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Active Shooter Incidents in the United States in 2016 and 2017

Introduction

The FBI has designated 50 shootings in 2016 and 2017 as active shooter incidents. Twenty incidents occurred in 2016, while 30 incidents occurred in 2017.

As with past FBI active shooter-related publications, this report does not encompass all gun-related situations. Rather, it focuses on a specific type of shooting situation. The FBI defines an active shooter as one or more individuals actively engaged in killing or attempting to kill people in a populated area.¹ Implicit in this definition is the shooter’s use of one or more firearms. The active aspect of the definition inherently implies that both law enforcement personnel and citizens have the potential to affect the outcome of the event based upon their responses to the situation.

This report supplements two previous publications: *A Study of Active Shooter Incidents in the United States Between 2000 and 2013*² and *Active Shooter Incidents in the United States in 2014 and 2015*.³ The methodology articulated in the 2000-2013 study was applied to the 2016 and 2017 incidents to ensure consistency. Excluded from this report are gang- and drug-related shootings and gun-related incidents that appeared not to have put other people in peril (e.g., the accidental discharge of a firearm in a bar). Analysts relied on official law enforcement investigative reports (when available), FBI holdings, and publicly available resources when gathering data for this report.

Though limited in scope, this report was undertaken to provide clarity and data of value to federal, state, tribal, and campus law enforcement as well as other first responders, corporations, educators, and the general public as they seek to neutralize threats posed by active shooters and save lives during such incidents.



This report was written by the FBI’s Office of Partner Engagement in collaboration with the FBI’s Criminal Investigative Division and the Advanced Law Enforcement Rapid Response Training (ALERRT) Center at Texas State University.

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On the cover: Remembering the 547 people killed and wounded while attending the Route 91 Harvest Festival in Las Vegas, Nevada, on October 1, 2017.
(Cover photo by Rmvisulas/CC by 4.0 <https://commons.wikimedia.org/wiki/File:Lasvegassignflowers.jpg>)

1 U.S. federal government agencies define an active shooter as “an individual actively engaged in killing or attempting to kill people in a confined and populated area.” The FBI expands this definition to include more than one individual in an incident and omits the word *confined* as the term excludes incidents that occurred outside buildings.
2 Blair, J. Pete, and Schweit, Katherine W. (2014). *A Study of Active Shooter Incidents 2000-2013*. Texas State University and Federal Bureau of Investigation, U.S. Department of Justice, Washington, D.C. 2014.
3 *Active Shooter Incidents in the United States in 2014 and 2015*, Federal Bureau of Investigation, U.S. Department of Justice, Washington, D.C. 2016.

By the Numbers

50

incidents in 21 states

2014/2015: 40 incidents in 26 states

943

casualties (excluding the shooters) **221** killed; **722** wounded.

2014/2015: 231 casualties (excluding the shooters): 92 killed and 139 wounded.

13

law enforcement officers killed

2014/2015: 4 law enforcement officers killed

20

law enforcement officers wounded

2014/2015: 10 law enforcement officers wounded

20

met “mass killing” definition

2014/2015: 20 met “mass killing” definition

14

incidents ended with the exchange of gunfire between the shooters and law enforcement

2014/2015: 14 incidents incidents ended with the exchange of gunfire between the shooters and law enforcement

50

shooters — all male

2014/2015: 42 shooters. 39 male; 3 female.

3

shooters wore body armor

2014/2015: 2 shooters wore body armor

13

shooters committed suicide

2014/2015: 16 shooters committed suicide.

11

shooters killed by police

2014/2015: 14 killed by police

8

shooters stopped by citizens

2014/2015: 6 stopped by citizens.

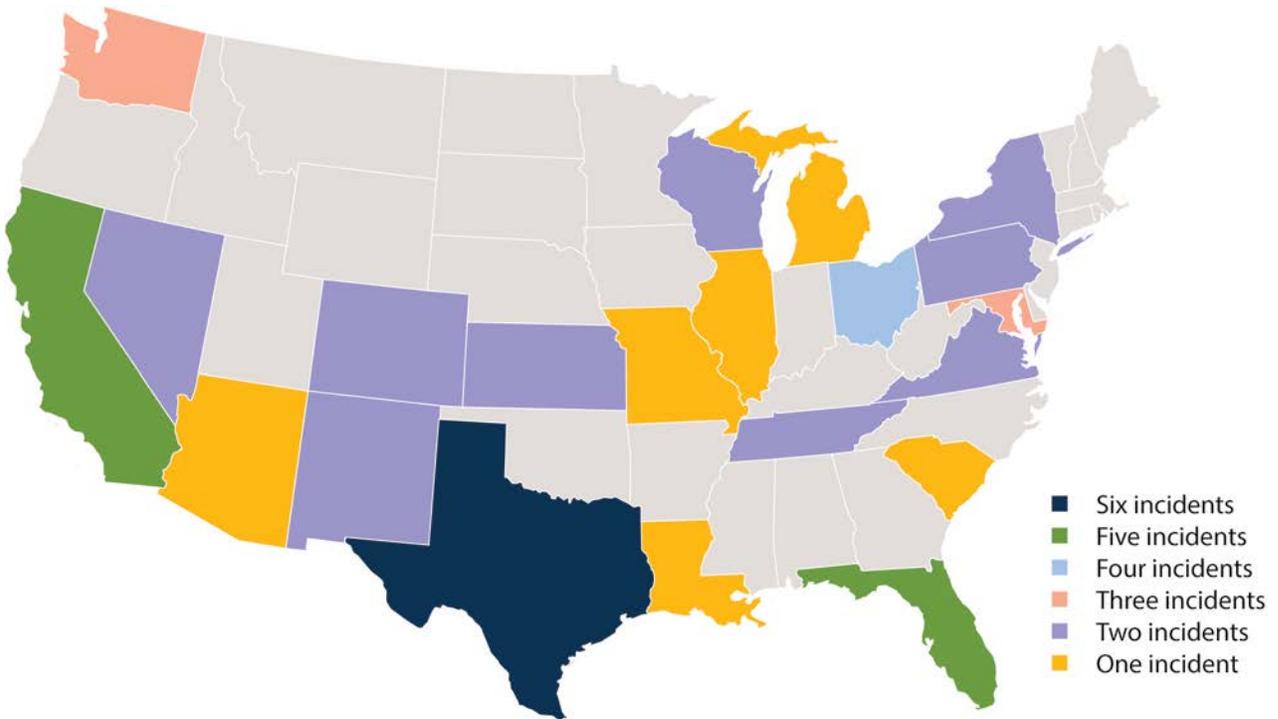
18

shooters apprehended by police

2014/2015: 12 apprehended by police.

Details

Twenty of the 50 incidents met the criteria cited in the federal definition of “mass killings,”⁴ that is, “three or more killings in a single incident.”⁵



The 50 active shooter incidents occurred in 21 states.

- Six incidents occurred in Texas.
- Five incidents occurred in each of the following states: California and Florida.
- Four incidents occurred in Ohio.
- Three incidents occurred in each of the following states: Maryland and Washington.
- Two incidents occurred in each of the following states: Colorado, Kansas, Nevada, New Mexico, New York, Pennsylvania, Tennessee, Virginia, and Wisconsin.
- One incident occurred in each of the following states: Arizona, Illinois, Louisiana, Michigan, Missouri, and South Carolina.

Casualties

The 50 incidents resulted in 943 casualties (221 people killed and 722 people wounded, excluding the shooters). The highest number of casualties (58 killed and 489 wounded) occurred during the Route 91 Harvest Festival in Las Vegas, Nevada, in 2017. The second highest number of casualties (49 killed and 53 wounded) occurred at Pulse, a nightclub in Orlando, Florida, in 2016. The third highest number of casualties (26 killed and 20 wounded) occurred at the First Baptist Church in Sutherland Springs, Texas, in 2017.

⁴ Investigative Assistance for Violent Crimes Act USC 530C(b)(1)(M)(i).

⁵ The statute does not address the inclusion or exclusion of the shooter. The FBI does not include the shooter in its mass killing statistics.

Law Enforcement/Security Personnel Engagement and Casualties

Law enforcement officers exchanged gunfire with the shooter at the scene of 14 incidents.⁶ They sustained casualties in eight of those incidents.

A total of 33 law enforcement officers were killed or wounded in 12 incidents. Of note, 14 of the 33 casualties occurred in a single incident (five law enforcement officers were killed and nine were wounded as a protest in Dallas, Texas, was winding down).

Thirteen law enforcement officers were killed in six incidents.

- Three law enforcement officers were killed while engaging the shooter to end the threat. Two of the three law enforcement officers⁷ were killed by the shooter. One plainclothes law enforcement officer was killed by friendly fire.⁸
- Six law enforcement officers were ambushed.⁹
- Two law enforcement officers were killed while responding to the incident.¹⁰ (They did not exchange gunfire with the shooter.)
- Two off-duty law enforcement officers were among the 58 event attendees killed by the shooter.¹¹

Twenty law enforcement officers were wounded in eight incidents.

- Thirteen law enforcement officers were wounded while engaging the shooter to end the threat.¹²
- Four law enforcement officers were ambushed.¹³
- Three law enforcement officers were wounded while responding to the incident. (They did not exchange gunfire with the shooter.)¹⁴

Security personnel confronted the shooter at the scene of two incidents. One security guard was wounded.

- Two armed, non-sworn security personnel in one incident exchanged gunfire with the shooter causing the shooter to flee the scene.¹⁵ He was arrested a short time later at another location.
- One unarmed security guard was wounded as he struggled with the shooter.¹⁶ The security guard was able to flee and alert an off-duty law enforcement officer working nearby. The shooter committed suicide at the scene as additional law enforcement officers arrived.

6 Excel Industries and Newton and Hesston, Kansas; Prince George's County Police Department District 3 Station; Antigo High School; Memorial Tire and Auto; Pulse nightclub; protest in Dallas, Texas; Days Inn and Volunteer Parkway; Benny's Car Wash, Oil Change & B-Quik and Hair Crown Beauty Supply; multiple locations in Philadelphia, Pennsylvania; Law Street in Houston, Texas; Marathon Savings Bank and Tlusty, Kennedy & Dirks, S.C.; La Jolla Crossroads apartment complex; Eugene Simpson Stadium Park; Rancho Tehama Elementary School and multiple locations in Tehama County, California.

7 Protest in Dallas, Texas, and Benny's Car Wash, Oil Change & B-Quik and Hair Crown Beauty Supply.

8 Prince George's County Police Department District 3 Station.

9 Protest in Dallas, Texas (three ambushed); Benny's Car Wash, Oil Change & B-Quik and Hair Crown Beauty Supply (two ambushed); and Pine Kirk Care Center (one ambushed).

10 Protest in Dallas, Texas, and Marathon Savings Bank and Tlusty, Kennedy & Dirks, S.C.

11 Route 91 Harvest Festival.

12 Memorial Tire and Auto (two wounded); protest in Dallas, Texas (five wounded); Days Inn and Volunteer Parkway (one wounded); Benny's Car Wash, Oil Change & B-Quik and Hair Crown Beauty Supply (three wounded); multiple locations in Philadelphia, Pennsylvania (one wounded); and Eugene Simpson Stadium Park (one wounded).

13 Protest in Dallas, Texas (three wounded), and multiple locations in Philadelphia, Pennsylvania (one wounded).

14 Protest in Dallas, Texas (one wounded); multiple locations in Clearlake Oaks, California (one wounded); and multiple locations in Baltimore, Maryland (one wounded).

15 Highway 141 in Gateway, Colorado.

16 University of Cincinnati Medical Center.

Citizen Engagement and Casualties

In 10 incidents, citizens confronted the shooter. In eight of those incidents, one or more citizens safely and successfully acted to end the shooting.

- In four incidents, unarmed citizens confronted or persuaded the shooter to end the shooting. In two incidents,¹⁷ school staff confronted and restrained the shooter. In one incident,¹⁸ the citizen used his car to thwart the shooter. In one incident,¹⁹ the citizen persuaded the shooter to surrender via telephone during a police chase; she ran up to the shooter's car as he came to a stop and pulled him out of his seat, bringing the chase to an end.
- In four incidents, citizens possessing valid firearms permits successfully stopped the shooter. In two incidents,²⁰ citizens exchanged gunfire with the shooter. In two incidents, the citizens held the shooter at gunpoint until law enforcement arrived.²¹
- In one incident, a citizen possessing a valid firearms permit exchanged gunfire with the shooter, causing the shooter to flee to another scene and continue shooting.²²
- In one incident, a citizen possessing a valid firearms permit was wounded before he could fire at the shooter.²³

The Shooters

The 50 shooters were all male. Each acted alone.

- The shooters ranged in age from 14 years to 66 years. Seven shooters were in their teens, 18 were in their 20s, nine were in their 30s, nine were in their 40s, three were in their 50s, and four were in their 60s.
- Three shooters wore body armor.²⁴
- Thirteen shooters committed suicide (eight at the scene before law enforcement arrived, three at the scene after law enforcement arrived, and two at another location).
- Eleven shooters were killed by law enforcement. Ten were killed at the scene (two of the 10 were wounded at the scene and died a few hours later, and one of the 10 was killed at the scene by a bomb-carrying robot). One shooter was killed by law enforcement at another location.
- Eight shooters were stopped by citizens.
- Eighteen shooters were apprehended by police.

¹⁷ West Liberty-Salem High School and Freeman High School.

¹⁸ Dollar General store.

¹⁹ Multiple locations in Baltimore, Maryland.

²⁰ First Baptist Church in Sutherland Springs, Texas, and Schlenker Automotive.

²¹ Townville Elementary School and Burnette Chapel Church of Christ.

²² Multiple locations in Clearlake Oaks, California.

²³ Memorial Tire and Auto.

²⁴ Multiple locations in Kalamazoo, Michigan; Benny's Car Wash, Oil Change & B-Quik and Hair Crown Beauty Supply; and Dollar General store.

Locations²⁵

Seventeen of the 50 incidents occurred in areas of commerce, resulting in 85 killed and 98 wounded.

- Twelve incidents occurred in business environments generally open to the public,²⁶ resulting in 70 killed (49 in one incident) and 79 wounded (53 in one incident). One law enforcement officer was killed, and three were wounded in two of the incidents. One of the shooters wore body armor.²⁷ Four of the shooters were current employees of the various businesses. Two citizens possessing valid firearms permits neutralized the shooter in one incident. One citizen possessing a valid firearms permit was wounded before he could fire at the shooter. Seven shooters were apprehended, three shooters were killed by police and two shooters committed suicide.
- Four incidents occurred in business environments generally closed to pedestrian traffic,²⁸ resulting in 10 killed and 19 wounded. One shooter was a current employee; three were former employees. Two shooters were killed by police, and two committed suicide.
- One incident occurred at a mall,²⁹ resulting in five killed and none wounded. The shooter fled the scene; he was apprehended the next day in a nearby city.

Seven³⁰ of the 50 incidents occurred in education environments, resulting in five killed and 19 wounded.

- Two incidents³¹ occurred in elementary schools, resulting in two killed (including a first-grade student) and eight wounded (one teacher shot, three students shot, four wounded from shrapnel). One of the shooters killed his father prior to heading to his former school. A volunteer firefighter tackled the 14-year-old shooter and restrained him at gunpoint until law enforcement officers arrived and arrested him. In the other incident, the 44-year-old shooter killed his wife at their home, then killed and wounded a number of people the next day at multiple locations before and after he opened fire at the school.³²
- One incident³³ occurred in a junior/senior high school, resulting in none killed, four wounded (two from shrapnel, all students). The 14-year-old shooter, a current student, was apprehended near the school by law enforcement officers.
- Four incidents³⁴ occurred at high schools (one outside a school during a prom), resulting in three killed (all students) and seven wounded (all students). Two shooters (15 and 17 years old) were current students, and two shooters (18 and 21 years old) were former students. Two shooters were arrested after being subdued by school staff members, One shooter was wounded during an exchange of gunfire with law enforcement officers and died a few hours later at a nearby hospital, and one shooter committed suicide before police arrived at the scene.

25 In *A Study of Active Shooter Incidents in the United States Between 2000 and 2013*, the FBI identified 11 locations where the public was most at risk during an incident. These location categories include commercial areas (divided into businesses open to pedestrian traffic, businesses closed to pedestrian traffic, and malls), education environments (divided into schools [pre-kindergarten through 12th grade] and institutions of higher learning), open spaces, government properties (divided into military and other government properties), residences, houses of worship, and health care facilities. In 2018, the FBI added a new location category, other location, to capture incidents that occurred in venues not included in the 11 previously identified locations.

26 Marathon Savings Bank and Tlusty, Kennedy & Dirks, S.C.; The Cooler; Weis Supermarket; UPS Customer Center; Advanced Granite Solutions and 28th Street Auto Sales and Service; multiple locations in Clearlake Oaks, California; Walmart in Thornton, Colorado; Dollar General store; Schlenker Automotive; Memorial Tire and Auto; Pulse nightclub; and H-E-B grocery store.

27 Dollar General store.

28 Fiamma Inc.; Excel Industries and Newton and Hesston, Kansas; Knight Transportation Building; and FreightCar America.

29 Cascade Mall.

30 Madison Junior/Senior High School; Antigo High School; Townville Elementary School; West Liberty-Salem High School; Freeman High School; Rancho Tehama Elementary School and multiple locations in Tehama County, California; and Aztec High School.

31 Townville Elementary School and Rancho Tehama Elementary School and multiple locations in Tehama County, California.

32 Only the school-related phase of the Rancho Tehama Elementary School and multiple locations in Tehama County, California incident is discussed in the education environments section. A total of five people were killed and 14 wounded in the incident (no one at the school was killed; five students at the school were wounded).

33 Madison Junior/Senior High School.

34 Antigo High School, West Liberty-Salem High School, Freeman High School, and Aztec High School.

Fourteen³⁵ of the 50 incidents occurred in a variety of open space locations, resulting in 79 killed (58 in one incident) and 540 wounded (489 in one incident).

- Ten law enforcement officers were killed and 17 were wounded, the most in any one location category. In 12 of the incidents, the shooters shot motorists from their parked or moving vehicles or while on foot. Two shooters wore body armor.³⁶ In one incident, a citizen persuaded the shooter to surrender via telephone during a police chase; she ran up to the shooter's car as he came to a stop and pulled him out of his seat, bringing the chase to an end. Eight shooters were apprehended, five were killed by law enforcement (one by a bomb-carrying robot), and one committed suicide.

Three³⁷ of the 50 incidents occurred on government properties, resulting in eight killed and 12 wounded.

- One plainclothes law enforcement officer was killed by friendly fire.³⁸ All three shooters were arrested at the scene.

Two³⁹ of the 50 incidents occurred solely at residences, resulting in four killed (including the ex-girlfriend of one shooter) and eight wounded.

- One shooter fled the scene; he was apprehended by law enforcement officers a few hours later. The other shooter was killed during an exchange of gunfire with law enforcement at the scene.

Two⁴⁰ of the 50 incidents occurred in houses of worship, resulting in 27 killed and 27 wounded.

- Citizens (two possessing valid firearms permit) confronted the shooters in both incidents, neutralizing the threat. One shooter was apprehended by law enforcement; the other committed suicide.

Four⁴¹ of the 50 incidents occurred in health care facilities, resulting in seven killed (including the brother of one shooter and the ex-girlfriend of another shooter) and eight wounded.

- One law enforcement officer was ambushed just prior to an incident.⁴² An unarmed security guard was wounded in another incident. One shooter was a former employee. All four shooters committed suicide before police arrived at the scene.

One incident⁴³ occurred on a bus (other location),⁴⁴ resulting in one killed and one wounded.

- One incident took place inside a double-decker bus. The shooter surrendered to law enforcement after a four-hour standoff and was taken into custody.

35 Residence and bus stop in Sanford, Florida; multiple locations in Fresno, California; Eugene Simpson Stadium Park; Highway 141 in Gateway, Colorado; Route 91 Harvest Festival; multiple locations in Baltimore, Maryland; multiple locations in Kalamazoo, Michigan; Arizona State Route 87; protest in Dallas, Texas; Days Inn and Volunteer Parkway; Benny's Car Wash, Oil Change & B-Quik and Hair Crown Beauty Supply; multiple locations in Joplin, Missouri; multiple locations in Philadelphia, Pennsylvania; and Law Street in Houston, Texas.

36 Multiple locations in Kalamazoo, Michigan, and Benny's Car Wash, Oil Change & B-Quik and Hair Crown Beauty Supply.

37 Fort Lauderdale-Hollywood International Airport, Clovis-Carver Public Library, and Prince George's County Police Department District 3 Station.

38 Prince George's County Police Department District 3 Station.

39 House party in Mukilteo, Washington, and La Jolla Crossroads apartment complex.

40 Burnette Chapel Church of Christ and First Baptist Church of Sutherland Springs.

41 Group home in Topeka, Kansas; Pine Kirk Care Center; Bronx-Lebanon Hospital Center; and University of Cincinnati Medical Center.

42 Pine Kirk Care Center.

43 Las Vegas bus.

44 In 2018, the FBI added a new location category, other location, to capture incidents that occurred in venues not included in the 11 previously identified locations.

Conclusion

All 50 FBI active shooter-designated incidents during the 2016-2017 time frame were single-shooter events, and all shooters were male. Casualty numbers were dramatically higher due to three incidents: the Route 91 Harvest Festival in Las Vegas, Nevada; the Pulse nightclub in Orlando, Florida; and the First Baptist Church in Sutherland Springs, Texas. As in previous years, the shooters' ages spanned decades: from 14 to 66. No active shooter incidents took place at institutions of higher education or on military property in 2016 or 2017.

The highest number of law enforcement casualties in a single active shooter incident since 2000 occurred in 2016, when five law enforcement officers were killed and nine law enforcement officers were wounded. Law enforcement used a bomb-carrying robot to kill the shooter and end the threat. Ten law enforcement officers were killed and 17 were wounded in open spaces where the shooters were moving through streets and between buildings.

Armed and unarmed citizens engaged the shooter in 10 incidents. They safely and successfully ended the shootings in eight of those incidents. Their selfless actions likely saved many lives.

The enhanced threat posed by active shooters and the swiftness with which active shooter incidents unfold support the importance of preparation by law enforcement officers and citizens alike.

Active Shooter Incidents in the United States in 2016 and 2017

Multiple Locations in Kalamazoo, Michigan (Open Space)

On February 20, 2016, at 5:40 p.m., Jason Brian Dalton, 45, wearing body armor and armed with a handgun, allegedly began shooting at the first of eight people in three different areas of Kalamazoo, Michigan. For nearly seven hours, the shooter drove to multiple locations, shooting at individuals outside an apartment complex, car dealership, and restaurant parking lot. In between the shootings, the shooter, who was moonlighting as a driver for a ride sharing company, continued to pick up fares. Six people were killed; two were wounded. Law enforcement officers apprehended the shooter in downtown Kalamazoo about two hours after the final shooting.

Excel Industries and Newton and Hesston, Kansas (Commerce)

On February 25, 2016, at 4:57 p.m., Cedric Larry Ford, 38, armed with a handgun and a rifle, began shooting from his vehicle in Newton, Kansas. He shot and wounded one person, then traveled about two miles north to Hesston and shot and wounded another person. He then traveled to his place of employment, Excel Industries, where he killed three people and wounded 12. Three people were killed; 14 were wounded. The shooter was killed in an exchange of gunfire with law enforcement officers.

Madison Junior/Senior High School (Education)

On February 29, 2016, at 11:30 a.m., James Austin Hancock, 14, armed with a handgun, allegedly began shooting in the cafeteria of Madison Junior/Senior High School in Middletown, Ohio. He shot two students before fleeing the building. No one was killed; four students were wounded (two from shrapnel). The shooter was apprehended near the school by law enforcement officers.

Prince George's County Police Department District 3 Station (Government)

On March 13, 2016, at 4:30 p.m., Michael Ford, 22, armed with a handgun, allegedly began shooting at the Prince George's County Police Department District 3 station in Landover, Maryland. One plainclothes law enforcement officer was killed by friendly fire; no one was wounded. The shooter was wounded in an exchange of gunfire with law enforcement officers before being apprehended.

Antigo High School (Education)

On April 23, 2016, at 11:02 p.m., Jakob Edward Wagner, 18, armed with a rifle, began shooting outside a prom being held at his former school, Antigo High School in Antigo, Wisconsin. Two law enforcement officers, who were on the premises, heard the shots and responded immediately. No one was killed; two students were wounded. The shooter was wounded in an exchange of gunfire with law enforcement officers and later died at the hospital.

Knight Transportation Building (Commerce)

On May 4, 2016, at 8:45 a.m., Marion Guy Williams, 65, armed with a shotgun and a handgun, began shooting as he entered the Knight Transportation building in Katy, Texas. The shooter had been fired from the company two weeks prior. One person was killed; two were wounded. The shooter committed suicide after law enforcement officers arrived.

Arizona State Route 87 (Open Space)

On May 24, 2016, at 8:30 p.m., James David Walker, 36, armed with a rifle, allegedly began shooting at motorists along a 13-mile stretch of Beeline Highway (Arizona State Route 87) near Phoenix, Arizona. Over the next few hours, the shooter shot at motorists, stole a woman's cell phone at gunpoint, and stole a man's vehicle at gunpoint. The stolen vehicle was found abandoned in a ditch a short time later. With the help of a police canine, the shooter was found hiding in the desert not far from the stolen vehicle. No one was killed; two were wounded. The shooter was apprehended by law enforcement officers.

Memorial Tire and Auto (Commerce)

On May 29, 2016, at 10:15 a.m., Dionisio Agustine Garza III, 25, armed with a rifle and a handgun, began shooting at Memorial Tire and Auto in Houston, Texas. One person was killed; six were wounded, including two law enforcement officers and an armed civilian who was wounded while attempting to stop the shooter. The shooter was killed in an exchange of gunfire with law enforcement officers.

Pulse Nightclub (Commerce)

On June 12, 2016, at 2:02 a.m., Omar Mir Seddique Mateen, 29, armed with a rifle and a handgun, began shooting patrons inside Pulse nightclub in Orlando, Florida. Law enforcement officers entered the nightclub and engaged the shooter. The shooter then barricaded himself inside a bathroom with hostages for approximately three hours. Forty-nine people were killed; 53 were wounded. The shooter was killed in an exchange of gunfire with law enforcement officers after they breached the building.

Days Inn and Volunteer Parkway (Open Space)

On July 7, 2016, at 2:18 a.m., Lakeem Keon Scott, 37, armed with an assault rifle and handgun, allegedly began shooting while on foot, at a Days Inn in Bristol, Tennessee, and at motorists along Volunteer Parkway. One person was killed; three were wounded, including one law enforcement officer. The shooter was wounded during an exchange of gunfire with law enforcement officers before being apprehended.

Protest in Dallas, Texas (Open Space)

On July 7, 2016, at 9:00 p.m., Micah Xavier Johnson, 25, armed with two rifles and a handgun, began shooting at the end of a protest in Dallas, Texas. Five law enforcement officers were killed; 11 were wounded, including nine law enforcement officers. The shooter was killed by a bomb-carrying robot.

Benny's Car Wash, Oil Change & B-Quik and Hair Crown Beauty Supply (Open Space)

On July 17, 2016, at 8:40 a.m., Gavin Eugene Long, 29, wearing a mask and body armor and armed with two rifles and a handgun, began shooting at law enforcement officers who were responding to reports of a man carrying a weapon in the vicinity of the Hammond Aire Plaza Shopping Center on Airline Highway in Baton Rouge, Louisiana. Officers responding to calls of shots fired and officers down were also shot. Three law enforcement officers were killed; three law enforcement officers were wounded. The shooter was killed in an exchange of gunfire with law enforcement officers.

House Party in Mukilteo, Washington (Residence)

On July 30, 2016, at 12:07 a.m., Allen Christopher Ivanov, 19, armed with a rifle, allegedly began shooting at people attending a house party in Mukilteo, Washington. Three people were killed, including the shooter's ex-girlfriend; one was wounded. The shooter was apprehended by law enforcement officers a few hours later near Chehalis, Washington.

Multiple Locations in Joplin, Missouri (Open Space)

On August 13, 2016, at 5:08 a.m., Tom Stanley Mourning II, 26, armed with a rifle and a handgun, allegedly began shooting from his moving vehicle at motorists in separate vehicles in Joplin, Missouri, while being pursued by law enforcement officers. No one was killed; five people were wounded. The shooter was apprehended by law enforcement officers.

Multiple Locations in Philadelphia, Pennsylvania (Open Space)

On September 16, 2016, at 11:15 p.m., Nicholas N. Glenn, 25, armed with a handgun, began shooting at a law enforcement officer in her marked patrol car in Philadelphia, Pennsylvania. The shooter continued to fire his weapon as he fled the scene, shooting two people standing in a bar doorway and shooting a passenger in a parked car. One person was killed; five were wounded, including two law enforcement officers. The shooter was killed during an exchange of gunfire with law enforcement officers.

Cascade Mall (Commerce)

On September 23, 2016, at 6:52 p.m., Arcan Cetin, 20, armed with a rifle, allegedly began shooting inside the Macy's department store in Cascade Mall in Burlington, Washington. After firing multiple rounds, the shooter left the rifle on a countertop and walked out of the mall. Five people were killed; no one was wounded. The shooter was apprehended by law enforcement officers the next day in a nearby city and committed suicide in prison several months later while awaiting trial.

Law Street in Houston, Texas (Open Space)

On September 26, 2016, at 6:30 a.m., Nathan Desai, 46, armed with a handgun, began shooting at morning commuters on Law Street in Houston, Texas. No one was killed; nine people were wounded. The shooter was killed during an exchange of gunfire with law enforcement officers.

Townville Elementary School (Education)

On September 28, 2016, at 1:45 p.m., Jesse Dewitt Osborne, 14, armed with a handgun, allegedly began shooting at the Townville Elementary School playground in Townville, South Carolina. Prior to the shooting, the shooter, a former student, killed his father at their home. Two people were killed, including one student; three were wounded, one teacher and two students. A volunteer firefighter, who possessed a valid firearms permit, restrained the shooter until law enforcement officers arrived and apprehended him.

FreightCar America (Commerce)

On October 25, 2016, at 6:00 a.m., Getachew Tereda Fekede, 53, armed with a handgun, began shooting inside his former place of employment, FreightCar America, in Roanoke, Virginia. One person was killed; three were wounded. The shooter committed suicide before law enforcement officers arrived.

H-E-B Grocery Store (Commerce)

On November 28, 2016, at 3:15 a.m., Raul Lopez Saenz, 25, armed with a handgun, allegedly began shooting into the break room window of the H-E-B grocery store where he worked in Palmview, Texas. One person was killed; three were wounded. The shooter fled the scene and surrendered to law enforcement officers about an hour later.

Fort Lauderdale-Hollywood International Airport (Government)

On January 6, 2017, at 1:15 p.m., Esteban Santiago-Ruiz, 26, armed with a handgun, allegedly began shooting in the Terminal 2 baggage claim area of the Fort Lauderdale-Hollywood International Airport in Fort Lauderdale, Florida. The shooter, who had loaded his weapon in a men's restroom, began shooting people upon leaving the restroom. When he ran out of ammunition, he dropped to the floor. Five people were killed; eight were wounded. The shooter surrendered to law enforcement.

West Liberty-Salem High School (Education)

On January 20, 2017, at 7:36 a.m., Ely Ray Serna, 17, armed with a shotgun, allegedly began shooting inside West Liberty-Salem High School, in West Liberty, Ohio, where he was a student. After assembling the weapon in a bathroom, the shooter shot a student who entered, then shot at a teacher who heard the commotion. The shooter shot classroom door windows before returning to the bathroom and surrendering to school administrators. No one was killed; two students were wounded. School staff members subdued the shooter until law enforcement arrived and took the shooter into custody.

Marathon Savings Bank and Tlusty, Kennedy & Dirks, S.C. (Commerce)

On March 22, 2017, at 12:27 p.m., Nengmy Vang, 45, armed with a rifle and a handgun, began shooting inside the Marathon Savings Bank in Rothschild, Wisconsin, where his estranged wife was employed. Two bank employees were killed. The shooter then went to the law firm Tlusty, Kennedy & Dirks, S.C. in Schofield where he shot and killed his estranged wife's lawyer. The suspect fled to his apartment complex and barricaded himself in the building for several hours before law enforcement officers engaged him in a shootout. Four people were killed (including one law enforcement officer); no one was wounded. The shooter was wounded by law enforcement during an exchange of gunfire and died a few days later.

Las Vegas Bus (Other)

On March 25, 2017, at 10:45 a.m., Rolando Bueno Cardenas, 55, armed with a handgun, allegedly began shooting inside a public double-decker bus on the Las Vegas Strip during a scheduled stop in Las Vegas, Nevada. One person was killed; one was wounded. The shooter surrendered to law enforcement after a four-hour standoff and was taken into custody.

Residence and Bus Stop in Sanford, Florida (Open Space)

On March 27, 2017, at 6:20 a.m., Allen Dion Cashe, 31, armed with a rifle, allegedly began firing inside a residence in Sanford, Florida. Law enforcement had responded to two separate domestic dispute calls between the shooter and the woman he was dating prior to the shooting. The shooter returned to the woman's house and shot her, her two sons, and her father. The shooter then fled the scene and shot two other unrelated people standing near or at a bus stop from his vehicle on a nearby road. Two people were killed; four were wounded. The shooter fled the second scene and was apprehended by law enforcement at a nearby apartment building.

The Cooler (Commerce)

On April 15, 2017, at 9:30 p.m., Seth Thomas Wallace, 32, armed with a handgun, allegedly began shooting inside The Cooler, a bar in Rock Falls, Illinois. The shooter had previously lived in the area and was familiar with the establishment since it was owned by an extended family member. No one was killed; four were wounded. The shooter fled to his home in South Carolina where he surrendered to law enforcement three days later.

Multiple Locations in Fresno, California (Open Space)

On April 18, 2017, at 10:45 a.m., Kori Ali Muhammad, 39, armed with a handgun, allegedly began shooting indiscriminately at pedestrians and vehicles while walking along the streets of Fresno, California. The shooter was wanted in connection to a shooting a few days prior. Three people were killed; no one was wounded. The shooter was apprehended by law enforcement.

Group Home in Topeka, Kansas (Health Care)

On April 30, 2017, at 3:50 p.m., Joshua James Ray Gueary, 25, armed with a handgun, began shooting inside a group home for adults with special needs in Topeka, Kansas. Three people were killed (including the shooter's brother who worked at the residence); one person was wounded. The shooter committed suicide at the scene before law enforcement arrived.

La Jolla Crossroads Apartment Complex (Residence)

On April 30, 2017, at 6:00 p.m., Peter Raymond Selis, 49, armed with a handgun, began shooting during an outdoor party at the La Jolla Crossroads apartment complex in San Diego, California. One person was killed; seven were wounded. The shooter was killed during an exchange of gunfire with law enforcement.

Pine Kirk Care Center (Health Care)

On May 12, 2017, at 7:30 a.m., Thomas Harry Hartless, 43, armed with a shotgun and a handgun, began shooting inside the Pink Kirk Care Center in Kirkersville, Ohio. Two employees were killed, including the shooter's ex-girlfriend. Prior to the incident, the shooter had taken two people hostage behind the building to prevent them from revealing his presence. One of the hostages secretly dialed 911 and left the line open. A law enforcement officer responded to the open-line call and was ambushed after getting out of his vehicle. The two hostages escaped. In total, three people were killed (including one law enforcement officer); no one was wounded. The shooter committed suicide at the scene before additional law enforcement arrived.

Fiamma Inc. (Commerce)

On June 5, 2017, at 8:00 a.m., John Robert Neumann Jr., 45, armed with a handgun and a knife, began shooting inside Fiamma Inc. in Orlando, Florida. The shooter had been fired from the company two months prior to the shooting. Five employees were killed; no one was wounded. The shooter committed suicide at the scene before law enforcement arrived.

Weis Supermarket (Commerce)

On June 8, 2017, at 1:00 a.m., Randy Robert Stair, 24, armed with two shotguns, began shooting inside the Weis Supermarket in Tunkhannock, Pennsylvania, where he was employed. During his shift, the shooter blocked exit doors of the building with his car in an attempt to stop other employees from escaping. Three employees were killed; no one was wounded. The shooter committed suicide at the scene before law enforcement arrived.

Eugene Simpson Stadium Park (Open Space)

On June 14, 2017, at 7:15 a.m., James Thomas Hodgkinson, 66, armed with a rifle and a handgun, began shooting during a congressional baseball practice at Eugene Simpson Stadium Park in Alexandria, Virginia. No one was killed; four people were wounded (including one congressman who was shot and one law enforcement officer who sustained a shrapnel wound). The shooter was shot by on-scene and responding law enforcement officers during an exchange of gunfire and later died at a nearby hospital.

UPS Customer Center (Commerce)

On June 14, 2017, at 8:55 a.m., Jimmy Chanh Lam, 38, armed with two handguns, began shooting inside a UPS San Francisco Customer Center in San Francisco, California, where he was employed. Three people were killed; five were wounded (two were shot and three sustained injuries incidental to the event). The shooter committed suicide at the scene when confronted by law enforcement.

Bronx-Lebanon Hospital Center (Health Care)

On June 30, 2017, at 2:50 p.m., Dr. Henry Michael Bello, 45, armed with a rifle, began shooting inside the Bronx-Lebanon Hospital Center in Bronx, New York. The shooter was a former employee who had resigned in 2015 in anticipation of being fired. One person was killed; six were wounded. The shooter committed suicide before law enforcement arrived.

Highway 141 in Gateway, Colorado (Open Space)

On July 30, 2017, at 4:15 p.m., Rick Whited, 54, armed with a handgun, allegedly began shooting from his truck at passing cars along Highway 141 in Gateway, Colorado. No one was killed; no one was wounded. The shooter exchanged gunfire with two Gateway Canyons General Store security officers before fleeing the scene. The shooter was apprehended by law enforcement at another location.

Clovis-Carver Public Library (Government)

On August 28, 2017, at 4:15 p.m., Nathaniel Ray Jouett, 16, armed with a handgun, allegedly began shooting inside the Clovis-Carver Public Library in Clovis, New Mexico. Two employees were killed; four were wounded. The shooter surrendered to law enforcement.

Freeman High School (Education)

On September 13, 2017, at 10:00 a.m., Caleb Sharpe, 15, armed with a rifle and a pistol, allegedly began shooting at Freeman High School in Rockford, Washington, where he was a student. One student was killed; three students were wounded. A school employee confronted the shooter, ordered him to the ground, and held him there until law enforcement arrived and took him into custody.

Burnette Chapel Church of Christ (House of Worship)

On September 24, 2017, at 11:15 a.m., Emanuel Kidega Samson, 25, armed with two handguns, allegedly began shooting in the parking lot of the Burnette Chapel Church of Christ in Antioch, Tennessee. After killing one person, the shooter entered the church and shot six people. A citizen who attempted to subdue the shooter was pistol-whipped. During the altercation, the shooter accidentally shot himself. While the shooter was preoccupied, the citizen, who possessed a valid firearms permit, retrieved a handgun from his car and held the shooter at gunpoint until law enforcement arrived. One person was killed; seven were wounded. The shooter was apprehended by law enforcement.

Route 91 Harvest Festival (Open Space)

On October 1, 2017, at 10:08 p.m., Stephen Craig Paddock, 64, armed with four rifles (and access to 23 additional weapons in his hotel room) began shooting into a crowd of people attending the Route 91 Harvest Festival in Las Vegas, Nevada, from the 32nd floor of an adjacent hotel. Fifty-eight people were killed (including two law enforcement officers who were attending the concert); 489 people were wounded (many more sustained injuries incidental to the event). The shooter committed suicide at the scene before law enforcement arrived.

Advanced Granite Solutions and 28th Street Auto Sales and Service (Commerce)

On October 18, 2017, at 8:58 a.m., Radee Labeeb Prince, 37, armed with a handgun, allegedly began shooting fellow employees at Advanced Granite Solutions in Edgewood, Maryland. After killing three people and wounding two, the shooter fled the scene and traveled 52 miles to the 28th Street Auto Sales and Service lot in Wilmington, Delaware, where he shot and wounded another person. A total of three people were killed; three were wounded. The shooter was apprehended by law enforcement later that night in Newark, Delaware.

Multiple Locations in Clearlake Oaks, California (Commerce)

On October 23, 2017, at 11:23 a.m., Alan Ashmore, 61, armed with a shotgun and a handgun, allegedly began firing into several homes and a vehicle in Clearlake Oaks, California, killing two people, including his father, and wounding one. Another person was wounded while fleeing out of a residence window. The shooter then shot and wounded a responding law enforcement officer before fleeing in his vehicle. The shooter drove to a nearby gas station and exchanged gunfire with the vendor, who possessed a valid firearms permit. The shooter fled the scene in his vehicle and drove to another gas station where he fired more shots. The shooter then drove to a nearby winery and shot at some employees before surrendering to law enforcement officers after a short vehicle pursuit. The entire incident lasted about 30 minutes. Two people were killed; three were wounded (including one law enforcement officer and one person who sustained injuries incidental to the incident). The shooter was apprehended by law enforcement.

Walmart in Thornton, Colorado (Commerce)

On November 1, 2017, at 6:10 p.m., Scott Allen Ostrem, 47, armed with a handgun, allegedly began shooting inside a Walmart in Thornton, Colorado. Three people were killed; no one was wounded. The shooter fled the scene and was apprehended by law enforcement at another location.

First Baptist Church in Sutherland Springs, Texas (House of Worship)

On November 5, 2017, at 11:20 a.m., Devin Patrick Kelley, 26, armed with a rifle, exited his vehicle and began shooting outside the First Baptist Church in Sutherland Springs, Texas. He then entered the church and continued shooting at members of the congregation. The shooter exited the church and was confronted by a citizen who possessed a valid firearms permit. The citizen shot the shooter twice, causing the shooter to drop his rifle and flee the scene in his vehicle. The armed citizen, together with the owner of a pickup truck, pursued the shooter. The chase ended when the shooter's vehicle struck a road sign and overturned. Twenty-six people were killed; 20 were wounded. The shooter committed suicide with a handgun he had in his vehicle before police arrived.

Rancho Tehama Elementary School and Multiple Locations in Tehama County, California (Education)

On November 14, 2017, at 7:53 a.m., Kevin Janson Neal, 44, armed with a rifle and two handguns, began shooting at his neighbors, the first in a series of shootings occurring in Rancho Tehama Reserve, Tehama County, California. After killing three neighbors, he stole a car and began firing randomly at vehicles and pedestrians as he drove around the community. After deliberately bumping into another car, the shooter fired into the car and wounded the driver and three passengers. The shooter then drove into the gate of a nearby elementary school. He was prevented from entering the school due to a lockdown, so he fired at the windows and doors of the building, wounding five children. Upon fleeing the school, the shooter continued to shoot at people as he drove around Rancho Tehama Reserve. Law enforcement pursued the shooter; they rammed his vehicle, forced him off the road, and exchanged gunfire. The shooter's wife's body was later discovered at the shooter's home; the shooter apparently had shot and killed her the previous day. In total, five people were killed; 14 were wounded, eight from gunshot injuries (including one student) and six from shrapnel injuries (including four students). The shooter committed suicide after being shot and wounded by law enforcement during the pursuit.

Dollar General Store (Commerce)

On November 14, 2017, at 2:45 p.m., Travis Green, 29, wearing body armor and armed with two rifles, allegedly began shooting at the Union Road Dollar General store in Cheektowaga, New York. A citizen intentionally struck the shooter with his car, causing the shooter to drop his weapons and flee. He was tackled by a responding law enforcement officer who was at a nearby store. No gunfire was exchanged between the shooter and law enforcement. No one was killed; one person was wounded. The shooter was apprehended by law enforcement at the scene.

Schlenker Automotive (Commerce)

On November 17, 2017, at 4:30 p.m., Robert Lorenzo Bailey, Jr., 28, armed with a handgun, allegedly began shooting in the parking lot of Schlenker Automotive in Rockledge, Florida. The manager of the auto repair shop and an employee, both possessing valid firearms permits, exchanged gunfire with the shooter. One person was killed; one was wounded. The shooter, shot twice during the exchange, was held at gunpoint by the manager until law enforcement arrived and took him into custody.

Aztec High School (Education)

On December 7, 2017, at approximately 8:00 a.m., William Edward Atchison, 21, armed with a handgun, began shooting inside Aztec High School in Aztec, New Mexico. The shooter was a former student. Two students were killed; no one was wounded. The shooter committed suicide at the scene, before police arrived.

Multiple Locations in Baltimore, Maryland (Open Space)

On December 15, 2017, at 2:55 p.m., Mausean Vittorio Quran Carter, 30, armed with a rifle and handgun, allegedly began shooting indiscriminately at pedestrians from his vehicle after fleeing from a traffic stop by a law enforcement officer in Baltimore, Maryland, in connection to a triple shooting the previous week. After a 30-minute pursuit, the shooter came to a stop. His girlfriend, who had been communicating with the shooter by phone during the chase, ran up to the car and pulled him out of his seat, bringing the chase to an end. No one was killed; three were wounded, including one law enforcement officer. The shooter was apprehended by law enforcement.

University of Cincinnati Medical Center (Health Care)

On December 20, 2017, at 2:00 p.m., Isaiah Currie, 20, armed with two handguns, began shooting in the lobby of the psychiatric emergency services wing of the University of Cincinnati Medical Center in Cincinnati, Ohio. The shooter struggled with and shot an unarmed security guard and fired several shots at a responding off-duty law enforcement officer working security nearby. No one was killed; one was wounded (an unarmed security guard). The shooter committed suicide at the scene as additional law enforcement arrived.