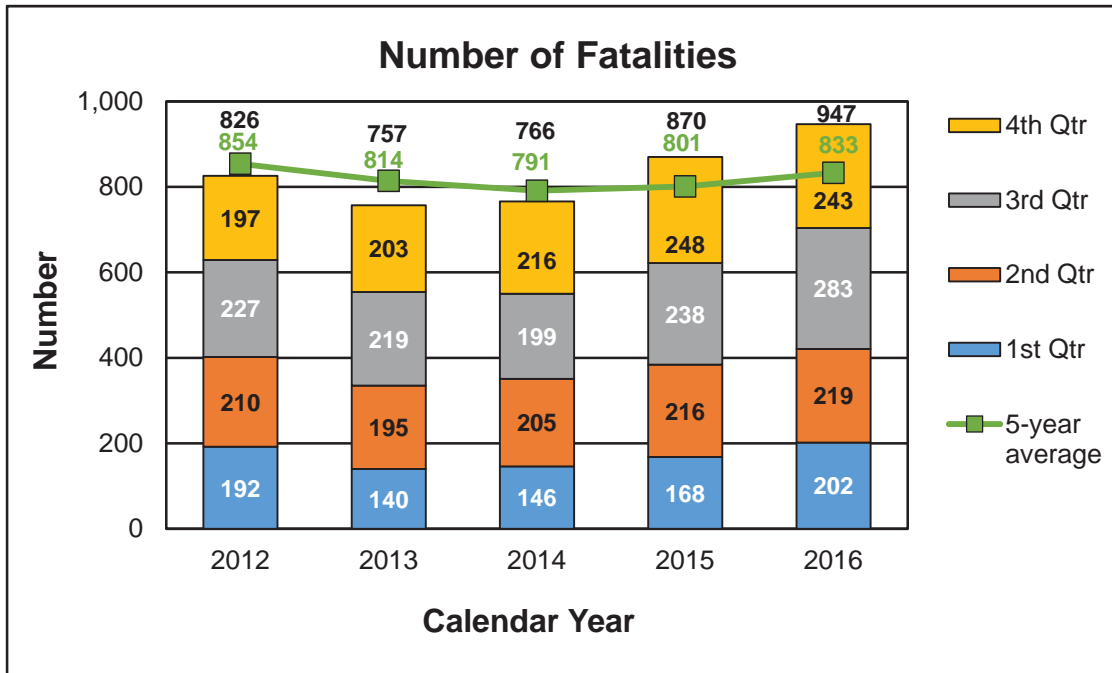


FIGURE 2-6 – RATE OF FATALITIES BY CALENDAR YEAR

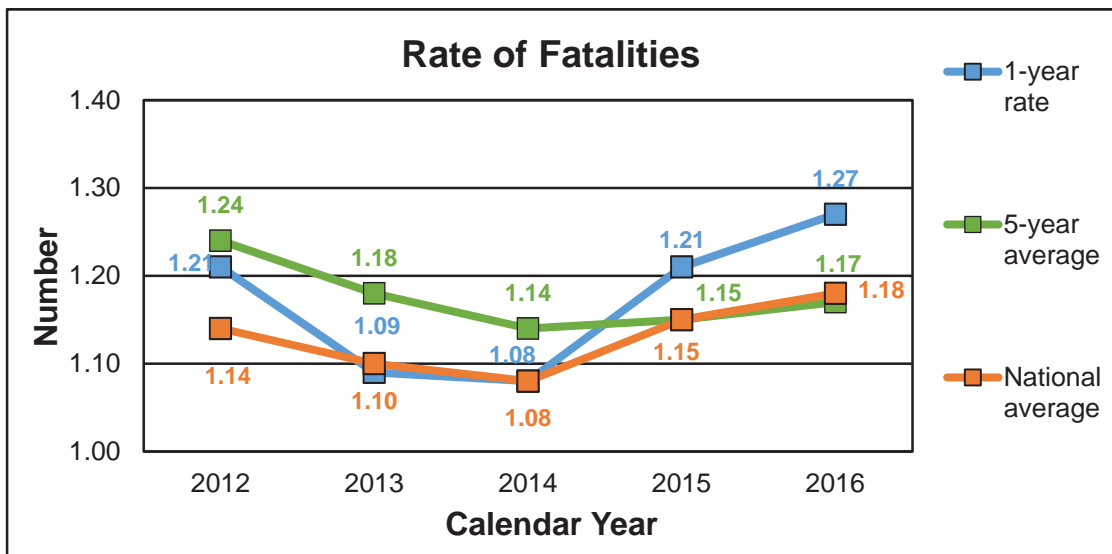


FIGURE 2-7 – NUMBER OF SERIOUS INJURIES BY CALENDAR YEAR

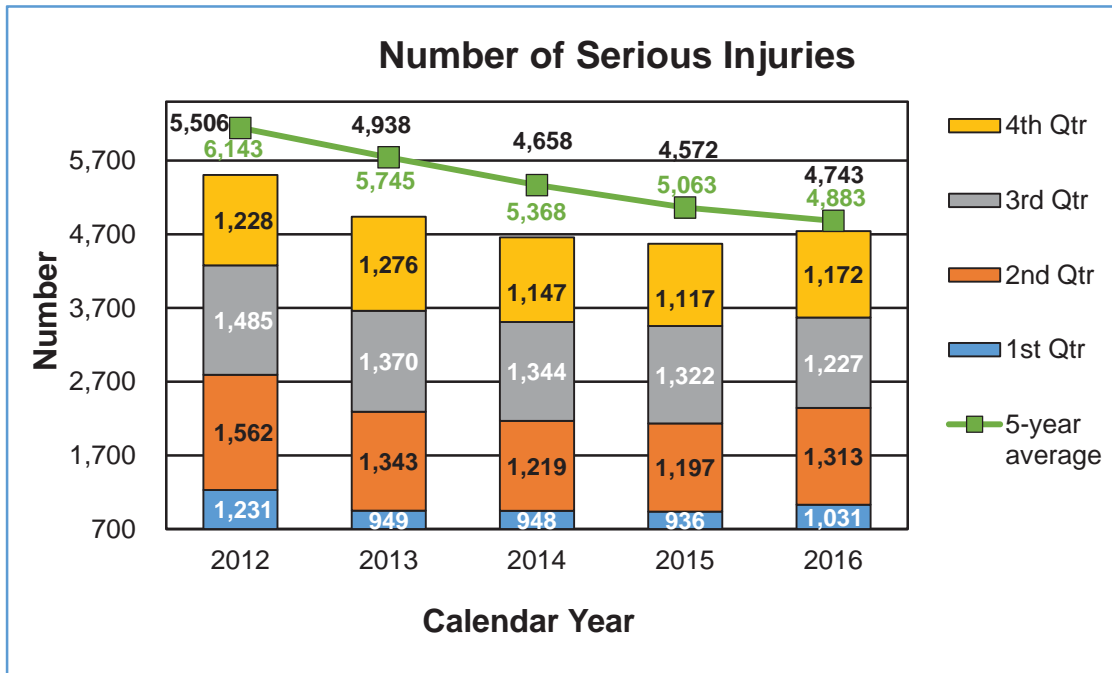


FIGURE 2-8 – RATE OF SERIOUS INJURIES BY CALENDAR YEAR

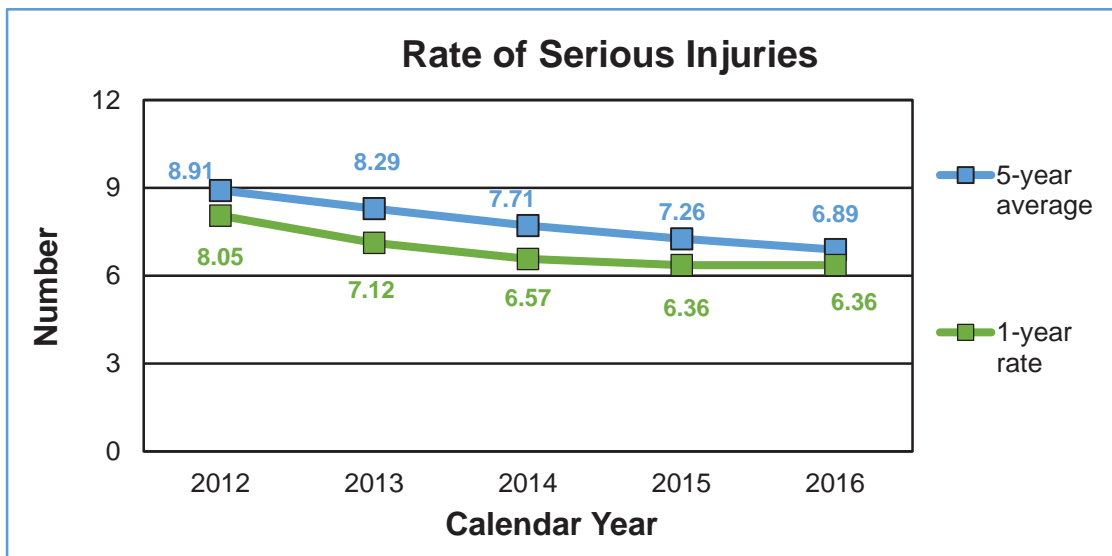


FIGURE 2-9 – PEDESTRIAN FATALITIES AND SERIOUS INJURIES BY CALENDAR YEAR

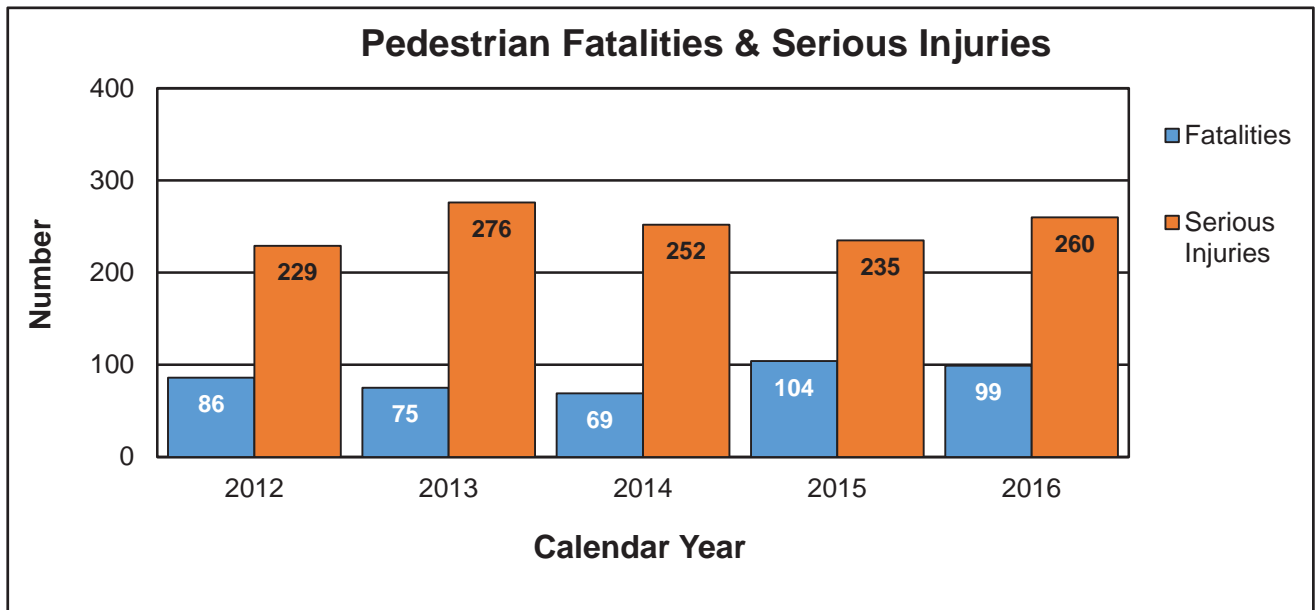
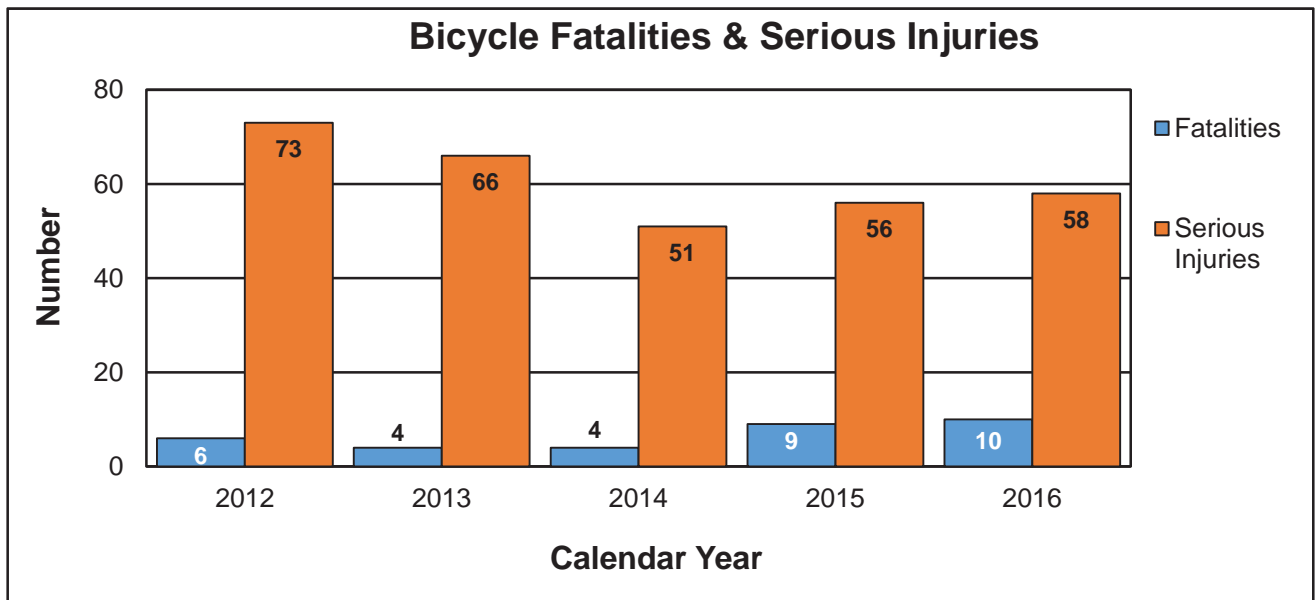
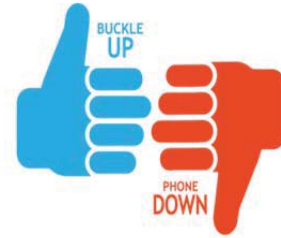


FIGURE 2-10 – BICYCLE FATALITIES AND SERIOUS INJURIES BY CALENDAR YEAR



MoDOT looks for systemic safety issues and determines what can be done to mitigate them. MoDOT engages in significant public outreach efforts using four key disciplines of traffic safety: engineering, enforcement, education and emergency response. While these efforts have proven to save lives, the safety of Missouri's roadways continues to decline due to driver behaviors.

Between 2014-2016, 63 percent of drivers and occupants killed in Missouri crashes were unrestrained. Properly wearing a seat belt or using a child restraint is the single most effective way to prevent death and reduce injury in a crash, yet only 84 percent of Missourians use seat belts, which places Missouri 40th in the nation.



To reverse the trend, MoDOT launched a campaign in 2017 called [Buckle Up, Phone Down \(BUPD\)](#) to increase the percentage of seat belt usage and minimize the amount of distracted driving. The primary message of this campaign is: use a seat belt each and every time while either driving or riding in a vehicle and hands-free use of the phone, if needed, when driving. MoDOT has challenged the general public, local schools, community leaders, along with businesses and others to take the [Buckle Up, Phone Down](#) challenge by signing a commitment to make Missouri roads safe.