Do Voters Get the Information They Want? Understanding Authentic Voter FAQs in the US and How to Improve for Informed Electoral Participation

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Abstract

Accurate information is crucial for democracy as it empowers voters to make informed decisions about their representatives and keep them accountable. In the US, state election commissions (SECs), often required by law, are the primary providers of Frequently Asked Questions (FAQs) to voters, and secondary sources like non-profits such as the League of Women Voters (LWV) try to complement their information shortfall. However, surprisingly, to the best of our knowledge, there is neither a single source with comprehensive FAQs nor a study analyzing the data at a national level to identify current practices and ways to improve the status quo. This paper addresses it by providing the **first dataset on Voter FAQs covering all the US states**. Second, we introduce metrics for FAQ information quality score (FIQS) with respect to questions, answers, and answers to corresponding questions. Third, we use FIQS to analyze US FAQs to identify leading, mainstream, and lagging content practices and corresponding states. Finally, we identify what states across the spectrum can do to improve FAQ quality and, thus, the overall information ecosystem. Across all 50 U.S. states, 12% were identified as leaders and 8% as laggards for $FIQS_{voter}$, while 14% were leaders and 12% laggards for $FIQS_{developer}$. The code and sample data are provided at: https://github.com/ai4society/election-dataset-us/

Figure 1: A real-world example of Voter FAQ. Scores of content quality are ($FIQS_{voter}$, $FIQS_{developer}$) - MA (0.41, 0.38); CA (0.7, 0.7); GA (0.13, 0.18).

1 Introduction

Democracy is the leading form of governance where people have a say in who governs them. Its success depends on the ability of participants to vote in regular elections and the ability of the government to implement the subsequent orderly transfer of power (Norris, 2017; Verba and Nie, 1972). Democracy at a practical level means empowering the voter with a right to choose and providing all relevant and reliable information including knowing about candidates, campaign finance, voting procedure, processing of votes, and declaration of results. However, around the world, stakeholders are struggling to find accurate information, which is now especially acute in the age of generative Artificial Intelligence (AI) and other technologies from the Natural Language Processing (NLP) and wider AI communities.

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The situation is so bad with information gaps and disorders that whenever AI is referenced in connection with elections, it often draws negative reactions due to the fear of bots, misinformation, and hacking. As a baseline and illustration of the current situation, for elections, OpenAI declared that ChatGPT will defer election questions to human-curated Frequently Asked Questions (FAQs) (OpenAI, 2024), even though it has one of the best performance in QA settings. This is particularly disappointing for AI, and especially chatbots, or bots, for short, since they are multi-modal collaborative assistants that have been studied since the early days of AI to help people complete useful tasks. For elections, people could have overcome voting complexity by accessing authentic information conveniently in their own language or words through their smartphones, computers, and home devices.

In the United States (US), state election commissions (SECs), often required by law, are the primary providers of Frequently Asked Questions (FAQs) (see Fig. 1) to voters, and secondary sources like non-profits such as League of Women Voters (LWV) try to complement their information shortfall. However, there is a general perception that it is hard to find the right, accurate information and in its absence, the democratic processes are under increasing threats like *information disorders*, a term which covers misinformation, disinformation and misinformation (Norris, 2017; Carroll et al., 2023; Rossetti and Zaman, 2023; Shu et al., 2020; Kandel, 2020). However, surprisingly, to the best of our knowledge, there is neither a single source with comprehensive FAQs nor a study analyzing the data at a national level to identify current practices and ways to improve the status quo. In response, we provide a dataset on Voter FAQs for the NLP community covering all the US states. We next present the related work, followed by data and NLP methods, and then analyze the FAQ data. We use the analysis to identify guidelines that lagging and mainstream states can adopt and conclude.

In summary, our key contributions are:

- We present the **first NLP dataset of voter FAQs** encompassing all U.S. states (see Section 3.1).
- We introduce metrics for FAQ information quality score (FIQS) with respect to questions, answers, and answers to corresponding questions (see Section 3.3).
- We use FIQS to analyze US FAQs to identify leading, mainstream, and lagging content practices and corresponding states. (see Section 4).
- We identify what states across the spectrum can do to improve FAQ quality and, thus, the overall information ecosystem. (see Section 5).

2 Related Work

Going beyond studying the negative impacts of AI on elections, researchers have begun shifting attention to its positive impacts. AI-driven tools can enhance voter education by offering personalized, real-time responses to common election questions, and they can support policymakers by identifying trends and disparities in voter access or participation. By providing actionable insights, AI could play a transformative role in improving the transparency and efficiency of electoral systems. In this regard, (Srivastava, 2025) outlines their **CDC** approach of (i) **C**ollating frequently anticipated questions and their authoritative answers, (ii) **D**istributing reliably by modeling multi-dimensional opinion networks with official information and discovering strategies to control them (Muppasani et al., 2024a,b), and (iii) helping people with diverse backgrounds **C**omprehend official information with personalization and provenance using chatbots (Muppasani et al., 2023, 2025), - all in the service of reducing information gap for increasing voter participation. But it all starts with authentic data.

In US, questions about state-specific election processes - such as voter registration, polling locations, absentee ballot rules, and early voting policies - are crucial for both voters and policymakers. However, the decentralized nature of U.S. elections means that this information is often fragmented across various state and local jurisdictions, creating barriers to accessibility and analysis. AI has the potential to address these challenges by aggregating, standardizing, and analyzing election-related data.

Releasing datasets is a key tradition in advancing NLP research, often catalyzing further work in the field. Related datasets, such as Factify3M (Chakraborty et al., 2023), have enhanced online information reliability. Our dataset adheres to the NLP community's best practices.

3 Resources and Methods

In this section, we describe the resources and methodologies utilized, including data, NLP tech-

niques, analysis setup, and the novel **composite metrics** introduced for comparing US states.

3.1 Data Preparation and Consolidation

Election-related FAQs were compiled by extracting data from official election websites across all 50 U.S. states. State-specific data, stored as JSON files containing Q&A pairs with metadata (state name, contributor, and timestamps), was consolidated into a unified dataset for analysis. Metadata was preserved for traceability and state-level topic analysis, while timestamps retained temporal context.

Data preprocessing involved deduplication using `SequenceMatcher` (difflib, 2011) (85% similarity threshold) to eliminate semantic overlap, along with text cleaning to normalize formatting (e.g., whitespace, punctuation). Election-specific terms (e.g., URLs, "voter-ID") were preserved for domain relevance. The final dataset contained unique Q&A pairs with metadata, optimized for topic modeling. Summary statistics, including total Q&A counts, provided an analytical overview.

To analyze the U.S. 2024 election dataset, we processed question-answer pairs from official state election sources and a reputable non-profit. For all 50 states, we computed source-wise counts and statistical attributes, including the average, maximum, and minimum lengths (in alphanumeric characters) of questions and answers. Data, originally in JSON format, was cleaned to remove non-alphanumeric elements (e.g., escape sequences, hyperlinks) introduced during manual collection. These statistics, summarized in Table 3, guided dataset structuring and preprocessing for downstream analysis.

3.2 Methods

We use the following four standard NLP techniques to analyze the FAQs holistically. We conduct experiments for **Question** (Q), **Answer** (A) and **Question + Answer** ($Q + A$). However, we mainly focus on $Q + A$ while we also include additional results for only Q and A in the Appendix.

3.2.1 Readability

The U.S. 2024 election information provided by both the official state resources and the non-profit website is designed to help the public understand eligibility criteria, registration procedures, and the voting process in each state. Ensuring that this information is accessible to individuals of varying literacy levels is essential for assessing the quality of election resources. To evaluate this characteristic, we used the Python Textstat library (Textstat, 2016) to perform a readability analysis on the dataset, including the questions, the answers, and complete pairs of questions and answers. The analysis used five standard readability metrics: Flesch-Kincaid Grade (FKG) (FKG_Wikipedia, 1948), with scores ranging from 0-12 corresponding to US school grade levels; Gunning Fog Index (GFI) (GFI_Wikipedia, 1952); SMOG Index (SI) (SMOG_Wikipedia, 2008); Automated Readability Index (ARI) (ARI_Wikipedia, 1967); and Coleman-Liau Index (CLI) (CLI_Wikipedia, 1975). The latter four metrics range from 1–20+, with higher scores indicating more complex material and scores above 13 on CLI suggesting content suitable for college-level readers and professionals.

3.2.2 Summarization

The quality of the U.S. election data from states and a non-profit organization relies on the alignment of answers to corresponding questions. Evaluating this alignment is challenging for lengthy state responses. To assess answer relevance, we summarized responses (350–800 characters) from all 50 states using extractive techniques via Python's Sumy library (Sumy, 2013) and abstractive methods with Hugging Face's DistilBART model (HuggingFace, 2024). We evaluated summary quality using multiple metrics: ROUGE variants (ROUGE-1, ROUGE-2, ROUGE-L, ROUGE-W, ROUGE-S, ROUGE-SU) for unigram/bigram overlap, longest common subsequence, weighted n-gram overlap, skip-bigram overlap, and overall relevance. BLEU score measured n-gram overlap with reference questions, while cosine similarity assessed textual similarity to the original questions.

3.2.3 Topic Analysis

To perform the topic analysis, we utilized **Latent Dirichlet Allocation (LDA)**, a widely-used probabilistic model for identifying latent topics in text data. LDA is particularly effective for datasets like FAQs, where documents (in this case, question-answer pairs) can represent a mixture of multiple topics.

To prepare the dataset for LDA, a document-term matrix (DTM) was constructed using TF-IDF (Term Frequency-Inverse Document Frequency) vectorization. This step involved transforming the text data into a numerical representation suitable for machine learning. Key preprocessing steps included:

- **Maximum Features:** The DTM was limited to the top 1000 most relevant terms to reduce noise while retaining informative features.
- **Stopword Removal:** Common English stopwords (e.g., "the", "and") were removed to focus on meaningful content.
- **n-gram Range:** Both unigrams and bigrams (e.g., "voter registration") were included to capture key phrases.

To determine the optimal number of topics, multiple topic counts ranging from 2 to 15 were evaluated using the following metrics:

- **Perplexity:** Measures the model's ability to generalize to unseen data, with lower values indicating better fit.
- **Silhouette Score:** Assesses the quality of document clustering within topics, with higher scores reflecting better-defined topics.
- **Topic Coherence:** Evaluates the semantic similarity of the top words in each topic, with higher scores indicating more interpretable topics.

Based on these metrics, the optimal number of topics was determined to be 8, balancing model complexity and interpretability.

The LDA model was then applied to the dataset with the following parameters:

- **Number of Topics:** 8
- **Maximum Iterations:** 20, ensuring convergence of the model.
- **Random State:** 42, for reproducibility of results.

The output of the LDA model included:

- **Topic-Word Distributions:** Highlighting the most representative words for each topic.
- **Document-Topic Distributions:** Indicating the proportion of each topic within each document.

These outputs provided interpretable and concise insights into the dominant themes within the dataset, forming the basis for further analysis and scoring.

Topic Scoring

To evaluate the quality and importance of the identified topics, a comprehensive scoring system was implemented. This system assigned equal weight (25%) to four key components, ensuring a balanced assessment of each topic:

- **Prevalence (25%):** Measures the average proportion of a topic across all documents. Topics with higher prevalence are considered more central to the dataset, reflecting their widespread relevance.
- **Coherence (25%):** Evaluates the semantic consistency of the top words within each topic. Coherence was computed by analyzing the co-occurrence probabilities of the top 10 words within the same documents, ensuring the interpretability of the topic.
- **Distinctiveness (25%):** Measures how unique a topic is compared to others. This was calculated using Jensen-Shannon divergence, which quantifies the dissimilarity between topic distributions, emphasizing the uniqueness of high-scoring topics.
- **Coverage (25%):** Assesses the proportion of documents where a topic is significantly represented. A document was considered to "cover" a topic if its probability for that topic exceeded a threshold of 0.1. Topics with higher coverage scores were represented in a broader range of documents.

The final topic score for each topic was calculated as given in Eq. (1):

$$\begin{aligned}\text{Final Topic Score} = 0.25 \times \text{Prevalence} + \ 0.25 \times \text{Coherence} \\ + 0.25 \times \text{Distinctiveness} + \ 0.25 \times \text{Coverage}\end{aligned} \tag{1}$$

Based on their final scores, topics were categorized into three priority levels:

- **High Priority:** Final score > 0.7.
- **Moderate Priority:** Final score between 0.3 and 0.7.
- **Low Priority:** Final score < 0.3.

This scoring system ensured that each topic was evaluated comprehensively, balancing its frequency, interpretability, uniqueness, and coverage within the dataset.

3.2.4 Sentiment Analysis

This study performed sentiment analysis on election-related data from various U.S. states, aiming to classify the sentiment of question-answer pairs as positive, negative, or neutral. The analysis used **VADER (Valence Aware Dictionary and sEntiment Reasoner)** (vaderSentiment, 2014) to evaluate sentiment in short text segments, such as those in our dataset. VADER is effective for analyzing social media-like content and returns four sentiment scores: positive, neutral, negative, and a composite compound score, which ranges from -1 (extremely negative) to +1 (extremely positive), indicating the sentiment's direction and intensity.

Each question-answer pair was assigned a sentiment based on its compound score:

- **Positive:** Compound score > 0.01
- **Negative:** Compound score < -0.01
- **Neutral:** Compound score between -0.01 and 0.01

3.3 Analyses setup

To get a holistic sense of all the metrics, we propose a novel score combining them. We propose a novel metric for FAQ Information Quality Score called **FIQS** (pronounced as *"fix"*).

$\text{FIQS}_{\text{voter}}$ incorporates sentiment analysis, readability assessment, and topic coverage evaluation. The underlying premise is that the voter prioritizes content comprehension while remaining indifferent to the mechanisms of its production (see Eq. (2)).

$$\begin{aligned}\text{FIQS}_{\text{voter}} = {} & 0.25 \times \text{Readability Score} \\ & + 0.25 \times \text{Summarization Score} \\ & + 0.25 \times \text{Sentiment Score} + \ 0.25 \times \text{Topic Score}\end{aligned} \tag{2}$$

$\text{FIQS}_{\text{developer}}$ is evaluated based on sentiment, readability, topic coverage, and prompt relevance. The underlying premise is that the developer prioritizes not only comprehension but also the efficiency of content generation. Leveraging the pre-training capabilities of large language models (LLMs), we integrate them into the process to enhance efficiency (see Eq. (3)).

$$\begin{aligned}\text{FIQS}_{\text{developer}} = {} & 0.2 \times \text{Readability Score} \\ & + 0.2 \times \text{Summarization Score} \\ & + 0.2 \times \text{Sentiment Score} + \ 0.2 \times \text{Topic Score} \\ & + 0.2 \times \text{Prompt Relevance}\end{aligned} \tag{3}$$

4 Analyzing the state of FAQs

We analyze and compare state-level data using individual and composite metrics, presenting results for **Question** (Q), **Answer** (A) and **Question + Answer** (Q + A).

	mean	std. dev.
$\text{FIQS}_{\text{voter}}$	0.4084	0.17
$\text{FIQS}_{\text{developer}}$	0.41832	0.15

Table 1: This table presents the mean and standard deviation for $\text{FIQS}_{\text{voter}}$ and $\text{FIQS}_{\text{developer}}$.

4.1 Readability

Our results revealed that questions in the dataset consistently received lower readability scores, indicating they were easier to comprehend. Conversely, the answers scored higher, suggesting greater complexity, likely due to the inclusion of specialized vocabulary and a focus on precision over simplicity. To identify the states with the highest ease of readability, all readability metrics were averaged and ranked by their lowest average scores. The readability scores for the question, answer, and combined question and answer are presented in Table 4, Table 5, and Table 6, respectively. Please refer to Appendix C for more details.

The top three states in this category were Georgia, Maryland, and Pennsylvania. In contrast, states such as North Carolina, California, and Louisiana presented election information at higher levels of reading complexity.

4.2 Summarization

To identify the states that provide the highest quality answers, we averaged the relevance metrics for each state. The states achieving the highest average relevance scores were deemed the leaders in response quality. From our analysis, Delaware, Kansas, and Michigan emerged as the top three performers, indicating superior alignment between their answers and corresponding questions. In contrast, Massachusetts, Rhode Island, and Hawaii scored the lowest, suggesting room for improvement in the quality of their responses. The summarization analysis for the question is presented for both *Abstractive* (Table 7) and *Extractive* (Table 8) approaches, while the analysis for the answer is provided for *Abstractive* (Table 9) and *Extractive* (Table 10) methods. Additionally, the summarization analysis for the combined question and answer is shown for *Abstractive* (Table 11) and *Extractive* (Table 12). Please refer to Appendix D for more details.

4.3 Topic Analysis

The topic modeling and scoring system results were analyzed to identify key topics in the election-related FAQ dataset. Each topic was evaluated based on its final score, component contributions (Prevalence, Coherence, Distinctiveness, and Coverage), and its distribution across states. Various visualization techniques were used to present these findings. Below are the key metrics:

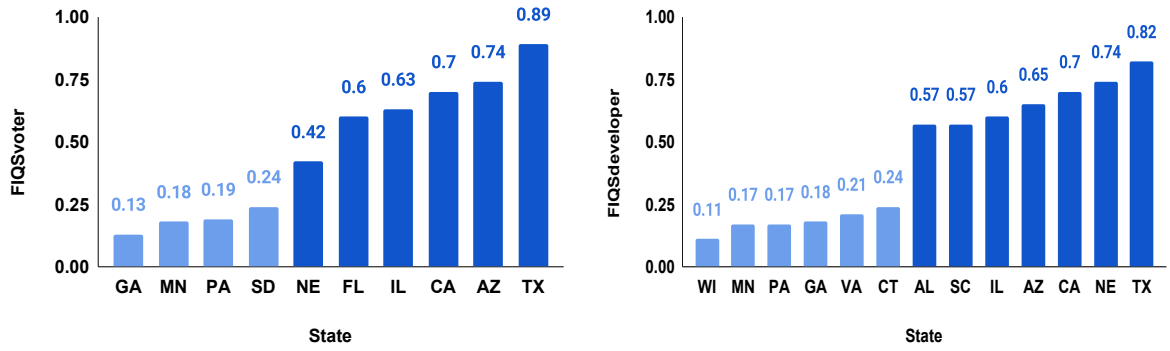

Figure 2: US states leading and lagging in voter FAQ content quality, as assessed using a cut-off of one standard deviation from the mean on the metric (i.e., $\geq (\mu \pm \sigma)$; $\leq (\mu \pm \sigma)$). We call them leaders and laggards, respectively.

Table 2: Question + Answer Topic Analysis Summary

Topic	Final Score	Prevalence	Coherence	Distinctiveness	Coverage	Top Terms
Topic 1: Political Parties and Primary Elections	0.46	0.28	0.44	0.80	308	party, primary, political, election, primary election
Topic 2: Voter Registration	0.76	0.82	0.91	0.52	0.79	registration, voter, voter registration, address, register
Topic 3: Absentee Voting	0.41	0.49	0.53	0.08	0.52	ballot, absentee, absentee ballot, mail, return
Topic 4: Voting Equipment Security	0.16	0.00	0.00	0.65	0.00	machines, write, secure, paper, card
Topic 5: Voter Identification Requirements	0.24	0.06	0.06	0.69	0.13	photo, id, photo id, business, report
Topic 6: Military and Overseas Voting	0.39	0.16	0.19	1.00	0.22	overseas, military, vote, register, register vote
Topic 7: Campaign Filing and Candidates	0.26	0.06	0.08	0.77	0.11	campaign, candidates, filing, committee
Topic 8: Election Day and Polling Information	0.75	1.00	1.00	0.00	1.00	election, ballot, day, voting, polling

- **Top Words:** Most representative words based on their probabilities in the topic-word distribution.
- **Prevalence:** Average proportion of the topic across all documents.
- **Coherence:** Semantic consistency of the top words.
- **Distinctiveness:** Uniqueness of the topic relative to others.
- **Coverage:** Proportion of documents where the topic probability exceeds 0.1.

A heatmap was generated to visualize the distribution of topics across states Fig. 11.

The state performance in election FAQ coverage is assessed using a comprehensive scoring formula that incorporates multiple components (see Eq. (4)).

$$\text{Final State Score} = \sum(\text{Topic\_Value} \times \text{Topic\_Weight} \times \text{FAQ\_Normalization} \times \text{FAQ\_Penalty}) \quad (4)$$

where, *Topic_Value* represents the state's coverage of each topic based on topic distribution, *Topic_Weight* indicates each topic's importance from the final analysis scores, and *FAQ_Normalization* and *FAQ_Penalty* are defined in Eqs. (5) and (6).

$$\text{FAQ\_Normalization} = \frac{\text{state\_faq\_count}}{\text{max\_faq\_count}} \quad (5)$$

$$\text{FAQ\_Penalty} = \min\left(1.0, \frac{\text{faq\_count}}{20}\right) \quad (6)$$

Table 18 presents the distribution of final topic scores across the eight identified topics. The topic analysis for the question, answer, and combined question and answer is provided in Table 13, Table 15, and Table 17, respectively. Please refer to Appendix E for more details.

The analysis revealed significant variations in state performance. Michigan emerged as the leading state with a score of 0.572, supported by a comprehensive collection of 123 FAQs and strong coverage across all topics, particularly in Administrative & Filing (0.271) and Voter Registration (0.141). Florida followed with a score of 0.413 and 111 FAQs, demonstrating well-balanced coverage across topics. Nevada (0.389), Oklahoma (0.388), and North Carolina (0.344) completed the top five, each maintaining robust FAQ counts above 75 and showing strong performance in key topics like Voter Registration and Administrative procedures. Conversely, the analysis identified states with significant room for improvement. Mississippi ranked lowest with a score of 0.002, primarily due to having the least FAQs, resulting in minimal coverage across all topics. Similar patterns emerged for South Dakota (0.013), Wisconsin (0.015), Nebraska (0.019), and Montana (0.029), all characterized by FAQ counts below 12 and consequently limited topic coverage.

4.4 Sentiment Analysis

To identify the leaders and laggards in sentiment analysis across U.S. states, we analyzed the average compound sentiment scores obtained from VADER. The compound score was used as the primary metric to assess the sentiment polarity and intensity associated with election-related FAQs. States with the highest average compound scores were identified as leaders, while those with the lowest average compound scores were categorized as laggards.

Leaders: These states exhibited a higher proportion of positive sentiment, emphasizing optimistic and clear communication in their FAQs.

Top 3 Leaders: were Nebraska (0.380), Texas (0.372) and Arizona (0.327); average score in ().

Laggards: These states displayed a higher proportion of negative sentiment, potentially due to the phrasing of FAQs, lack of clarity, or underlying concerns in the election-related context.

Top 3 Laggards: were South Dakota (-0.053), Alaska (-0.068) and Wisconsin (-0.097); noting average score in ().

The detailed results for **Question** (Table 19) **Answer** (Table 20) **Question + Answer** (Table 21) are given in Appendix F.

4.5 Analyzing Questions for State Specificity

Ensuring accessibility and informed decision-making requires election information provided by US state authorities and non-profit organizations to maintain a balance between generic and specific questions. Generic questions facilitate accessibility for voters with limited prior knowledge, such as first-time voters, by addressing fundamental aspects of the voting process. In contrast, specific questions localize information to the unique procedures and requirements of each state, enabling more precise voter guidance. This study conducted a specificity analysis on the questions from QA pairs across all 50 states to assess the balance between generic and specific content. A key aim was to identify commonalities in language across the questions posed by different states. If a state's questions were similar to those of other states, they were classified as generic. For instance, a typical question such as "Who can register to vote?" is found in some form in many states' QA datasets, making it generic. On the other hand, state-specific questions feature distinctive language relevant to that jurisdiction, such as "How do I obtain a document to prove I'm registered to vote in Hawaii?"

Our methodology involved several steps. First, we extracted the set of questions from each state's dataset and processed them by removing stop words using the Natural Language Toolkit (NLTK) library to isolate key terms and focus on substantive content. We then generated sentence embeddings for each question using the Sentence Transformer model, providing a numerical representation of the semantic content of the questions. To account for variations in the number of questions across states, we normalized the embeddings, ensuring fair comparisons. Finally, we measured the similarity between questions using pairwise cosine similarity. A similarity threshold of 0.8 was used to classify questions as generic, while pairs with a similarity score of 1.0 were excluded to account for potential duplicate questions within states. Fig. 3 in the Appendix illustrates our findings, plotting the number of generic versus specific questions for each state. This visualization highlights trends in how states balance these two types of content, offering insights into the consistency and localization of voter information across the United States.

4.6 Prompt Analysis

Since Large Language Models (LLMs) are being used in NLP tasks extensively, we also wanted to analyze how the FAQ content is amenable to LLM-based processing. In this study, we finetune a pretrained LLM specifically Llama-3.1-8B (Dubey et al., 2024) on the election dataset. The overall fine-tuning process involves the following steps:

1. Dataset Preparation The initial dataset for each state consists of question-answer pairs with metadata (source, timestamp, and state). For fine-tuning, the dataset is loaded via the Datasets library (Lhoest et al., 2021), converted into a conversational format, and augmented with schema details in the system message. This enables fine-tuning with additional context. See Fig. 5 for the template.

2. Model Fine-tuning We fine-tuned the Meta LLaMA-3.1-8B model using the SFTTrainer from trl (Transformer Reinforcement Learning) (von Werra et al., 2020), integrated with PEFT for efficient LLM tuning via QLoRA. The training used LoRA configurations with a learning rate of 2e-4, 3% warmup, and a constant scheduler. The dataset was split 80% for training, 10% for validation, and 10% for testing. Optimization employed AdamW with weight decay, adaptive learning rates, and cross-entropy loss for causal modeling. The model was trained for 10 epochs with a batch size of 4, 2

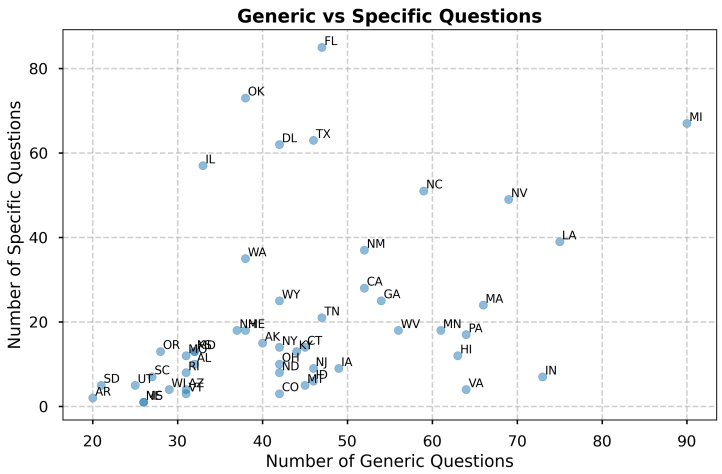

Figure 3: Scatter Plot of Generic vs Specific Questions Across States. This scatter plot illustrates the distribution of generic and specific questions across the QA datasets of all 50 US states. Generic questions, which address fundamental aspects of the voting process, are plotted against specific questions, which localize information to state-specific procedures and requirements. The plot highlights the balance maintained by each state in providing voter information, with clusters indicating common trends and outliers suggesting unique patterns of question specificity.

gradient accumulation steps, and memory optimization via gradient checkpointing, 4-bit quantization, NF4, and bfloat16. Gradient clipping was applied with a max norm of 0.3, and LoRA had an alpha of 128, dropout of 0.05, and rank 256. Training took 11 hours on a Tesla V100-PCIE-32GB.

3. Evaluation The fine-tuned model is assessed on downstream tasks such as Readability, Summarization, Topic Modeling, and Sentiment Analysis, and evaluated by generating answers to training questions. Performance is measured using the same metrics as for the original question-answer pairs. We do not conduct experiments for questions, as the LLM solely generates responses without altering the input questions. Consequently, the outcomes remain consistent with previous results. The results are systematically presented in the formats of **Answer** and **Question + Answer**. Following this structure, readability results are detailed in (Table 22) and (Table 23). Similarly, both *Abstractive* and *Extractive* summarization outcomes are organized in tables Table 26 and Table 27 for the answer, and Table 28 and Table 29 for the combined question and answer. Furthermore, topic analysis findings are provided in Table 30 and Table 32. Lastly, sentiment analysis results are also presented in Table 34 and Table 35 (Appendix G).

5 Guidelines for improving the ecosystem

We note that Figure 2 gave a composite view of the leading and lagging US states in content quality, of which an illustration was shown in Figure 1. Digging deeper, we found that leaders do a few things differently (and correctly), which others should follow. They are that leaders have more questions and answers (Table 3) with content that cover more topics (Table 16), that are readable (Tables 4,5,6), and exhibit neutral sentiments (Figures 9,10).

Based on these analyses, we provide the following guidelines for all states to improve their voter FAQ content. They are that states should (1) provide a reasonably large number of questions (typically ≥ 50) covering a broad set of topics ($\geq$ five) in simple language, (2) provide precise and specific answers that are not too terse, (3) reduce overlap across questions by reducing overlap of topics, and (4) keep sentiment of content neutral.

6 Conclusion and Future Work

This paper makes many contributions, starting by addressing the challenges faced by voters in finding answers to their election-related questions by providing the **first dataset on Voter FAQs covering all the US states**. Second, we introduce metrics for FAQ information quality score (FIQS) with respect to questions, answers, and answers to corresponding questions. Third, we use FIQS to analyze US FAQs to identify leading, mainstream, and lagging content practices and corresponding states. Finally, we identify what states across the spectrum can do to improve FAQ quality and, thus, the overall information ecosystem.

We provide verified, curated voter information to counteract widespread misinformation. This work, although promising, is just the first step. In future, one can work to remove the limitations and also build decision-support tools using the data to make effective tools available to voters. One can also separate the analysis by SECs, the primary, official data providers, and by secondary sources, e.g., non-profits like LWV, to understand how they complement each other.

7 Limitations

Our work has a few limitations. We have used open data of the 50 states as-is and relied on the unique position of SECs to provide authentic information about those states. Further, we have only used data from one non-profit, LWV, but it covers all the US states. The limitations can be easily overcome on number of sources can be overcome by adding more providers seamlessly. We have used state-of-the-art NLP methods as implemented in off-the-shelf tools; however, nothing precludes us from using new methods in the future.

8 Ethical Considerations

We declare that all authors of this paper acknowledge the *ACM Code of Ethics* and honor the code of conduct. This work collates and evaluates **open data** related to voters from SECs and the non-profit LWV. By definition and spirit of open data, the data providers intended to make their data reusable and consumable, and we process it by acknowledging full credits to providers. Our findings on content are intended to help stakeholders understand best practices and help improve the overall voter information ecosystem. We believe our work will help the NLP community leverage its state-of-the-art methods to positively improve governance, an important aspect of society.

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A Appendix

This section provides supplementary material in the form of additional examples, implementation details, etc. to bolster the reader's understanding of the concepts presented in this work.

B Dataset

Statistical analysis can reveal patterns, trends, and relationships within the data, providing insights into its underlying structure and significance with respect to our dataset. The results of our statistical analysis can be found in the (Table 3).

C Readability

Conducting readability assessments is important to ensure that the content within our dataset is clear, accessible, and effectively understood by the target audience. The readability scores for the question, answer, and the combined question and answer are provided in Table 4, Table 5, and Table 6, respectively.

D Summarization

The summarization ratio was dynamically calculated based on the token count of the original answers to maintain consistency between varying answer lengths. The code below illustrates how this value is computed:

```
if answer_token_count < 200:
    reduction_ratio = 0.5
elif answer_token_count < 300:
    reduction_ratio = 0.4
else:
    reduction_ratio = 0.3
```

The values 0.5, 0.4, and 0.3 correspond to reduction ratios of 50%, 40%, and 30%, respectively. Specifically, if the answer is relatively short, with fewer than 200 tokens, the reduction ratio is set to 0.5, reflecting a moderate reduction. For answers of greater length, but fewer than 300 tokens, the reduction ratio is slightly reduced to 0.4. Finally, for answers comprising 300 tokens or more, the reduction ratio is further decreased to 0.3, signifying a smaller reduction for longer responses.

The summarization analysis for the question is provided for both the *Abstractive* (Table 7) and *Extractive* (Table 8) methods, while the analysis for the answer is presented for the *Abstractive* (Table 9) and *Extractive* (Table 10) approaches. Furthermore,

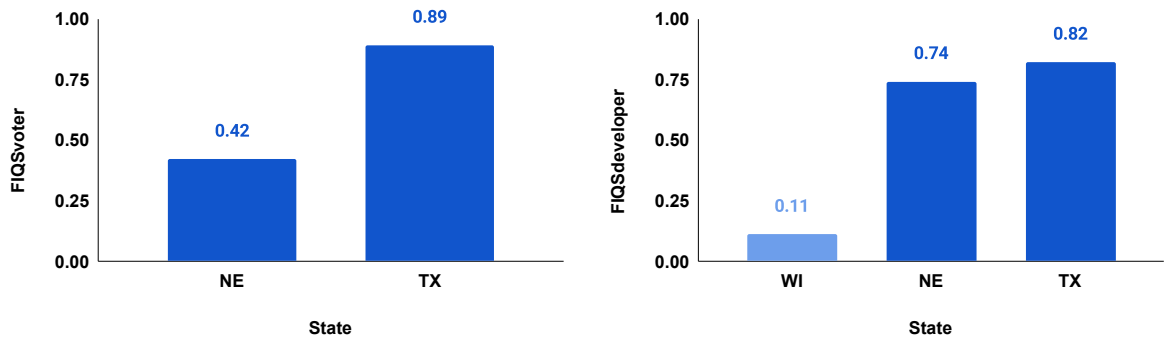

Figure 4: US states leading and lagging in voter FAQ content quality, as assessed using cut-off of two standard deviation from mean on the metric (i.e., $\geq (\mu \pm 2\sigma)$; $\leq (\mu \pm 2\sigma)$).

the summarization analysis for the combined question and answer is displayed for both the *Abstractive* (Table 11) and *Extractive* (Table 12) techniques. Semantic Overlap is defined as a weighted average of cosine similarity and ROUGE-1 scores. While Abstractive summarization yields better results, it has the limitation of lacking provenance.

E Topic Analysis

Topic analysis is crucial as it facilitates the identification and understanding of key themes and subject matter within our dataset, thereby enhancing content organization, relevance, and the ability to draw meaningful insights. The results of our topic analysis for the question, answer, and combined question and answer are provided in Table 13, Table 15, and Table 17, respectively.

F Sentiment Analysis

Visualization: To provide a clear understanding of the sentiment distribution across U.S. states, we visualized the data using a stacked bar chart sorted alphabetically by state names (Fig.2). Each bar represents the percentage distribution of positive, neutral, and negative sentiments for the election-related FAQs in that state. The comprehensive results for sentiment analysis are provided for questions (Table 19), answers (Table 20), and Question + Answer pairs (Table 21).

G Prompt Analysis

LLama3.1 Large language model (LLMs) are a special class of pre-trained language model (PLMs). LLMs exhibit special capabilities due to their enormous size and pre-training on large amounts of text data, allowing them to achieve excellent performance in many natural language processing tasks without any task-specific training. Fine-tuning these LLMs involves adapting the pre-trained model to specific tasks. Specifically, the LLM is partially retrained using domain specific data. Llama 3.1 is an auto-regressive language model that uses an optimized transformer architecture. The model was pretrained on 15 trillion tokens of data from publicly available sources.

Model Fine-tuning The SFTTrainer makes it easy to supervise fine-tune LLMs. The SFTTrainer is a subclass of the Trainer from the transformers library. It provides features such as Dataset formatting, including conversational and instruction format and PEFT (parameter-efficient fine-tuning) support including Q-LoRA. We use QLoRA to reduce the memory footprint of the large language models during finetuning, without sacrificing performance by using 4-bit quantization.

Sentiment Analysis

The sentiment of the predicted answers are compared to the sentiment of the original answer. Similar to the previous approach, VADER is used to label the sentiment of the original answer and the predicted answer. From the Table it can be seen that the output of the model is mostly aligned with the actual answers in terms of sentiment.

The results are systematically organized according to **Answer** and **Question + Answer**. In this structure, the readability outcomes are detailed in Table 22 and Table 23. Similarly, the results of both *Abstractive* and *Extractive* summarization are presented in Table 26 and Table 27 for the answer, and in Table 28 and Table 29 for the combined question and answer. Furthermore, the findings from the topic analysis are provided in Table 30

and Table 32, while the sentiment analysis results are discussed in Table 34 and Table 35.

```
{
  "messages":
  [
    {"role": "system", "content": "You are an agent specialized in answering all questions related to the 2024 elections for
          various states in the United States. Users will ask you questions in English, and you will generate accurate and
         concise answers based on the specific state mentioned. State: Minnesota. Source: https://sos.state.mn.us/elections-
         voting/register-to-vote/common-registration-questions/#typo. Data Collection Timestamp: 2024-11-23 19:00:00"},
    {"role": "user", "content": "How do I fix a typo in my registration?"},
    {"role": "assistant", "content": "Contact your county election office."}
  ]
}
```

Figure 5: Question Template Example

States	Official QA Pairs	Non-Profit QA Pairs	Question Average	Question Longest	Question Shortest	Answer Average	Answer Longest	Answer Shortest
Alabama	20	22	49.881	95	14	400.881	3579	25
Alaska	32	23	45.982	307	17	441.564	2771	30
Arizona	13	22	60.429	95	20	533.857	1702	30
Arkansas	4	18	36.364	57	20	358.727	960	28
California	57	23	60.025	178	10	508.899	3650	3
Colorado	22	23	41.044	105	17	579.178	2556	35
Connecticut	37	22	38.390	115	11	472.220	2023	44
Delaware	82	22	63.644	268	16	376.356	3470	2
Florida	110	22	54.705	196	14	390.008	3416	13
Georgia	50	29	43.051	135	12	247.101	2168	37
Hawaii	52	23	31.453	61	10	408.600	1942	28
Idaho	37	15	35.000	65	17	279.269	1227	22
Illinois	0	103	148.039	613	4	13.155	19	12
Indiana	58	22	40.288	86	10	413.712	2677	20
Iowa	36	22	47.448	96	18	395.052	2558	22
Kansas	24	21	50.044	194	26	441.644	2088	30
Kentucky	34	23	48.579	86	19	457.684	3723	42
Louisiana	93	21	35.404	72	12	789.842	5757	40
Maine	33	23	41.161	131	16	368.696	2374	62
Maryland	23	22	34.956	66	10	425.733	1547	35
Massachusetts	68	22	29.300	56	11	456.411	2521	4
Michigan	135	22	50.255	131	20	529.994	9549	44
Minnesota	23	22	34.956	66	10	425.733	1547	35
Mississippi	5	22	59.667	86	12	435.963	2966	23
Missouri	24	19	45.744	154	12	486.930	2145	0
Montana	13	37	39.260	90	20	271.520	1029	35
Nebraska	10	17	36.222	55	12	481.148	1629	68
Nevada	79	39	45.593	120	13	304.720	2092	3
New Hampshire	34	21	42.909	106	17	451.945	2021	2
New Jersey	33	22	57.109	171	20	379.200	2337	22
New Mexico	66	23	56.250	126	18	354.648	3107	22
New York	20	36	43.804	110	25	415.482	1885	33
North Carolina	88	22	53.782	139	17	463.464	3841	3
North Dakota	28	22	30.980	61	10	534.080	3760	37
Ohio	30	22	49.942	86	17	430.692	3759	26
Oklahoma	89	22	62.252	144	12	322.045	2612	23
Oregon	19	22	41.537	83	15	439.585	1801	25
Pennsylvania	58	23	51.716	142	10	299.716	2315	8
Rhode Island	17	22	34.308	89	17	492.513	2309	44
South Carolina	23	11	55.824	115	18	395.235	1460	21
South Dakota	8	18	44.269	98	17	412.731	1484	25
Tennessee	50	18	43.029	115	12	309.132	1581	37
Texas	69	40	62.844	213	16	604.101	5777	28
Utah	13	17	42.633	78	10	319.867	1132	25
Vermont	13	21	37.059	92	16	354.059	1860	35
Virginia	19	49	38.162	78	20	381.676	1715	22
Washington	51	22	33.329	79	13	421.507	1694	44
West Virginia	52	22	51.284	98	19	318.041	2767	35
Wisconsin	4	29	39.970	93	20	496.424	3021	24
Wyoming	49	18	44.403	1222	12	336.448	1628	41

Table 3: This table presents a detailed analysis of question-answer (QA) pairs for each U.S. state. It includes the number of QA pairs sourced from the official state voting websites (Official QA Pairs) and from non-profit voting websites (Non-Profit QA Pairs). Additionally, it provides the average question length in alphanumeric characters (Question Average), the length of the longest question (Question Longest), and the length of the shortest question (Question Shortest). Similarly, for answers, it lists the average length (Answer Average), the length of the longest answer (Answer Longest), and the length of the shortest answer (Answer Shortest).

States	FKG	GFI	SI	ARI	CLI
Alabama	5.748	8.414	0.338	5.502	7.393
Alaska	6.473	9.359	0.427	5.889	7.512
Arizona	7.483	10.238	0.000	7.229	8.677
Arkansas	5.450	8.174	0.000	4.964	7.084
California	8.104	11.087	0.000	8.194	9.833
Colorado	5.122	7.363	0.000	4.820	6.438
Connecticut	4.905	8.075	0.000	3.481	4.851
Delaware	6.552	9.079	0.275	6.403	7.032
Florida	7.414	10.459	0.073	6.408	7.845
Georgia	5.418	8.029	0.000	4.247	5.324
Hawaii	5.308	7.411	0.000	4.608	6.250
Idaho	5.129	7.644	0.000	3.765	5.277
Illinois	9.744	11.47	2.148	11.733	11.551
Indiana	5.182	7.592	0.000	4.322	5.299
Iowa	6.862	9.777	0.000	6.409	8.183
Kansas	5.916	7.555	0.233	5.427	7.034
Kentucky	6.540	9.213	0.000	5.858	7.461
Louisiana	8.283	11.113	0.000	8.438	10.406
Maine	5.768	8.913	0.000	5.496	7.094
Maryland	3.802	5.474	0.000	3.511	4.964
Massachusetts	5.338	8.121	0.000	4.508	6.049
Michigan	6.423	8.538	0.000	5.983	7.515
Minnesota	3.802	5.474	0.000	3.511	4.964
Mississippi	7.615	10.446	0.000	7.700	9.052
Missouri	4.960	7.813	0.000	4.067	4.885
Montana	5.986	8.866	0.000	5.326	7.315
Nebraska	4.741	7.224	0.000	4.848	6.764
Nevada	5.576	7.793	0.000	5.160	6.406
New Hampshire	6.189	9.227	0.000	5.376	6.685
New Jersey	6.822	8.797	0.000	6.627	7.642
New Mexico	6.895	9.863	0.000	6.157	7.344
New York	5.820	7.807	0.000	5.773	7.534
North Carolina	6.869	9.183	0.000	6.267	7.365
North Dakota	4.680	7.240	0.000	3.242	4.685
Ohio	4.942	7.786	0.000	4.196	5.374
Oklahoma	6.894	9.219	0.070	6.305	7.346
Oregon	5.927	8.197	0.000	6.622	8.643
Pennsylvania	5.733	8.645	0.000	5.183	5.872
Rhode Island	5.462	7.810	0.000	5.569	7.465
South Carolina	5.638	8.535	0.000	5.750	7.203
South Dakota	6.585	8.692	0.000	6.773	8.926
Tennessee	5.537	7.930	0.000	4.881	6.158
Texas	6.447	8.769	0.439	5.877	6.284
Utah	5.903	8.903	0.000	5.720	7.288
Vermont	4.859	7.546	0.000	4.247	5.792
Virginia	5.334	8.136	0.000	4.590	6.377
Washington	5.619	8.142	0.000	5.038	6.449
West Virginia	7.146	9.921	0.000	6.285	8.053
Wisconsin	5.530	8.279	0.000	4.727	6.606
Wyoming	5.206	8.497	0.000	4.339	5.738

Table 4: The readability analysis scores for the questions from each state.

States	FKG	GFI	SI	ARI	CLI
Alabama	9.936	11.281	7.405	11.536	10.741
Alaska	10.455	11.690	6.951	12.065	11.106
Arizona	9.983	11.026	8.329	11.671	10.981
Arkansas	12.773	14.875	6.005	14.568	10.065
California	12.281	13.158	8.515	14.247	12.010
Colorado	10.569	11.411	8.162	12.678	11.819
Connecticut	10.842	12.504	8.441	12.520	10.681
Delaware	10.800	12.087	6.653	12.459	9.584
Florida	12.135	13.208	6.439	14.133	12.210
Georgia	9.409	10.872	4.897	10.318	9.776
Hawaii	11.125	11.955	7.048	12.759	12.170
Idaho	10.129	11.676	5.063	11.129	10.707
Illinois	3.032	0.932	0.000	12.919	11.489
Indiana	10.266	11.190	6.763	11.735	10.881
Iowa	10.195	11.650	6.874	11.547	11.026
Kansas	10.444	11.515	6.251	12.156	11.382
Kentucky	12.154	13.008	5.893	14.225	11.424
Louisiana	16.481	17.904	9.447	19.461	11.483
Maine	10.916	12.616	7.971	12.586	11.203
Maryland	9.358	10.385	7.444	10.902	10.733
Massachusetts	9.431	10.335	8.794	10.814	10.108
Michigan	11.796	12.403	9.476	13.906	13.227
Minnesota	9.358	10.385	7.444	10.902	10.733
Mississippi	9.678	11.089	7.619	11.663	10.867
Missouri	9.914	11.662	8.037	11.681	10.172
Montana	11.582	12.615	5.250	13.570	13.504
Nebraska	11.119	12.359	7.981	13.056	10.497
Nevada	10.130	11.895	5.809	11.858	10.073
New Hampshire	10.964	12.604	8.473	12.569	9.546
New Jersey	10.422	11.403	6.064	11.956	10.133
New Mexico	11.635	12.898	6.940	13.256	11.333
New York	11.714	12.853	6.977	13.902	11.613
North Carolina	10.556	11.425	7.918	12.039	10.937
North Dakota	9.476	10.662	9.190	11.004	10.829
Ohio	11.033	12.310	6.200	13.583	10.691
Oklahoma	10.557	11.998	6.481	11.943	11.315
Oregon	9.500	10.476	7.946	11.166	11.638
Pennsylvania	8.695	10.256	4.614	10.349	10.244
Rhode Island	11.554	12.986	8.795	13.362	11.323
South Carolina	11.559	11.189	7.918	15.003	14.464
South Dakota	10.715	11.852	6.977	12.219	10.151
Tennessee	11.460	12.674	5.193	13.406	11.010
Texas	13.522	14.624	8.918	15.627	11.114
Utah	9.877	11.651	7.633	10.907	9.292
Vermont	9.618	11.479	5.029	11.332	9.802
Virginia	10.329	11.463	9.138	11.868	11.245
Washington	9.723	10.837	9.068	10.947	10.965
West Virginia	10.823	12.254	5.922	12.230	11.183
Wisconsin	11.627	13.602	8.433	12.988	9.999
Wyoming	11.203	12.683	8.127	12.946	11.018

Table 5: The readability analysis score for the answers from each state.

States	FKG	GFI	SI	ARI	CLI
Alabama	8.819	9.707	9.264	9.767	9.927
Alaska	9.424	10.345	9.260	10.453	10.568
Arizona	9.569	10.203	9.966	10.809	10.633
Arkansas	10.127	11.910	9.105	11.227	9.559
California	11.256	11.699	11.303	12.725	11.978
Colorado	9.487	9.964	9.749	11.096	10.972
Connecticut	9.349	10.600	10.837	10.297	9.866
Delaware	9.483	10.674	8.903	10.688	9.954
Florida	10.706	11.494	9.901	11.733	11.266
Georgia	8.162	9.449	8.080	8.552	8.885
Hawaii	9.645	10.234	9.071	10.683	11.269
Idaho	8.492	9.401	8.088	8.723	9.444
Illinois	9.717	10.964	2.875	12.744	13.251
Indiana	9.155	10.048	8.963	10.190	9.972
Iowa	9.279	10.184	9.514	10.169	10.292
Kansas	9.176	9.809	9.864	10.331	10.408
Kentucky	10.744	11.454	8.791	12.186	10.395
Louisiana	13.746	14.710	11.872	15.895	11.402
Maine	9.427	10.862	9.707	10.561	10.460
Maryland	8.273	8.900	9.036	9.313	9.910
Massachusetts	8.633	9.426	9.871	9.656	10.117
Michigan	10.452	10.926	10.532	12.038	12.184
Minnesota	8.273	8.900	9.036	9.313	9.910
Mississippi	9.181	10.273	8.641	10.644	10.453
Missouri	9.014	10.394	9.793	9.842	9.407
Montana	9.774	10.341	7.770	11.026	11.881
Nebraska	9.441	10.562	9.937	10.956	10.086
Nevada	8.908	10.261	8.447	10.027	9.586
New Hampshire	9.971	11.163	10.322	11.087	9.900
New Jersey	9.402	10.032	8.395	10.435	9.667
New Mexico	10.167	11.169	9.891	11.051	10.447
New York	10.191	10.834	9.468	11.741	10.968
North Carolina	9.738	10.272	10.030	10.738	10.598
North Dakota	8.626	9.547	10.188	9.576	10.019
Ohio	8.879	10.229	9.183	10.252	9.121
Oklahoma	9.330	10.240	9.196	10.158	10.388
Oregon	8.651	9.309	9.480	10.139	11.218
Pennsylvania	7.836	9.267	7.651	8.833	9.140
Rhode Island	10.026	11.199	10.228	11.526	10.806
South Carolina	9.912	9.853	9.694	12.174	12.291
South Dakota	9.612	10.239	9.715	10.588	10.120
Tennessee	9.587	10.643	8.663	10.721	10.133
Texas	11.643	12.499	10.701	13.084	10.359
Utah	8.687	10.361	8.917	9.347	8.978
Vermont	8.009	9.652	8.191	9.259	9.014
Virginia	9.206	10.153	9.626	10.318	10.502
Washington	8.942	9.641	9.897	9.726	10.465
West Virginia	9.412	10.318	8.164	10.153	10.398
Wisconsin	9.924	11.392	9.697	10.706	9.482
Wyoming	9.555	10.828	10.218	10.606	10.150

Table 6: The readability analysis score for each state's question and answer pairs.

Table 7: Abstractive Question Summarization Analysis

State	Cosine Similarity	ROUGE-1	ROUGE-2	ROUGE-L	ROUGE-W	ROUGE-S	ROUGE-SU	BLEU Score
AK	0.13	0.14	0.03	0.10	0.06	0.01	0.02	0.01
AL	0.22	0.22	0.09	0.17	0.12	0.02	0.05	0.02
AR	0.20	0.18	0.06	0.15	0.12	0.02	0.04	0.01
AZ	0.18	0.21	0.06	0.16	0.12	0.02	0.05	0.01
CA	0.19	0.19	0.07	0.14	0.11	0.03	0.05	0.02
CO	0.17	0.16	0.05	0.12	0.08	0.01	0.03	0.01
CT	0.13	0.14	0.04	0.11	0.08	0.01	0.03	0.01
DL	0.23	0.22	0.07	0.16	0.13	0.03	0.06	0.02
FL	0.16	0.17	0.05	0.14	0.10	0.02	0.04	0.01
GA	0.17	0.18	0.05	0.14	0.10	0.02	0.04	0.01
HI	0.12	0.12	0.03	0.10	0.05	0.00	0.02	0.01
IA	0.18	0.17	0.06	0.14	0.12	0.02	0.04	0.02
ID	0.16	0.15	0.04	0.12	0.10	0.01	0.03	0.01
IL	0.16	0.18	0.04	0.14	0.10	0.01	0.04	0.01
IN	0.20	0.18	0.08	0.15	0.11	0.02	0.04	0.02
KS	0.19	0.19	0.08	0.15	0.11	0.03	0.05	0.02
KY	0.18	0.18	0.05	0.12	0.11	0.02	0.04	0.01
LA	0.16	0.15	0.04	0.12	0.08	0.01	0.03	0.01
MA	0.13	0.11	0.03	0.10	0.05	0.01	0.02	0.00
MD	0.13	0.13	0.03	0.10	0.07	0.01	0.03	0.01
ME	0.21	0.19	0.06	0.15	0.11	0.02	0.04	0.01
MI	0.19	0.20	0.07	0.15	0.13	0.03	0.06	0.02
MN	0.16	0.14	0.04	0.12	0.08	0.01	0.03	0.01
MO	0.15	0.14	0.04	0.12	0.09	0.01	0.03	0.01
MS	0.17	0.19	0.05	0.14	0.12	0.02	0.05	0.01
MT	0.14	0.15	0.04	0.12	0.07	0.00	0.02	0.01
NC	0.18	0.20	0.06	0.16	0.12	0.03	0.05	0.02
ND	0.15	0.15	0.05	0.12	0.08	0.01	0.03	0.01
NE	0.13	0.13	0.05	0.11	0.07	0.01	0.02	0.01
NH	0.18	0.18	0.07	0.14	0.09	0.02	0.04	0.02
NJ	0.19	0.20	0.06	0.15	0.11	0.02	0.04	0.01
NM	0.17	0.19	0.06	0.14	0.10	0.02	0.05	0.01
NV	0.16	0.19	0.07	0.14	0.09	0.02	0.04	0.01
NY	0.21	0.19	0.06	0.15	0.10	0.02	0.04	0.01
OH	0.18	0.18	0.04	0.13	0.10	0.02	0.04	0.01
OK	0.18	0.21	0.06	0.16	0.12	0.03	0.05	0.02
OR	0.14	0.14	0.05	0.12	0.07	0.01	0.02	0.01
PA	0.19	0.21	0.06	0.16	0.11	0.02	0.05	0.02
RI	0.12	0.11	0.02	0.09	0.07	0.01	0.02	0.01
SC	0.17	0.18	0.05	0.14	0.11	0.01	0.04	0.01
SD	0.21	0.18	0.07	0.15	0.13	0.02	0.05	0.01
TN	0.18	0.19	0.07	0.15	0.11	0.02	0.04	0.01
TX	0.18	0.20	0.08	0.15	0.10	0.03	0.05	0.03
UT	0.19	0.18	0.04	0.14	0.12	0.01	0.04	0.01
VA	0.16	0.17	0.07	0.14	0.06	0.01	0.02	0.01
VT	0.15	0.15	0.02	0.11	0.08	0.01	0.03	0.01
WA	0.13	0.12	0.04	0.10	0.07	0.01	0.02	0.01
WI	0.17	0.15	0.06	0.13	0.09	0.02	0.03	0.01
WV	0.17	0.20	0.07	0.16	0.13	0.03	0.05	0.02
WY	0.15	0.18	0.06	0.14	0.11	0.02	0.04	0.02

Table 8: Extractive Question Summary Analysis

State	Cosine Similarity	ROUGE-1	ROUGE-2	ROUGE-L	ROUGE-W	ROUGE-S	ROUGE-SU	BLEU Score
AK	0.031	0.057	0.005	0.053	0.021	0.001	0.005	0.002
AL	0.042	0.037	0.011	0.031	0.030	0.005	0.011	0.004
AR	0.032	0.042	0.000	0.031	0.030	0.000	0.007	0.003
AZ	0.060	0.077	0.023	0.057	0.040	0.003	0.014	0.005
CA	0.043	0.064	0.018	0.050	0.038	0.007	0.015	0.005
CO	0.063	0.069	0.019	0.053	0.035	0.003	0.011	0.003
CT	0.028	0.044	0.006	0.035	0.021	0.000	0.006	0.002
DL	0.054	0.065	0.011	0.049	0.036	0.005	0.013	0.005
FL	0.062	0.099	0.024	0.080	0.052	0.006	0.018	0.006
GA	0.010	0.013	0.001	0.011	0.009	0.000	0.002	0.001
HI	0.032	0.050	0.017	0.045	0.029	0.007	0.012	0.007
IA	0.044	0.054	0.015	0.047	0.041	0.003	0.013	0.005
ID	0.040	0.051	0.010	0.037	0.027	0.001	0.009	0.003
IL	0.037	0.052	0.009	0.042	0.034	0.005	0.013	0.004
IN	0.042	0.050	0.013	0.043	0.023	0.002	0.007	0.003
KS	0.055	0.078	0.024	0.057	0.046	0.007	0.019	0.005
KY	0.063	0.085	0.025	0.063	0.054	0.010	0.020	0.008
LA	0.052	0.054	0.015	0.044	0.026	0.003	0.009	0.003
MA	0.023	0.041	0.007	0.037	0.021	0.000	0.005	0.003
MD	0.044	0.060	0.019	0.046	0.024	0.000	0.007	0.003
ME	0.017	0.020	0.007	0.020	0.012	0.001	0.003	0.001
MI	0.059	0.066	0.023	0.054	0.042	0.006	0.016	0.005
MN	0.027	0.036	0.014	0.034	0.023	0.009	0.012	0.009
MO	0.017	0.046	0.000	0.032	0.020	0.000	0.005	0.002
MS	0.029	0.037	0.002	0.021	0.019	0.000	0.006	0.003
MT	0.051	0.048	0.006	0.033	0.030	0.003	0.011	0.002
NC	0.045	0.053	0.013	0.043	0.033	0.006	0.013	0.004
ND	0.044	0.048	0.015	0.039	0.026	0.004	0.009	0.005
NE	0.034	0.043	0.015	0.042	0.030	0.002	0.008	0.003
NH	0.060	0.089	0.032	0.061	0.033	0.008	0.017	0.007
NJ	0.049	0.080	0.013	0.055	0.036	0.003	0.012	0.005
NM	0.020	0.025	0.006	0.020	0.017	0.003	0.007	0.003
NV	0.031	0.041	0.014	0.028	0.015	0.001	0.005	0.002
NY	0.033	0.035	0.002	0.027	0.019	0.001	0.005	0.001
OH	0.034	0.037	0.012	0.028	0.028	0.005	0.011	0.004
OK	0.016	0.032	0.004	0.026	0.018	0.002	0.006	0.003
OR	0.026	0.040	0.009	0.030	0.018	0.001	0.005	0.002
PA	0.049	0.071	0.014	0.059	0.046	0.005	0.016	0.005
RI	0.026	0.045	0.004	0.041	0.019	0.000	0.004	0.002
SC	0.030	0.044	0.006	0.034	0.027	0.001	0.008	0.004
SD	0.030	0.043	0.018	0.039	0.031	0.005	0.012	0.006
TN	0.017	0.019	0.004	0.015	0.011	0.001	0.003	0.001
TX	0.039	0.047	0.012	0.038	0.017	0.003	0.007	0.002
UT	0.016	0.038	0.007	0.038	0.019	0.000	0.004	0.002
VA	0.027	0.028	0.008	0.025	0.005	0.000	0.001	0.001
VT	0.043	0.068	0.015	0.054	0.036	0.002	0.011	0.005
WA	0.021	0.041	0.004	0.038	0.019	0.001	0.005	0.002
WI	0.036	0.052	0.017	0.040	0.030	0.001	0.007	0.003
WV	0.016	0.028	0.002	0.024	0.020	0.000	0.005	0.002
WY	0.016	0.032	0.010	0.022	0.016	0.001	0.006	0.003

Table 9: Abstractive Answer Summary Analysis

State	Cosine Similarity	ROUGE-1	ROUGE-2	ROUGE-L	ROUGE-W	ROUGE-S	ROUGE-SU	BLEU Score
AK	0.712	0.520	0.493	0.488	0.425	0.435	0.459	0.180
AL	0.717	0.515	0.486	0.481	0.413	0.422	0.446	0.173
AR	0.743	0.582	0.557	0.547	0.477	0.466	0.492	0.223
AZ	0.718	0.504	0.484	0.476	0.422	0.453	0.475	0.178
CA	0.733	0.550	0.526	0.528	0.458	0.464	0.488	0.203
CO	0.719	0.502	0.477	0.476	0.409	0.414	0.438	0.159
CT	0.732	0.561	0.539	0.541	0.481	0.486	0.505	0.222
DL	0.743	0.558	0.532	0.530	0.469	0.478	0.501	0.217
FL	0.752	0.537	0.512	0.512	0.454	0.490	0.512	0.199
GA	0.741	0.579	0.553	0.566	0.494	0.473	0.497	0.233
HI	0.716	0.547	0.518	0.532	0.465	0.449	0.473	0.207
IA	0.737	0.527	0.503	0.512	0.442	0.432	0.456	0.180
ID	0.698	0.507	0.487	0.495	0.427	0.418	0.440	0.155
IL	0.713	0.540	0.509	0.514	0.444	0.440	0.466	0.189
IN	0.711	0.523	0.500	0.515	0.442	0.431	0.453	0.183
KS	0.743	0.501	0.474	0.491	0.412	0.420	0.445	0.164
KY	0.714	0.505	0.484	0.490	0.424	0.425	0.448	0.158
LA	0.739	0.500	0.478	0.486	0.428	0.440	0.462	0.170
MA	0.748	0.556	0.529	0.538	0.466	0.458	0.484	0.205
MD	0.741	0.515	0.496	0.508	0.438	0.433	0.456	0.163
ME	0.771	0.573	0.552	0.554	0.487	0.491	0.513	0.230
MI	0.724	0.529	0.499	0.505	0.441	0.441	0.466	0.184
MN	0.733	0.552	0.527	0.521	0.450	0.449	0.474	0.205
MO	0.757	0.515	0.499	0.513	0.453	0.449	0.468	0.171
MS	0.720	0.539	0.512	0.523	0.459	0.448	0.471	0.207
MT	0.725	0.527	0.499	0.514	0.441	0.421	0.445	0.174
NC	0.712	0.517	0.494	0.493	0.434	0.434	0.458	0.188
ND	0.747	0.522	0.499	0.502	0.438	0.440	0.463	0.175
NE	0.717	0.511	0.492	0.491	0.429	0.432	0.456	0.164
NH	0.744	0.556	0.533	0.533	0.470	0.476	0.500	0.219
NJ	0.708	0.521	0.500	0.511	0.451	0.457	0.480	0.175
NM	0.722	0.569	0.544	0.555	0.495	0.485	0.509	0.238
NV	0.731	0.571	0.546	0.562	0.492	0.476	0.500	0.232
NY	0.716	0.545	0.512	0.506	0.432	0.432	0.455	0.188
OH	0.742	0.537	0.508	0.505	0.440	0.456	0.481	0.190
OK	0.745	0.579	0.550	0.556	0.489	0.484	0.509	0.229
OR	0.704	0.535	0.510	0.507	0.437	0.432	0.456	0.193
PA	0.728	0.514	0.489	0.476	0.413	0.427	0.450	0.171
RI	0.721	0.498	0.475	0.468	0.407	0.419	0.442	0.159
SC	0.746	0.588	0.564	0.556	0.515	0.514	0.539	0.289
SD	0.711	0.529	0.492	0.492	0.430	0.443	0.469	0.175
TN	0.722	0.548	0.526	0.546	0.479	0.459	0.482	0.207
TX	0.728	0.532	0.498	0.505	0.443	0.458	0.479	0.185
UT	0.763	0.571	0.543	0.528	0.460	0.463	0.488	0.224
VA	0.746	0.587	0.563	0.563	0.500	0.492	0.515	0.246
VT	0.742	0.520	0.498	0.517	0.452	0.438	0.461	0.173
WA	0.731	0.547	0.524	0.522	0.455	0.453	0.477	0.200
WI	0.681	0.507	0.484	0.459	0.394	0.419	0.441	0.169
WV	0.738	0.560	0.539	0.532	0.468	0.475	0.497	0.218
WY	0.726	0.582	0.556	0.554	0.485	0.477	0.504	0.235

Table 10: Extractive Answer Summary Analysis

State	Cosine Similarity	ROUGE-1	ROUGE-2	ROUGE-L	ROUGE-W	ROUGE-S	ROUGE-SU	BLEU Score
AK	0.167	0.068	0.065	0.068	0.058	0.065	0.072	0.000
AL	0.185	0.093	0.092	0.093	0.083	0.096	0.100	0.007
AR	0.125	0.058	0.056	0.058	0.052	0.059	0.063	0.007
AZ	0.258	0.135	0.132	0.135	0.118	0.137	0.145	0.012
CA	0.177	0.081	0.079	0.081	0.073	0.083	0.088	0.007
CO	0.273	0.126	0.123	0.126	0.112	0.127	0.134	0.015
CT	0.140	0.067	0.065	0.067	0.060	0.065	0.069	0.017
DL	0.173	0.074	0.072	0.074	0.063	0.075	0.080	0.003
FL	0.277	0.124	0.121	0.124	0.113	0.147	0.154	0.024
GA	0.112	0.077	0.077	0.077	0.074	0.079	0.080	0.045
HI	0.175	0.089	0.087	0.089	0.079	0.086	0.091	0.025
IA	0.200	0.092	0.090	0.092	0.084	0.092	0.097	0.022
ID	0.205	0.116	0.113	0.116	0.104	0.112	0.119	0.021
IL	0.192	0.103	0.101	0.103	0.094	0.105	0.109	0.036
IN	0.208	0.103	0.102	0.103	0.095	0.105	0.110	0.040
KS	0.200	0.093	0.090	0.093	0.081	0.113	0.121	0.003
KY	0.246	0.114	0.112	0.114	0.104	0.115	0.121	0.025
LA	0.306	0.190	0.188	0.190	0.179	0.197	0.202	0.090
MA	0.131	0.056	0.054	0.056	0.049	0.055	0.060	0.001
MD	0.240	0.134	0.131	0.134	0.120	0.134	0.141	0.019
ME	0.091	0.036	0.034	0.036	0.031	0.035	0.038	0.001
MI	0.244	0.159	0.157	0.159	0.145	0.159	0.166	0.047
MN	0.137	0.062	0.060	0.062	0.055	0.060	0.065	0.003
MO	0.217	0.106	0.103	0.106	0.094	0.106	0.113	0.004
MS	0.145	0.064	0.062	0.064	0.058	0.066	0.070	0.009
MT	0.241	0.179	0.177	0.179	0.168	0.176	0.181	0.095
NC	0.189	0.108	0.106	0.108	0.100	0.108	0.112	0.042
ND	0.199	0.091	0.088	0.091	0.080	0.094	0.100	0.002
NE	0.220	0.113	0.111	0.113	0.104	0.113	0.118	0.033
NH	0.197	0.114	0.111	0.114	0.102	0.110	0.116	0.033
NJ	0.218	0.110	0.106	0.110	0.097	0.111	0.118	0.007
NM	0.092	0.050	0.049	0.050	0.045	0.050	0.053	0.012
NV	0.110	0.054	0.052	0.054	0.047	0.053	0.056	0.004
NY	0.197	0.141	0.140	0.141	0.130	0.140	0.145	0.052
OH	0.188	0.123	0.122	0.123	0.115	0.121	0.125	0.067
OK	0.086	0.038	0.037	0.038	0.033	0.037	0.040	0.000
OR	0.162	0.081	0.080	0.081	0.073	0.082	0.087	0.008
PA	0.200	0.091	0.088	0.091	0.078	0.086	0.093	0.003
RI	0.124	0.063	0.060	0.063	0.056	0.063	0.069	0.000
SC	0.205	0.109	0.106	0.109	0.101	0.118	0.125	0.017
SD	0.123	0.034	0.033	0.034	0.029	0.035	0.038	0.000
TN	0.110	0.065	0.064	0.065	0.059	0.066	0.069	0.023
TX	0.237	0.142	0.139	0.142	0.130	0.144	0.150	0.051
UT	0.123	0.040	0.038	0.040	0.036	0.041	0.045	0.000
VA	0.118	0.076	0.075	0.076	0.071	0.076	0.079	0.030
VT	0.150	0.049	0.047	0.049	0.044	0.047	0.052	0.000
WA	0.144	0.055	0.053	0.055	0.048	0.053	0.057	0.002
WI	0.240	0.120	0.117	0.120	0.109	0.123	0.129	0.021
WV	0.103	0.042	0.040	0.042	0.036	0.041	0.045	0.000
WY	0.088	0.036	0.034	0.036	0.032	0.035	0.038	0.000

Table 11: Question + Answer Abstractive Summary Analysis

State	Cosine Similarity	ROUGE-1	ROUGE-2	ROUGE-L	ROUGE-W	ROUGE-S	ROUGE-SU	BLEU Score
AK	0.727	0.537	0.512	0.505	0.438	0.446	0.470	0.192
AL	0.743	0.536	0.508	0.521	0.457	0.455	0.477	0.189
AR	0.782	0.575	0.549	0.530	0.460	0.474	0.499	0.227
AZ	0.707	0.503	0.482	0.480	0.424	0.445	0.467	0.171
CA	0.741	0.533	0.506	0.519	0.444	0.433	0.459	0.181
CO	0.724	0.492	0.467	0.478	0.413	0.415	0.436	0.154
CT	0.721	0.544	0.518	0.526	0.464	0.461	0.481	0.202
DL	0.750	0.543	0.519	0.528	0.465	0.466	0.489	0.198
FL	0.755	0.548	0.524	0.538	0.484	0.504	0.525	0.215
GA	0.731	0.586	0.561	0.557	0.492	0.488	0.509	0.243
HI	0.727	0.539	0.514	0.523	0.459	0.448	0.470	0.204
IA	0.724	0.525	0.505	0.514	0.446	0.444	0.467	0.181
ID	0.676	0.512	0.492	0.489	0.422	0.428	0.450	0.165
IL	0.711	0.550	0.523	0.520	0.452	0.453	0.478	0.204
IN	0.702	0.519	0.496	0.511	0.445	0.434	0.456	0.178
KS	0.762	0.536	0.512	0.527	0.457	0.461	0.484	0.201
KY	0.731	0.501	0.474	0.486	0.423	0.420	0.444	0.154
LA	0.746	0.507	0.483	0.495	0.437	0.446	0.467	0.176
MA	0.739	0.552	0.526	0.529	0.459	0.453	0.479	0.204
MD	0.750	0.523	0.500	0.516	0.447	0.437	0.461	0.174
ME	0.765	0.573	0.550	0.563	0.496	0.496	0.516	0.228
MI	0.733	0.530	0.497	0.510	0.446	0.438	0.463	0.185
MN	0.731	0.545	0.514	0.521	0.447	0.435	0.461	0.190
MO	0.750	0.511	0.490	0.492	0.432	0.439	0.459	0.171
MS	0.741	0.524	0.503	0.509	0.443	0.441	0.464	0.186
MT	0.740	0.543	0.517	0.535	0.462	0.436	0.459	0.189
NC	0.733	0.529	0.506	0.512	0.452	0.446	0.469	0.196
ND	0.747	0.538	0.515	0.512	0.448	0.457	0.479	0.195
NE	0.730	0.531	0.506	0.517	0.453	0.443	0.467	0.189
NH	0.740	0.552	0.532	0.533	0.472	0.470	0.494	0.212
NJ	0.742	0.528	0.507	0.517	0.456	0.461	0.483	0.184
NM	0.725	0.562	0.540	0.545	0.486	0.485	0.507	0.223
NV	0.734	0.584	0.560	0.572	0.508	0.500	0.521	0.247
NY	0.729	0.546	0.520	0.531	0.458	0.449	0.471	0.195
OH	0.748	0.533	0.505	0.501	0.436	0.467	0.489	0.193
OK	0.747	0.563	0.539	0.531	0.470	0.480	0.502	0.217
OR	0.703	0.525	0.501	0.500	0.433	0.428	0.451	0.182
PA	0.738	0.537	0.514	0.513	0.448	0.453	0.476	0.192
RI	0.714	0.499	0.471	0.489	0.419	0.400	0.424	0.155
SC	0.740	0.583	0.558	0.555	0.521	0.530	0.552	0.293
SD	0.700	0.505	0.476	0.478	0.417	0.422	0.447	0.157
TN	0.739	0.561	0.530	0.535	0.465	0.459	0.483	0.211
TX	0.744	0.543	0.507	0.513	0.452	0.467	0.489	0.200
UT	0.732	0.540	0.512	0.531	0.461	0.449	0.473	0.188
VA	0.746	0.573	0.549	0.549	0.482	0.473	0.495	0.230
VT	0.740	0.529	0.510	0.527	0.459	0.446	0.469	0.183
WA	0.737	0.548	0.529	0.523	0.458	0.461	0.484	0.206
WI	0.719	0.536	0.506	0.500	0.430	0.429	0.454	0.200
WV	0.763	0.576	0.553	0.568	0.498	0.484	0.506	0.235
WY	0.739	0.572	0.547	0.553	0.484	0.470	0.495	0.225

Table 12: Question + Answer Extractive Summary Analysis

State	Cosine Similarity	ROUGE-1	ROUGE-2	ROUGE-L	ROUGE-W	ROUGE-S	ROUGE-SU	BLEU Score
AK	0.151	0.060	0.057	0.060	0.051	0.057	0.062	0.000
AL	0.151	0.077	0.076	0.077	0.069	0.079	0.083	0.005
AR	0.201	0.127	0.125	0.127	0.120	0.128	0.132	0.071
AZ	0.219	0.101	0.099	0.101	0.090	0.103	0.110	0.007
CA	0.203	0.101	0.098	0.101	0.091	0.102	0.109	0.012
CO	0.292	0.144	0.141	0.144	0.130	0.147	0.154	0.030
CT	0.123	0.056	0.055	0.056	0.050	0.055	0.058	0.012
DL	0.160	0.068	0.065	0.068	0.058	0.067	0.072	0.003
FL	0.183	0.073	0.070	0.073	0.065	0.085	0.090	0.007
GA	0.104	0.068	0.068	0.068	0.065	0.069	0.071	0.034
HI	0.188	0.093	0.091	0.093	0.082	0.089	0.094	0.022
IA	0.196	0.087	0.085	0.087	0.078	0.087	0.093	0.012
ID	0.162	0.090	0.088	0.090	0.080	0.087	0.092	0.015
IL	0.111	0.053	0.051	0.053	0.047	0.053	0.057	0.003
IN	0.157	0.081	0.079	0.081	0.074	0.082	0.085	0.031
KS	0.120	0.051	0.049	0.051	0.044	0.060	0.065	0.000
KY	0.220	0.106	0.104	0.106	0.096	0.106	0.112	0.020
LA	0.342	0.215	0.212	0.215	0.202	0.220	0.227	0.102
MA	0.114	0.047	0.045	0.047	0.041	0.046	0.050	0.001
MD	0.220	0.120	0.117	0.120	0.107	0.119	0.126	0.016
ME	0.098	0.040	0.038	0.040	0.035	0.038	0.041	0.001
MI	0.235	0.139	0.136	0.139	0.126	0.138	0.145	0.035
MN	0.132	0.059	0.057	0.059	0.052	0.057	0.062	0.002
MO	0.244	0.117	0.113	0.117	0.103	0.114	0.123	0.003
MS	0.135	0.058	0.056	0.058	0.052	0.059	0.063	0.007
MT	0.227	0.163	0.161	0.163	0.153	0.161	0.165	0.083
NC	0.184	0.109	0.107	0.109	0.099	0.106	0.111	0.042
ND	0.179	0.080	0.077	0.080	0.071	0.082	0.087	0.002
NE	0.229	0.132	0.129	0.132	0.120	0.130	0.137	0.029
NH	0.203	0.116	0.113	0.116	0.103	0.112	0.118	0.029
NJ	0.194	0.098	0.096	0.098	0.087	0.100	0.106	0.005
NM	0.139	0.084	0.082	0.084	0.077	0.083	0.087	0.018
NV	0.097	0.048	0.047	0.048	0.042	0.047	0.050	0.003
NY	0.211	0.142	0.140	0.142	0.130	0.141	0.146	0.045
OH	0.187	0.113	0.111	0.113	0.104	0.111	0.115	0.053
OK	0.081	0.037	0.035	0.037	0.032	0.035	0.038	0.003
OR	0.202	0.099	0.097	0.099	0.088	0.097	0.104	0.007
PA	0.159	0.073	0.070	0.073	0.062	0.068	0.074	0.001
RI	0.134	0.065	0.062	0.065	0.057	0.064	0.070	0.000
SC	0.211	0.107	0.103	0.107	0.100	0.114	0.121	0.013
SD	0.157	0.055	0.053	0.055	0.041	0.047	0.052	0.000
TN	0.137	0.080	0.078	0.080	0.071	0.079	0.083	0.016
TX	0.209	0.129	0.126	0.129	0.118	0.129	0.134	0.047
UT	0.122	0.039	0.037	0.039	0.035	0.039	0.043	0.000
VA	0.113	0.070	0.069	0.070	0.065	0.070	0.073	0.026
VT	0.131	0.041	0.039	0.041	0.036	0.039	0.044	0.000
WA	0.146	0.059	0.056	0.059	0.052	0.057	0.061	0.002
WI	0.190	0.092	0.090	0.092	0.084	0.095	0.099	0.015
WV	0.076	0.030	0.029	0.030	0.026	0.030	0.032	0.000
WY	0.068	0.027	0.026	0.027	0.024	0.026	0.028	0.000

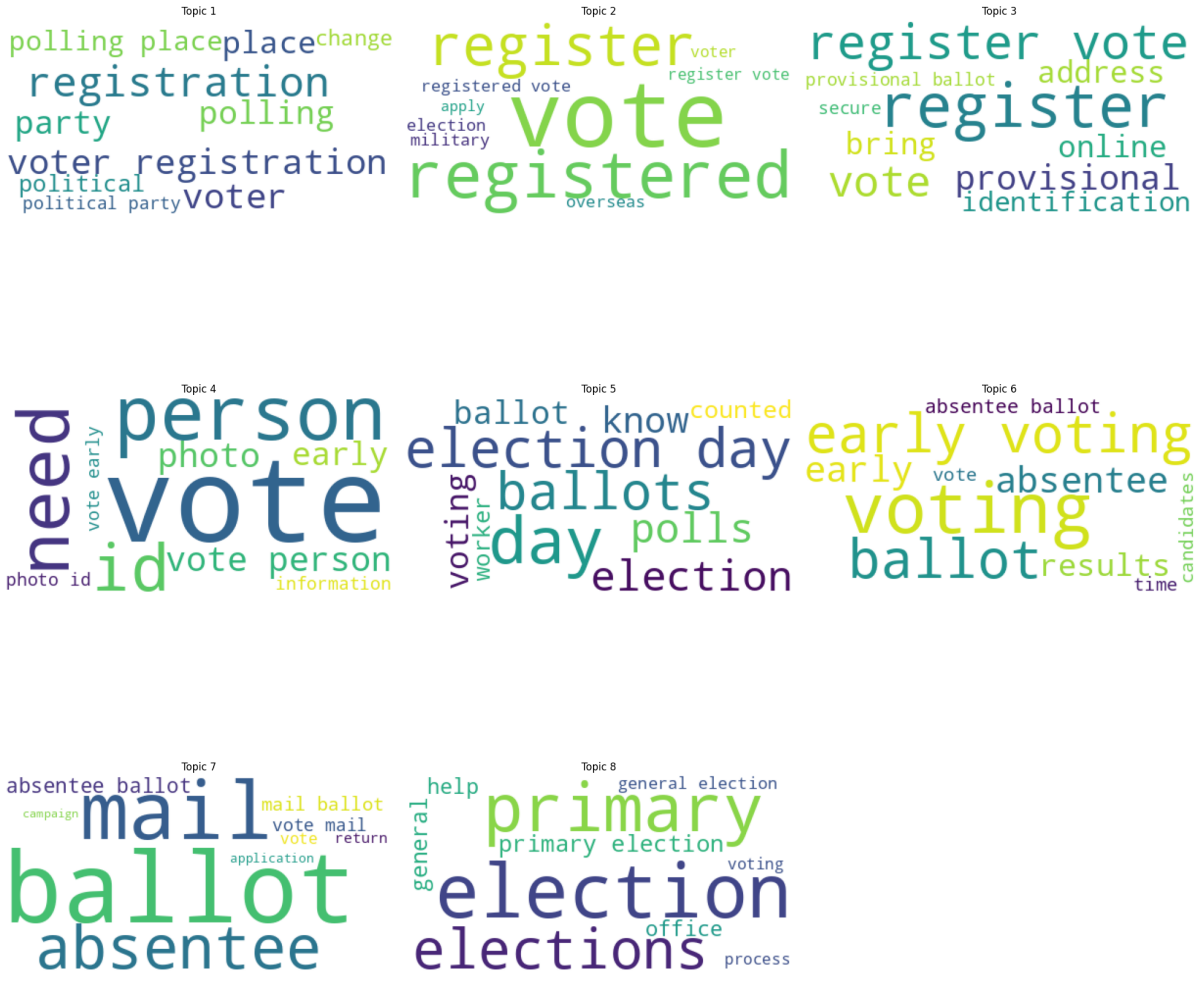

Figure 6: Question Topic Analysis Word Tag Cloud

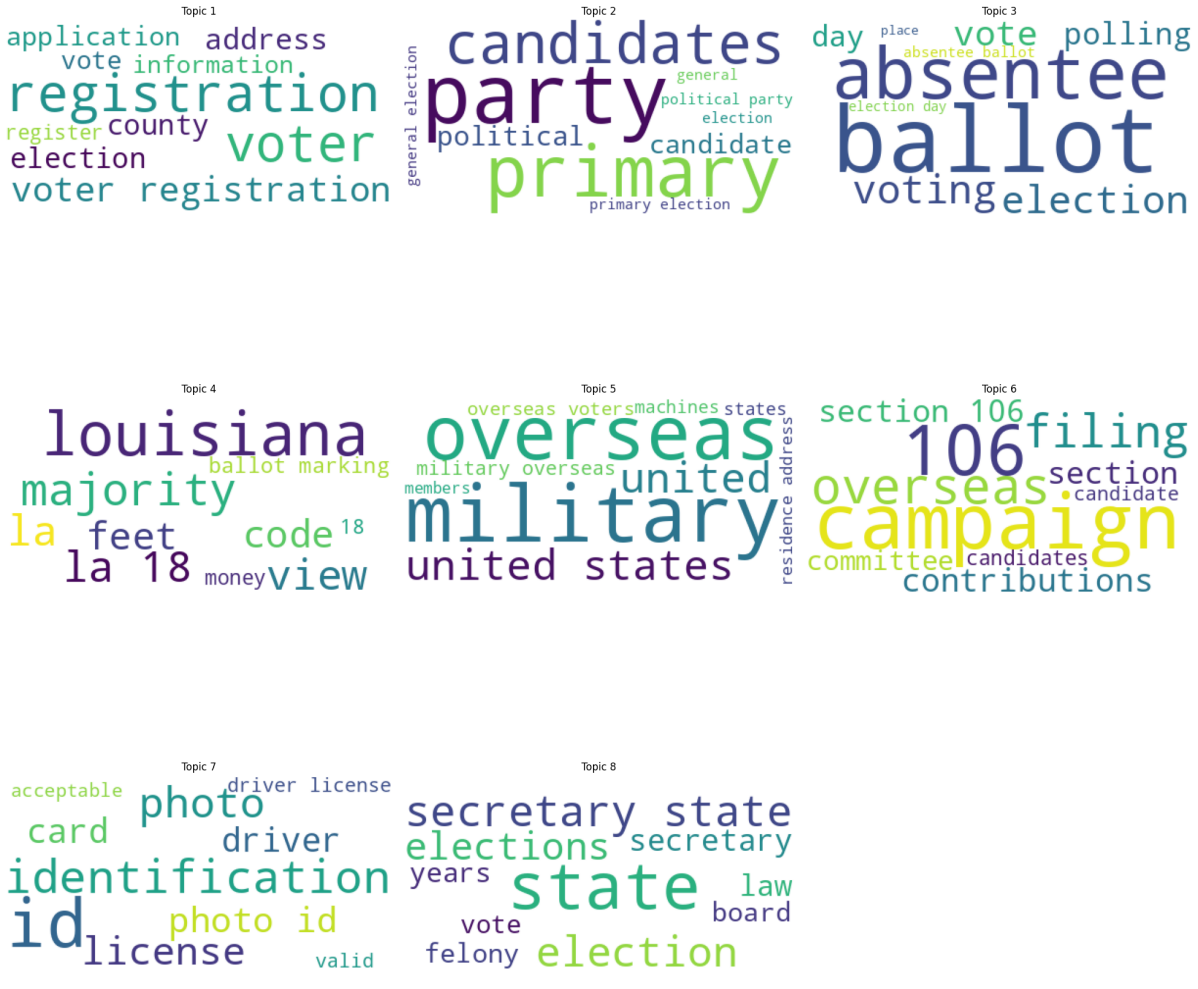

Figure 7: Answer Topic Analysis Word Tag Cloud

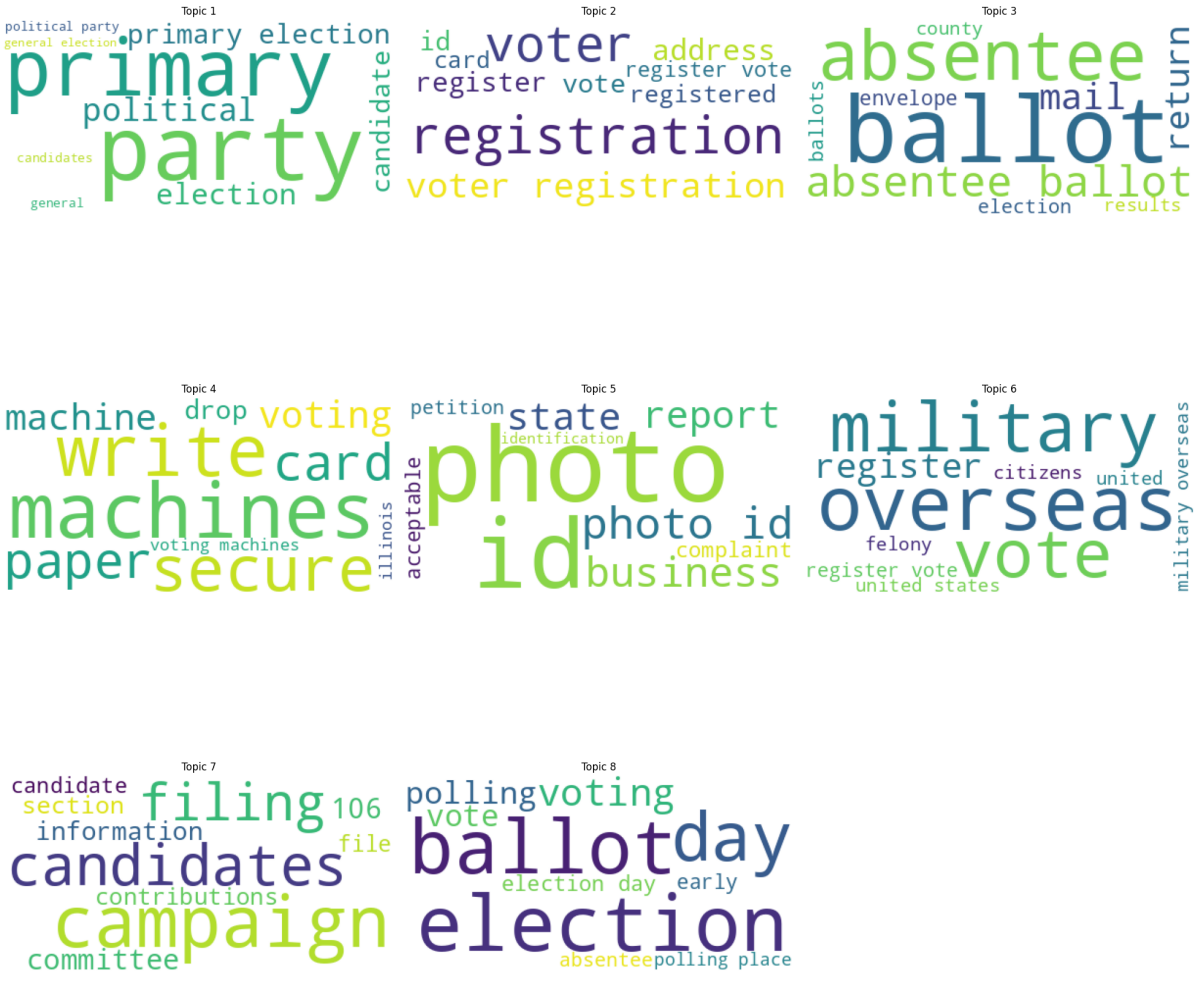

Figure 8: Question + Answer Topic Analysis Word Tag Cloud

Table 13: Question Topic Analysis

STATE	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6	Topic 7	Topic 8	MEDIAN
AK	0.14	0.11	0.11	0.16	0.10	0.14	0.12	0.12	0.12
AL	0.23	0.11	0.10	0.07	0.13	0.12	0.12	0.12	0.12
AR	0.16	0.04	0.27	0.11	0.09	0.13	0.14	0.04	0.12
AZ	0.16	0.09	0.10	0.14	0.17	0.08	0.12	0.15	0.13
CA	0.25	0.12	0.12	0.07	0.06	0.07	0.12	0.19	0.12
CO	0.10	0.10	0.09	0.11	0.13	0.08	0.14	0.25	0.11
CT	0.10	0.24	0.10	0.08	0.17	0.09	0.12	0.12	0.11
DL	0.22	0.15	0.09	0.07	0.12	0.10	0.17	0.08	0.11
FL	0.19	0.10	0.08	0.10	0.08	0.11	0.24	0.10	0.10
GA	0.13	0.08	0.13	0.11	0.14	0.10	0.16	0.13	0.13
HI	0.14	0.15	0.13	0.09	0.11	0.12	0.15	0.11	0.12
IA	0.18	0.11	0.07	0.10	0.13	0.17	0.15	0.10	0.12
ID	0.12	0.10	0.10	0.11	0.07	0.21	0.14	0.14	0.11
IL	0.07	0.11	0.09	0.12	0.06	0.06	0.25	0.24	0.10
IN	0.11	0.17	0.11	0.15	0.13	0.11	0.15	0.08	0.12
KS	0.05	0.17	0.06	0.12	0.16	0.18	0.20	0.05	0.14
KY	0.25	0.15	0.15	0.05	0.15	0.10	0.07	0.08	0.12
LA	0.16	0.20	0.09	0.11	0.10	0.13	0.09	0.11	0.11
MA	0.15	0.16	0.11	0.12	0.10	0.08	0.18	0.09	0.11
MD	0.05	0.30	0.08	0.05	0.17	0.13	0.14	0.08	0.11
ME	0.10	0.10	0.19	0.11	0.09	0.09	0.09	0.22	0.10
MI	0.14	0.18	0.07	0.12	0.08	0.15	0.13	0.13	0.13
MN	0.15	0.16	0.11	0.14	0.11	0.11	0.13	0.08	0.12
MO	0.12	0.18	0.05	0.17	0.15	0.15	0.08	0.11	0.13
MS	0.05	0.11	0.05	0.62	0.05	0.05	0.05	0.05	0.05
MT	0.18	0.10	0.26	0.04	0.06	0.10	0.06	0.20	0.10
NC	0.10	0.14	0.08	0.14	0.12	0.17	0.15	0.10	0.13
ND	0.13	0.19	0.11	0.22	0.10	0.08	0.12	0.05	0.11
NE	0.11	0.13	0.04	0.21	0.12	0.11	0.16	0.13	0.12
NH	0.11	0.29	0.11	0.05	0.10	0.05	0.10	0.18	0.11
NJ	0.10	0.10	0.07	0.07	0.17	0.16	0.25	0.07	0.10
NM	0.17	0.14	0.11	0.12	0.08	0.10	0.14	0.15	0.13
NV	0.17	0.11	0.11	0.07	0.12	0.11	0.23	0.09	0.11
NY	0.13	0.12	0.05	0.06	0.16	0.11	0.19	0.17	0.13
OH	0.10	0.23	0.09	0.19	0.10	0.06	0.08	0.15	0.10
OK	0.17	0.19	0.17	0.07	0.06	0.11	0.12	0.10	0.12
OR	0.06	0.21	0.10	0.08	0.15	0.11	0.16	0.14	0.12
PA	0.16	0.12	0.07	0.08	0.11	0.08	0.30	0.07	0.10
RI	0.19	0.22	0.05	0.07	0.16	0.16	0.09	0.06	0.12
SC	0.17	0.11	0.08	0.16	0.18	0.11	0.05	0.14	0.13
SD	0.04	0.26	0.08	0.03	0.24	0.06	0.26	0.03	0.07
TN	0.11	0.14	0.13	0.17	0.14	0.09	0.14	0.08	0.13
TX	0.13	0.10	0.09	0.18	0.12	0.05	0.07	0.26	0.11
UT	0.25	0.27	0.08	0.12	0.05	0.10	0.06	0.07	0.09
VA	0.13	0.15	0.16	0.16	0.12	0.15	0.04	0.09	0.14
VT	0.14	0.15	0.13	0.10	0.15	0.11	0.09	0.12	0.13
WA	0.15	0.11	0.12	0.08	0.13	0.15	0.11	0.16	0.12
WI	0.04	0.09	0.04	0.34	0.11	0.18	0.10	0.10	0.10
WV	0.28	0.11	0.21	0.07	0.07	0.06	0.06	0.15	0.09
WY	0.10	0.16	0.14	0.10	0.13	0.12	0.13	0.10	0.13

Table 14: Question Topic Analysis Summary

Topic	Final Score	Prevalence	Coherence	Distinctiveness	Coverage	Top Terms
Topic 1: Political Parties and Primary Elections	1.00	1.00	1.00	1.00	1.00	registration, voter registration, voter, party, polling
Topic 2: Voter Registration	0.54	0.87	0.49	0.14	0.65	vote, registered, register, registered vote, military
Topic 3: Absentee Voting	0.10	0.00	0.00	0.39	0.00	register, register vote, vote, provisional, online
Topic 4: Voting Equipment Security	0.12	0.98	0.03	0.26	0.10	vote, person, need, id, vote person
Topic 5: Voter Identification Requirements	0.25	0.11	0.06	0.71	0.11	day, election day, ballots, election, polls
Topic 6: Military and Overseas Voting	0.11	0.15	0.14	0.00	0.14	voting, early voting, ballot, absentee, early
Topic 7: Campaign Filing and Candidates	0.75	0.92	0.96	0.20	0.93	ballot, mail, absentee, absentee ballot, mail ballot
Topic 8: Election Day and Polling Information	0.43	0.40	0.14	0.71	0.46	election, primary, elections, primary election, general

Table 15: Answer Topic Analysis

STATE	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6	Topic 7	Topic 8	MEDIAN
AK	0.24	0.07	0.36	0.03	0.04	0.07	0.08	0.13	0.07
AL	0.18	0.15	0.33	0.03	0.03	0.09	0.08	0.10	0.10
AR	0.33	0.03	0.33	0.03	0.03	0.06	0.04	0.17	0.05
AZ	0.30	0.06	0.32	0.02	0.03	0.09	0.10	0.09	0.09
CA	0.35	0.16	0.20	0.03	0.03	0.06	0.06	0.12	0.09
CO	0.33	0.14	0.28	0.02	0.03	0.03	0.10	0.06	0.08
CT	0.17	0.06	0.35	0.02	0.04	0.05	0.20	0.09	0.08
DL	0.27	0.11	0.24	0.04	0.09	0.04	0.06	0.14	0.10
FL	0.12	0.17	0.23	0.03	0.04	0.23	0.05	0.14	0.13
GA	0.19	0.07	0.36	0.03	0.04	0.05	0.11	0.15	0.09
HI	0.46	0.07	0.23	0.04	0.04	0.03	0.06	0.07	0.06
IA	0.30	0.09	0.39	0.03	0.03	0.05	0.06	0.05	0.05
ID	0.24	0.07	0.33	0.03	0.04	0.03	0.10	0.16	0.08
IL	0.19	0.07	0.11	0.03	0.04	0.24	0.07	0.25	0.09
IN	0.19	0.05	0.44	0.02	0.05	0.03	0.10	0.11	0.08
KS	0.29	0.02	0.35	0.02	0.03	0.03	0.17	0.08	0.06
KY	0.38	0.08	0.24	0.03	0.10	0.04	0.05	0.08	0.08
LA	0.19	0.05	0.35	0.09	0.05	0.07	0.09	0.11	0.09
MA	0.38	0.15	0.29	0.02	0.04	0.03	0.06	0.04	0.05
MD	0.05	0.03	0.71	0.03	0.03	0.03	0.03	0.10	0.03
ME	0.14	0.07	0.30	0.03	0.05	0.07	0.03	0.31	0.07
MI	0.25	0.08	0.39	0.03	0.04	0.06	0.08	0.08	0.08
MN	0.33	0.06	0.32	0.04	0.05	0.03	0.06	0.11	0.06
MO	0.28	0.09	0.29	0.04	0.05	0.08	0.08	0.09	0.08
MS	0.37	0.03	0.27	0.03	0.03	0.08	0.03	0.16	0.05
MT	0.44	0.10	0.17	0.03	0.05	0.03	0.03	0.15	0.08
NC	0.27	0.05	0.36	0.03	0.07	0.05	0.11	0.06	0.07
ND	0.07	0.03	0.47	0.03	0.03	0.03	0.29	0.04	0.04
NE	0.15	0.12	0.48	0.03	0.02	0.02	0.05	0.13	0.08
NH	0.19	0.07	0.45	0.03	0.07	0.06	0.08	0.05	0.07
NJ	0.21	0.07	0.50	0.03	0.03	0.05	0.06	0.05	0.06
NM	0.26	0.10	0.36	0.03	0.04	0.05	0.08	0.09	0.08
NV	0.26	0.10	0.21	0.04	0.05	0.05	0.10	0.19	0.10
NY	0.38	0.03	0.28	0.02	0.06	0.03	0.02	0.17	0.05
OH	0.15	0.06	0.36	0.03	0.03	0.03	0.30	0.05	0.05
OK	0.44	0.08	0.20	0.03	0.04	0.05	0.06	0.10	0.07
OR	0.46	0.17	0.16	0.02	0.02	0.02	0.03	0.11	0.07
PA	0.16	0.03	0.56	0.03	0.06	0.03	0.08	0.05	0.06
RI	0.22	0.15	0.32	0.02	0.03	0.08	0.03	0.15	0.11
SC	0.17	0.08	0.34	0.03	0.03	0.13	0.10	0.13	0.11
SD	0.10	0.03	0.63	0.04	0.02	0.05	0.08	0.06	0.05
TN	0.22	0.03	0.31	0.03	0.05	0.04	0.19	0.13	0.09
TX	0.18	0.18	0.25	0.02	0.04	0.03	0.16	0.14	0.15
UT	0.36	0.10	0.22	0.03	0.03	0.03	0.18	0.05	0.08
VA	0.22	0.06	0.37	0.02	0.02	0.02	0.16	0.11	0.09
VT	0.17	0.04	0.49	0.03	0.08	0.08	0.08	0.04	0.08
WA	0.25	0.25	0.25	0.03	0.03	0.03	0.06	0.10	0.08
WI	0.09	0.02	0.47	0.02	0.03	0.03	0.31	0.03	0.03
WV	0.18	0.20	0.30	0.03	0.05	0.03	0.09	0.12	0.10
WY	0.32	0.10	0.19	0.03	0.07	0.06	0.10	0.12	0.10

Table 16: Answer Topic Analysis Summary

Topic	Final Score	Prevalence	Coherence	Distinctiveness	Coverage	Top Terms
Topic 1: Political Parties and Primary Elections	0.65	0.77	0.78	0.18	0.85	registration, voter, voter registration, address, county
Topic 2: Voter Registration	0.46	0.22	0.36	1.00	0.28	party, primary, candidates, political, candidate
Topic 3: Absentee Voting	0.75	1.00	1.00	0.00	1.00	ballot, absentee, voting, election, vote
Topic 4: Voting Equipment Security	0.01	0.00	0.00	0.21	0.00	Louisiana, majority, la 18, view, la
Topic 5: Voter Identification Requirements	0.09	0.05	0.06	0.16	0.07	military, overseas, united states, united, military overseas
Topic 6: Military and Overseas Voting	0.18	0.12	0.10	0.35	0.14	campaign, overseas, filing, contributions
Topic 7: Campaign Filing and Candidates	0.40	0.20	0.27	0.84	0.30	id, identification, photo, license, photo id
Topic 8: Election Day and Polling Information	0.26	0.29	0.19	0.15	0.40	state, secretary state, election, elections, secretary

Table 17: Question + Answer Topic Analysis

STATE	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6	Topic 7	Topic 8	MEDIAN
AK	0.08	0.20	0.20	0.04	0.06	0.09	0.06	0.26	0.09
AL	0.19	0.16	0.12	0.04	0.04	0.07	0.10	0.28	0.11
AR	0.02	0.29	0.06	0.06	0.03	0.15	0.05	0.33	0.06
AZ	0.11	0.19	0.10	0.04	0.05	0.07	0.07	0.37	0.09
CA	0.16	0.34	0.08	0.02	0.09	0.04	0.04	0.22	0.09
CO	0.16	0.17	0.07	0.05	0.10	0.02	0.03	0.41	0.08
CT	0.06	0.23	0.09	0.03	0.08	0.15	0.03	0.33	0.09
DL	0.10	0.25	0.15	0.18	0.04	0.06	0.04	0.17	0.12
FL	0.20	0.09	0.07	0.03	0.12	0.08	0.21	0.20	0.10
GA	0.14	0.17	0.22	0.03	0.08	0.13	0.04	0.19	0.13
HI	0.10	0.31	0.18	0.03	0.02	0.09	0.05	0.22	0.09
IA	0.11	0.25	0.32	0.02	0.02	0.09	0.05	0.14	0.10
ID	0.10	0.18	0.11	0.03	0.06	0.07	0.07	0.40	0.08
IL	0.10	0.19	0.08	0.12	0.15	0.05	0.22	0.09	0.11
IN	0.06	0.20	0.18	0.02	0.03	0.10	0.03	0.38	0.08
KS	0.06	0.30	0.11	0.02	0.06	0.10	0.04	0.30	0.08
KY	0.09	0.34	0.09	0.03	0.04	0.14	0.04	0.23	0.09
LA	0.05	0.24	0.11	0.08	0.07	0.11	0.02	0.32	0.09
MA	0.14	0.31	0.15	0.06	0.03	0.06	0.03	0.23	0.10
MD	0.03	0.04	0.61	0.07	0.03	0.03	0.03	0.17	0.03
ME	0.05	0.08	0.06	0.03	0.28	0.06	0.09	0.34	0.07
MI	0.08	0.19	0.13	0.04	0.04	0.09	0.07	0.36	0.08
MN	0.07	0.32	0.20	0.03	0.03	0.10	0.04	0.22	0.08
MO	0.07	0.22	0.23	0.02	0.05	0.10	0.04	0.27	0.09
MS	0.03	0.03	0.03	0.03	0.03	0.14	0.03	0.69	0.03
MT	0.12	0.30	0.10	0.03	0.03	0.07	0.08	0.26	0.09
NC	0.05	0.24	0.24	0.04	0.04	0.17	0.03	0.18	0.11
ND	0.04	0.23	0.24	0.02	0.03	0.20	0.02	0.22	0.12
NE	0.16	0.19	0.16	0.02	0.05	0.02	0.03	0.36	0.11
NH	0.09	0.16	0.13	0.02	0.05	0.24	0.03	0.28	0.11
NJ	0.09	0.11	0.20	0.09	0.04	0.03	0.02	0.41	0.09
NM	0.07	0.33	0.18	0.04	0.03	0.07	0.07	0.20	0.07
NV	0.15	0.16	0.13	0.05	0.07	0.05	0.03	0.36	0.10
NY	0.03	0.24	0.33	0.12	0.02	0.02	0.05	0.19	0.08
OH	0.07	0.35	0.18	0.02	0.03	0.03	0.04	0.28	0.06
OK	0.08	0.39	0.20	0.03	0.05	0.07	0.05	0.13	0.08
OR	0.15	0.17	0.15	0.10	0.02	0.06	0.08	0.26	0.13
PA	0.05	0.16	0.22	0.04	0.05	0.04	0.04	0.39	0.05
RI	0.15	0.22	0.28	0.14	0.03	0.08	0.03	0.07	0.11
SC	0.11	0.17	0.09	0.03	0.05	0.06	0.11	0.37	0.10
SD	0.02	0.05	0.40	0.08	0.02	0.11	0.02	0.30	0.06
TN	0.08	0.19	0.21	0.03	0.14	0.05	0.05	0.25	0.11
TX	0.20	0.23	0.04	0.04	0.09	0.05	0.02	0.32	0.07
UT	0.17	0.43	0.10	0.03	0.06	0.07	0.03	0.12	0.08
VA	0.10	0.28	0.17	0.03	0.04	0.05	0.03	0.30	0.08
VT	0.07	0.17	0.26	0.04	0.08	0.04	0.03	0.31	0.07
WA	0.29	0.17	0.17	0.06	0.05	0.05	0.09	0.12	0.10
WI	0.02	0.28	0.25	0.02	0.12	0.03	0.02	0.25	0.08
WV	0.22	0.18	0.06	0.04	0.04	0.15	0.05	0.25	0.11
WY	0.13	0.27	0.06	0.03	0.07	0.12	0.11	0.21	0.12

Table 18: Question + Answer Topic Analysis Summary

Topic	Final Score	Prevalence	Coherence	Distinctiveness	Coverage	Top Terms
Topic 1: Political Parties and Primary Elections	0.46	0.28	0.44	0.80	308	party, primary, political, election, primary election
Topic 2: Voter Registration	0.76	0.82	0.91	0.52	0.79	registration, voter, voter registration, address, register
Topic 3: Absentee Voting	0.41	0.49	0.53	0.08	0.52	ballot, absentee, absentee ballot, mail, return
Topic 4: Voting Equipment Security	0.16	0.00	0.00	0.65	0.00	machines, write, secure, paper, card
Topic 5: Voter Identification Requirements	0.24	0.06	0.06	0.69	0.13	photo, id, photo id, business, report
Topic 6: Military and Overseas Voting	0.39	0.16	0.19	1.00	0.22	overseas, military, vote, register, register vote
Topic 7: Campaign Filing and Candidates	0.26	0.06	0.08	0.77	0.11	campaign, candidates, filing, committee
Topic 8: Election Day and Polling Information	0.75	1.00	1.00	0.00	1.00	election, ballot, day, voting, polling

Table 19: Question Sentiment Analysis

State	Average Compound Score	Positive Count	Negative Count	Neutral Count	Question Positive %	Question Negative %	Question Neutral %	Positive Compound Score	Negative Compound Score	Neutral Compound Score
AK	-0.09	1.00	23.00	31.00	1.82	41.82	56.36	0.79	-5.82	0.00
AL	0.02	6.00	3.00	33.00	14.29	7.14	78.57	1.63	-0.89	0.00
AR	-0.05	0.00	4.00	18.00	0.00	18.18	81.82	0.00	-1.09	0.00
AZ	-0.01	4.00	4.00	27.00	11.43	11.43	77.14	1.17	-1.46	0.00
CA	0.01	10.00	6.00	64.00	12.50	7.50	80.00	2.96	-1.77	0.00
CO	0.01	4.00	2.00	39.00	8.89	4.44	86.67	1.18	-0.69	0.00
CT	-0.03	3.00	9.00	47.00	5.08	15.25	79.66	0.95	-2.86	0.00
DL	0.05	19.00	11.00	74.00	18.27	10.58	71.15	7.58	-2.81	0.00
FL	0.06	39.00	16.00	77.00	29.55	12.12	58.33	14.03	-5.87	0.00
GA	-0.09	4.00	27.00	48.00	5.06	34.18	60.76	1.10	-8.26	0.00
HI	-0.03	1.00	7.00	67.00	1.33	9.33	89.33	0.34	-2.23	0.00
IA	-0.05	5.00	17.00	36.00	8.62	29.31	62.07	1.76	-4.89	0.00
ID	-0.03	3.00	8.00	41.00	5.77	15.38	78.85	0.75	-2.18	0.00
IL	0.02	13.00	6.00	71.00	14.44	6.67	78.89	3.76	-2.22	0.00
IN	0.00	11.00	11.00	58.00	13.75	13.75	72.50	3.03	-3.03	0.00
KS	0.01	6.00	4.00	35.00	13.33	8.89	77.78	1.93	-1.48	0.00
KY	0.02	7.00	4.00	46.00	12.28	7.02	80.70	2.25	-1.07	0.00
LA	-0.12	3.00	35.00	76.00	2.63	30.70	66.67	1.03	-14.38	0.00
MA	0.01	7.00	6.00	77.00	7.78	6.67	85.56	2.79	-1.94	0.00
MD	0.00	2.00	2.00	41.00	4.44	4.44	91.11	0.61	-0.69	0.00
ME	-0.03	3.00	10.00	43.00	5.36	17.86	76.79	1.10	-2.82	0.00
MI	-0.03	20.00	35.00	102.00	12.74	22.29	64.97	5.45	-10.46	0.00
MN	-0.02	5.00	12.00	62.00	6.33	15.19	78.48	1.74	-3.31	0.00
MO	-0.03	3.00	8.00	32.00	6.98	18.60	74.42	1.08	-2.41	0.00
MS	-0.01	3.00	4.00	20.00	11.11	14.81	74.07	0.77	-1.09	0.00
MT	-0.05	3.00	11.00	36.00	6.00	22.00	72.00	0.59	-2.98	0.00
NC	-0.03	14.00	29.00	67.00	12.73	26.36	60.91	4.20	-7.98	0.00
ND	-0.04	0.00	7.00	43.00	0.00	14.00	86.00	0.00	-1.91	0.00
NE	0.00	1.00	1.00	25.00	3.70	3.70	92.59	0.27	-0.27	0.00
NH	0.02	6.00	5.00	44.00	10.91	9.09	80.00	2.41	-1.37	0.00
NJ	-0.04	6.00	11.00	38.00	10.91	20.00	69.09	1.70	-4.05	0.00
NM	-0.01	15.00	19.00	55.00	16.85	21.35	61.80	5.02	-6.22	0.00
NV	-0.01	12.00	18.00	88.00	10.17	15.25	74.58	4.70	-6.46	0.00
NY	0.06	11.00	3.00	42.00	19.64	5.36	75.00	4.01	-0.82	0.00
OH	0.03	10.00	6.00	36.00	19.23	11.54	69.23	3.27	-1.93	0.00
OK	-0.01	14.00	21.00	76.00	12.61	18.92	68.47	4.74	-6.20	0.00
OR	-0.01	3.00	4.00	34.00	7.32	9.76	82.93	1.02	-1.32	0.00
PA	-0.07	6.00	23.00	52.00	7.41	28.40	64.20	2.19	-7.83	0.00
RI	0.00	4.00	4.00	31.00	10.26	10.26	79.49	1.48	-1.31	0.00
SC	0.01	5.00	6.00	23.00	14.71	17.65	67.65	2.04	-1.66	0.00
SD	-0.05	2.00	7.00	17.00	7.69	26.92	65.38	0.50	-1.91	0.00
TN	-0.01	9.00	15.00	44.00	13.24	22.06	64.71	3.98	-4.69	0.00
TX	0.08	24.00	8.00	61.00	25.81	8.60	65.59	9.59	-2.52	0.00
UT	0.02	3.00	3.00	24.00	10.00	10.00	80.00	1.33	-0.82	0.00
VA	-0.06	4.00	17.00	47.00	5.88	25.00	69.12	1.33	-5.21	0.00
VT	0.02	3.00	3.00	28.00	8.82	8.82	82.35	1.71	-0.89	0.00
WA	0.04	13.00	5.00	55.00	17.81	6.85	75.34	3.96	-1.18	0.00
WI	-0.06	4.00	12.00	17.00	12.12	36.36	51.52	1.50	-3.38	0.00
WV	0.02	19.00	16.00	39.00	25.68	21.62	52.70	6.94	-5.10	0.00
WY	-0.02	6.00	10.00	51.00	8.96	14.93	76.12	1.45	-2.86	0.00

Table 20: Answer Sentiment Analysis

State	Average Compund Score	Positive Count	Negative Count	Neutral Count	Answer Positive %	Answer Negative %	Answer Neutral %	Positive Compound Score	Negative Compound Score	Neutral Compound Score
AK	0.00	22.00	24.00	9.00	40.00	43.64	16.36	10.34	-10.58	0.00
AL	0.21	25.00	6.00	11.00	59.52	14.29	26.19	12.17	-3.39	0.00
AR	0.03	8.00	7.00	7.00	36.36	31.82	31.82	4.45	-3.78	0.00
AZ	0.34	22.00	6.00	7.00	62.86	17.14	20.00	13.38	-1.64	0.00
CA	0.27	53.00	14.00	13.00	66.25	17.50	16.25	28.44	-6.61	0.00
CO	0.15	22.00	13.00	10.00	48.89	28.89	22.22	12.74	-5.78	0.00
CT	0.07	25.00	21.00	13.00	42.37	35.59	22.03	13.31	-9.32	0.00
DL	0.21	58.00	24.00	22.00	55.77	23.08	21.15	32.49	-10.81	0.00
FL	0.23	82.00	29.00	21.00	62.12	21.97	15.91	43.65	-13.34	0.00
GA	0.06	34.00	25.00	20.00	43.04	31.65	25.32	15.49	-10.86	0.00
HI	0.11	35.00	16.00	24.00	46.67	21.33	32.00	15.94	-8.01	0.00
IA	0.06	23.00	23.00	12.00	39.66	39.66	20.69	14.04	-10.53	0.00
ID	0.11	18.00	15.00	19.00	34.62	28.85	36.54	10.16	-4.70	0.00
IL	0.25	58.00	13.00	19.00	64.44	14.44	21.11	28.00	-5.95	0.00
IN	0.18	38.00	17.00	25.00	47.50	21.25	31.25	21.23	-6.65	0.00
KS	0.13	23.00	9.00	13.00	51.11	20.00	28.89	10.45	-4.50	0.00
KY	0.12	24.00	15.00	18.00	42.11	26.32	31.58	13.27	-6.60	0.00
LA	0.06	57.00	37.00	20.00	50.00	32.46	17.54	31.00	-23.83	0.00
MA	0.15	41.00	22.00	27.00	45.56	24.44	30.00	24.56	-11.41	0.00
MD	0.11	20.00	13.00	12.00	44.44	28.89	26.67	10.66	-5.57	0.00
ME	0.05	27.00	19.00	10.00	48.21	33.93	17.86	11.46	-8.69	0.00
MI	0.03	78.00	54.00	25.00	49.68	34.39	15.92	37.10	-32.02	-0.01
MN	0.02	33.00	32.00	14.00	41.77	40.51	17.72	17.20	-15.52	0.00
MO	0.13	26.00	9.00	8.00	60.47	20.93	18.60	10.02	-4.47	0.00
MS	0.12	12.00	6.00	9.00	44.44	22.22	33.33	5.70	-2.49	0.00
MT	-0.01	15.00	15.00	20.00	30.00	30.00	40.00	6.31	-6.60	0.00
NC	0.08	52.00	45.00	13.00	47.27	40.91	11.82	25.86	-17.09	0.00
ND	0.15	29.00	13.00	8.00	58.00	26.00	16.00	15.59	-8.09	0.00
NE	0.39	20.00	1.00	6.00	74.07	3.70	22.22	10.54	-0.08	0.00
NH	0.12	25.00	20.00	10.00	45.45	36.36	18.18	14.73	-7.97	0.00
NJ	0.21	33.00	11.00	11.00	60.00	20.00	20.00	16.06	-4.35	0.00
NM	0.11	43.00	24.00	22.00	48.31	26.97	24.72	21.00	-11.35	0.00
NV	0.10	54.00	35.00	29.00	45.76	29.66	24.58	27.52	-15.13	0.00
NY	0.17	27.00	14.00	15.00	48.21	25.00	26.79	16.30	-6.68	0.00
OH	0.15	24.00	13.00	15.00	46.15	25.00	28.85	14.53	-6.75	0.00
OK	0.16	66.00	29.00	16.00	59.46	26.13	14.41	30.42	-12.58	0.00
OR	0.25	24.00	9.00	8.00	58.54	21.95	19.51	13.40	-3.10	0.00
PA	0.10	36.00	18.00	27.00	44.44	22.22	33.33	16.21	-7.76	0.00
RI	0.20	22.00	10.00	7.00	56.41	25.64	17.95	12.42	-4.59	0.00
SC	0.09	13.00	9.00	12.00	38.24	26.47	35.29	6.81	-3.87	0.00
SD	-0.05	13.00	10.00	3.00	50.00	38.46	11.54	4.68	-5.98	0.00
TN	0.04	34.00	26.00	8.00	50.00	38.24	11.76	16.89	-14.37	0.00
TX	0.32	68.00	13.00	12.00	73.12	13.98	12.90	35.96	-6.10	0.00
UT	0.23	20.00	7.00	3.00	66.67	23.33	10.00	10.40	-3.56	0.00
VA	0.10	34.00	20.00	14.00	50.00	29.41	20.59	15.94	-9.27	0.00
VT	0.12	18.00	9.00	7.00	52.94	26.47	20.59	8.20	-4.04	0.00
WA	0.18	38.00	18.00	17.00	52.05	24.66	23.29	21.68	-8.58	0.00
WI	-0.03	10.00	18.00	5.00	30.30	54.55	15.15	5.82	-6.85	0.00
WV	0.18	36.00	15.00	23.00	48.65	20.27	31.08	20.14	-6.53	0.00
WY	0.08	31.00	22.00	14.00	46.27	32.84	20.90	14.51	-9.14	0.00

Table 21: Question + Answer Sentiment Analysis

State	Average Sentiment Score	Positive Count	Negative Count	Neutral Count	Positive %	Negative %	Neutral %	Positive Compound Score	Negative Compound Score	Neutral Compound Score
AK	-0.07	21.00	29.00	5.00	38.18	52.73	9.09	9.82	-13.61	0.00
AL	0.22	27.00	7.00	8.00	64.29	16.67	19.05	13.18	-3.80	0.00
AR	0.01	8.00	7.00	7.00	36.36	31.82	31.82	4.45	-4.19	0.00
AZ	0.33	24.00	6.00	5.00	68.57	17.14	14.29	13.86	-2.40	0.00
CA	0.27	51.00	16.00	13.00	63.75	20.00	16.25	28.91	-7.10	0.00
CO	0.16	22.00	13.00	10.00	48.89	28.89	22.22	13.24	-5.88	0.00
CT	0.05	23.00	24.00	12.00	38.98	40.68	20.34	13.72	-10.79	0.00
DL	0.22	60.00	26.00	18.00	57.69	25.00	17.31	35.17	-11.98	0.00
FL	0.22	81.00	35.00	16.00	61.36	26.52	12.12	46.80	-17.33	0.00
GA	-0.02	31.00	30.00	18.00	39.24	37.97	22.78	15.03	-16.39	0.00
HI	0.09	34.00	18.00	23.00	45.33	24.00	30.67	15.80	-9.38	0.00
IA	0.01	22.00	24.00	12.00	37.93	41.38	20.69	13.77	-13.40	0.00
ID	0.07	19.00	16.00	17.00	36.54	30.77	32.69	10.40	-6.62	0.00
IL	0.26	61.00	14.00	15.00	67.78	15.56	16.67	30.19	-6.86	0.00
IN	0.18	40.00	19.00	21.00	50.00	23.75	26.25	22.26	-8.17	0.00
KS	0.14	23.00	9.00	13.00	51.11	20.00	28.89	10.69	-4.52	0.00
KY	0.13	27.00	15.00	15.00	47.37	26.32	26.32	14.44	-7.13	0.00
LA	-0.01	51.00	46.00	17.00	44.74	40.35	14.91	29.16	-30.10	0.00
MA	0.16	42.00	21.00	27.00	46.67	23.33	30.00	25.86	-11.54	0.00
MD	0.11	20.00	13.00	12.00	44.44	28.89	26.67	11.18	-6.07	0.00
ME	0.03	27.00	20.00	9.00	48.21	35.71	16.07	11.33	-9.73	0.00
MI	0.03	78.00	56.00	23.00	49.68	35.67	14.65	38.58	-33.88	-0.01
MN	0.03	35.00	31.00	13.00	44.30	39.24	16.46	17.93	-15.67	0.00
MO	0.10	24.00	11.00	8.00	55.81	25.58	18.60	9.98	-5.71	0.00
MS	0.12	13.00	7.00	7.00	48.15	25.93	25.93	6.17	-2.95	0.00
MT	-0.04	15.00	18.00	17.00	30.00	36.00	34.00	7.41	-9.61	0.00
NC	0.05	52.00	50.00	8.00	47.27	45.45	7.27	24.62	-19.64	0.00
ND	0.14	29.00	13.00	8.00	58.00	26.00	16.00	15.75	-8.75	0.00
NE	0.38	20.00	2.00	5.00	74.07	7.41	18.52	10.63	-0.35	0.00
NH	0.14	27.00	18.00	10.00	49.09	32.73	18.18	15.82	-8.22	0.01
NJ	0.18	33.00	15.00	7.00	60.00	27.27	12.73	16.45	-6.79	0.00
NM	0.10	46.00	26.00	17.00	51.69	29.21	19.10	22.50	-13.90	0.00
NV	0.11	56.00	35.00	27.00	47.46	29.66	22.88	29.50	-16.68	0.01
NY	0.18	27.00	14.00	15.00	48.21	25.00	26.79	17.17	-7.05	0.00
OH	0.18	29.00	14.00	9.00	55.77	26.92	17.31	16.38	-7.08	0.00
OK	0.16	65.00	32.00	14.00	58.56	28.83	12.61	32.26	-14.70	0.00
OR	0.25	24.00	10.00	7.00	58.54	24.39	17.07	13.81	-3.74	0.00
PA	0.05	36.00	28.00	17.00	44.44	34.57	20.99	16.45	-12.24	0.00
RI	0.20	23.00	9.00	7.00	58.97	23.08	17.95	12.96	-5.20	0.00
SC	0.09	13.00	9.00	12.00	38.24	26.47	35.29	7.31	-4.20	0.00
SD	-0.05	14.00	10.00	2.00	53.85	38.46	7.69	5.40	-6.79	0.00
TN	0.06	36.00	25.00	7.00	52.94	36.76	10.29	18.82	-14.98	0.00
TX	0.37	67.00	14.00	12.00	72.04	15.05	12.90	40.25	-5.65	0.00
UT	0.23	20.00	7.00	3.00	66.67	23.33	10.00	10.81	-3.97	0.00
VA	0.06	32.00	24.00	12.00	47.06	35.29	17.65	16.20	-12.37	0.00
VT	0.15	19.00	8.00	7.00	55.88	23.53	20.59	9.43	-4.23	0.00
WA	0.18	39.00	18.00	16.00	53.42	24.66	21.92	22.37	-8.88	0.00
WI	-0.10	10.00	18.00	5.00	30.30	54.55	15.15	6.23	-9.45	0.00
WV	0.17	35.00	22.00	17.00	47.30	29.73	22.97	22.64	-10.00	0.00
WY	0.07	31.00	24.00	12.00	46.27	35.82	17.91	14.70	-10.27	0.00

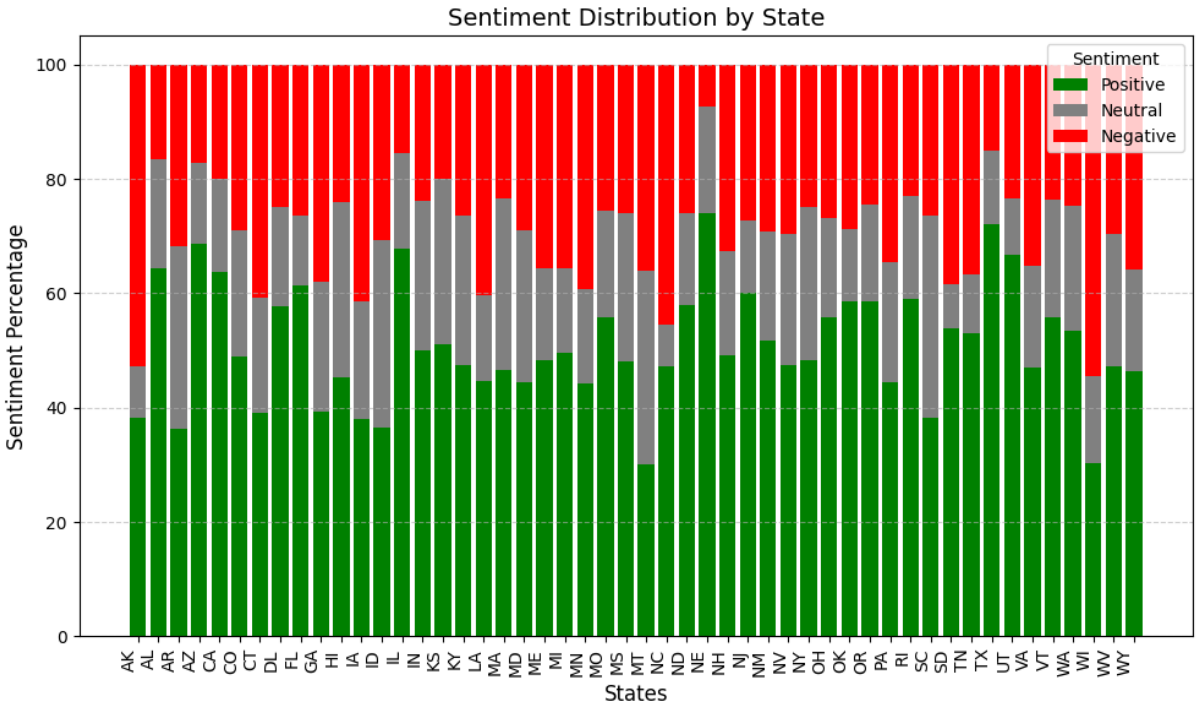

Figure 9: Distribution of sentiments.

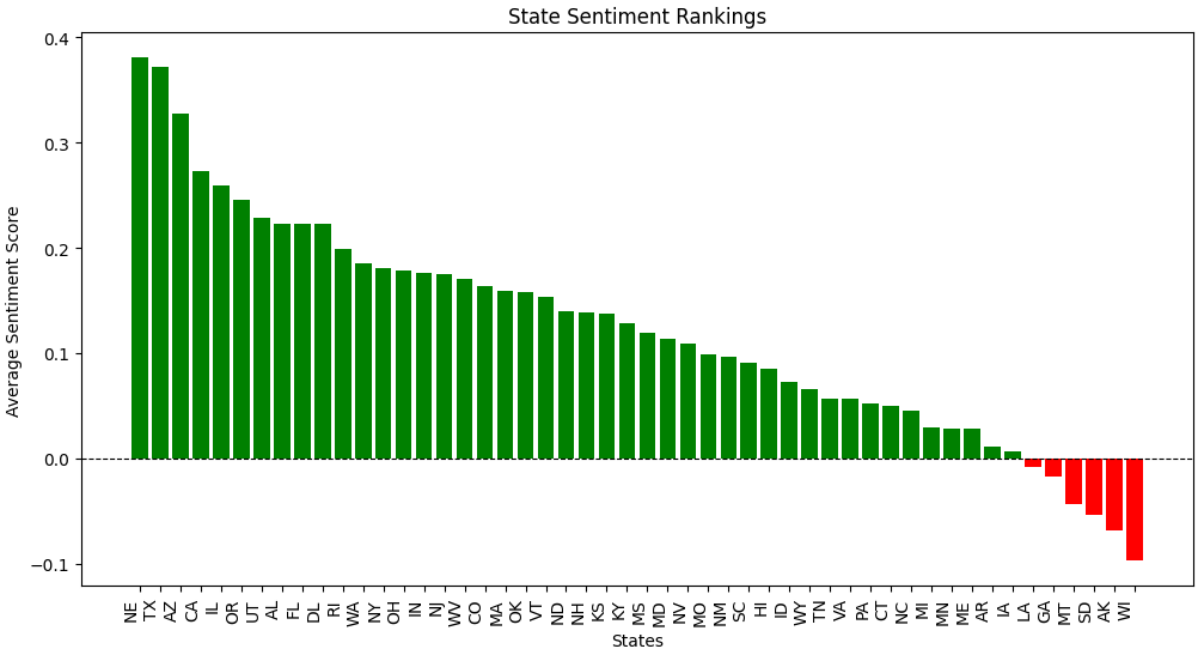

Figure 10: Range of sentiments.

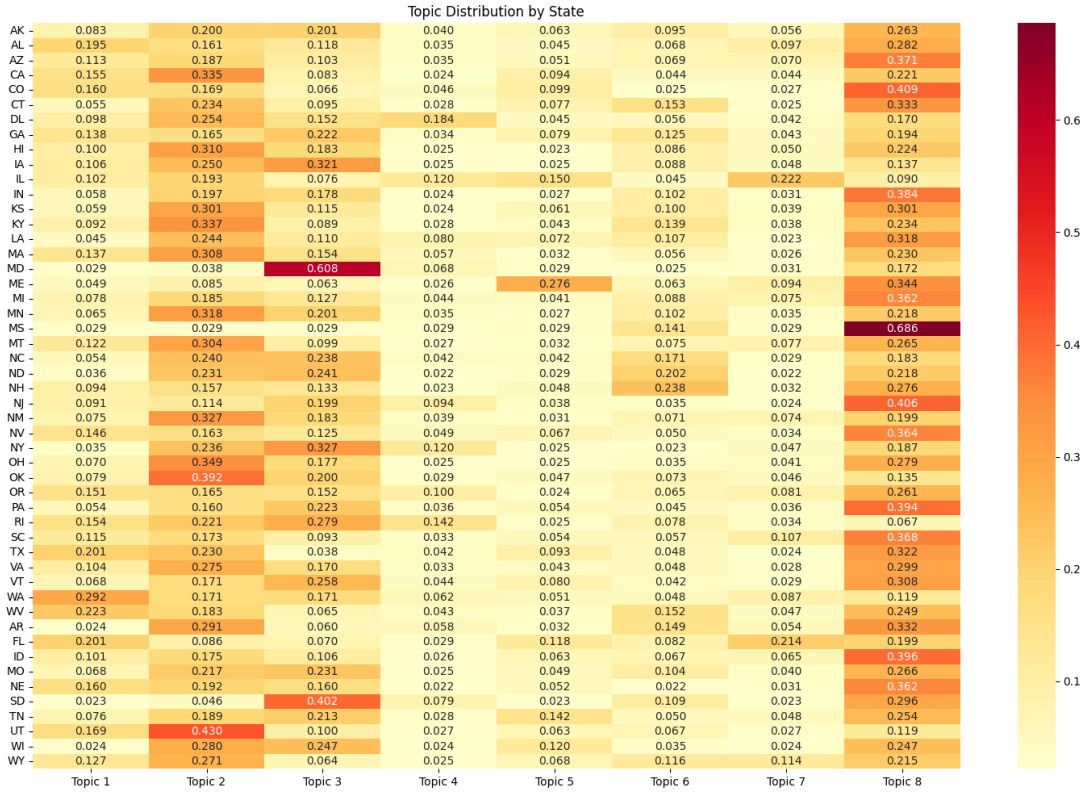

Figure 11: This heatmap visualizes the distribution of eight election-related topics across U.S. states. Darker colors indicate stronger topic representation, while lighter colors highlight weaker coverage. The gradient underscores variations in FAQ coverage across states, with rows representing states (postal abbreviations) and columns the identified topics.

Table 22: LLM Answer Readability Analysis

State	FKG	GFI	SI	ARI	CLI	AVERAGE
AK	10.36	11.17	7.40	12.10	10.85	10.37
AL	9.93	10.73	8.06	12.08	11.51	10.46
AR	12.37	14.40	7.40	14.52	10.04	11.74
AZ	9.51	10.42	9.35	11.49	11.41	10.44
CA	11.49	11.94	9.17	14.32	12.53	11.89
CO	9.68	10.03	7.51	12.90	12.64	10.55
CT	10.29	11.39	9.03	12.29	10.94	10.79
DE	9.81	10.75	7.48	12.21	10.01	10.05
FL	11.89	12.47	8.04	14.50	12.92	11.96
GA	8.89	10.20	6.12	10.18	9.89	9.05
HI	10.70	11.09	7.83	12.64	12.43	10.94
IA	10.33	11.47	7.02	12.44	11.66	10.58
ID	9.33	10.36	5.92	10.96	10.78	9.47
IL	11.85	12.85	6.84	15.05	12.82	11.88
IN	9.69	10.49	8.01	11.84	11.18	10.24
KS	9.50	10.25	8.06	11.86	11.36	10.21
KY	11.02	11.80	7.79	13.32	11.78	11.14
LA	12.18	12.70	10.27	14.74	12.35	12.45
MA	8.36	8.80	8.71	10.00	10.01	9.18
MD	9.14	9.88	7.92	11.06	10.88	9.78
ME	9.84	11.21	9.06	11.47	10.85	10.48
MI	11.62	11.47	9.61	14.80	14.48	12.39
MN	8.68	9.63	8.07	10.30	10.68	9.47
MO	10.13	11.38	8.17	12.14	10.20	10.40
MS	8.74	10.05	7.01	11.05	10.96	9.56
MT	10.61	11.58	5.13	13.55	13.49	10.87
NC	9.83	10.23	8.79	12.26	11.29	10.48
ND	9.59	10.14	9.25	11.37	11.13	10.30
NE	10.79	11.42	9.44	14.04	12.24	11.59
NH	9.06	10.25	9.28	10.27	9.19	9.61
NJ	9.56	10.63	6.22	11.54	10.66	9.72
NM	10.84	11.75	7.83	13.06	11.82	11.06
NV	9.69	11.04	6.49	12.11	10.64	9.99
NY	10.31	11.08	8.57	12.91	11.86	10.95
OH	8.96	10.20	7.61	11.40	10.87	9.81
OK	9.94	11.13	7.14	12.10	11.70	10.40
OR	9.12	9.62	8.71	11.39	11.90	10.15
PA	8.29	9.59	4.87	10.06	10.14	8.59
RI	10.03	11.45	8.75	12.47	11.12	10.76
SC	11.60	10.49	8.92	16.75	16.50	12.85
SD	9.62	10.64	9.20	11.56	10.81	10.37
TN	10.01	11.22	6.34	12.07	10.57	10.04
TX	11.55	12.09	10.20	13.94	12.07	11.97
UT	8.78	10.27	7.92	10.39	9.96	9.46
VA	10.23	11.11	8.96	12.44	10.92	10.73
VT	8.41	9.87	5.97	10.62	9.68	8.91
WA	9.25	10.04	8.77	10.97	11.01	10.01
WI	10.28	11.83	8.21	11.89	10.03	10.45
WV	10.26	11.67	5.94	12.76	11.98	10.52
WY	9.72	11.23	8.76	12.24	11.15	10.62

Table 23: LLM Question + Answer readability Analysis

STATE	FKG	GFI	SI	ARI	CLI	Average
AK	9.30	9.83	9.39	10.43	10.42	9.88
AL	8.98	9.40	9.38	10.34	10.61	9.74
AR	9.85	11.34	8.45	11.14	9.57	10.07
AZ	9.13	9.75	9.85	10.75	11.08	10.11
CA	10.72	10.78	10.45	13.00	12.46	11.48
CO	8.90	9.03	9.79	11.46	11.72	10.18
CT	9.06	9.94	10.23	10.47	10.08	9.95
DE	8.95	9.87	8.98	10.83	10.33	9.79
FL	10.65	11.09	10.37	12.36	11.98	11.29
GA	7.84	8.96	8.83	8.61	9.00	8.65
HI	9.53	9.71	9.80	10.92	11.62	10.32
IA	9.36	9.99	9.16	10.85	10.94	10.06
ID	8.01	8.82	8.30	9.01	9.74	8.78
IL	11.07	11.90	9.69	13.35	12.43	11.69
IN	8.66	9.37	9.15	10.23	10.31	9.54
KS	8.72	9.05	9.34	10.50	10.57	9.64
KY	9.92	10.62	9.55	11.66	10.79	10.50
LA	11.14	11.33	11.02	13.33	12.19	11.80
MA	7.92	8.22	9.39	9.19	10.00	8.94
MD	8.10	8.75	9.10	9.73	10.16	9.17
ME	8.90	9.93	9.88	10.06	10.25	9.80
MI	10.48	10.30	10.63	13.09	13.32	11.56
MN	7.84	8.66	8.58	9.01	9.81	8.78
MO	9.24	10.26	9.62	10.64	9.95	9.94
MS	8.44	9.44	8.17	10.20	10.56	9.36
MT	9.17	9.69	7.39	11.21	12.04	9.90
NC	9.25	9.43	9.81	11.22	11.01	10.15
ND	8.69	9.16	10.31	10.02	10.39	9.72
NE	9.60	10.03	10.09	12.17	11.57	10.69
NH	8.75	9.64	10.26	9.71	9.68	9.61
NJ	8.66	9.45	8.97	10.18	10.07	9.47
NM	9.92	10.53	10.29	11.33	10.90	10.59
NV	8.69	9.73	8.42	10.46	10.14	9.49
NY	9.42	9.86	9.22	11.54	11.29	10.27
OH	8.03	9.14	9.76	9.57	9.62	9.23
OK	9.13	9.73	9.49	10.52	10.79	9.93
OR	8.55	8.80	10.03	10.52	11.49	9.88
PA	7.47	8.77	7.87	8.67	9.11	8.38
RI	9.08	10.14	9.74	11.08	10.63	10.14
SC	10.26	9.44	9.63	13.94	14.20	11.49
SD	9.12	9.69	10.10	10.65	10.67	10.04
TN	8.83	9.86	9.08	10.31	10.03	9.62
TX	10.55	10.93	11.12	12.39	11.25	11.25
UT	8.11	9.54	8.48	9.36	9.59	9.01
VA	9.35	10.08	9.91	10.97	10.68	10.20
VT	7.52	8.69	8.09	9.13	9.01	8.49
WA	8.61	9.05	9.56	9.96	10.62	9.56
WI	8.82	10.11	9.04	10.02	9.46	9.49
WV	9.19	9.97	9.01	10.71	11.08	9.99
WY	8.61	9.95	9.95	10.53	10.37	9.88

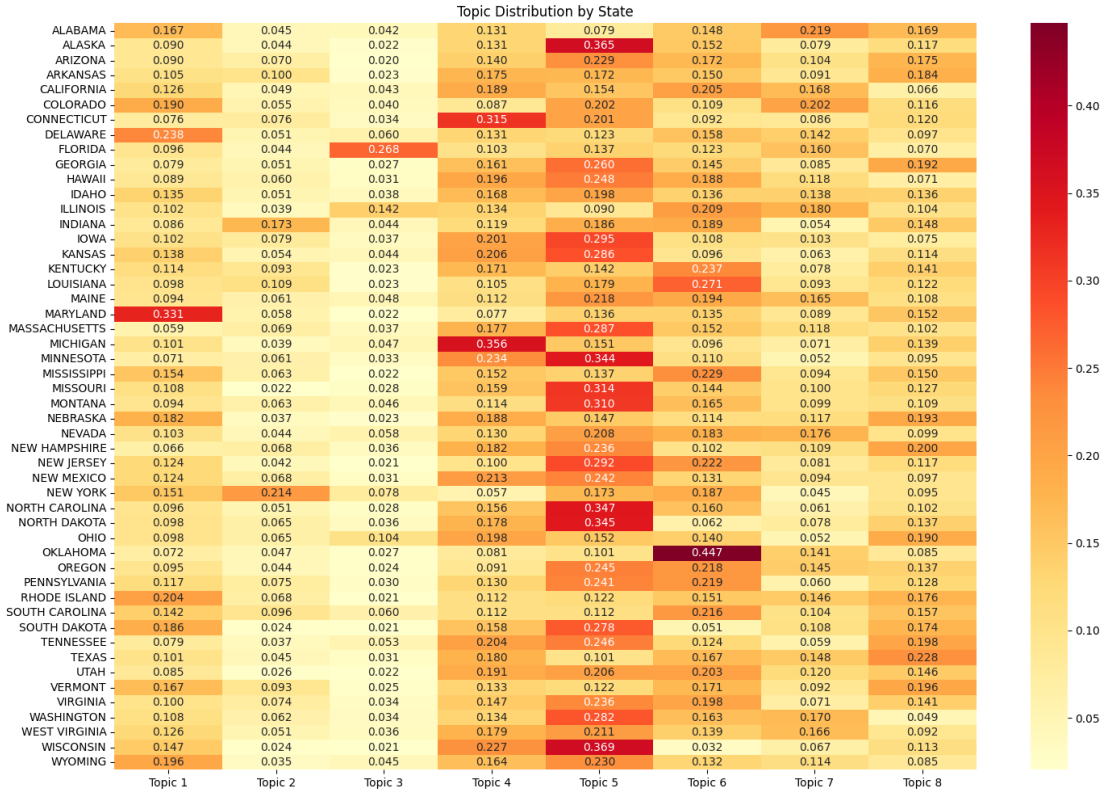

Figure 12: This heatmap visualizes the distribution of eight election-related topics across U.S. states. Darker colors indicate stronger topic representation, while lighter colors highlight weaker coverage. The gradient underscores variations in FAQ coverage across states, with rows representing states (postal abbreviations) and columns the identified topics on the generated answers

Table 24: LLM Abstractive Question Summary Analysis

State	Cosine_Similarity	ROUGE_1	ROUGE_2	ROUGE_L	ROUGE_W	ROUGE_S	ROUGE_SU	BLEU_Score	Semantic Overlap
AK	0.55	0.45	0.35	0.39	0.34	0.29	0.32	0.16	0.50
AL	0.67	0.54	0.44	0.48	0.41	0.36	0.39	0.22	0.61
AR	0.61	0.51	0.41	0.45	0.37	0.31	0.35	0.18	0.56
AZ	0.59	0.47	0.38	0.41	0.35	0.31	0.34	0.16	0.53
CA	0.60	0.50	0.39	0.42	0.35	0.31	0.34	0.17	0.55
CO	0.60	0.46	0.35	0.38	0.32	0.28	0.31	0.15	0.53
CT	0.56	0.48	0.37	0.41	0.36	0.30	0.33	0.19	0.52
DE	0.63	0.51	0.40	0.44	0.37	0.33	0.36	0.20	0.57
FL	0.65	0.53	0.44	0.48	0.42	0.39	0.42	0.24	0.59
GA	0.65	0.57	0.47	0.52	0.46	0.39	0.42	0.27	0.61
HI	0.64	0.52	0.43	0.47	0.41	0.36	0.38	0.23	0.58
IA	0.66	0.51	0.43	0.45	0.38	0.35	0.37	0.20	0.58
ID	0.58	0.49	0.38	0.42	0.36	0.30	0.33	0.19	0.53
IL	0.65	0.54	0.46	0.48	0.42	0.38	0.41	0.24	0.60
IN	0.58	0.50	0.40	0.45	0.38	0.33	0.36	0.19	0.54
KS	0.66	0.56	0.47	0.51	0.44	0.40	0.42	0.27	0.61
KY	0.61	0.48	0.39	0.42	0.37	0.31	0.34	0.18	0.54
LA	0.64	0.47	0.38	0.42	0.36	0.34	0.36	0.17	0.55
MA	0.58	0.47	0.35	0.39	0.33	0.27	0.31	0.16	0.52
MD	0.57	0.44	0.32	0.38	0.32	0.26	0.28	0.14	0.51
ME	0.67	0.56	0.46	0.50	0.44	0.39	0.42	0.26	0.62
MI	0.59	0.49	0.38	0.43	0.37	0.32	0.35	0.19	0.54
MN	0.54	0.44	0.31	0.36	0.30	0.24	0.28	0.14	0.49
MO	0.64	0.47	0.37	0.42	0.36	0.30	0.33	0.15	0.56
MS	0.63	0.52	0.42	0.45	0.38	0.34	0.37	0.20	0.57
MT	0.62	0.51	0.42	0.46	0.39	0.33	0.36	0.20	0.57
NC	0.61	0.50	0.39	0.44	0.38	0.32	0.35	0.20	0.55
ND	0.63	0.51	0.40	0.44	0.39	0.34	0.37	0.20	0.57
NE	0.60	0.49	0.40	0.44	0.37	0.32	0.35	0.18	0.54
NH	0.60	0.49	0.39	0.44	0.38	0.33	0.36	0.19	0.55
NJ	0.67	0.55	0.47	0.50	0.43	0.39	0.42	0.24	0.61
NM	0.64	0.56	0.47	0.51	0.45	0.40	0.42	0.27	0.60
NV	0.62	0.53	0.43	0.47	0.40	0.35	0.38	0.23	0.57
NY	0.63	0.53	0.43	0.47	0.41	0.36	0.39	0.23	0.58
OH	0.58	0.47	0.36	0.41	0.35	0.30	0.33	0.17	0.53
OK	0.58	0.50	0.38	0.43	0.36	0.30	0.34	0.18	0.54
OR	0.61	0.51	0.40	0.43	0.37	0.32	0.35	0.20	0.56
PA	0.65	0.51	0.40	0.44	0.37	0.31	0.34	0.19	0.58
RI	0.59	0.47	0.35	0.39	0.33	0.28	0.31	0.15	0.53
SC	0.55	0.48	0.36	0.41	0.37	0.31	0.34	0.21	0.51
SD	0.55	0.45	0.32	0.38	0.33	0.27	0.30	0.15	0.50
TN	0.60	0.53	0.43	0.47	0.41	0.36	0.39	0.24	0.57
TX	0.64	0.52	0.40	0.46	0.40	0.34	0.37	0.20	0.58
UT	0.65	0.54	0.45	0.48	0.41	0.37	0.40	0.22	0.59
VA	0.61	0.53	0.42	0.46	0.40	0.34	0.37	0.24	0.57
VT	0.65	0.52	0.44	0.47	0.40	0.35	0.38	0.21	0.59
WA	0.61	0.50	0.39	0.43	0.36	0.32	0.35	0.19	0.55
WI	0.60	0.51	0.40	0.45	0.39	0.34	0.37	0.21	0.55
WV	0.59	0.48	0.38	0.43	0.36	0.30	0.33	0.18	0.53
WY	0.58	0.53	0.42	0.46	0.40	0.34	0.37	0.23	0.56

Table 25: LLM Extractive Question Summary Analysis

State	Cosine_Similarity	ROUGE_1	ROUGE_2	ROUGE_L	ROUGE_W	ROUGE_S	ROUGE_SU	BLEU_Score	Semantic Overlap
AK	0.03	0.05	0.01	0.05	0.02	0.00	0.01	0.00	0.04
AL	0.07	0.07	0.02	0.06	0.05	0.01	0.02	0.01	0.07
AR	0.04	0.05	0.01	0.04	0.01	0.00	0.00	0.00	0.04
AZ	0.06	0.09	0.03	0.08	0.06	0.01	0.02	0.01	0.07
CA	0.08	0.11	0.03	0.09	0.06	0.01	0.03	0.01	0.10
CO	0.07	0.09	0.04	0.07	0.06	0.02	0.03	0.02	0.08
CT	0.04	0.05	0.01	0.05	0.03	0.00	0.01	0.00	0.04
DE	0.06	0.08	0.03	0.06	0.04	0.01	0.02	0.01	0.07
FL	0.04	0.07	0.02	0.06	0.04	0.01	0.02	0.01	0.06
GA	0.04	0.06	0.01	0.04	0.04	0.00	0.01	0.00	0.05
HI	0.04	0.06	0.02	0.05	0.03	0.00	0.01	0.00	0.05
IA	0.07	0.08	0.03	0.07	0.05	0.01	0.02	0.01	0.07
ID	0.06	0.08	0.02	0.07	0.05	0.01	0.02	0.01	0.07
IL	0.06	0.06	0.01	0.05	0.03	0.00	0.01	0.00	0.06
IN	0.03	0.04	0.01	0.04	0.02	0.00	0.01	0.00	0.04
KS	0.03	0.04	0.01	0.03	0.02	0.00	0.01	0.00	0.04
KY	0.08	0.12	0.03	0.09	0.07	0.01	0.03	0.01	0.10
LA	0.07	0.08	0.02	0.07	0.04	0.00	0.01	0.01	0.07
MA	0.04	0.06	0.01	0.05	0.03	0.00	0.01	0.00	0.05
MD	0.04	0.05	0.01	0.04	0.04	0.01	0.02	0.01	0.04
ME	0.03	0.04	0.01	0.03	0.02	0.00	0.01	0.00	0.04
MI	0.08	0.10	0.03	0.08	0.06	0.01	0.02	0.01	0.09
MN	0.05	0.07	0.03	0.06	0.04	0.01	0.02	0.01	0.06
MO	0.05	0.06	0.01	0.05	0.05	0.01	0.02	0.01	0.05
MS	0.04	0.05	0.01	0.04	0.04	0.00	0.01	0.00	0.05
MT	0.04	0.07	0.02	0.06	0.02	0.00	0.01	0.00	0.06
NC	0.08	0.10	0.02	0.08	0.05	0.01	0.02	0.01	0.09
ND	0.05	0.08	0.02	0.07	0.04	0.00	0.01	0.01	0.07
NE	0.06	0.08	0.03	0.08	0.04	0.00	0.01	0.01	0.07
NH	0.05	0.07	0.02	0.06	0.03	0.01	0.01	0.01	0.06
NJ	0.06	0.08	0.01	0.05	0.04	0.00	0.01	0.01	0.07
NM	0.06	0.07	0.03	0.07	0.05	0.01	0.02	0.01	0.07
NV	0.04	0.06	0.02	0.05	0.03	0.01	0.01	0.00	0.05
NY	0.04	0.06	0.01	0.05	0.03	0.00	0.01	0.00	0.05
OH	0.05	0.07	0.01	0.05	0.05	0.00	0.01	0.01	0.06
OK	0.05	0.07	0.02	0.06	0.05	0.01	0.02	0.01	0.06
OR	0.05	0.06	0.01	0.05	0.04	0.00	0.01	0.00	0.05
PA	0.05	0.08	0.01	0.06	0.05	0.00	0.02	0.01	0.06
RI	0.05	0.07	0.01	0.05	0.03	0.00	0.01	0.00	0.06
SC	0.05	0.09	0.01	0.07	0.04	0.00	0.02	0.01	0.07
SD	0.09	0.14	0.06	0.13	0.10	0.01	0.04	0.02	0.11
TN	0.03	0.04	0.01	0.03	0.02	0.00	0.01	0.00	0.03
TX	0.06	0.07	0.02	0.06	0.05	0.01	0.02	0.01	0.07
UT	0.04	0.08	0.01	0.06	0.03	0.00	0.01	0.00	0.06
VA	0.04	0.05	0.01	0.05	0.02	0.00	0.01	0.00	0.05
VT	0.05	0.08	0.03	0.06	0.03	0.00	0.02	0.01	0.06
WA	0.04	0.06	0.01	0.05	0.03	0.00	0.01	0.00	0.05
WI	0.04	0.05	0.02	0.04	0.03	0.01	0.01	0.00	0.04
WV	0.03	0.05	0.01	0.04	0.02	0.00	0.01	0.00	0.04
WY	0.02	0.03	0.00	0.03	0.02	0.00	0.01	0.00	0.02

Table 26: LLM Abstractive Answer Summary Analysis

State	Cosine_Similarity	ROUGE_1	ROUGE_2	ROUGE_L	ROUGE_W	ROUGE_S	ROUGE_SU	BLEU_Score	Semantic Overlap
AK	0.55	0.45	0.35	0.39	0.34	0.29	0.32	0.16	0.50
AL	0.67	0.54	0.44	0.48	0.41	0.36	0.39	0.22	0.61
AR	0.61	0.51	0.41	0.45	0.37	0.31	0.35	0.18	0.56
AZ	0.59	0.47	0.38	0.41	0.35	0.31	0.34	0.16	0.53
CA	0.60	0.50	0.39	0.42	0.35	0.31	0.34	0.17	0.55
CO	0.60	0.46	0.35	0.38	0.32	0.28	0.31	0.15	0.53
CT	0.56	0.48	0.37	0.41	0.36	0.30	0.33	0.19	0.52
DE	0.63	0.51	0.40	0.44	0.37	0.33	0.36	0.20	0.57
FL	0.65	0.53	0.44	0.48	0.42	0.39	0.42	0.24	0.59
GA	0.65	0.57	0.47	0.52	0.46	0.39	0.42	0.27	0.61
HI	0.64	0.52	0.43	0.47	0.41	0.36	0.38	0.23	0.58
IA	0.66	0.51	0.43	0.45	0.38	0.35	0.37	0.20	0.58
ID	0.58	0.49	0.38	0.42	0.36	0.30	0.33	0.19	0.53
IL	0.65	0.54	0.46	0.48	0.42	0.38	0.41	0.24	0.60
IN	0.58	0.50	0.40	0.45	0.38	0.33	0.36	0.19	0.54
KS	0.66	0.56	0.47	0.51	0.44	0.40	0.42	0.27	0.61
KY	0.61	0.48	0.39	0.42	0.37	0.31	0.34	0.18	0.54
LA	0.64	0.47	0.38	0.42	0.36	0.34	0.36	0.17	0.55
MA	0.58	0.47	0.35	0.39	0.33	0.27	0.31	0.16	0.52
MD	0.57	0.44	0.32	0.38	0.32	0.26	0.28	0.14	0.51
ME	0.67	0.56	0.46	0.50	0.44	0.39	0.42	0.26	0.62
MI	0.59	0.49	0.38	0.43	0.37	0.32	0.35	0.19	0.54
MN	0.54	0.44	0.31	0.36	0.30	0.24	0.28	0.14	0.49
MO	0.64	0.47	0.37	0.42	0.36	0.30	0.33	0.15	0.56
MS	0.63	0.52	0.42	0.45	0.38	0.34	0.37	0.20	0.57
MT	0.62	0.51	0.42	0.46	0.39	0.33	0.36	0.20	0.57
NC	0.61	0.50	0.39	0.44	0.38	0.32	0.35	0.20	0.55
ND	0.63	0.51	0.40	0.44	0.39	0.34	0.37	0.20	0.57
NE	0.60	0.49	0.40	0.44	0.37	0.32	0.35	0.18	0.54
NH	0.60	0.49	0.39	0.44	0.38	0.33	0.36	0.19	0.55
NJ	0.67	0.55	0.47	0.50	0.43	0.39	0.42	0.24	0.61
NM	0.64	0.56	0.47	0.51	0.45	0.40	0.42	0.27	0.60
NV	0.62	0.53	0.43	0.47	0.40	0.35	0.38	0.23	0.57
NY	0.63	0.53	0.43	0.47	0.41	0.36	0.39	0.23	0.58
OH	0.58	0.47	0.36	0.41	0.35	0.30	0.33	0.17	0.53
OK	0.58	0.50	0.38	0.43	0.36	0.30	0.34	0.18	0.54
OR	0.61	0.51	0.40	0.43	0.37	0.32	0.35	0.20	0.56
PA	0.65	0.51	0.40	0.44	0.37	0.31	0.34	0.19	0.58
RI	0.59	0.47	0.35	0.39	0.33	0.28	0.31	0.15	0.53
SC	0.55	0.48	0.36	0.41	0.37	0.31	0.34	0.21	0.51
SD	0.55	0.45	0.32	0.38	0.33	0.27	0.30	0.15	0.50
TN	0.60	0.53	0.43	0.47	0.41	0.36	0.39	0.24	0.57
TX	0.64	0.52	0.40	0.46	0.40	0.34	0.37	0.20	0.58
UT	0.65	0.54	0.45	0.48	0.41	0.37	0.40	0.22	0.59
VA	0.61	0.53	0.42	0.46	0.40	0.34	0.37	0.24	0.57
VT	0.65	0.52	0.44	0.47	0.40	0.35	0.38	0.21	0.59
WA	0.61	0.50	0.39	0.43	0.36	0.32	0.35	0.19	0.55
WI	0.60	0.51	0.40	0.45	0.39	0.34	0.37	0.21	0.55
WV	0.59	0.48	0.38	0.43	0.36	0.30	0.33	0.18	0.53
WY	0.58	0.53	0.42	0.46	0.40	0.34	0.37	0.23	0.56

Table 27: LLM Extractive Answer Summary Analysis

State	Cosine_Similarity	ROUGE_1	ROUGE_2	ROUGE_L	ROUGE_W	ROUGE_S	ROUGE_SU	BLEU_Score	Semantic Overlap
AK	0.16	0.08	0.06	0.07	0.06	0.06	0.06	0.00	0.12
AL	0.22	0.14	0.11	0.12	0.11	0.11	0.11	0.03	0.18
AR	0.13	0.09	0.06	0.08	0.07	0.07	0.07	0.04	0.11
AZ	0.15	0.07	0.06	0.07	0.05	0.05	0.06	0.00	0.11
CA	0.28	0.17	0.13	0.15	0.13	0.12	0.13	0.02	0.22
CO	0.26	0.15	0.11	0.13	0.11	0.10	0.11	0.02	0.20
CT	0.09	0.04	0.02	0.03	0.03	0.02	0.02	0.00	0.07
DE	0.18	0.11	0.08	0.10	0.08	0.07	0.08	0.02	0.14
FL	0.16	0.09	0.06	0.08	0.06	0.06	0.07	0.01	0.12
GA	0.09	0.05	0.03	0.04	0.03	0.02	0.03	0.00	0.07
HI	0.16	0.08	0.05	0.07	0.06	0.04	0.05	0.00	0.12
IA	0.19	0.09	0.06	0.08	0.06	0.06	0.07	0.01	0.14
ID	0.11	0.06	0.02	0.04	0.03	0.02	0.02	0.00	0.08
IL	0.20	0.13	0.10	0.11	0.10	0.09	0.10	0.04	0.17
IN	0.14	0.09	0.07	0.08	0.06	0.06	0.07	0.01	0.11
KS	0.13	0.07	0.05	0.06	0.05	0.05	0.06	0.01	0.10
KY	0.21	0.10	0.06	0.08	0.07	0.06	0.07	0.00	0.15
LA	0.31	0.19	0.15	0.17	0.16	0.15	0.16	0.07	0.25
MA	0.17	0.08	0.06	0.07	0.06	0.05	0.06	0.00	0.12
MD	0.16	0.08	0.04	0.06	0.05	0.04	0.05	0.00	0.12
ME	0.09	0.06	0.03	0.05	0.04	0.03	0.04	0.00	0.07
MI	0.22	0.15	0.10	0.13	0.11	0.10	0.11	0.04	0.18
MN	0.15	0.08	0.04	0.06	0.05	0.04	0.05	0.00	0.11
MO	0.20	0.11	0.08	0.10	0.08	0.07	0.09	0.00	0.16
MS	0.21	0.11	0.10	0.11	0.09	0.10	0.11	0.01	0.16
MT	0.13	0.06	0.04	0.05	0.04	0.04	0.04	0.00	0.09
NC	0.21	0.13	0.09	0.11	0.09	0.08	0.09	0.02	0.17
ND	0.20	0.10	0.07	0.09	0.07	0.06	0.07	0.00	0.15
NE	0.26	0.17	0.13	0.15	0.13	0.12	0.14	0.03	0.21
NH	0.16	0.09	0.06	0.08	0.07	0.06	0.06	0.02	0.12
NJ	0.20	0.11	0.07	0.09	0.07	0.06	0.07	0.02	0.15
NM	0.20	0.14	0.12	0.13	0.11	0.11	0.12	0.05	0.17
NV	0.15	0.10	0.07	0.08	0.07	0.07	0.07	0.02	0.12
NY	0.13	0.08	0.05	0.06	0.05	0.04	0.05	0.01	0.10
OH	0.17	0.10	0.06	0.08	0.07	0.05	0.06	0.02	0.14
OK	0.12	0.08	0.05	0.07	0.06	0.04	0.05	0.01	0.10
OR	0.15	0.09	0.05	0.07	0.06	0.04	0.05	0.01	0.12
PA	0.16	0.08	0.05	0.07	0.06	0.04	0.05	0.01	0.12
RI	0.21	0.13	0.09	0.11	0.09	0.09	0.10	0.01	0.17
SC	0.18	0.10	0.06	0.09	0.08	0.06	0.07	0.01	0.14
SD	0.17	0.09	0.04	0.07	0.06	0.03	0.05	0.00	0.13
TN	0.10	0.07	0.05	0.06	0.05	0.05	0.05	0.02	0.08
TX	0.22	0.12	0.09	0.10	0.09	0.09	0.09	0.02	0.17
UT	0.14	0.10	0.07	0.09	0.07	0.07	0.08	0.00	0.12
VA	0.15	0.10	0.07	0.08	0.07	0.06	0.07	0.02	0.13
VT	0.12	0.06	0.04	0.05	0.04	0.03	0.04	0.00	0.09
WA	0.13	0.07	0.04	0.06	0.05	0.04	0.05	0.00	0.10
WI	0.14	0.07	0.05	0.06	0.05	0.05	0.06	0.01	0.10
WV	0.10	0.04	0.03	0.04	0.03	0.03	0.03	0.00	0.07
WY	0.07	0.05	0.02	0.04	0.03	0.02	0.03	0.00	0.06

Table 28: LLM Abstractive Question + Answer Summary Analysis

State	Cosine_Similarity	ROUGE_1	ROUGE_2	ROUGE_L	ROUGE_W	ROUGE_S	ROUGE_SU	BLEU_Score	Semantic Overlap
AK	0.75	0.67	0.60	0.60	0.53	0.51	0.54	0.38	0.71
AL	0.84	0.72	0.69	0.70	0.61	0.57	0.60	0.43	0.78
AR	0.77	0.66	0.61	0.60	0.52	0.50	0.52	0.36	0.71
AZ	0.72	0.62	0.55	0.55	0.48	0.47	0.50	0.31	0.67
CA	0.78	0.66	0.61	0.63	0.55	0.52	0.55	0.34	0.72
CO	0.76	0.63	0.56	0.57	0.50	0.47	0.49	0.33	0.70
CT	0.74	0.65	0.59	0.59	0.52	0.50	0.53	0.37	0.70
DE	0.80	0.70	0.64	0.65	0.58	0.56	0.58	0.42	0.75
FL	0.79	0.69	0.64	0.66	0.58	0.56	0.58	0.43	0.74
GA	0.79	0.74	0.70	0.70	0.62	0.58	0.60	0.49	0.77
HI	0.80	0.73	0.67	0.68	0.60	0.56	0.59	0.47	0.76
IA	0.78	0.67	0.62	0.62	0.54	0.51	0.53	0.37	0.72
ID	0.77	0.72	0.66	0.65	0.57	0.54	0.56	0.45	0.75
IL	0.76	0.69	0.63	0.64	0.56	0.53	0.55	0.41	0.72
IN	0.76	0.68	0.62	0.62	0.55	0.52	0.55	0.40	0.72
KS	0.78	0.69	0.63	0.63	0.55	0.53	0.56	0.40	0.74
KY	0.76	0.65	0.59	0.61	0.53	0.50	0.53	0.36	0.71
LA	0.79	0.64	0.59	0.58	0.52	0.51	0.53	0.34	0.71
MA	0.75	0.65	0.58	0.57	0.50	0.47	0.50	0.35	0.70
MD	0.79	0.67	0.62	0.62	0.54	0.50	0.52	0.38	0.73
ME	0.77	0.68	0.62	0.61	0.53	0.51	0.53	0.40	0.72
MI	0.73	0.62	0.55	0.56	0.49	0.46	0.49	0.32	0.67
MN	0.77	0.66	0.59	0.61	0.53	0.48	0.51	0.36	0.71
MO	0.74	0.63	0.57	0.56	0.49	0.48	0.51	0.33	0.68
MS	0.79	0.68	0.63	0.64	0.56	0.53	0.55	0.39	0.74
MT	0.78	0.71	0.66	0.68	0.59	0.53	0.55	0.44	0.75
NC	0.76	0.64	0.58	0.58	0.51	0.48	0.51	0.34	0.70
ND	0.79	0.68	0.62	0.62	0.54	0.51	0.54	0.37	0.73
NE	0.78	0.68	0.63	0.63	0.55	0.50	0.53	0.37	0.73
NH	0.76	0.64	0.57	0.56	0.49	0.48	0.51	0.34	0.70
NJ	0.79	0.68	0.62	0.63	0.56	0.54	0.57	0.40	0.73
NM	0.77	0.70	0.65	0.66	0.59	0.55	0.57	0.44	0.73
NV	0.77	0.71	0.66	0.66	0.58	0.56	0.58	0.45	0.74
NY	0.78	0.68	0.62	0.62	0.54	0.52	0.54	0.39	0.73
OH	0.71	0.64	0.56	0.55	0.48	0.45	0.48	0.35	0.67
OK	0.77	0.68	0.63	0.63	0.56	0.53	0.56	0.39	0.72
OR	0.77	0.65	0.61	0.62	0.53	0.49	0.52	0.35	0.71
PA	0.78	0.69	0.64	0.65	0.56	0.52	0.55	0.40	0.74
RI	0.75	0.66	0.60	0.59	0.52	0.51	0.54	0.37	0.71
SC	0.76	0.68	0.62	0.62	0.56	0.54	0.56	0.41	0.72
SD	0.75	0.63	0.55	0.55	0.48	0.46	0.49	0.34	0.69
TN	0.78	0.70	0.65	0.65	0.58	0.56	0.58	0.43	0.74
TX	0.78	0.65	0.59	0.60	0.53	0.52	0.54	0.36	0.72
UT	0.76	0.69	0.62	0.64	0.55	0.51	0.53	0.39	0.72
VA	0.77	0.68	0.63	0.64	0.56	0.53	0.56	0.39	0.73
VT	0.73	0.66	0.58	0.59	0.52	0.49	0.51	0.39	0.69
WA	0.77	0.67	0.61	0.61	0.54	0.51	0.54	0.38	0.72
WI	0.77	0.70	0.64	0.64	0.56	0.53	0.55	0.41	0.74
WV	0.82	0.73	0.69	0.69	0.61	0.59	0.61	0.47	0.78
WY	0.79	0.72	0.67	0.66	0.59	0.57	0.59	0.45	0.75

Table 29: LLM Extractive Question + Answer Summary Analysis

State	Cosine_Similarity	ROUGE_1	ROUGE_2	ROUGE_L	ROUGE_W	ROUGE_S	ROUGE_SU	BLEU_Score	Semantic Overlap
AK	0.31	0.22	0.19	0.19	0.16	0.18	0.20	0.07	0.27
AL	0.31	0.22	0.20	0.21	0.19	0.20	0.21	0.08	0.26
AR	0.36	0.30	0.26	0.26	0.24	0.26	0.27	0.18	0.33
AZ	0.37	0.25	0.21	0.22	0.19	0.19	0.21	0.05	0.31
CA	0.45	0.31	0.28	0.28	0.25	0.28	0.30	0.09	0.38
CO	0.42	0.30	0.26	0.25	0.23	0.25	0.27	0.10	0.36
CT	0.38	0.28	0.24	0.24	0.22	0.23	0.24	0.10	0.33
DE	0.34	0.22	0.20	0.20	0.18	0.19	0.20	0.06	0.28
FL	0.31	0.23	0.21	0.20	0.18	0.21	0.22	0.09	0.27
GA	0.21	0.17	0.15	0.14	0.13	0.14	0.15	0.07	0.19
HI	0.27	0.19	0.16	0.16	0.14	0.15	0.16	0.05	0.23
IA	0.34	0.23	0.19	0.21	0.18	0.18	0.20	0.06	0.28
ID	0.13	0.09	0.07	0.08	0.07	0.06	0.07	0.01	0.11
IL	0.31	0.24	0.21	0.21	0.19	0.20	0.21	0.10	0.27
IN	0.30	0.22	0.19	0.20	0.19	0.19	0.20	0.07	0.26
KS	0.35	0.25	0.23	0.23	0.21	0.24	0.25	0.10	0.30
KY	0.31	0.22	0.18	0.19	0.17	0.18	0.19	0.08	0.26
LA	0.47	0.33	0.29	0.29	0.27	0.29	0.31	0.14	0.40
MA	0.38	0.25	0.21	0.21	0.18	0.19	0.21	0.06	0.31
MD	0.29	0.19	0.15	0.16	0.14	0.14	0.16	0.03	0.24
ME	0.30	0.22	0.20	0.21	0.18	0.19	0.20	0.08	0.26
MI	0.45	0.35	0.31	0.28	0.26	0.30	0.31	0.16	0.40
MN	0.32	0.21	0.17	0.19	0.17	0.17	0.18	0.04	0.26
MO	0.29	0.19	0.15	0.17	0.15	0.14	0.16	0.04	0.24
MS	0.39	0.29	0.25	0.25	0.23	0.24	0.26	0.12	0.34
MT	0.29	0.22	0.20	0.19	0.18	0.20	0.21	0.11	0.25
NC	0.43	0.32	0.29	0.29	0.27	0.28	0.29	0.15	0.37
ND	0.36	0.23	0.20	0.20	0.18	0.19	0.20	0.05	0.29
NE	0.37	0.25	0.23	0.23	0.21	0.23	0.25	0.10	0.31
NH	0.47	0.36	0.32	0.32	0.29	0.31	0.33	0.16	0.41
NJ	0.41	0.30	0.26	0.24	0.23	0.26	0.27	0.10	0.35
NM	0.33	0.25	0.22	0.23	0.20	0.22	0.23	0.09	0.29
NV	0.28	0.22	0.20	0.20	0.18	0.19	0.20	0.08	0.25
NY	0.37	0.28	0.24	0.24	0.22	0.24	0.25	0.11	0.33
OH	0.29	0.20	0.17	0.18	0.16	0.17	0.18	0.06	0.25
OK	0.28	0.20	0.18	0.17	0.15	0.17	0.18	0.05	0.24
OR	0.37	0.27	0.24	0.25	0.22	0.24	0.25	0.07	0.32
PA	0.26	0.18	0.15	0.16	0.14	0.14	0.15	0.03	0.22
RI	0.38	0.28	0.24	0.24	0.22	0.23	0.25	0.12	0.33
SC	0.33	0.24	0.21	0.22	0.21	0.21	0.22	0.08	0.28
SD	0.25	0.15	0.12	0.14	0.13	0.12	0.13	0.04	0.20
TN	0.23	0.18	0.16	0.15	0.13	0.14	0.15	0.07	0.20
TX	0.44	0.32	0.28	0.28	0.26	0.29	0.30	0.13	0.38
UT	0.21	0.15	0.12	0.12	0.11	0.11	0.12	0.03	0.18
VA	0.46	0.36	0.33	0.31	0.29	0.33	0.34	0.17	0.41
VT	0.21	0.14	0.10	0.11	0.10	0.09	0.10	0.02	0.17
WA	0.35	0.24	0.20	0.21	0.18	0.19	0.20	0.04	0.29
WI	0.41	0.29	0.27	0.27	0.25	0.27	0.28	0.10	0.35
WV	0.24	0.18	0.16	0.15	0.14	0.15	0.16	0.04	0.21
WY	0.34	0.26	0.22	0.24	0.21	0.21	0.23	0.10	0.30

Table 30: LLM Answer Topic Analysis

STATE	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6	Topic 7	Topic 8	Median	Average
AK	0.08	0.24	0.10	0.05	0.07	0.08	0.28	0.09	0.09	0.13
AL	0.09	0.17	0.22	0.07	0.08	0.09	0.13	0.14	0.11	0.13
AR	0.06	0.29	0.11	0.06	0.11	0.14	0.14	0.10	0.11	0.13
AZ	0.05	0.29	0.12	0.07	0.09	0.09	0.23	0.06	0.09	0.13
CA	0.05	0.31	0.16	0.06	0.11	0.09	0.13	0.09	0.10	0.13
CO	0.06	0.19	0.17	0.06	0.11	0.08	0.25	0.09	0.10	0.13
CT	0.12	0.30	0.10	0.05	0.09	0.11	0.13	0.09	0.11	0.13
DE	0.11	0.17	0.11	0.07	0.10	0.13	0.13	0.18	0.12	0.13
FL	0.07	0.16	0.17	0.04	0.08	0.23	0.18	0.07	0.12	0.13
GA	0.06	0.24	0.08	0.04	0.05	0.12	0.23	0.19	0.10	0.13
HI	0.07	0.28	0.11	0.05	0.09	0.09	0.23	0.07	0.09	0.13
IA	0.07	0.23	0.14	0.05	0.12	0.07	0.22	0.09	0.11	0.13
ID	0.07	0.24	0.09	0.07	0.06	0.06	0.22	0.20	0.08	0.13
IL	0.10	0.19	0.08	0.06	0.10	0.25	0.10	0.11	0.10	0.13
IN	0.07	0.21	0.10	0.05	0.10	0.08	0.33	0.06	0.09	0.13
KS	0.07	0.32	0.08	0.04	0.09	0.11	0.22	0.08	0.08	0.13
KY	0.10	0.27	0.15	0.05	0.11	0.11	0.14	0.07	0.11	0.13
LA	0.04	0.29	0.07	0.04	0.11	0.12	0.17	0.17	0.11	0.13
MA	0.09	0.28	0.10	0.05	0.07	0.06	0.25	0.09	0.09	0.13
MD	0.06	0.13	0.11	0.07	0.08	0.09	0.15	0.30	0.10	0.13
ME	0.10	0.18	0.06	0.08	0.08	0.10	0.20	0.19	0.10	0.13
MI	0.29	0.15	0.10	0.04	0.06	0.06	0.19	0.10	0.10	0.13
MN	0.08	0.29	0.10	0.06	0.07	0.10	0.24	0.06	0.09	0.13
MO	0.05	0.27	0.12	0.10	0.07	0.09	0.23	0.07	0.10	0.13
MS	0.05	0.24	0.08	0.09	0.15	0.12	0.20	0.07	0.10	0.13
MT	0.12	0.18	0.11	0.08	0.09	0.10	0.25	0.06	0.11	0.13
NC	0.07	0.27	0.08	0.04	0.14	0.07	0.23	0.08	0.08	0.13
ND	0.03	0.22	0.08	0.06	0.07	0.11	0.34	0.10	0.09	0.13
NE	0.09	0.19	0.11	0.09	0.09	0.12	0.20	0.11	0.11	0.13
NH	0.18	0.21	0.09	0.05	0.08	0.07	0.21	0.11	0.10	0.13
NJ	0.06	0.22	0.12	0.05	0.07	0.06	0.31	0.11	0.09	0.13
NM	0.09	0.25	0.11	0.05	0.10	0.10	0.20	0.11	0.10	0.13
NV	0.08	0.20	0.13	0.06	0.09	0.08	0.21	0.12	0.11	0.13
NY	0.06	0.16	0.09	0.06	0.11	0.06	0.25	0.22	0.10	0.13
OH	0.06	0.29	0.10	0.05	0.09	0.09	0.19	0.12	0.10	0.13
OK	0.04	0.39	0.16	0.07	0.08	0.06	0.14	0.07	0.07	0.13
OR	0.05	0.21	0.13	0.07	0.09	0.10	0.28	0.07	0.10	0.13
PA	0.04	0.31	0.07	0.05	0.08	0.07	0.28	0.10	0.07	0.13
RI	0.08	0.18	0.15	0.07	0.08	0.12	0.16	0.15	0.14	0.13
SC	0.06	0.24	0.12	0.05	0.12	0.15	0.14	0.13	0.13	0.13
SD	0.09	0.14	0.12	0.07	0.06	0.11	0.26	0.15	0.12	0.13
TN	0.05	0.26	0.08	0.05	0.05	0.09	0.24	0.17	0.08	0.13
TX	0.12	0.28	0.15	0.03	0.06	0.05	0.18	0.13	0.12	0.13
UT	0.15	0.26	0.09	0.06	0.07	0.09	0.21	0.08	0.09	0.13
VA	0.05	0.33	0.12	0.04	0.08	0.09	0.19	0.12	0.10	0.13
VT	0.06	0.25	0.07	0.08	0.11	0.11	0.15	0.17	0.11	0.13
WA	0.04	0.25	0.17	0.06	0.08	0.10	0.17	0.12	0.11	0.13
WI	0.07	0.22	0.07	0.06	0.10	0.06	0.33	0.09	0.08	0.13
WV	0.05	0.25	0.18	0.04	0.10	0.11	0.15	0.12	0.11	0.13
WY	0.06	0.23	0.17	0.07	0.10	0.10	0.21	0.06	0.10	0.13

Table 31: LLM Answer Topic Analysis Summary

Topic	Final Score	Prevalence	Coherence	Distinctiveness	Coverage	Top Terms
Topic 1	0.20	0.16	0.08	0.36	0.22	registration, michigan, vote, time, register
Topic 2	0.75	1.00	0.96	0.05	1.00	voter, registration, id, voter registration, vote
Topic 3	0.49	0.33	0.42	0.87	0.36	primary, party, states, questions, 2024
Topic 4	0.25	0.00	0.00	1.00	0.00	results, election, available, secretary, measures
Topic 5	0.34	0.18	0.16	0.74	0.27	00, overseas, 00 00, military, open
Topic 6	0.23	0.24	0.02	0.37	0.30	vote411, www vote411, www, vote411 org, elections
Topic 7	0.66	0.80	1.00	0.00	0.85	ballot, absentee, election, county, mail
Topic 8	0.24	0.31	0.12	0.16	0.37	poll, ballot, voting, worker, election

Table 32: LLM Question + Answer Topic Analysis

STATE	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6	Topic 7	Topic 8	Median	Average
AK	0.44	0.05	0.16	0.12	0.04	0.10	0.05	0.04	0.08	0.13
AL	0.20	0.09	0.30	0.11	0.04	0.12	0.08	0.05	0.10	0.13
AR	0.33	0.08	0.14	0.08	0.07	0.17	0.07	0.06	0.08	0.13
AZ	0.42	0.08	0.15	0.12	0.04	0.09	0.06	0.04	0.09	0.13
CA	0.38	0.07	0.27	0.07	0.04	0.07	0.07	0.03	0.07	0.13
CO	0.43	0.04	0.22	0.08	0.04	0.07	0.08	0.04	0.07	0.13
CT	0.37	0.07	0.14	0.18	0.04	0.12	0.05	0.02	0.10	0.13
DE	0.26	0.08	0.23	0.10	0.04	0.19	0.06	0.04	0.09	0.13
FL	0.24	0.07	0.45	0.05	0.05	0.07	0.04	0.04	0.06	0.13
GA	0.35	0.10	0.19	0.09	0.04	0.16	0.03	0.04	0.10	0.13
HI	0.44	0.08	0.14	0.10	0.04	0.10	0.06	0.03	0.09	0.13
IA	0.39	0.09	0.18	0.08	0.06	0.13	0.05	0.03	0.08	0.13
ID	0.31	0.10	0.21	0.14	0.03	0.10	0.06	0.04	0.10	0.13
IL	0.27	0.06	0.38	0.09	0.04	0.07	0.05	0.05	0.06	0.13
IN	0.50	0.06	0.11	0.11	0.04	0.08	0.06	0.03	0.07	0.13
KS	0.39	0.11	0.10	0.13	0.04	0.13	0.06	0.04	0.10	0.13
KY	0.33	0.13	0.19	0.10	0.08	0.09	0.06	0.04	0.09	0.13
LA	0.39	0.05	0.19	0.09	0.05	0.15	0.04	0.05	0.07	0.13
MA	0.48	0.12	0.13	0.07	0.04	0.08	0.06	0.03	0.07	0.13
MD	0.29	0.06	0.14	0.09	0.04	0.27	0.07	0.04	0.08	0.13
ME	0.36	0.06	0.24	0.08	0.04	0.10	0.09	0.04	0.08	0.13
MI	0.49	0.05	0.21	0.08	0.03	0.08	0.04	0.03	0.06	0.13
MN	0.48	0.06	0.11	0.09	0.04	0.14	0.05	0.03	0.07	0.13
MO	0.40	0.10	0.15	0.11	0.03	0.12	0.06	0.04	0.10	0.13
MS	0.31	0.08	0.16	0.16	0.05	0.11	0.08	0.05	0.09	0.13
MT	0.37	0.12	0.15	0.08	0.06	0.11	0.08	0.04	0.09	0.13
NC	0.51	0.06	0.10	0.08	0.06	0.12	0.03	0.03	0.07	0.13
ND	0.49	0.06	0.10	0.12	0.04	0.09	0.05	0.03	0.08	0.13
NE	0.34	0.05	0.24	0.10	0.02	0.12	0.07	0.07	0.08	0.13
NH	0.37	0.08	0.14	0.12	0.09	0.11	0.05	0.04	0.10	0.13
NJ	0.47	0.09	0.17	0.09	0.04	0.06	0.05	0.04	0.07	0.13
NM	0.38	0.08	0.19	0.10	0.05	0.11	0.04	0.05	0.09	0.13
NV	0.36	0.07	0.23	0.10	0.05	0.10	0.06	0.03	0.08	0.13
NY	0.46	0.07	0.18	0.07	0.05	0.10	0.05	0.03	0.07	0.13
OH	0.30	0.08	0.13	0.19	0.04	0.16	0.06	0.04	0.11	0.13
OK	0.46	0.08	0.22	0.08	0.03	0.05	0.04	0.03	0.07	0.13
OR	0.46	0.05	0.14	0.09	0.04	0.09	0.09	0.04	0.09	0.13
PA	0.43	0.10	0.12	0.10	0.04	0.12	0.06	0.03	0.10	0.13
RI	0.28	0.07	0.23	0.11	0.04	0.16	0.06	0.04	0.09	0.13
SC	0.28	0.07	0.25	0.12	0.04	0.11	0.09	0.03	0.10	0.13
SD	0.39	0.05	0.17	0.11	0.02	0.17	0.05	0.04	0.08	0.13
TN	0.39	0.04	0.20	0.15	0.03	0.09	0.05	0.05	0.07	0.13
TX	0.34	0.05	0.30	0.12	0.03	0.07	0.04	0.04	0.06	0.13
UT	0.35	0.15	0.15	0.09	0.02	0.13	0.05	0.05	0.11	0.13
VA	0.38	0.07	0.16	0.12	0.04	0.14	0.05	0.03	0.09	0.13
VT	0.28	0.07	0.14	0.17	0.05	0.15	0.08	0.07	0.11	0.13
WA	0.43	0.04	0.21	0.10	0.04	0.11	0.04	0.02	0.07	0.13
WI	0.43	0.04	0.12	0.15	0.05	0.10	0.06	0.05	0.08	0.13
WV	0.30	0.08	0.24	0.10	0.04	0.15	0.06	0.03	0.09	0.13
WY	0.35	0.04	0.26	0.10	0.04	0.11	0.06	0.04	0.08	0.13

Table 33: LLM Question + Answer Topic Analysis Summary

Topic	Final Score	Prevalence	Coherence	Distinctiveness	Coverage	Top Terms
Topic 1	0.75	1.00	1.00	0.00	1.00	ballot, election, absentee, county, voter
Topic 2	0.13	0.10	0.16	0.13	0.15	registration, voter registration, voter, regis...
Topic 3	0.39	0.47	0.34	0.21	0.52	party, primary, election, state, elections
Topic 4	0.33	0.18	0.20	0.67	0.25	id, identification, license, photo, card
Topic 5	0.27	0.02	0.04	1.00	0.03	overseas, military, military overseas, uniform...
Topic 6	0.19	0.21	0.11	0.19	0.25	voting, vote, ballot, felony, screen
Topic 7	0.21	0.05	0.03	0.70	0.06	results, election, vote411, official
Topic 8	0.25	0.00	0.00	1.00	0.00	time vote, employees, hours, time, employers

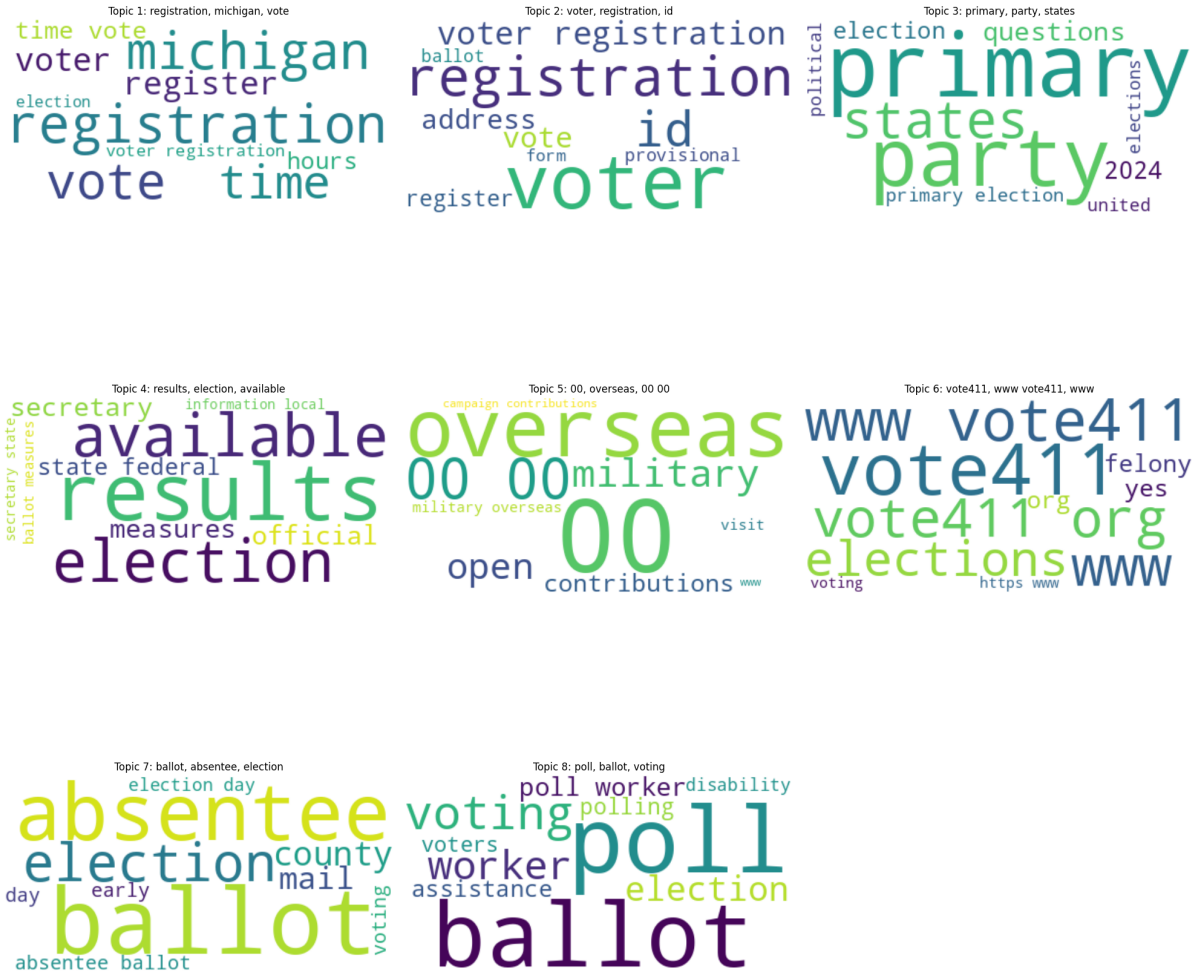

Figure 13: LLM Answer Topic Analysis Word Tag Cloud

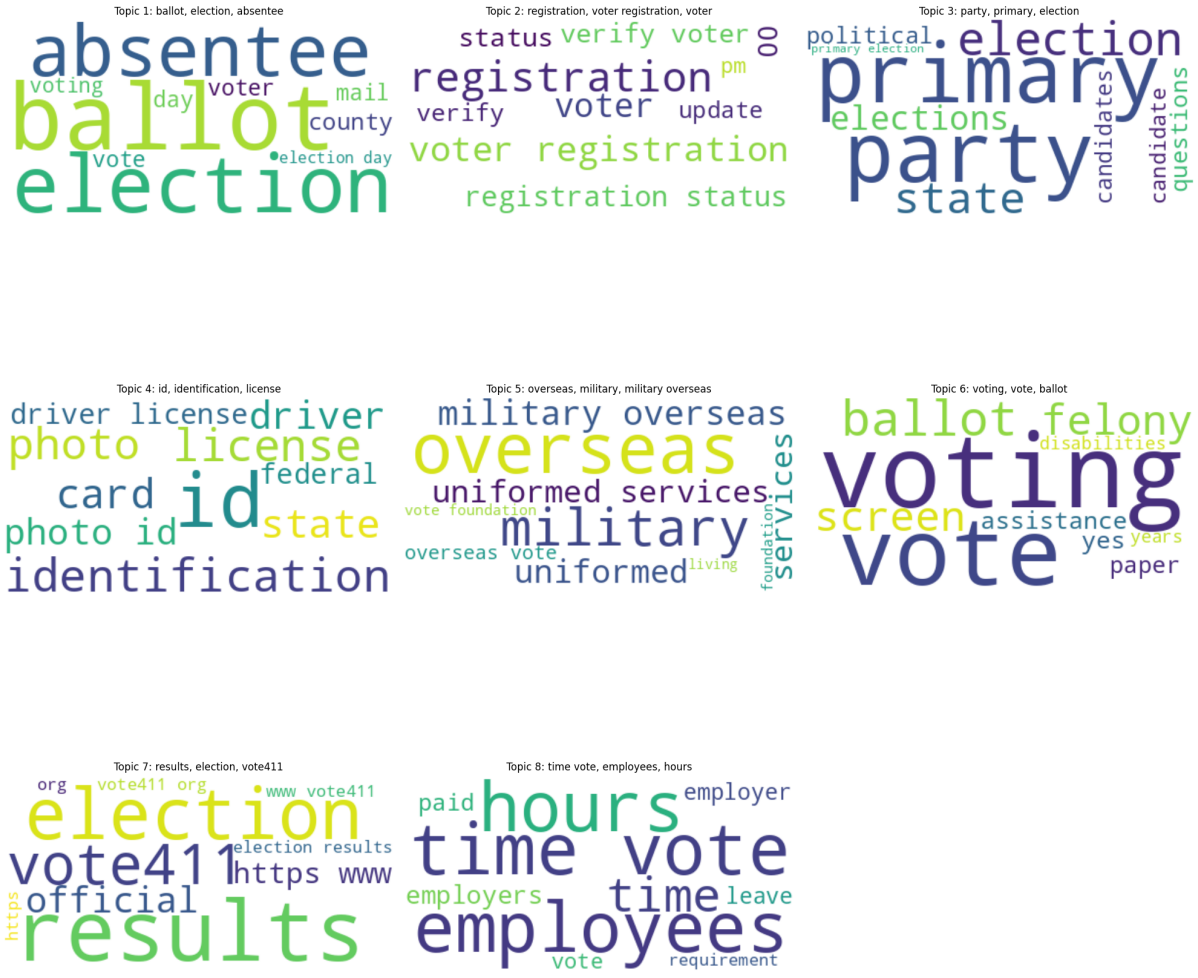

Figure 14: LLM Question + Answer Topic Analysis Word Tag Cloud

Table 34: LLM Answer Sentiment Analysis

State	Total Compound	Positive	Negative	Neutral	Positive %	Negative %	Neutral %	Average Sentiment Score
AK	3.63	23.00	16.00	16.00	41.82	29.09	29.09	0.07
AL	10.84	25.00	6.00	11.00	59.52	14.29	26.19	0.26
AR	2.31	12.00	5.00	5.00	54.55	22.73	22.73	0.11
AZ	13.28	24.00	5.00	6.00	68.57	14.29	17.14	0.38
CA	27.22	57.00	10.00	13.00	71.25	12.50	16.25	0.34
CO	13.71	30.00	7.00	8.00	66.67	15.56	17.78	0.31
CT	7.45	30.00	16.00	13.00	50.85	27.12	22.03	0.13
DE	28.80	59.00	18.00	27.00	56.73	17.31	25.96	0.28
FL	41.74	84.00	24.00	24.00	63.64	18.18	18.18	0.32
GA	4.33	30.00	30.00	19.00	37.97	37.97	24.05	0.06
HI	14.25	37.00	14.00	24.00	49.33	18.67	32.00	0.19
IA	8.09	30.00	17.00	11.00	51.72	29.31	18.97	0.14
ID	4.05	21.00	14.00	17.00	40.38	26.92	32.69	0.08
IL	24.48	60.00	11.00	19.00	66.67	12.22	21.11	0.27
IN	12.76	42.00	13.00	25.00	52.50	16.25	31.25	0.16
KS	8.36	27.00	8.00	10.00	60.00	17.78	22.22	0.19
KY	4.61	24.00	16.00	17.00	42.11	28.07	29.82	0.08
LA	10.91	56.00	39.00	19.00	49.12	34.21	16.67	0.10
MA	15.34	46.00	19.00	25.00	51.11	21.11	27.78	0.17
MD	12.37	25.00	9.00	11.00	55.56	20.00	24.44	0.28
ME	5.83	30.00	18.00	8.00	53.57	32.14	14.29	0.10
MI	20.26	87.00	46.00	24.00	55.41	29.30	15.29	0.13
MN	4.80	34.00	28.00	17.00	43.04	35.44	21.52	0.06
MO	6.75	29.00	9.00	5.00	67.44	20.93	11.63	0.16
MS	6.42	17.00	4.00	6.00	62.96	14.81	22.22	0.24
MT	1.02	18.00	15.00	17.00	36.00	30.00	34.00	0.02
NC	13.30	57.00	39.00	13.00	52.29	35.78	11.93	0.12
ND	9.29	30.00	13.00	7.00	60.00	26.00	14.00	0.19
NE	6.85	18.00	3.00	6.00	66.67	11.11	22.22	0.25
NH	4.89	27.00	18.00	10.00	49.09	32.73	18.18	0.09
NJ	12.93	33.00	10.00	12.00	60.00	18.18	21.82	0.24
NM	12.50	46.00	22.00	21.00	51.69	24.72	23.60	0.14
NV	21.51	60.00	29.00	29.00	50.85	24.58	24.58	0.18
NY	12.22	29.00	14.00	13.00	51.79	25.00	23.21	0.22
OH	7.05	23.00	13.00	16.00	44.23	25.00	30.77	0.14
OK	22.32	64.00	28.00	19.00	57.66	25.23	17.12	0.20
OR	7.12	21.00	10.00	10.00	51.22	24.39	24.39	0.17
PA	11.42	40.00	17.00	24.00	49.38	20.99	29.63	0.14
RI	11.02	26.00	7.00	6.00	66.67	17.95	15.38	0.28
SC	3.17	15.00	10.00	9.00	44.12	29.41	26.47	0.09
SD	4.21	17.00	7.00	2.00	65.38	26.92	7.69	0.16
TN	11.11	37.00	19.00	12.00	54.41	27.94	17.65	0.16
TX	34.05	66.00	11.00	16.00	70.97	11.83	17.20	0.37
UT	6.64	19.00	8.00	3.00	63.33	26.67	10.00	0.22
VA	8.95	36.00	20.00	12.00	52.94	29.41	17.65	0.13
VT	5.01	20.00	7.00	7.00	58.82	20.59	20.59	0.15
WA	15.93	43.00	18.00	12.00	58.90	24.66	16.44	0.22
WI	1.60	13.00	16.00	4.00	39.39	48.48	12.12	0.05
WV	12.78	39.00	17.00	18.00	52.70	22.97	24.32	0.17
WY	14.89	41.00	14.00	12.00	61.19	20.90	17.91	0.22

Table 35: LLM Question + Answer Sentiment Analysis

STATE	Total Compound	Positive	Negative	Neutral	Positive %	Negative %	Neutral %	Average Sentiment Score
AK	0.53	22.00	25.00	8.00	40.00	45.45	14.54	0.01
AL	11.14	27.00	7.00	8.00	64.29	16.67	19.05	0.27
AR	1.71	10.00	7.00	5.00	45.45	31.82	22.73	0.08
AZ	13.47	26.00	5.00	4.00	74.29	14.29	11.43	0.39
CA	26.86	55.00	12.00	13.00	68.75	15.00	16.25	0.34
CO	14.06	30.00	7.00	8.00	66.67	15.56	17.78	0.31
CT	6.14	28.00	18.00	13.00	47.46	30.51	22.03	0.10
DE	31.01	61.00	20.00	23.00	58.65	19.23	22.11	0.30
FL	41.48	90.00	26.00	16.00	68.18	19.70	12.12	0.31
GA	-0.68	31.00	31.00	17.00	39.24	39.24	21.52	-0.01
HI	13.36	37.00	15.00	23.00	49.33	20.00	30.67	0.18
IA	5.68	29.00	18.00	11.00	50.00	31.03	18.97	0.10
ID	2.51	22.00	14.00	16.00	42.31	26.92	30.77	0.05
IL	25.28	64.00	11.00	15.00	71.11	12.22	16.67	0.28
IN	12.17	42.00	17.00	21.00	52.50	21.25	26.25	0.15
KS	8.68	27.00	9.00	9.00	60.00	20.00	20.00	0.19
KY	5.24	26.00	16.00	15.00	45.61	28.07	26.32	0.09
LA	2.74	48.00	49.00	17.00	42.10	42.98	14.91	0.02
MA	15.63	46.00	19.00	25.00	51.11	21.11	27.78	0.17
MD	12.07	25.00	10.00	10.00	55.56	22.22	22.22	0.27
ME	4.45	28.00	20.00	8.00	50.00	35.71	14.29	0.08
MI	18.94	90.00	46.00	21.00	57.33	29.30	13.38	0.12
MN	3.59	34.00	29.00	16.00	43.04	36.71	20.25	0.05
MO	5.56	25.00	13.00	5.00	58.14	30.23	11.63	0.13
MS	6.21	17.00	6.00	4.00	62.96	22.22	14.81	0.23
MT	-1.76	17.00	18.00	15.00	34.00	36.00	30.00	-0.03
NC	10.81	57.00	42.00	10.00	52.29	38.53	9.17	0.10
ND	8.56	30.00	13.00	7.00	60.00	26.00	14.00	0.17
NE	7.20	19.00	3.00	5.00	70.37	11.11	18.52	0.27
NH	5.62	29.00	18.00	8.00	52.73	32.73	14.54	0.10
NJ	11.15	35.00	12.00	8.00	63.64	21.82	14.54	0.20
NM	11.74	49.00	24.00	16.00	55.06	26.97	17.98	0.13
NV	19.94	61.00	31.00	26.00	51.70	26.27	22.03	0.17
NY	13.70	31.00	12.00	13.00	55.36	21.43	23.21	0.25
OH	8.06	26.00	14.00	12.00	50.00	26.92	23.08	0.16
OK	21.86	66.00	30.00	15.00	59.46	27.03	13.51	0.20
OR	6.91	21.00	11.00	9.00	51.22	26.83	21.95	0.17
PA	7.60	41.00	25.00	15.00	50.62	30.86	18.52	0.09
RI	10.43	25.00	8.00	6.00	64.10	20.51	15.38	0.27
SC	3.65	16.00	10.00	8.00	47.06	29.41	23.53	0.11
SD	3.76	17.00	7.00	2.00	65.39	26.92	7.69	0.15
TN	11.26	39.00	21.00	8.00	57.35	30.88	11.77	0.17
TX	38.36	68.00	11.00	14.00	73.12	11.83	15.05	0.41
UT	6.82	19.00	8.00	3.00	63.33	26.67	10.00	0.23
VA	5.54	35.00	23.00	10.00	51.47	33.82	14.71	0.08
VT	5.71	20.00	7.00	7.00	58.82	20.59	20.59	0.17
WA	16.36	43.00	18.00	12.00	58.90	24.66	16.44	0.22
WI	-0.25	14.00	15.00	4.00	42.42	45.45	12.12	-0.01
WV	12.58	39.00	21.00	14.00	52.70	28.38	18.92	0.17
WY	13.94	40.00	16.00	11.00	59.70	23.88	16.42	0.21