1 2 3 4 5 6 7 8 9 10 11	ROB BONTA Attorney General of California MARK R. BECKINGTON Supervising Deputy Attorney General ROBERT L. MEYERHOFF Deputy Attorney General State Bar No. 298196 300 South Spring Street, Suite 1702 Los Angeles, CA 90013-1230 Telephone: (213) 269-6177 Fax: (916) 731-2144 E-mail: Robert.Meyerhoff@doj.ca.gov Attorneys for Defendant Rob Bonta in his official capacity as Attorney General of th State of California IN THE UNITED STAT FOR THE SOUTHERN DI CIVIL D	TES DISTRICT COURT STRICT OF CALIFORNIA
12 13 14 15 16 17 18 19 20 21	v. ROB BONTA, in his official capacity as Attorney General of the State of California; and DOES 1-10,	Case No. 17-cv-1017-BEN-JLB <b>SUPPLEMENTAL</b> <b>DECLARATION OF LUCY P.</b> <b>ALLEN</b> Courtroom: 5A Judge: 5A Judge: Hon. Roger T. Benitez Action Filed: May 17, 2017
22	Defendants.	
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# SUPPLEMENTAL DECLARATION OF LUCY ALLEN

I, Lucy P. Allen, declare under penalty of perjury under the laws of the United States that the information in this declaration is true:

1. I previously submitted a declaration in connection to the Attorney General's Opposition to Plaintiffs' Motion for Preliminary Injunction, which was filed with this Court on June 5, 2017 (the "2017 Declaration"), and an expert report filed with this Court on April 9, 2018 (the "2018 Report).<sup>1</sup> I make this supplemental declaration providing additional data and analysis in connection to Defendants' Supplemental Brief in Response to the Court's Order of September 26, 2022.

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2. I am a Managing Director of NERA Economic Consulting ("NERA"),
a member of NERA's Securities and Finance Practice and Chair of NERA's Product
Liability and Mass Torts Practice. NERA provides practical economic advice related
to highly complex business and legal issues arising from competition, regulation,
public policy, strategy, finance, and litigation. NERA was established in 1961 and
now employs approximately 500 people in more than 20 offices worldwide.

18 3. In my over 25 years at NERA, I have been engaged as an economic 19 consultant or expert witness in numerous projects involving economics and statistics. 20 I have been qualified as an expert and testified in court on various economic and 21 22 statistical issues relating to the flow of guns into the criminal market. I have testified 23 at trials in Federal and State Courts, before the New York City Council Public Safety 24 Committee, the American Arbitration Association and the Judicial Arbitration 25 Mediation Service, as well as in depositions.

 <sup>&</sup>lt;sup>1</sup> My 2018 Report was marked as Exhibit 1 to the Declaration of John
 Echeverria and filed in this matter at Docket Number 53-4.

1	4. I have an A.B. from Stanford University, an M.B.A. from Yale
2	University, and M.A. and M. Phil. degrees in Economics, also from Yale University.
3	Prior to joining NERA, I was an Economist for both President George H. W. Bush's
4	and President Bill Clinton's Council of Economic Advisers. My resume with recent
5 6	publications and testifying experience is included as Exhibit A.
7	5. This declaration reports the results of my analyses with respect to the
8	following issues: (a) the number of rounds of ammunition fired by individuals using
9	a gun in self-defense; and (b) the outcomes when large-capacity magazines are used
10	in public mass shootings, including the associated number of casualties.
11 12	OPINIONS
12	A. Number of Rounds Fired by Individuals in Self-Defense
14	6. Plaintiffs claim the "large-capacity magazines" covered by California
15	Penal Code section 32310 (which are magazines capable of holding more than ten
16	rounds) are commonly used for lawful purposes, including for self-defense. <sup>2</sup>
17	7. The number of rounds commonly needed by individuals to defend
18 19	themselves cannot be practically or ethically determined with controlled scientific
20	experiments and there is no source that systematically tracks or maintains data on the
21	number of rounds fired by individuals in self-defense. Due to these limitations, I have
22	analyzed available data sources to estimate the number of rounds fired by individuals
23	to defend themselves. In particular, I have analyzed data from the NRA Institute for
24 25	Legislative Action, as well as my own study of news reports on incidents of self-
25 26	defense with a firearm. In all, I have analyzed almost 1,000 incidents of self-defense
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28	<sup>2</sup> See, for example, Complaint for Declaratory and Injunctive Relief, filed May 17, 2017, ¶¶2, 47. 2

with a firearm and found that it is rare for a person, when using a firearm in selfdefense, to fire more than ten rounds.

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8. The NRA maintains a database of "Armed Citizen" stories describing private citizens who have successfully defended themselves, or others, using a firearm ("NRA Armed Citizen database"). According to the NRA, the "Armed 6 Citizen" stories "highlight accounts of law-abiding gun owners in America using 7 their Second Amendment rights to defend self, home and family."<sup>3</sup> Although the 8 9 methodology used to compile the NRA Armed Citizen database of stories is not 10 explicitly detailed by the NRA, the NRA Armed Citizen database is a useful data 11 source in this matter for at least three reasons. First, the Armed Citizen database was 12 the largest collection of accounts of citizen self-defense compiled by others that I was 13 able to find.<sup>4</sup> Second, the incidents listed in the Armed Citizen database highlight the 14 15 very conduct that Plaintiffs claim the California law impedes (*i.e.*, the use of firearms 16 by law-abiding citizens for self-defense).<sup>5</sup> Third, the Armed Citizen database is 17 compiled by an entity that actively opposes restrictions on magazine capacity and 18 restrictions on the possession and use of firearms in general.<sup>6</sup> In light of the positions 19 taken by the entity compiling the data, I would expect that any selection bias would 20 be in favor of stories that put use of guns in self-defense in the best possible light and 21

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<sup>3</sup> NRA Institute for Legislative Action, Armed Citizens, https://www.nraila.org/gun-laws/armed-citizen/, accessed May 28, 2017.

24 <sup>4</sup> Note that in 2020, after the time my research was conducted, The Heritage Foundation began an online database of its own sample of defensive gun use 25 incidents (https://datavisualizations.heritage.org/firearms/defensive-gun-uses-in-26 the-us).

<sup>5</sup> Complaint for Injunctive and Declaratory Relief, May 17, 2017, ¶47. <sup>6</sup> See, for example, NRA Civil Rights Defense Fund website,

28 http://www.nradefensefund.org/current-litigation.aspx, accessed October 12, 2018. 3

1 might highlight the apparent need of guns and/or multiple rounds in self-defense
2 incidents.

9. My team and I performed an analysis of incidents in the NRA Armed 4 Citizen database that occurred between January 2011 and May 2017.<sup>7</sup> For each 5 incident, the city/county, state, venue (whether the incident occurred on the street, in 6 the home, or elsewhere) and the number of shots fired were tabulated.<sup>8</sup> The 7 information was gathered for each incident from both the NRA synopsis and, where 8 9 available, an additional news story. An additional news story was found for over 95% 10 of the incidents in the NRA Armed Citizen database. 11 10. According to this analysis of incidents in the NRA Armed Citizen 12 database, it is rare for a person, when using firearms in self-defense, to fire more than 13 ten rounds. Out of 736 incidents, there were two incidents (0.3% of all incidents), in 14 which the defender was reported to have fired more than 10 bullets.<sup>9</sup> Defenders fired 15 16 2.2 shots on average.<sup>10</sup> In 18.2% of incidents, the defender did not fire any shots. 17 <sup>7</sup> My collection and coding of the NRA Armed Citizen stories was last 18 performed in mid-2017. 19 <sup>8</sup> The following incidents were excluded from the analysis: (1) duplicate incidents, (2) wild animal attacks, and (3) one incident where the supposed victim 20 later pleaded guilty to covering up a murder. When the exact number of shots fired 21 was not specified, we used the average for the most relevant incidents with known number of shots. For example, if the story stated that "shots were fired" this would 22 indicate that at least two shots were fired and thus we used the average number of 23 shots fired in all incidents in which two or more shots were fired and the number of 24 shots was specified. <sup>9</sup> Note that the only two incidents with more than 10 bullets fired were added 25 to the NRA Armed Citizen database in 2016 and 2017 after an earlier analysis that I 26 had conducted of the database had been submitted to and cited by the Court in Kolbe v. O'Malley, Case No. CCB-13-2841 (Dkt. 79). 27 <sup>10</sup> Note that the analysis is focused on shots fired when using a gun in self-28 (continued...)

1	These incidents highlight the fact that in many instances defenders are able to defend
2	themselves without firing any shots. For example, according to one of the incidents
3	in the NRA Armed Citizen Database:
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5	"A man entered a Shell station in New Orleans, La. and attempted to rob a
6	cashier, by claiming he was carrying a gun. The cashier responded by
7	retrieving a gun and leveling it at the thief, prompting the criminal to flee. (The
8	Times Picayune, New Orleans, La. 09/02/15)" <sup>11</sup>
9	11. For incidents occurring in the home (56% of total), defenders fired an
10	average of 2.1 shots, and fired no shots in 16.1% of incidents. For incidents occurring
11	outside the home (44%) of total, defenders fired an average of 2.2 shots, and fired no
12	shots in 20.9% of incidents. <sup>12</sup> The table below summarizes these findings:
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20	defense and therefore the average includes instances when no shots are fired. If one
22	calculates the average excluding incidents of self-defense with a gun without firing shots, the average is still low, 2.6 shots when at least one shot is fired.
23	<sup>11</sup> "Gas station clerk scares off robber," NRA-ILA Armed Citizen, September
24	9, 2015. <sup>12</sup> A separate study of incidents in the NRA Armed Citizen database for an
25	earlier period (the five-year period from 1997 through 2001) found similar results.
26	Specifically, this study found that, on average, 2.2 shots were fired by defenders and that in 28% of incidents of armed citizens defending themselves the individuals
27	fired no shots at all. See, Claude Werner, "The Armed Citizen – A Five Year Analysis," <u>http://gunssaveslives.net/self-defense/analysis-of-five-years-of-armed-</u>
28	encounters-with-data-tables, accessed January 10, 2014.

	Number of Sho	ts Fired i	n Self-Defense				
2	Based on NRA Armed Cit	tizen Inci	dents in the Unite	ed States			
3	January 2011 - May 2017						
4	Shots Fired by Individual in Self-Defense						
5		Overall	Incidents in Home	Outside the Home			
6	Average Shots Fired	2.2	2.1	2.2			
7	Number of Incidents with No Shots Fired	134	66	68			
8	Percent of Incidents with No Shots Fired	18.2%	16.1%	20.9%			
9	Number of Incidents with >10 Shots Fired Percent of Incidents with >10 Shots Fired	2 0.3%	2 0.5%	0 0.0%			
10	Notes and Sources:						
11	Data from NRA Armed Citizen database co	-					
12	from January 2011 through May 2017. Excl incident where the supposed victim later ple	-					
13	12. We also performed the	same ar	nalysis of the N	RA Armed Citizer			
14			-				
15	database limited to incidents that occu						
16	defenders in California fired 2.0 shots	on avera	ge. Out of 47 inci	dents, there were no			
17	incidents in which the defender was r	reported t	o have fired mor				
18				e than 10 bullets. In			
-	27.7% of incidents, the defender did	not fire a					
	offender with a gun. For incidents oc		any shots, and si	mply threatened the			
19	offender with a gun. For incidents oc	curring in	any shots, and si n the home (60%	mply threatened the of total), defender			
19 20	offender with a gun. For incidents oc fired an average of 1.9 shots, and fired	curring in 1 no shots	any shots, and si n the home (60% s in 32.1% of inc	mply threatened the of total), defenders idents. For incidents			
19 20 21	offender with a gun. For incidents oc fired an average of 1.9 shots, and fired occurring outside the home (40% of	curring in d no shots total), de	any shots, and si n the home (60% s in 32.1% of inc fenders fired an a	mply threatened the of total), defenders idents. For incidents average of 2.2 shots			
19 20 21 22	offender with a gun. For incidents oc fired an average of 1.9 shots, and fired	curring in d no shots total), de	any shots, and si n the home (60% s in 32.1% of inc fenders fired an a	mply threatened the of total), defenders idents. For incidents average of 2.2 shots			
19 20 21 22 23	offender with a gun. For incidents oc fired an average of 1.9 shots, and fired occurring outside the home (40% of	curring in d no shots total), de	any shots, and si n the home (60% s in 32.1% of inc fenders fired an a	mply threatened the of total), defenders idents. For incidents average of 2.2 shots			
19 20 21 22 23 24	offender with a gun. For incidents oc fired an average of 1.9 shots, and fired occurring outside the home (40% of 1 and fired no shots in 21.1% of inciden	curring in d no shots total), de	any shots, and si n the home (60% s in 32.1% of inc fenders fired an a	mply threatened the of total), defenders idents. For incidents average of 2.2 shots			
<ol> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> </ol>	offender with a gun. For incidents oc fired an average of 1.9 shots, and fired occurring outside the home (40% of 1 and fired no shots in 21.1% of inciden	curring in d no shots total), de	any shots, and si n the home (60% s in 32.1% of inc fenders fired an a	mply threatened the of total), defenders idents. For incidents average of 2.2 shots			
<ol> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> </ol>	offender with a gun. For incidents oc fired an average of 1.9 shots, and fired occurring outside the home (40% of 1 and fired no shots in 21.1% of inciden	curring in d no shots total), de	any shots, and si n the home (60% s in 32.1% of inc fenders fired an a	mply threatened the of total), defenders idents. For incidents average of 2.2 shots			

	January 2011 - May 2017					
	Shots Fired by Individual in Self-Defense					
	-	Overall	Incidents in Home	Outside the Home		
	Average Shots Fired	2.0	1.9	2.2		
	Number of Incidents with No Shots Fired Percent of Incidents with No Shots Fired	13 27.7%	9 32.1%	4 21.05%		
	Number of Incidents with >10 Shots Fired Percent of Incidents with >10 Shots Fired	0 0.0%	0 0.0%	0 0.0%		
	Notes and Sources: Data from NRA Armed Citizen database cov home) from January 2011 through May 2017 incident where the supposed victim later plea	. Excludes rep	eat stories, wild animal			
	13. In addition to our analy					
d	13. In addition to our analy atabase, we performed a systematic,					
		scientific s	study of news rep	ports on incide		
S	atabase, we performed a systematic,	scientific s me, focusii	study of news rep ng on the same t	ports on incide		
S	atabase, we performed a systematic, elf-defense with a firearm in the ho	scientific s me, focusin ne time per	study of news rep ng on the same t riod. <sup>13</sup>	ports on incide ypes of incide		
so tł	atabase, we performed a systematic, elf-defense with a firearm in the ho ne NRA stories and covering the san	scientific s me, focusin ne time per ews storie	study of news rep ng on the same t riod. <sup>13</sup> es to include in	ports on incide ypes of incide n our analysi		
so th	atabase, we performed a systematic, elf-defense with a firearm in the hor ne NRA stories and covering the san 14. To identify relevant n	scientific s me, focusin ne time per ews storie published	study of news rep ng on the same t <sup>r</sup> iod. <sup>13</sup> es to include in news stories usir	ports on incide ypes of incide n our analysi ng Factiva, an o		
so tł p n	atabase, we performed a systematic, elf-defense with a firearm in the hor ne NRA stories and covering the san 14. To identify relevant n erformed a comprehensive search of	scientific s me, focusin ne time per ews storie published wned by D	study of news rep ng on the same t iod. <sup>13</sup> es to include ir news stories usir ow Jones, Inc. th	ports on incide ypes of incide n our analysi ng Factiva, an o hat aggregates		
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so th p n co - d A	atabase, we performed a systematic, elf-defense with a firearm in the hor ne NRA stories and covering the san 14. To identify relevant n erformed a comprehensive search of ews reporting service and archive or ontent from nearly 33,000 sources. <sup>14</sup> <sup>13</sup> This analysis was initially co efense in the home, which was a foc <i>Pistol Association v. Bruen</i> Supreme	scientific s me, focusin ne time per ews storie published wned by D The search onducted to us before t Court deci pove indica lar to those	study of news rep ng on the same t <sup>1</sup> iod. <sup>13</sup> es to include in news stories usin ow Jones, Inc. th n was designed to presearch issues the 2022 <i>New Yo</i> sion. The analys tes that the numb	ports on incide ypes of incide n our analysing Factiva, and hat aggregates preturn stories regarding self <i>irk State Rifle</i> is of the NRA ber of shots fines.		

1 the types of incidents that are the focus of the NRA Armed Citizen database and that 2 Plaintiffs claim the California law impedes – in particular, the use of firearms for 3 self-defense.<sup>15</sup> The search identified all stories that contained the following keywords 4 in the headline or lead paragraph: one or more words from "gun," "shot," "shoot," 5 "fire," or "arm" (including variations on these keywords, such as "shooting" or 6 "armed"), plus one or more words from "broke in," "break in," "broken into," 7 8 "breaking into," "burglar," "intruder," or "invader" (including variations on these 9 keywords) and one or more words from "home," "apartment," or "property" 10 (including variations on these keywords).<sup>16</sup> The search criteria match approximately 11 90% of the NRA stories on self-defense with a firearm in the home, and an analysis 12 of the 10% of stories that are not returned by the search shows that the typical number 13 of shots fired in these incidents was no different than in other incidents.<sup>17</sup> The search 14 15 covered the same period used in our analysis of incidents in the NRA Armed Citizen 16 17 term "Factiva" on Google Scholar yields over 28,000 results. As another example, a search on Westlaw yields at least 83 expert reports that conducted news searches 18 using Factiva. 19

<sup>15</sup> NRA Institute for Legislative Action, Armed Citizens,

<sup>16</sup> The precise search string used was: (gun\* or shot\* or shoot\* or fire\* or
arm\*) and ("broke in" or "break in" or "broken into" or "breaking into" or burglar\*
or intrud\* or inva\*) and (home\* or "apartment" or "property"). An asterisk denotes
a wildcard, meaning the search includes words which have any letters in place of
the asterisk. For example, a search for shoot\* would return results including
"shoots," "shooter" and "shooting." The search excluded duplicate stories classified
as "similar" on Factiva.
<sup>17</sup> The analysis and search would have used criteria to match actual incidents

involving Plaintiffs or California residents, but, based on the Complaint for
 Injunctive and Declaratory Relief, Plaintiffs have not identified any incidents of the
 type they claim the California law will impede.

https://www.nraila.org/gun-laws/armed-citizen/, accessed May 28, 2017. See, also,
 Complaint for Declaratory and Injunctive Relief, filed May 17, 2017, ¶47.

1 database (January 2011 to May 2017). The region for the Factiva search was set to 2 "United States." The search returned approximately 35,000 stories for the period 3 January 2011 to May 2017.<sup>18</sup>

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15. Using a random number generator, a random sample of 200 stories was selected for each calendar year, yielding 1,400 stories in total.<sup>19</sup> These 1,400 stories were reviewed to identify those stories that were relevant to the analysis, *i.e.*, incidents of self-defense with a firearm in or near the home. This methodology yielded a random selection of 200 news stories describing incidents of self-defense 10 with a firearm in the home out of a population of approximately 4,800 relevant stories.<sup>20</sup> Thus, we found that out of the over 70 million news stories aggregated by Factiva between January 2011 and May 2017, approximately 4,800 news stories were on incidents of self-defense with a firearm in the home. We analyzed a random selection of 200 of these stories.

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<sup>18</sup> The effect of using alternative keywords was considered. For example, removing the second category ("broke in" or "break in" or "broken into" or 18 "breaking into" or burglar\* or intrud\* or inva\*) and including incidents in which 19 the assailant was already inside the home and/or was known to the victim was 20 considered. A priori, there was no reason to believe that a larger number of shots would be used in these incidents and based on an analysis of the NRA stories we 21 found that the number of shots fired in incidents when defending against someone 22 already in the home was not different than those with an intruder.

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<sup>19</sup> The random numbers were generated by sampling with replacement.

<sup>20</sup> The approximately 4,800 relevant news stories were estimated by 24 calculating the proportion of relevant news stories from the 200 randomly selected stories each year and applying that proportion to the number of results returned by 25 the search for each year of the analysis. For example, in 2017, 33 out of 200 (17%) 26 randomly selected news stories involved incidents of self-defense with a firearm in the home. Applying that proportion to the 1,595 results from the Factiva search in 27 2017 yields 263 relevant news stories in 2017. This process was repeated every 28 year to arrive at a total of 4,841 relevant news stories from 2011-2017.

16. For each news story, the city/county, state and number of shots fired were tabulated. When tabulating the number of shots fired, we used the same methodology as we used to analyze stories in the NRA Armed Citizen database.<sup>21</sup> We then identified other stories describing the same incident on Factiva based on the date, location and other identifying information, and recorded the number of times that each incident was covered by Factiva news stories.

8 17. To determine the average number of shots fired per *incident*, we first 9 determined the average number of shots fired per *story* and then analyzed the number 10 of stories per incident. According to our study of a random selection from 11 approximately 4,800 relevant stories on Factiva describing incidents of self-defense 12 with a firearm in the home, the average number of shots fired per story was 2.61. 13 This is not a measure of the average shots fired *per incident*, however, because the 14 15 number of stories covering an incident varies, and the variation is not independent of 16 the number of shots fired. We found that there was a statistically significant 17 relationship between the number of shots fired in an incident and the number of news 18 stories covering an incident.<sup>22</sup> We found that on average the more shots fired in a

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23 <sup>22</sup> Based on a linear regression of the number of news stories as a function of 24 the number of shots fired, the results were statistically significant at the 1% level (more stringent than the 5% level commonly used by academics and accepted by 25 courts. See, for example, Freedman, David A., and David H. Kaye, "Reference 26 Guide on Statistics," Reference Manual on Scientific Evidence (Washington, D.C.: The National Academies Press, 3rd ed., 2011), pp. 211-302, and Fisher, Franklin 27 M., "Multiple Regression in Legal Proceedings," 80 Columbia Law Review 702 28 (1980).) 10

<sup>&</sup>lt;sup>21</sup> When the exact number of shots fired was not specified, we used the 20 average for the most relevant incidents with known number of shots. For example, 21 if the story stated that "shots were fired" this would indicate that at least two shots 22 were fired and thus we used the average number of shots fired in all incidents in which two or more shots were fired and the number of shots was specified.

defensive gun use incident, the greater the number of stories covering an incident.
For example, as shown in the table below, we found that incidents in Factiva news
stories with zero shots fired were covered on average by 1.8 news stories, while
incidents with six or more shots fired were covered on average by 10.4 different news
stories.

Average Number of News Stori	es by Number of Shots Fired
n Factiva Stories on Incidents o	-
January 2011	- May 2017
Number of Shots Fired By Defender	Average Number of News Stories
0	1.8
1 to 2 3 to 5	2.8 3.8
6 or more	10.4
Notes and Sources:	
2011 and May 2017 using the search string: (g in" or "break in" or "broken into" or "breaking "apartment" or "property"), with region set to ' as "similar" on Factiva. Methodology for tabul	
After adjusting for this dispa	rity in news coverage, we find that the
number of shots fired per inci-	dent covered is 2.34. <sup>23</sup> Note that th
vould be selected at random from	ility that a news story on a particular the total population of news stories on he home. The formula used for the
nt is:	
$\int_{1} \left( Shots  Fired_i \times \frac{R_i}{C_i} \right)$	
$\frac{1(Shots Fired_i \times \frac{R_i}{C_i})}{\sum_{i=1}^n \left(\frac{R_i}{C_i}\right)}$	
	(continued
	11 Supplemental Declaration

adjustment does not take into account the fact that some defensive gun use incidents may not be picked up by *any* news story. Given the observed relationship that there are more news stories when there are more shots fired, one would expect that the incidents that are not written about would on average have fewer shots than those with news stories. Therefore, the expectation is that these results, even after the adjustment, are biased upward (*i.e.*, estimating too high an average number of shots and underestimating the percent of incidents in which no shots were fired).

9 19. As shown in the table below, according to the study of Factiva news
10 stories, in 11.6% of incidents the defender did not fire any shots, and simply
11 threatened the offender with a gun. In 97.3% of incidents the defender fired 5 or
12 fewer shots. There were no incidents where the defender was reported to have fired
14 more than 10 bullets.

26 n = random selection of news stories on incidents of self-defense with a firearm in 27 the home

 $R_i$  = number of search results on Factiva in the calendar year of incident *i* 

28 ||  $C_i$  = number of news stories covering incident *i* 

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2	Number of Shots Fired in Self-Defense in the Home
-3	Based on Random Selection of News Stories in Factiva January 2011 - May 2017
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5	Estimated population of news reports in Factiva 4,841 on self-defense with a firearm in the home
6	Random selection of news reports 200
7	Average Number of Shots Fired 2.34
8	Median Number of Shots Fired 2.03
9	Number of Incidents with No Shots Fired 23
-	Percent of Incidents with No Shots Fired 11.6%
10	Number of Incidents with ≤5 Shots Fired 195
11	Number of incidents with $\leq 5$ shots Fired195Percent of Incidents with $\leq 5$ Shots Fired97.3%
12	
13	Number of Incidents with >10 Shots Fired0Percent of Incidents with >10 Shots Fired0.0%
14	Notes and Sources: Based on news stories describing defensive gun use in a random selection of Factiva
15 16	stories between 2011 and May 2017 using the search string: (gun* or shot* or shoot* or fire* or arm*) and ("broke in" or "break in" or "broken into" or "breaking into" or
10	burglar* or intrud* or inva*) and (home* or "apartment" or "property"), with region set to "United States" and excluding duplicate stories classified as "similar" on Factiva.
17	Methodology for tabulation of shots fired as per footnote 16. Number of incidents
18	probability-weighted as per footnote 18.
19	
20	20. In sum, an analysis of incidents in the NRA Armed Citizen database, as
21	well as our own study of a random sample from approximately 4,800 news stories
22	
23	describing incidents of self-defense with a firearm, indicates that it is rare for a
23 24	person, when using a firearm in self-defense, to fire more than ten rounds.
2 <del>4</del> 25	
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28	13
	Supplemental Declaration of Lucy P. Allen

1	B. Public Mass Shootings	
2	21. We analyzed the use of large-capacity magazines in public mass	
3	shootings using four sources for identifying public mass shootings: Mother Jones, <sup>24</sup>	
4	the Citizens Crime Commission of New York City, <sup>25</sup> the Washington Post <sup>26</sup> and the	
5 6	Violence Project. <sup>27, 28</sup> The analysis focused on public mass shootings because it is my	
7	understanding that the state of California is concerned about public mass shootings	
8	and enacted the challenged law, in part, to address the problem of public mass	
9	shootings.	
10		
11	<sup>24</sup> "US Mass Shootings, 1982-2022: Data From Mother Jones' Investigation,"	
12	Mother Jones, updated October 14, 2022,	
13	http://www.motherjones.com/politics/2012/12/mass-shootings-mother-jones-full- data.	
14	<sup>25</sup> "Mayhem Multiplied: Mass Shooters and Assault Weapons," Citizens	
15	Crime Commission of New York City, February 2018 update. Additional details on the mass shootings were obtained from an earlier source by the Citizens Crime	
16	Commission. "Mass Shooting Incidents in America (1984-2012)," Citizens	
17	Crime Commission of New York City, http://www.nycrimecommission.org/mass-	
18	shooting-incidents-america.php, accessed June 1, 2017. <sup>26</sup> "The terrible numbers that grow with each mass shooting," The	
19	Washington Post, updated May 12, 2021.	
20	<sup>27</sup> "Mass Shooter Database," The Violence Project, <u>https://www.theviolencep</u> roject.org/mass-shooter-database/, updated May 14, 2022.	
21	<sup>28</sup> When I began research in 2013 on mass shootings, I found Mother Jones	
22	and Citizens Crime Commission to maintain the most comprehensive lists of relevant mass shootings. More recently, two additional sources, the Washington	
23	Post and The Violence Project, have compiled lists of public mass shootings. The	
	Violence Project began work on its mass shootings database in September 2017 and	
24	its database first went online in November 2019, while the Washington Post first published its mass shootings database in February 14, 2018. There is substantial	
25	overlap between the mass shootings in all four sources. For example, the Mother	
26	Jones data contains 93% of the mass shootings in the Citizens Crime Commission	
27	data for the years covered by both data sources, 1984 to 2016, while the Washington Post contains 94% of the mass shootings in The Violence Project data	
28	for the years covered by both data sources, 1966 to 2019. $\frac{14}{14}$	

22. 1 The type of incident considered a mass shooting is generally consistent 2 across the four sources. In particular, all four sources consider an event a mass 3 shooting if four or more people were killed in a public place in one incident, and 4 exclude incidents involving other criminal activity such as a robbery.<sup>29</sup>

5

6 <sup>29</sup> Citizen Crime Commission describes a mass shooting as "four or more victims killed" in "a public place" that were "unrelated to another crime (e.g., 7 robbery, domestic violence)." Citizen Crime notes that its sources include "news 8 reports and lists created by government entities and advocacy groups." "Mayhem Multiplied: Mass Shooters and Assault Weapons," Citizens Crime Commission of 9 New York City, February 2018 update.

10 Mother Jones describes a mass shooting as "indiscriminate rampages in public places resulting in four or more victims killed by the attacker," excluding 11 "shootings stemming from more conventionally motivated crimes such as armed 12 robbery or gang violence." Although in January 2013 Mother Jones changed its definition of mass shooting to include instances when three or more people were 13 killed, for this declaration we only analyzed mass shootings where four or more 14 were killed to be consistent with the definition of the other three sources. "A Guide to Mass Shootings in America," Mother Jones, updated October 14, 2022, 15

- http://www.motherjones.com/politics/2012/07/mass-shootings-map. See also,
- 16 "What Exactly is a Mass Shooting," Mother Jones, August 24, 2012.

http://www.motherjones.com/mojo/2012/08/what-is-a-mass-shooting. 17 The Washington Post source describes a mass shooting as "four or more 18 people were killed, usually by a lone shooter" excluding "shootings tied to robberies that went awry" and "domestic shootings that took place exclusively in 19 private homes." A The Washington Post notes that its sources include "Grant 20 Duwe, author of 'Mass Murder in the United States: A History,' Mother Jones and

- Washington Post research," as well as "Violence Policy Center, Gun Violence 21 Archive; FBI 2014 Study of Active Shooter Incidents; published reports." "The 22 terrible numbers that grow with each mass shooting,"
- The Washington Post, updated May 12, 23
- 2021, https://www.washingtonpost.com/graphics/2018/national/mass-shootings-in-24 america/.

The Violence Project indicates that it uses the Congressional Research 25 Service definition of a mass shooting: "a multiple homicide incident in which four 26 or more victims are murdered with firearms—not including the offender(s)—within one event, and at least some of the murders occurred in a public location or 27 locations in close geographical proximity (e.g., a workplace, school, restaurant, or 28 (continued...)

1	23. Each of the four sources contains data on mass shootings covering
2	different time periods. The Mother Jones data covers 112 mass shootings from 1982
3	to October 13, 2022, <sup>30</sup> the Citizens Crime Commission data covers 80 mass shootings
4	from 1984 to February 2018, <sup>31</sup> the Washington Post data covers 185 mass shootings
5	
6	from 1966 to May 12, 2021, <sup>32</sup> and The Violence Project data covers 182 mass
7	shootings from 1966 to May 14, 2022. <sup>33, 34</sup>
8	other public settings), and the murders are not attributable to any other underlying
9	criminal activity or commonplace circumstance (armed robbery, criminal
10	competition, insurance fraud, argument, or romantic triangle)." The Violence Project notes that its sources include "Primary Sources: Written journals /
11	manifestos / suicide notes etc., Social media and blog posts, Audio and video
12	recordings, Interview transcripts, Personal correspondence with perpetrators" as well as "Secondary Sources (all publicly available): Media (television, newspapers,
13	magazines), Documentary films, Biographies, Monographs, Peer-reviewed journal
14	articles, Court transcripts, Law Enforcement records, Medical records, School records, Autopsy reports." "Mass Shooter
15	Database," The Violence Project, <u>https://www.theviolenceproject.org/methodology/</u>
16	, accessed January 17, 2020.
17	<sup>30</sup> "A Guide to Mass Shootings in America," Mother Jones, updated October 14, 2022, <u>http://www.motherjones.com/politics/2012/07/mass-shootings-map</u> .
18	Excludes mass shootings where only three people were killed. Note this analysis of
	the Mother Jones data may not match other analyses because Mother Jones periodically updates its historical data.
19 20	<sup>31</sup> "Mayhem Multiplied: Mass Shooters and Assault Weapons," <i>Citizens</i>
20	Crime Commission of New York City, February 2018 update.
21	<sup>32</sup> "The terrible numbers that grow with each mass shooting," <i>The Washington Post</i> , updated May 12,
22	2021, https://www.washingtonpost.com/graphics/2018/national/mass-shootings-in-
23	america/. <sup>33</sup> "Mass Shooter Database," <i>The Violence Project</i> <u>https://www.theviolencepr</u>
24	oject.org/mass-shooter-database/, updated May 14, 2022.
25	<sup>34</sup> Note that I have updated this mass shooting analysis to include more recent
26	incidents, as well as more recently available details. In my 2017 declaration in <i>Virginia Duncan et al. v. California Attorney General</i> , I included data on mass
27	shootings through April 2017. In my 2018 declaration in Rupp v. California
28	Attorney General, I updated the analysis to include data on mass shootings through (continued)
	16 Supplemental Declaration of Lucy P. Allen

1 24. Note that the two more recently compiled sources of mass shootings, the 2 Washington Post and The Violence Project, include additional mass shootings that 3 were not covered by either Mother Jones or Citizens Crime Commission. In general, 4 we found that these additional mass shootings were less covered by the media and 5 involved fewer fatalities and/or injuries than the ones previously identified by Mother 6 Jones or Citizens Crime Commission. For example, using the mass shooting data for 7 the period 1982 through 2019, we found that the median number of news stories for 8 9 a mass shooting included in Mother Jones and/or Citizen Crime Commission was 10 317, while the median for the additional mass shootings identified in the Washington 11 Post and/or The Violence Project was 28.35 In addition, we found an average of 21 12 fatalities or injuries for a mass shooting included in Mother Jones and/or Citizen 13 Crime Commission, while only 6 fatalities or injuries for the additional mass 14 15 shootings identified in the Washington Post and/or The Violence Project.

16

17 September 2018. The analyses in both of these declarations included mass shootings only from Mother Jones and the Citizen Crime Commission. In my 2020 18 declaration in James Miller et al. v. California Attorney General, I updated the 19 analysis to include mass shootings through December 2019 and added mass shootings from two more sources, the Washington Post and the Violence Project. 20 The number of mass shootings, as well as some details about the shootings, are not 21 identical across these declarations for three main reasons. First, I have updated the analysis to include more recent incidents as well as more recently available details. 22 Second, starting in 2020, I added two more sources (Washington Post and Violence 23 Project), which include additional mass shootings and details not included in the initial sources. Third, even though Mother Jones included instances when three or 24 more people were killed, for my declarations and reports starting in 2020, I only 25 included mass shootings where four or more were killed to be consistent with the definition of the other three sources. 26

<sup>35</sup> The search was conducted over all published news stories on Factiva. The
 search was based on the shooter's name and the location of the incident over the
 period from one week prior to three months following each mass shooting.

25. We combined the data from the four sources for the period 1982 through 2019, and searched news stories on each mass shooting to obtain additional details on the types of weapons used as well as data on shots fired where available. We identified, based on this publicly available information, which mass shootings involved the use of large-capacity magazines. See attached Exhibit B for a summary of the combined data based on Mother Jones, Citizens Crime Commission, the Washington Post, the Violence Project, and news reports.

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# 1. Use of large-capacity magazines in public mass shootings

10 26. Based on the data through 2019, we found that large-capacity magazines 11 (those with a capacity to hold more than 10 rounds of ammunition) are often used in 12 public mass shootings. Magazine capacity is known in 105 out of the 161 mass 13 shootings (or 65%) considered in this analysis. Out of the 105 mass shootings with 14 15 known magazine capacity, 63 (or 60%) involved large-capacity magazines. Even 16 assuming the mass shootings with unknown magazine capacity all did not involve 17 large-capacity magazines, 63 out of 161 mass shootings or 39% of mass shootings 18 involved large capacity magazines. (See table below.) 19

27. Based on our analysis of the public mass shootings data through 2019, 20 casualties were higher in the mass shootings that involved weapons with large-21 22 capacity magazines than in other mass shootings. In particular, we found an average 23 number of fatalities or injuries of 27 per mass shooting with a large-capacity 24 magazine versus 9 for those without. Focusing on just fatalities, we found an average 25 number of fatalities of 10 per mass shooting with a large-capacity magazine versus 6 26 for those without. (See table below.) 27

28

Numbers of Fatalities and Injuries in Public Mass Shootings January 1982 - December 2019					
		·			
	Weapon Used	# of Incidents	Fatalities	Average # of Injuries	Total
	LCM	63	10	17	27
	Non-LCM	42 5 (	6	3	9
	Unknown	56	5	3	7
	Notes and Sources:				
	Casualty figures e			ation and casualt	ies based on
	review of stories f	rom Factiva/Goog	gle searches.		
2	8. In addition to	the analysis	using data th	hrough 2019	discussed abo
onaluza	d more recent mag	chootings	naludina fra	m Ionuomi	2020 through O
anaryze	d more recent mass	s shootings, i	including fre	fill Jalluary 2	2020 through O
2022. <sup>36</sup>	Based on our anal	ysis of this r	nore recent	data, we fou	and similar resu
particul	ar, we found casu	alties were	higher in th	ne mass sho	potings that inv
weapon	s with large-capac	city magazir	es than in	other mass	shootings. The
below s	ummarizes these re	esults using d	ata for the p	eriod 1982 t	hrough October
30	<sup>5</sup> Note, however, th	- at the Citize	ns Crime Co	mmission d	ata was last un
	ary 2018 and the				

1	Numbers of F	atalities and	Injuries in	Public Mass	s Shootings	]
2	January 1982 - October 2022					
3		# of		Average # of		
	Weapon Used	Incidents	Fatalities	Injuries	Total	
	LCM	72	10	16	25	
	LCM Non-LCM	73 42	10 6	16 3	25 9	
	Unknown	64	5	3	7	
	Notes and Sources	:				
		exclude the shoote		ation and casualti	es based on	
	review of stories	from Factiva/Goog	gle searches.			
	29. Our results	are consistent	with those of	of other stud	ies that have	mali
	29. Our results				les that have a	mary
m	ass shootings. Note th	at although th	ne other stud	lies are base	d on alternate	e set
m	ass shootings, includi	ng covering	different yea	ars and defi	ining mass sl	hoot
SO	mewhat differently, th	e results are s	imilar in fin	ding that fata	alities and inj	uries
121	ger in mass shootings	in which lar	oe canacity	magazines	are involved	А 2
				-		
ac	ademic article publish	ed in the Ame	rican Journe	al of Public I	Health by Kla	ireva
al.	found that "[a]ttacks	involving LO	CMs resulte	d in a 62%	higher mean	aver
de	ath toll." <sup>37</sup> This study	found an av	verage numb	per of fatalit	ies of 11.8 n	er n
	•		C		1	
sh	ooting with a large-cap	bacity magazi	ne versus 7.	3 for those v	vithout. The r	esult
th	s study were based or	1 69 mass sho	otings betwe	een 1990 an	d 2017. <sup>38</sup> An	anal
-	<sup>37</sup> Louis Klarevas,	 Andrew Com	ner. and Day	vid Hemenw	av. "The Effe	ct of
La	rge-Capacity Magazin				-	
	nerican Journal of Pul	· · · · ·	/			
011	<sup>38</sup> The Klarevas et n violence with 6 or m	-		-		
<b>U</b>	d, unlike my analysis,				• • •	
in	volving other original			r 1		

28 involving other criminal activity such as robbery.

<ul> <li>(21 average fatalities or injuries in mass shootings involving lar</li> <li>magazines versus 8 for those without).<sup>39</sup> The Kleck study covered 88 ma</li> <li>incidents between 1994 and 2013.<sup>40</sup> In a 2018 study, Koper et al. foun</li> <li>shootings involving assault weapons and large-capacity magazines res</li> <li>average of 13.7 victims versus 5.2 for other cases.<sup>41</sup> The Koper et al. stu</li> </ul>	nass shooting and that mass esulted in an
<ul> <li>magazines versus 8 for those without).<sup>37</sup> The Kleck study covered 88 ma</li> <li>incidents between 1994 and 2013.<sup>40</sup> In a 2018 study, Koper et al. foun</li> <li>shootings involving assault weapons and large-capacity magazines res</li> <li>average of 13.7 victims versus 5.2 for other cases.<sup>41</sup> The Koper et al. stu</li> </ul>	and that mass esulted in an
<ul> <li>incidents between 1994 and 2013.<sup>40</sup> In a 2018 study, Koper et al. found</li> <li>shootings involving assault weapons and large-capacity magazines rest</li> <li>average of 13.7 victims versus 5.2 for other cases.<sup>41</sup> The Koper et al. study</li> </ul>	esulted in an
<ul> <li>shootings involving assault weapons and large-capacity magazines res</li> <li>average of 13.7 victims versus 5.2 for other cases.<sup>41</sup> The Koper et al. str</li> </ul>	
average of 13.7 victims versus 5.2 for other cases. <sup>41</sup> The Koper et al. stu	
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21 22 <sup>39</sup> Kleck, Gary, "Large-Capacity Magazines and the Casualty Cour	M
<ul> <li><sup>39</sup> Kleck, Gary, "Large-Capacity Magazines and the Casualty Cour</li> <li>Shootings: The Plausibility of Linkages," 17 Justice Research and Policy</li> </ul>	
<ul> <li>(2016).</li> <li><sup>40</sup> The Kleck study defines a mass shooting as "one in which more</li> </ul>	re than six
people were shot, either fatally or nonfatally, in a single incident." See, F	, Kleck,
Gary, "Large-Capacity Magazines and the Casualty Counts in Mass Shoe Plausibility of Linkages," 17 <i>Justice Research and Policy</i> 28 (2016).	ootings: The
<sup>41</sup> Koper et al., "Criminal Use of Assault Weapons and High-Capa	
<ul> <li>Semiautomatic Firearms: an Updated Examination of Local and National</li> <li>Journal of Urban Health (2018).</li> <li>21</li> </ul>	iai Sources,"

1 145 mass shootings between 2009 and 2015.<sup>42</sup> The table below summarizes their

2 results.

Source	# Victims	Criteria Other Criteria	Time Period	# of Incidents	Avg. # of Fatalities With LCM	<u>+ Injuries / Fatalitie</u> Without LCM
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Allen (2020) <sup>1</sup>	at least 4 <u>killed</u> <sup>2</sup>	Includes shootings "in a public place in one incident, and exclude[s] incidents involving other criminal activity such as a robbery"	1982-2019	161	27 / 10	9/6
Kleck et al. (2016) <sup>3</sup>	at least 6 <u>shot</u>	Excludes "spree shootings" and includes shootings in both "public" and "private" places	1994-2013	88	21 / n/a	8 / n/a
Klarevas et al. $(2019)^4$ at least 6Includes "intentional crime of gun violence"Koper et al. $(2018)^5$ at least 4Includes shootings in both killed²Notes and Sources:		1990-2017	69	n/a / 12	n/a / 7	
Koper et al. (2018) <sup>5</sup>	-	2009-2015	145	14 / n/a	5 / n/a	
<sup>1</sup> Declaration of Lucy P <i>et al.,</i> dated January 2		of Defendants' Opposition to Mo	otion for Prelin	ninary Injuncti	on in James Miller et a	ıl. v. Xavier Becerra
	Capacity Magazines	s and the Casualty Counts in Ma	ss Shootings: 7	The Plausibilit	y of Linkages," 17 Just	tice Research and
	ffect of Large-Cap	acity Magazine Bans on High-F	atality Mass S	hootings 1990	-2017," American Jour	nal of Public Health
		eapons and High-Capacity Sem	iautomatic Fire	arms: an Upd	ated Examination of Lo	val and National
Sources, Journal of C			in aludaa ahaa			
		). Note that the Koper et al stud	y includes shoo		ng both LCM and assaul	
	<u></u>	). Note that the Koper et al stud	y includes shoo			
2. Nu caj		rounds fired in		tings involvin	ng both LCM and assaul	lt weapons.
caj	mber of pacity ma	rounds fired in	public 1	mass sh	ng both LCM and assaul	It weapons.
caj 30. In	mber of pacity ma	rounds fired in gazines	public i es that i	mass sh it is co:	nootings wit mmon for o	t <b>h large-</b>
caj 30. In hore than ten a	mber of pacity ma addition, rounds wi	rounds fired in gazines the data indicate	<b>public</b> i es that i with a	mass sh it is co: large-	nootings wit mootings wit mmon for o capacity ma	t <b>h large-</b> offenders to agazine in
caj 30. In hore than ten t hootings. Of t	addition, rounds where 63 mas	rounds fired in gazines the data indicate hen using a gun	<b>public</b> i es that i with a analyze	mass sh it is co: large- d throu	nootings wit mmon for o capacity ma ugh 2019 tha	th large- offenders to agazine in at are know
caj 30. In hore than ten hootings. Of th	addition, rounds where 63 mas	rounds fired in gazines the data indicate hen using a gun ss shootings we	<b>public</b> i es that i with a analyze	mass sh it is co: large- d throu	nootings wit mmon for o capacity ma ugh 2019 tha	th large- offenders to agazine in at are know
caj 30. In hore than ten t hootings. Of th	addition, rounds where 63 mas	rounds fired in gazines the data indicate hen using a gun ss shootings we	<b>public</b> i es that i with a analyze	mass sh it is co: large- d throu	nootings wit mmon for o capacity ma ugh 2019 tha	th large- offenders to agazine in at are know
caj 30. In nore than ten t hootings. Of th ave involved a	addition, rounds where 63 mass large-cap	rounds fired in gazines the data indicate hen using a gun ss shootings we pacity magazine,	<b>public i</b> es that i with a analyze there an	mass sh it is co: large- d throu re 43 in	nootings with mootings with mmon for o capacity ma ugh 2019 that which the r	th large- offenders to agazine in at are know number of
caj 30. In hore than ten t hootings. Of th ave involved a 42 The Ko	mber of pacity ma addition, rounds where 63 mas large-cap	rounds fired in gazines the data indicate hen using a gun ss shootings we	<b>public i</b> es that i with a analyze there an	mass sh it is condition d throu re 43 in	nootings with mootings with mmon for o capacity ma ugh 2019 that which the r	th large- offenders to agazine in at are know number of s

fired is known. Shooters fired more than ten rounds in 40 of the 43 incidents, and the average number of shots fired was 103.

- 31. Updating this analysis to include the 179 mass shootings through October 2022 yields similar results. In particular, of the 73 mass shootings we analyzed through 2022 that are known to have involved a large-capacity magazine, there are 49 in which the number of shots fired is known. Shooters fired more than ten rounds in 46 of the 49 incidents, and the average number of shots fired was 102.
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# 3. Percent of mass shooters' guns legally obtained

10 32. The data on public mass shootings indicates that the majority of guns 11 used in these mass shootings were obtained legally.<sup>43</sup> Of the 161 mass shootings 12 analyzed through 2019, there are 100 where it can be determined whether the gun 13 was obtained legally. According to the data, shooters in 77% of mass shootings 14 15 obtained their guns legally (77 of the 100 mass shootings) and 79% of the guns used 16 in these 100 mass shootings were obtained legally (184 of the 234 guns). (Note that 17 even if one assumes that *all* of the mass shootings where it is not known were 18 assumed to be illegally obtained, then one would find 48% of the mass shootings and 19 61% of the guns were obtained legally.) Updating this analysis to use the 179 mass 20 shootings through 2022 yields similar results.<sup>44</sup> 21

- 22 23
- \_\_\_
- 24
- 25

<sup>&</sup>lt;sup>43</sup> The determination of whether guns were obtained legally is based on Mother Jones and Washington Post reporting.

<sup>&</sup>lt;sup>44</sup> In particular, the 77% and 79% become 79% and 80% when updating the analysis to include mass shootings through 2022. The 48% and 61% become 50% and 62%.
28

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct. Executed on November 10, 2022, at New York, New York. Ten Lucy A 

# **INDEX OF EXHIBITS**

Exhibit	Description	Page No.
A	Curriculum Vitae of Lucy P. Allen	1-7
В	Public Mass Shootings Data, 1982 – October 2022	8-17

Case 3:17-cv-01017-BEN-JLB Document 118-1 Filed 11/10/22 PageID.8449 Page 27 of 45

# **EXHIBIT A**

Case 3:17-cv-01017-BEN-JLB Document 118-1 Filed 11/10/22 PageID.8450 Page 28 of 45

# NERA ECONOMIC CONSULTING

Exhibit A

Lucy P. Allen Managing Director

NERA Economic Consulting 1166 Avenue of the Americas New York, New York 10036 Tel: +1 212 345 5913 Fax: +1 212 345 4650 lucy.allen@nera.com www.nera.com

# LUCY P. ALLEN MANAGING DIRECTOR

# Education

#### YALE UNIVERSITY

M.Phil., Economics, 1990 M.A., Economics, 1989 M.B.A., 1986

#### **STANFORD UNIVERSITY**

A.B., Human Biology, 1981

# **Professional Experience**

1994-Present	National Economic Research Associates, Inc.
	Managing Director. Responsible for economic analysis in the areas of
	securities, finance and environmental and tort economics.
	Senior Vice President (2003-2016).
	Vice President (1999-2003).
	Senior Consultant (1994-1999).
1992-1993	Council of Economic Advisers, Executive Office of the President
1772-1775	<u>Staff Economist</u> . Provided economic analysis on regulatory and health care issues to Council Members and interagency groups. Shared responsibility for regulation and health care chapters of the <i>Economic Report of the President, 1993</i> . Working Group member of the President's National Health Care Reform Task Force.
1986-1988	Ayers, Whitmore & Company (General Management Consultants)
1983-1984	<u>Senior Associate</u> . Formulated marketing, organization, and overall business strategies including:
	Plan to improve profitability of chemical process equipment manufacturer.
	Merger analysis and integration plan of two equipment manufacturers.
	Evaluation of Korean competition to a U.S. manufacturer.
	Diagnostic survey for auto parts manufacturer on growth obstacles.

1

Exhibit A\_Allen Page 1

Marketing plan to increase international market share for major accounting firm.

# Summer 1985WNET/Channel Thirteen, Strategic Planning DepartmentAssociate.Assisted in development of company's first long-term strategicplan.Analyzed relationship between programming and viewer support.

1981-1983Arthur Andersen & Company

<u>Consultant</u>. Designed, programmed and installed management information systems. Participated in redesign/conversion of New York State's accounting system. Developed municipal bond fund management system, successfully marketed to brokers. Participated in President's Private Sector Survey on Cost Control (Grace Commission). Designed customized tracking and accounting system for shipping company.

# Teaching

1989- 1992	<u>Teaching Fellow</u> , Yale University
	Honors Econometrics
	Intermediate Microeconomics
	Competitive Strategies
	Probability and Game Theory
	Marketing Strategy
	Economic Analysis

# **Publications**

"Snapshot of Recent Trends in Asbestos Litigation: 2022 Update," (co-author), NERA Report, 2022.

"Snapshot of Recent Trends in Asbestos Litigation: 2021 Update," (co-author), NERA Report, 2021.

"The Short-Term Effect of Goodwill Impairment Announcements on Companies' Stock Prices" (co-author), *International Journal of Business, Accounting and Finance*, Volume 14, Number 2, Fall 2020.

"Snapshot of Recent Trends in Asbestos Litigation: 2020 Update," (co-author), NERA Report, 2020.

"Snapshot of Recent Trends in Asbestos Litigation: 2019 Update," (co-author), NERA Report, 2019.

"Snapshot of Recent Trends in Asbestos Litigation: 2018 Update," (co-author), NERA Report, 2018.

"Trends and the Economic Effect of Asbestos Bans and Decline in Asbestos Consumption and Production Worldwide," (co-author), *International Journal of Environmental Research and Public Health*, 15(3), 531, 2018.

"Snapshot of Recent Trends in Asbestos Litigation: 2017 Update," (co-author), NERA Report, 2017.

"Asbestos: Economic Assessment of Bans and Declining Production and Consumption," World Health Organization, 2017.

"Snapshot of Recent Trends in Asbestos Litigation: 2016 Update," (co-author), NERA Report, 2016.

"Snapshot of Recent Trends in Asbestos Litigation: 2015 Update," (co-author), NERA Report, 2015.

"Snapshot of Recent Trends in Asbestos Litigation: 2014 Update," (co-author), NERA Report, 2014.

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Case 3:17-cv-01017-BEN-JLB Document 118-1 Filed 11/10/22 PageID.8457 Page 35 of 45

# EXHIBIT B

	Case	Location	Date	Source	Large Capacity Mag.? <sup>a</sup>	Fatalities <sup>b</sup>	Injuries <sup>c</sup>	Total Fatalities & Injuries <sup>c</sup>	Shots Fired <sup>d</sup>	Gun(s) Obtained Legally? <sup>c</sup>	Offender(s)' Number of Guns
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
18 m	ass shootings since Allen (2020):										
1.	Raleigh spree shooting	Hedingham, NC	10/13/22	MJ	-	5	2	7	-	-	2
2.	Highland Park July 4 parade shooting	Highland Park, IL	7/4/22	MJ	Yes	7	48	55	83 <sup>ba</sup>	Yes	1
3.	Tulsa medical center shooting	Tulsa, OK	6/1/22	MJ	-	4	9 bb	13 <sup>bb</sup>	37 <sup>bc</sup>	Yes	2
4.	Robb Elementary School massacre	Uvalde, TX	5/24/22	MJ	Yes	21	17	38	315 bd	Yes	1 be
5.	Buffalo supermarket massacre	Buffalo, NY	5/14/22	MJ/VP	Yes	10	3	13	60 <sup>bf</sup>	Yes	1
6.	Sacramento County church shooting	Sacramento, CA	2/28/22	MJ	Yes	4	0	4	-	Yes <sup>bg</sup>	1
7.	Oxford High School shooting	Oxford, MI	11/30/21	MJ/VP	Yes	4	7	11	30 <sup>bh</sup>	Yes <sup>bi</sup>	1
8.	San Jose VTA shooting	San Jose, CA	5/26/21	MJ/VP	Yes	9	0	9	39 <sup>bj</sup>	Yes <sup>bk</sup>	3
9.	Canterbury Mobile Home Park shooting	Colorado Springs, CO	5/9/21	WaPo	Yes	6	0	6	17 <sup>bl</sup>	-	1
10.	FedEx warehouse shooting	Indianapolis, IN	4/15/21	MJ/VP/WaPo	Yes	8	7	15	-	Yes	$2^{\text{bm}}$
11.	Orange office complex shooting	Orange, CA	3/31/21	MJ/VP/WaPo	-	4	1	5	-	-	1
12.	Essex Royal Farms shooting	Baltimore County, MD	3/28/21	WaPo	-	4	1	5	-	Yes <sup>bn</sup>	1
13.	King Soopers supermarket shooting	Boulder, CO	3/22/21	MJ/VP/WaPo	Yes	10	0	10	-	Yes	2
14.	Atlanta massage parlor shootings	Atlanta, GA	3/16/21	MJ/VP/WaPo	Yes	8	1	9	-	Yes <sup>bo</sup>	1
15.	Hyde Park shooting	Chicago, IL	1/9/21	WaPo	-	5	2	7	-	-	1
16.	Englewood block party shooting	Chicago, IL	7/4/20	WaPo	-	4	4	8	-	-	-
17.	Springfield convenience store shooting	Springfield, MO	3/15/20	MJ/VP/WaPo	-	4	2	6	-	Yes <sup>bp</sup>	2
18.	Molson Coors shooting	Milwaukee, WI	2/26/20	MJ/VP/WaPo	-	5	0	5	12 <sup>bq</sup>	-	2 <sup>br</sup>
161 1	nass shootings in Allen (2020):										
19.	Jersey City Kosher Supermarket	Jersey City, NJ	12/10/19	MJ/VP/WaPo	-	4	3	7	-	Yes	5
20.	Football-watching party	Fresno, CA	11/17/19	WaPo	-	4	6	10	-	-	2
21.	Halloween Party	Orinda, CA	11/1/19	WaPo	-	5	0	5	-	-	1
22.	Tequila KC bar	Kansas City, KS	10/6/19	WaPo	-	4	5	9	-	No	2
23.	Midland-Odessa Highways	Odessa, TX	8/31/19	MJ/VP/WaPo	-	7	25	32	-	No	1
24.	Dayton	Dayton, OH	8/4/19	MJ/VP/WaPo	Yes	9	27	36	41 <sup>f</sup>	Yes	1/2
25.	El Paso Walmart	El Paso, TX	8/3/19	MJ/VP/WaPo	Yes	22	26	48	-	Yes	1

Page 1 of 10

	Case	Location	Date	Source	Large Capacity Mag.? <sup>a</sup>	Fatalities <sup>b</sup>	Injuries <sup>c</sup>	Total Fatalities & Injuries <sup>°</sup>	Shots Fired <sup>d</sup>	Gun(s) Obtained Legally? <sup>c</sup>	Offender(s)' Number of Guns
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
26.	Casa Grande Senior Mobile Estates	Santa Maria, CA	6/19/19	WaPo	-	4	0	4	-	-	1
27.	Virginia Beach Municipal Center	Virginia Beach, VA	5/31/19	MJ/VP/WaPo	Yes	12	4	16	-	Yes	2
28.	Henry Pratt Co.	Aurora, IL	2/15/19	MJ/VP/WaPo	-	5	6	11	-	No	1
29.	SunTrust Bank	Sebring, FL	1/23/19	MJ/VP/WaPo	-	5	0	5	-	Yes	1
30.	Borderline Bar & Grill	Thousand Oaks, CA	11/7/18	MJ/VP/WaPo	Yes	12	1	13	50 g	Yes	1
31.	Tree of Life Synagogue	Pittsburgh, PA	10/27/18	MJ/VP/WaPo	-	11	6	17	-	Yes	4
32.	T&T Trucking	Bakersfield, CA	9/12/18	MJ/VP/WaPo	No	5	0	5	-	-	1
33.	Capital Gazette	Annapolis, MD	6/28/18	MJ/VP/WaPo	-	5	2	7	-	Yes	1
34.	Santa Fe High School	Santa Fe, TX	5/18/18	MJ/VP/WaPo	No	10	13	23	-	-	2
35.	Waffle House	Nashville, TN	4/22/18	MJ/VP/WaPo	-	4	4	8	-	Yes	1
36.	Detroit	Detroit, MI	2/26/18	VP	-	4	0	4	-	-	-
37.	Stoneman Douglas HS	Parkland, FL	2/14/18	CC/MJ/VP/WaPo	Yes	17	17	34	-	Yes	1
38.	Pennsylvania Carwash	Melcroft, PA	1/28/18	MJ/VP/WaPo	-	4	1	5	-	-	3 h
39.	Rancho Tehama	Rancho Tehama, CA	11/14/17	MJ/VP/WaPo	Yes	4	10	14	30 <sup>i</sup>	No	2
40.	Texas First Baptist Church	Sutherland Springs, TX	11/5/17	CC/MJ/VP/WaPo	Yes	26	20	46	450 <sup>j</sup>	Yes	1
41.	Las Vegas Strip	Las Vegas, NV	10/1/17	CC/MJ/VP/WaPo	Yes	58	422	480	1100 <sup>k</sup>	Yes	23
42.	Taos and Rio Arriba counties	Abiquiu, NM	6/15/17	WaPo	No	5	0	5	-	-	1
43.	Fiamma Workplace	Orlando, FL	6/5/17	CC/MJ/VP/WaPo	No	5	0	5	-	-	1
44.	Marathon Savings Bank	Rothschild, WI	3/22/17	VP/WaPo	-	4	0	4	-	-	2
45.	Club 66	Yazoo City, MS	2/6/17	VP/WaPo	-	4	0	4	-	-	1
46.	Fort Lauderdale Airport	Fort Lauderdale, FL	1/6/17	CC/MJ/VP/WaPo	No	5	6	11	15 <sup>1</sup>	Yes	1
47.	Cascade Mall	Burlington, WA	9/23/16	CC/MJ/VP/WaPo	Yes	5	0	5	-	-	1
48.	Dallas Police	Dallas, TX	7/7/16	CC/MJ/VP/WaPo	Yes	5	11	16	-	Yes	3
49.	Walgreens Parking Lot	Las Vegas, NV	6/29/16	WaPo	-	4	0	4	-	-	1
50.	Orlando Nightclub	Orlando, FL	6/12/16	CC/MJ/VP/WaPo	Yes	49	53	102	110 <sup>m</sup>	Yes	2
51.	Franklin Avenue Cookout	Wilkinsburg, PA	3/9/16	VP/WaPo	Yes	6	3	9	48 <sup>n</sup>	No	2
52.	Kalamazoo	Kalamazoo County, MI	2/20/16	MJ/VP/WaPo	Yes	6	2	8	-	Yes	1
53.	San Bernardino	San Bernardino, CA	12/2/15	CC/MJ/VP/WaPo	Yes	14	22	36	150 <sup>o</sup>	Yes	4

Page 2 of 10

	Case	Location	Date	Source	Large Capacity Mag.?ª	Fatalities <sup>b</sup>	Injuries°	Total Fatalities & Injuries <sup>°</sup>	Shots Fired <sup>d</sup>	Gun(s) Obtained Legally? <sup>°</sup>	Offender(s)' Number of Guns
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
54.	Tennessee Colony campsite	Anderson County, TX	11/15/15	VP/WaPo	-	6	0	6	-	-	1
55.	Umpqua Community College	Roseburg, OR	10/1/15	CC/MJ/VP/WaPo	-	9	9	18	-	Yes	6
56.	Chattanooga Military Center	Chattanooga, TN	7/16/15	CC/MJ/VP/WaPo	Yes	5	2	7	-	Yes	3
57.	Charleston Church	Charleston, SC	6/17/15	CC/MJ/VP/WaPo	Yes	9	3	12	-	Yes	1
58.	Marysville High School	Marysville, WA	10/24/14	CC/MJ/VP/WaPo	Yes	4	1	5	-	No	1
59.	Isla Vista	Santa Barbara, CA	5/23/14	MJ/VP/WaPo	No	6	13	19	50 P	Yes	3
60.	Alturas Tribal	Alturas, CA	2/20/14	MJ/VP/WaPo	-	4	2	6	-	-	2
61.	Washington Navy Yard	Washington, D.C.	9/16/13	CC/MJ/VP/WaPo	No	12	8	20	-	Yes	2
62.	Hialeah	Hialeah, FL	7/26/13	CC/MJ/VP/WaPo	Yes	6	0	6	10 q	Yes	1
63.	Santa Monica	Santa Monica, CA	6/7/13	CC/MJ/VP/WaPo	Yes	5	3	8	70 <sup>r</sup>	Yes	2
64.	Federal Way	Federal Way, WA	4/21/13	MJ/VP/WaPo	-	4	0	4	-	Yes	2
65.	Upstate New York	Herkimer County, NY	3/13/13	MJ/VP/WaPo	-	4	2	6	-	Yes	1
66.	Newtown School	Newtown, CT	12/14/12	CC/MJ/VP/WaPo	Yes	27	2	29	154	No	4/3
67.	Accent Signage Systems	Minneapolis, MN	9/27/12	CC/MJ/VP/WaPo	Yes	6	2	8	46	Yes	1
68.	Sikh Temple	Oak Creek, WI	8/5/12	CC/MJ/VP/WaPo	Yes	6	4	10	-	Yes	1
69.	Aurora Movie Theater	Aurora, CO	7/20/12	CC/MJ/VP/WaPo	Yes	12	70	82	80	Yes	4
70.	Seattle Café	Seattle, WA	5/30/12	CC/MJ/VP/WaPo	No	5	1	6	-	Yes	2
71.	Oikos University	Oakland, CA	4/2/12	CC/MJ/VP/WaPo	No	7	3	10	-	Yes	1
72.	Su Jung Health Sauna	Norcross, GA	2/22/12	MJ/WaPo	-	4	0	4	-	Yes	1
73.	Seal Beach	Seal Beach, CA	10/14/11	CC/MJ/VP/WaPo	No	8	1	9	-	Yes	3
74.	IHOP	Carson City, NV	9/6/11	CC/MJ/VP/WaPo	Yes	4	7	11	-	Yes	3
75.	Akron	Akron, OH	8/7/11	VP	No	7	2	9	21 <sup>s</sup>	-	-
76.	Forum Roller World	Grand Prairie, TX	7/23/11	WaPo	-	5	4	9	-	-	1
77.	Grand Rapids	Grand Rapids, MI	7/7/11	CC	Yes	7	2	9	10	-	1
78.	Family law practice	Yuma, AZ	6/2/11	WaPo	-	5	1	6	-	-	1
79.	Tucson	Tucson, AZ	1/8/11	CC/MJ/VP/WaPo	Yes	6	13	19	33	Yes	1
80.	Jackson	Jackson, KY	9/11/10	VP	No	5	0	5	12 <sup>t</sup>	-	-
81.	City Grill	Buffalo, NY	8/14/10	VP/WaPo	-	4	4	8	10 <sup>u</sup>	-	1

Page 3 of 10

	Case	Location	Date	Source	Large Capacity Mag.?ª	Fatalities <sup>b</sup>	Injuries <sup>c</sup>	Total Fatalities & Injuries <sup>°</sup>	Shots Fired <sup>d</sup>	Gun(s) Obtained Legally? <sup>c</sup>	Offender(s)' Number of Guns
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
82.	Hartford Beer Distributor	Manchester, CT	8/3/10	CC/MJ/VP/WaPo	Yes	8	2	10	11	Yes	2
83.	Yoyito Café	Hialeah, FL	6/6/10	CC/VP/WaPo	No	4	3	7	9 <sup>v</sup>	-	-
84.	Hot Spot Café	Los Angeles, CA	4/3/10	VP/WaPo	-	4	2	6	50 <sup>w</sup>	-	1
85.	Coffee Shop Police	Parkland, WA	11/29/09	CC/MJ/VP/WaPo	No	4	0	4	-	No	2
86.	Fort Hood	Fort Hood, TX	11/5/09	CC/MJ/VP/WaPo	Yes	13	32	45	214	Yes	1
87.	Worth Street	Mount Airy, NC	11/1/09	VP/WaPo	-	4	0	4	16 <sup>x</sup>	No	1
88.	Binghamton	Binghamton, NY	4/3/09	CC/MJ/VP/WaPo	Yes	13	4	17	99	Yes	2
89.	Carthage Nursing Home	Carthage, NC	3/29/09	CC/MJ/VP/WaPo	No	8	2	10	-	Yes	2
90.	Skagit County	Alger, WA	9/2/08	VP/WaPo	-	6	4	10	-	No	2
91.	Atlantis Plastics	Henderson, KY	6/25/08	CC/MJ/VP/WaPo	No	5	1	6	-	Yes	1
92.	Black Road Auto	Santa Maria, CA	3/18/08	VP/WaPo	-	4	0	4	17 У	-	1
93.	Northern Illinois University	DeKalb, IL	2/14/08	CC/MJ/VP/WaPo	Yes	5	21	26	54	Yes	4
94.	Kirkwood City Council	Kirkwood, MO	2/7/08	CC/MJ/VP/WaPo	No	6	1	7	-	No	2
95.	Youth With a Mission and New Life Church	Colorado Springs, CO	12/9/07	VP/WaPo	Yes	4	5	9	25 <sup>z</sup>	-	3
96.	Westroads Mall	Omaha, NE	12/5/07	CC/MJ/VP/WaPo	Yes	8	5	13	14	No	1
97.	Crandon	Crandon, WI	10/7/07	CC/MJ/WaPo	Yes	6	1	7	30 <sup>aa</sup>	Yes	1
98.	Virginia Tech	Blacksburg, VA	4/16/07	CC/MJ/VP/WaPo	Yes	32	17	49	176	Yes	2
99.	Trolley Square	Salt Lake City, UT	2/12/07	CC/MJ/VP/WaPo	No	5	4	9	-	No	2
100.	Amish School	Lancaster County, PA	10/2/06	CC/MJ/VP/WaPo	No	5	5	10	-	Yes	3
101.	The Ministry of Jesus Christ	Baton Rouge, LA	5/21/06	VP/WaPo	-	5	1	6	-	-	1
102.	Capitol Hill	Seattle, WA	3/25/06	CC/MJ/VP/WaPo	Yes	6	2	8	-	Yes	4
103.	Goleta Postal	Goleta, CA	1/30/06	CC/MJ/VP/WaPo	Yes	7	0	7	-	Yes	1
104.	Sash Assembly of God	Sash, TX	8/29/05	VP/WaPo	-	4	0	4	-	-	2
105.	Red Lake	Red Lake, MN	3/21/05	CC/MJ/VP/WaPo	No	9	7	16	-	No	3
106.	Living Church of God	Brookfield, WI	3/12/05	CC/MJ/VP/WaPo	Yes	7	4	11	-	Yes	1
107.	Fulton County Courthouse	Atlanta, GA	3/11/05	VP/WaPo	-	4	0	4	-	No	1
108.	Damageplan Show	Columbus, OH	12/8/04	CC/MJ/VP/WaPo	No	4	3	7	15 <sup>ab</sup>	Yes	1
109.	Hunting Camp	Meteor, WI	11/21/04	CC/VP/WaPo	Yes	6	2	8	20	-	1

Page 4 of 10

	Case	Location	Date	Source	Large Capacity Mag.? <sup>a</sup>	Fatalities <sup>b</sup>	Injuries <sup>c</sup>	Total Fatalities & Injuries <sup>c</sup>	Shots Fired <sup>d</sup>	Gun(s) Obtained Legally? <sup>e</sup>	Offender(s)' Number of Guns
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
110.	ConAgra Foods Plant	Kansas City, KS	7/3/04	VP/WaPo	-	6	1	7	10 <sup>ac</sup>	-	2
111.	Stateline Tavern	Oldtown, ID	10/24/03	VP/WaPo	Yes	4	0	4	14 <sup>ad</sup>	-	1
112.	Windy City Warehouse	Chicago, IL	8/27/03	CC/VP/WaPo	No	6	0	6	-	-	-
113.	Lockheed Martin	Meridian, MS	7/8/03	CC/MJ/VP/WaPo	-	6	8	14	-	Yes	5
114.	Labor Ready	Huntsville, AL	2/25/03	VP/WaPo	-	4	1	5	-	-	1
115.	Bertrand Products	South Bend, IN	3/22/02	VP/WaPo	-	4	2	6	-	-	2
116.	Burns International Security	Sacramento, CA	9/10/01	VP/WaPo	Yes	5	2	7	200 <sup>ae</sup>	-	2
117.	Bookcliff RV Park	Rifle, CO	7/3/01	VP/WaPo	No	4	3	7	6 <sup>af</sup>	-	1
118.	Navistar	Melrose Park, IL	2/5/01	CC/MJ/VP/WaPo	Yes	4	4	8	-	Yes	4
119.	Houston	Houston, TX	1/9/01	VP	-	4	0	4	-	-	-
120.	Wakefield	Wakefield, MA	12/26/00	CC/MJ/VP/WaPo	Yes	7	0	7	37	Yes	3
121.	Mount Lebanon	Pittsburgh, PA	4/28/00	VP/WaPo	No	5	1	6	-	Yes	1
122.	Mi-T-Fine Car Wash	Irving, TX	3/20/00	VP/WaPo	-	5	1	6	-	-	-
123.	Hotel	Tampa, FL	12/30/99	CC/MJ/VP/WaPo	No	5	3	8	-	Yes	2
124.	Xerox	Honolulu, HI	11/2/99	CC/MJ/VP/WaPo	Yes	7	0	7	28	Yes	1
125.	Wedgwood Baptist Church	Fort Worth, TX	9/15/99	CC/MJ/VP/WaPo	Yes	7	7	14	30	Yes	2
126.	Atlanta Day Trading	Atlanta, GA	7/29/99	MJ/VP/WaPo	-	9	13	22	-	Yes	4
127.	Albertson's Supermarket	Las Vegas, NV	6/3/99	VP/WaPo	-	4	1	5	-	-	1
128.	Columbine High School	Littleton, CO	4/20/99	CC/MJ/VP/WaPo	Yes	13	23	36	188	No	4
129.	New St. John Fellowship Baptist Church	Gonzalez, LA	3/10/99	VP/WaPo	-	4	4	8	-	-	1
130.	Thurston High School	Springfield, OR	5/21/98	CC/MJ/VP/WaPo	Yes	4	25	29	50	No	3
131.	Westside Middle School	Jonesboro, AR	3/24/98	CC/MJ/VP/WaPo	Yes	5	10	15	26	No	9/10
132.	Connecticut Lottery	Newington, CT	3/6/98	CC/MJ/VP/WaPo	Yes	4	0	4	5	Yes	1
133.	Caltrans Maintenance Yard	Orange, CA	12/18/97	CC/MJ/VP/WaPo	Yes	4	2	6	144	Yes	1
134.	Erie Manufacturing	Bartow, FL	12/3/97	VP	-	4	0	4	12 <sup>ag</sup>	-	-
135.	R.E. Phelon Company	Aiken, SC	9/15/97	CC/MJ/VP/WaPo	No	4	3	7	-	No	1
136.	News and Sentinel	Colebrook, NH	8/20/97	VP/WaPo	-	4	4	8	-	-	2
137.	Fire Station	Jackson, MS	4/25/96	VP/WaPo	-	5	3	8	-	-	3

Page 5 of 10

	Case	Location	Date	Source	Large Capacity Mag.?ª	Fatalities <sup>b</sup>	Injuries°	Total Fatalities & Injuries <sup>c</sup>	Shots Fired <sup>d</sup>	Gun(s) Obtained Legally?°	Offender(s)' Number of Guns
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
138.	Fort Lauderdale	Fort Lauderdale, FL	2/9/96	CC/MJ/VP/WaPo	No	5	1	6	14 <sup>ah</sup>	Yes	2
139.	Little Chester Shoes	New York, NY	12/19/95	VP/WaPo	Yes	5	3	8	-	-	1
140.	Piper Technical Center	Los Angeles, CA	7/19/95	CC/VP/WaPo	Yes	4	0	4	-	-	-
141.	Walter Rossler Company	Corpus Christi, TX	4/3/95	CC/MJ/VP/WaPo	No	5	0	5	-	Yes	2
142.	Puppy creek	Hoke County, NC	12/31/94	VP	-	5	1	6	-	-	-
143.	Air Force Base	Fairchild Base, WA	6/20/94	CC/MJ/VP/WaPo	Yes	4	23	27	50 <sup>ai</sup>	Yes	1
144.	Chuck E. Cheese	Aurora, CO	12/14/93	CC/MJ/VP/WaPo	No	4	1	5	-	-	1
145.	Long Island Railroad	Garden City, NY	12/7/93	CC/MJ/VP/WaPo	Yes	6	19	25	30	Yes	1
146.	Unemployment Office	Oxnard, CA	12/2/93	VP/WaPo	-	4	4	8	-	-	-
147.	Family Fitness Club	El Cajon, CA	10/14/93	VP/WaPo	-	4	0	4	-	Yes	1
148.	Luigi's Restaurant	Fayetteville, NC	8/6/93	CC/MJ/VP/WaPo	No	4	8	12	-	Yes	3
149.	Washington County Bar	Jackson, MS	7/8/93	WaPo	-	5	0	5	-	-	1
150.	101 California Street	San Francisco, CA	7/1/93	CC/MJ/VP/WaPo	Yes	8	6	14	75	No	3
151.	Card club	Paso Robles, CA	11/8/92	VP/WaPo	-	6	1	7	-	-	1
152.	Watkins Glen	Watkins Glen, NY	10/15/92	CC/MJ/VP/WaPo	No	4	0	4	-	Yes	1
153.	Lindhurst High School	Olivehurst, CA	5/1/92	CC/MJ/VP/WaPo	No	4	10	14	-	Yes	2
154.	Phoenix	Phoenix, AZ	3/15/92	VP	-	4	0	4	-	-	-
155.	Royal Oak Postal	Royal Oak, MI	11/14/91	CC/MJ/VP/WaPo	Yes	4	4	8	-	Yes	1
156.	Restaurant	Harrodsburg, KY	11/10/91	VP/WaPo	No	4	0	4	6 <sup>aj</sup>	No	1
157.	University of Iowa	Iowa City, IA	11/1/91	CC/MJ/VP/WaPo	No	5	1	6	-	Yes	1
158.	Luby's Cafeteria	Killeen, TX	10/16/91	CC/MJ/VP/WaPo	Yes	23	20	43	100	Yes	2
159.	Post office	Ridgewood, NJ	10/10/91	VP/WaPo	Yes	4	0	4	-	-	2
160.	GMAC	Jacksonville, FL	6/18/90	CC/MJ/VP/WaPo	Yes	9	4	13	14	Yes	2
161.	Standard Gravure Corporation	Louisville, KY	9/14/89	CC/MJ/VP/WaPo	Yes	8	12	20	21	Yes	5
162.	Stockton Schoolyard	Stockton, CA	1/17/89	CC/MJ/VP/WaPo	Yes	5	29	34	106	Yes	2
163.	Montefiore School	Chicago, IL	9/22/88	VP/WaPo	No	4	2	6	-	-	1
164.	Old Salisbury Road	Winston-Salem, NC	7/17/88	VP/WaPo	-	4	5	9	-	-	1
165.	ESL	Sunnyvale, CA	2/16/88	CC/MJ/VP/WaPo	No	7	4	11	-	Yes	7

Page 6 of 10

	Case	Location	Date	Source	Large Capacity Mag.?ª	Fatalities <sup>b</sup>	Injuries°	Total Fatalities & Injuries <sup>°</sup>	Shots Fired <sup>d</sup>	Gun(s) Obtained Legally? <sup>e</sup>	Offender(s)' Number of Guns
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
166.	Shopping Centers	Palm Bay, FL	4/23/87	CC/MJ/VP/WaPo	Yes	6	14	20	40 <sup>ak</sup>	Yes	3
167.	United States Postal Service	Edmond, OK	8/20/86	CC/MJ/VP/WaPo	No	14	6	20	-	Yes	3
168.	Anchor Glass Container Corporation	South Connellsville, PA	3/16/85	VP/WaPo	No	4	1	5	-	-	1
169.	Other Place Lounge	Hot Springs, AR	7/24/84	VP/WaPo	No	4	1	5	-	-	1
170.	San Ysidro McDonald's	San Ysidro, CA	7/18/84	CC/MJ/VP/WaPo	Yes	21	19	40	257	Yes	3
171.	Dallas Nightclub	Dallas, TX	6/29/84	CC/MJ/VP/WaPo	Yes	6	1	7	-	No	1
172.	Alaska Mining Town	Manley Hot Springs, AK	5/17/84	VP/WaPo	No	7	0	7	-	-	1
173.	College Station	Collge Station, TX	10/11/83	VP	-	6	0	6	-	-	-
174.	Alaska Back-County	McCarthy, AK	3/1/83	VP/WaPo	-	6	2	8	-	-	2
175.	Upper West Side Hotel	New York, NY	2/3/83	VP	No	4	1	5	-	-	1
176.	The Investor	Noyes Island, AK	9/6/82	WaPo	-	8	0	8	-	-	1
177.	Welding Shop	Miami, FL	8/20/82	MJ/VP/WaPo	No	8	3	11	-	Yes	1
178.	Western Transfer Co.	Grand Prairie, TX	8/9/82	VP/WaPo	-	6	4	10	-	-	3
179.	Russian Jack Springs Park	Anchorage, AK	5/3/82	VP/WaPo	-	4	0	4	-	No	1
					Avg. (1982-201 Avg. (1982-201	,	17 3	27 9	103 16		
				LCM Avg. ( Non-LCM Avg. (	1982-Oct. 202 1982-Oct. 202		16 3	25 9	102 16		

#### Notes and Sources:

Public Mass Shootings from Mother Jones ("US Mass Shootings, 1982-2022: Data from Mother Jones' Investigation," updated October 14, 2022). MJ indicates a mass shooting identified by Mother Jones. The Citizens Crime Commission of New York City ("Mayhem Multiplied: Mass Shooters and Assault Weapons," February 2018 update, and "Citizens Crime Commission of New York City, Mass Shooting Incidents in America (1984-2012)," accessed June 1, 2017). CC indicates a mass shooting identified by Citizens Crime Commission of New York City data.

The Washington Post ("The Terrible Numbers That Grow With Each Mass Shooting,", updated May 12, 2021). WaPo indicates a mass shooting identified by The Washington Post.

The Violence Project ("Mass Shooter Database," updated May 14, 2022). VP indicates a mass shooting identified by the Violence Project.

<sup>a</sup> Large capacity magazines are those with a capacity to hold more than 10 rounds of ammunition. Stories from Factiva and Google searches reviewed to determine whether an LCM was involved.

<sup>b</sup> Offender(s) are not included in counts of fatalities and injuries. Stories from Factiva and Google searches reviewed to determine number of fatalities and injuries.

Page 7 of 10

				Large			Total		Gun(s)	Offender(s)'
				Capacity			Fatalities &	Shots	Obtained	Number of
Case	Location	Date	Source	Mag.? <sup>a</sup>	Fatalities <sup>b</sup>	Injuries <sup>c</sup>	Injuries <sup>c</sup>	Fired <sup>d</sup>	Legally? <sup>e</sup>	Guns
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

<sup>c</sup> Offender(s) are not included in counts of fatalities and injuries. Stories from Factiva and Google searches reviewed to determine number of fatalities and injuries.

<sup>d</sup> Except where noted, all data on shots fired obtained from CC.

<sup>e</sup> The determination of whether guns were obtained legally is based on Mother Jones and Washington Post reporting.

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<sup>bh</sup> "Oxford High School shooter fired 30 rounds, had 18 more when arrested, sheriff says," *Fox2Detroit*, December 1, 2021.

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<sup>bl</sup> "Colorado Springs shooter who killed 6 at party had "displayed power and control issues," police say," *The Denver Post*, May 11, 2021.

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Page 8 of 10

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<sup>g</sup> "Authorities Describe 'Confusion And Chaos' At Borderline Bar Shooting In California," NPR, November 28, 2018.

<sup>h</sup> "Suspect in quadruple killing at car wash dies," CNN, January 30, 2018.

<sup>i</sup> "California gunman fired 30 rounds at elementary school, left when he couldn't get inside," ABC News , November 15, 2017.

<sup>j</sup> "Be quiet! It's him!' Survivors say shooter walked pew by pew looking for people to shoot," CNN, November 9, 2017.

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<sup>1</sup> "Fort Lauderdale Shooting Suspect Appears in Court, Ordered Held Without Bond," Washington Post, January 9, 2017.

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<sup>n</sup> "Two men charged with homicide in connection with Wilkinsburg backyard ambush," *Pittsburgh's Action News*, June 24, 2016.

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<sup>8</sup> "Questions linger in slayings; investigation continues in rampage as community searches for answers on why gunman shot eight people," The Beacon Journal, August 14, 2011.

<sup>t</sup> "Kentucky Tragedy: Man Kills Wife, Five Others, in Rampage Over Cold Eggs, Say Cops," CBS News, September 13, 2010.

<sup>u</sup> "Ex-gang member guilty of shooting 5 in deadly 17-second rampage," NBC, April 1, 2011.

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<sup>w</sup> "Man convicted of killing 4 at Los Angeles restaurant," Associated Press , March 15, 2016.

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Page 9 of 10

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Page 10 of 10