

An analysis of New York Times and Fox News Instagram post comments regarding school-based gun violence



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INTRODUCTION

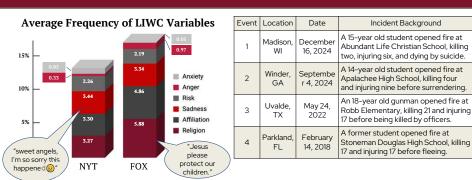
- Since 2020, firearms have become the leading cause of death among U.S. children and adolescents aged 1-19, surpassing car crashes and cancer. From 2000 to 2023, school-based gun violence incidents increased by 1029%.
- Local exposure to school shootings decreases academic performance, enrollment, and attendance, and increases depression and anxiety symptoms.
- Given that 95% of adolescents use social media, they are often indirectly exposed to distant school shooting events through online platforms. Instagram is known for high adolescent engagement.
- While the effects of local gun violence are documented, the psychological impact of unlimited exposure via social media is less understood.
- Differences in how news organizations present school-shooting related content and who follows those accounts may contribute to varying discourse and emotions present in comments.
- This study examines how responses to school gun violence content from The New York Times and Fox News reflect emotions and differ by news account.

METHODS

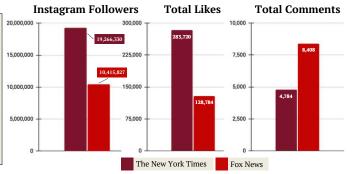
- This study was conducted using a quantitative content-analysis framework.
- Four U.S. school shooting incidents were chosen for magnitude and recency. One **Instagram post** was pulled for each event from both The New York Times (NYT) and Fox News accounts to ensure comparability between the two accounts.
- The most recent 15 comments were pulled from each of the eight posts, totaling 120 subjects for analysis.
- Subject selection was controlled for length (≥10 characters) and **content** (emoji-only comments excluded; emojis removed from selected comments).
- Comments were tagged for the variables below using Linguistic Inquiry and Word Count (LIWC) software. This study compares variable prevalence between Fox News and NYT.

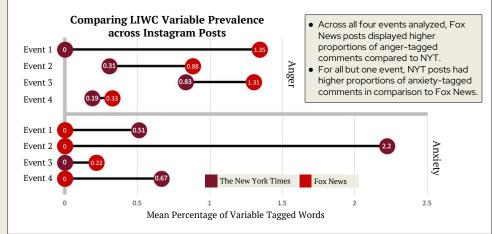
Variable	Example		
Anger	hate, mad	Anxiety	worry, fear
Sadness	heartbreak, :(Religion	god, pray
Affiliation	we, us, help	Risk	protect, secure

RESULTS



- For every 50,000 account followers, NYT receives 736 likes and 3 comments, while Fox News receives 618 likes and 10 comments.
- Thus Fox News has a greater engagement rate through comments (over 3x that of NYT), while Fox News and NYT have similar engagement rates through likes.





CONCLUSIONS

Key Findings

- Religion, sadness, and affiliation were the most common themes across all comments.
- Different news organizations shape the emotional tone and content of responses to school shootings.
- Religion-tagged comments were the most common for Fox News posts, while sadness-tagged comments were the most common on NYT posts.
- Comparatively, **NYT** posts had **higher prevalence** of anxiety-tagged comments, while Fox News had more religion and anger-tagged comments.
- Fox News had over 3x the engagement rate via **comments**. While NYT posts receive more likes, **Fox** News posts serve as a larger platform for discussion.

Implications

- This study indicates that the impact of school-based gun violence incidents travels far beyond the **localized event**, eliciting comment responses containing religious and emotional responses related to sadness, risk, anger, and anxiety.
- Different news organizations prompt differing comment-section discussions, indicating that Fox **News** commenters respond to school shootings more frequently with religion and anger, while NYT commenters respond with anxiety.

- Comments (datapoints) may have been removed for violating Instagram's Community Guidelines.
- LIWC's inability to process emoji content may have excluded valuable, non-lexical contributions.

Future Research

• Examine **more** social media **platforms** and conduct surveys to better determine the explicit impact of school-based gun violence posts on mental health.

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