# Appendix

Outlet Abbreviations:

AJC: The Atlanta Journal-Constitution
BG: The Boston Globe
NYT: The New York Times
PI: The Philadelphia Inquirer
PPG: Pittsburgh Post-Gazette
SLPD: St. Louis Post-Dispatch
ST: The Star Tribune
TBT: The Tampa Bay Times
UT: USA Today
WP: The Washington Post
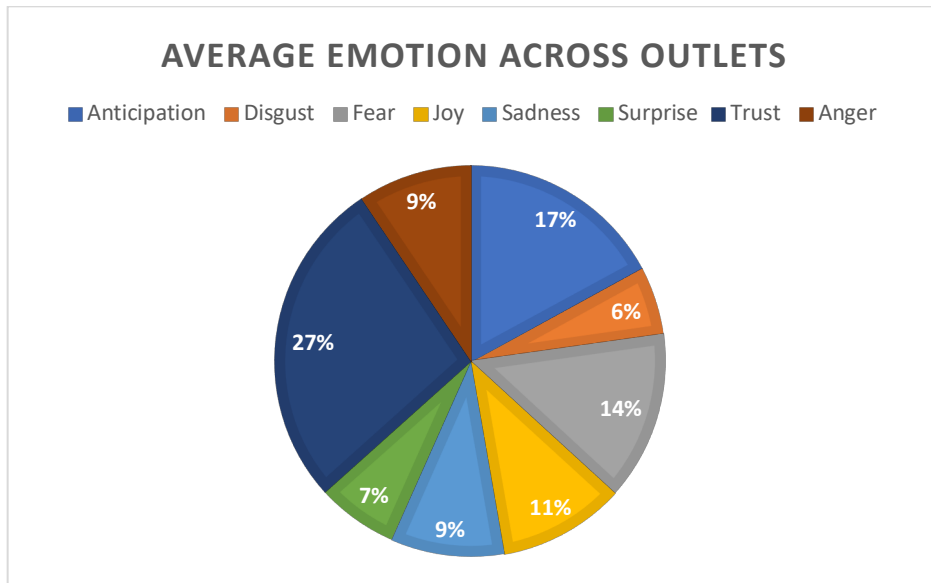WSJ: The Wall Street Journal

Descriptive Statistics:

| Outlet | Frequency | Percent | Mean Length |
|--------|-----------|---------|-------------|
| AJC | 24 | 1.2 | 754 |
| BG | 300 | 14.9 | 842 |
| NYT | 532 | 26.4 | 1024 |
| PI | 54 | 2.7 | 846 |
| PPG | 164 | 8.1 | 606 |
| SLPD | 106 | 5.3 | 822 |
| ST | 65 | 3.2 | 697 |
| TBT | 78 | 3.9 | 806 |
| UT | 107 | 5.3 | 571 |
| WP | 391 | 19.4 | 862 |
| WSJ | 196 | 9.7 | 743 |
| Total | 2017 | 100 | 779 |

| NRC Sentiment | | |
|---------------|---------|------------|
| N | Valid | 2017 |
| | Missing | 0 |
| Mean | | 14.5686663 |
| Median | | 13 |
| Mode | | 14 |
| Std. Deviation | | 10.8715612 |
| Skewness | | 0.64772889 |

| Std. Error of Skewness | 0.05450044 |
|---|---|

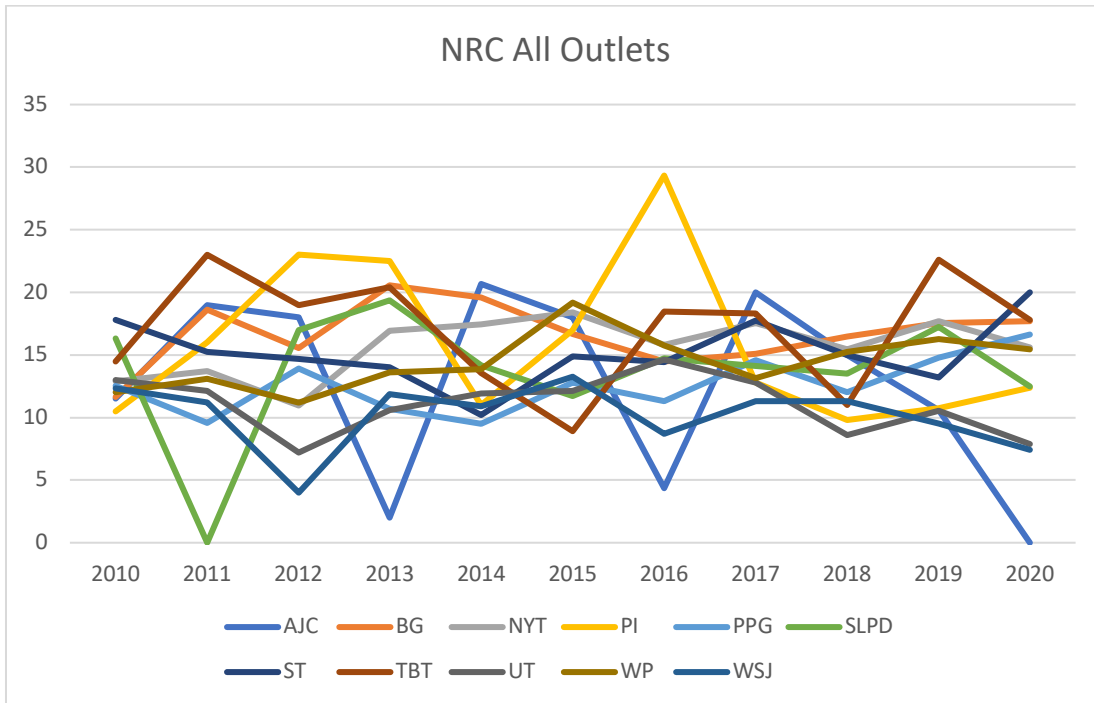| LSD_ sentiment | | |
|---|---|---|
| N | Valid | 2017 |
| | Missing | 0 |
| Mean | | 4.61 |
| Median | | 4 |
| Mode | | 4 |
| Std. Deviation | | 16.286 |
| Skewness | | 0.024 |
| Std. Error of Skewness | | 0.055 |

To confirm that the portion of emotion words we saw in climate change coverage was not a byproduct of the number of different emotion words in the NRC dictionary, we compared the two in pie charts below:



AVERAGE EMOTION ACROSS OUTLETS

NRC DICTIONARY WORDS

Anticipation: 10%
Disgust: 13%
Fear: 18%
Joy: 8%
Sadness: 14%
Surprise: 7%
Trust: 15%
Anger: 15%
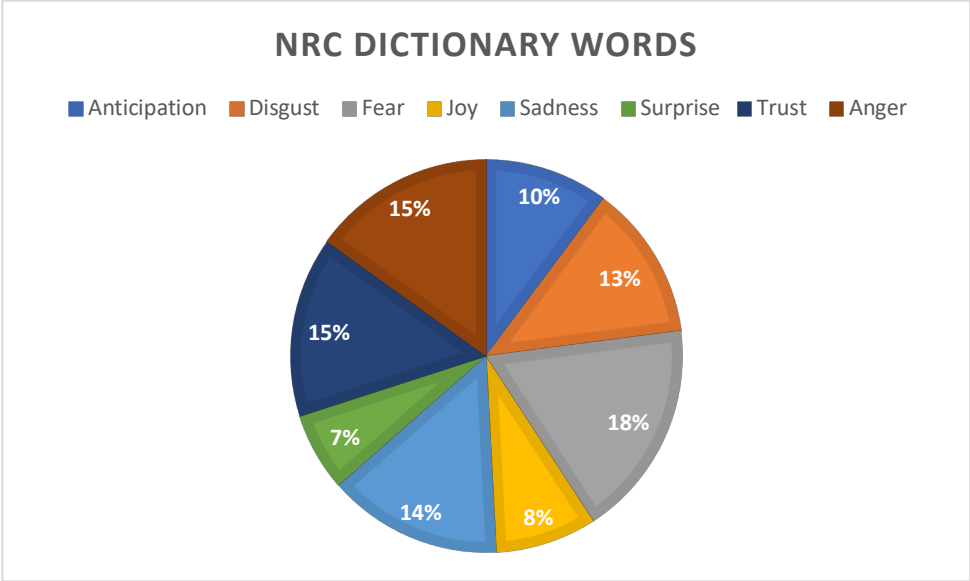
While the proportion of emotion words in the NRC dictionary influences what is observed in each article, the average emotions in coverage differ from the portion of words in the NRC dictionary – except for surprise.



Lexicoder All Outlets

## NRC All Outlets

A line chart titled "NRC All Outlets" showing data from 2010 to 2020 on the x-axis, with values from 0 to 35 on the y-axis. The legend includes: AJC, BG, NYT, PI, PPG, SLPD, ST, TBT, UT, WP, WSJ.
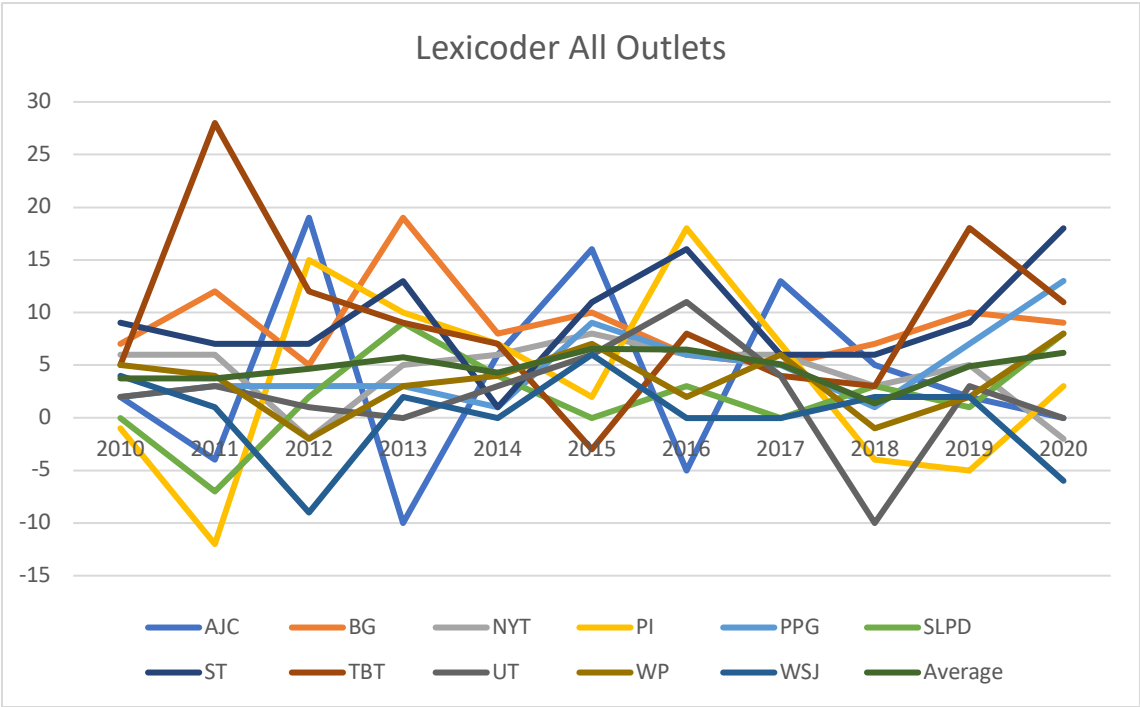
Codebook for RQ 4:

| Coding Variable | Definition | Examples | Coding Instructions |
|---|---|---|---|
| Presence of Fear | Content that may be anxiety provoking, invoke worry, or include fear-based words (according to the NRC Emoticon Dictionary) such as alarm, victim, shaking, ruinous or irreparable. | -Stories about natural disasters that include fear-based words<br><br>-Stories about climate change reports that include fear-based words.<br><br>-Stories that discuss a grim future as result of climate change. | If any level of fear is present at the article level, code as 1.<br><br>If not present at the article level, code as 0.<br><br>**If Fear is not present, code all other variables as 9.** |
| Categories of Fear: Economic | Content that may raise concerns surrounding the economic cost of climate action OR inaction. | -Stories about how carbon taxes could be passed down to consumers<br><br>-Stories about the costs of retrofitting buildings or clean energy infrastructure. | If fear is economic based, code as 1.<br><br>If fear is not economic based, code as 0. |

| Categories of Fear: Climate Change Repercussions | Content that may be raise concern surrounding the livability of the planet, extreme weather events | -Stories about increasing heat levels <br><br> -Stories about climate refugees | If fear is climate change repercussion based, code as 1. <br><br> If fear is climate change repercussion based, code as 0. |
|---|---|---|---|
| Messages Promoting Self Efficacy: Policy Action | The story includes context of something being done by the government (on any level) to promote climate change mitigation. | -Proposed clean energy legislation <br><br> -Local climate action plans | If present at the article level, code as 1. <br><br> If not present at the article level, code as 0. |
| Messages Promoting Self Efficacy: International Agreement or Action | The story includes references to international climate meetings or other action. | -United Nations meeting about climate change <br><br> -Other global summits and meetings on climate | If present at the article level, code as 1 <br><br> If not present at the article level, code as 0 |
| Messages Promoting Self Efficacy: Corporate Action | The story includes a discussion of how corporate actors are working to curb greenhouse gas emissions. | -Company is going carbon neutral <br><br> -Corporations' commitment to renewable energy | If present at the article level, code as 1 <br><br> If not present at the article level, code as 0 |
| Messages Promoting Self Efficacy: New Technologies | The story includes a discussion of a new technology that is believed to help reduce greenhouse gas emissions. | -Electric vehicles <br><br> -Solar, wind, tidal technology | If present at the article level, code as 1. <br><br> If not present at the article level, code as 0. |
| Messages Promoting Self Efficacy: Activism | The story includes reference to activist groups' efforts to address climate change. | -Climate protests <br><br> -Climate groups lobbying elected officials | If present at the article level, code as 1. <br><br> If not present at the article level, code as 0. |
| Other | The story includes another message that would promote self-efficacy. | | If present at the article level, code as 1. <br><br> If not present at the article level, code as 0. |

| Variable | Percent Agreement | Scott's Pi | Cohen's Kappa | Krippendorff's Alpha (nominal) | N Agreements | N Disagreements | N Cases | N Decisions |
|---|---|---|---|---|---|---|---|---|
| Presence of Fear | 85.70% | 0.701 | 0.702 | 0.706 | 24 | 4 | 28 | 56 |
| Economic Fear | 82.10% | 0.686 | 0.689 | 0.692 | 23 | 5 | 28 | 56 |
| Climate Change Repercussions Fear | 78.60% | 0.613 | 0.618 | 0.62 | 22 | 6 | 28 | 56 |
| Presence of Policy Action | 78.60% | 0.613 | 0.615 | 0.62 | 22 | 6 | 28 | 56 |
| Presence of International Agreement or Action | 78.60% | 0.586 | 0.588 | 0.594 | 22 | 6 | 28 | 56 |
| Presence of Corporate Action | 82.10% | 0.641 | 0.643 | 0.648 | 23 | 5 | 28 | 56 |
| Presence of New Technologies | 85.70% | 0.701 | 0.702 | 0.706 | 24 | 4 | 28 | 56 |
| Presence of Activism | 85.70% | 0.701 | 0.702 | 0.706 | 24 | 4 | 28 | 56 |
| Presence of Other Self-Efficacy Message | 82.10% | 0.641 | 0.645 | 0.648 | 23 | 5 | 28 | 56 |