Brock Pinagel

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MBA 6103 Statistics for Data Analytics and Visualization

26 May 2025

Assignment 3

Figure 1. Data Frame Summary

| **No** | **Variable** | **Stats / Values** | **Freqs (% of Valid)** | **Graph** | **Valid** | **Missing** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | SEX [factor] | |  | | --- | | 1. MALE | | 2. FEMALE | | |  |  |  |  | | --- | --- | --- | --- | | 1052 | ( | 44.8% | ) | | 1296 | ( | 55.2% | ) | |  | 2348 (100.0%) | 0 (0.0%) |
| 2 | PRES16 [factor] | |  | | --- | | 1. CLINTON | | 2. TRUMP | | |  |  |  |  | | --- | --- | --- | --- | | 764 | ( | 57.0% | ) | | 577 | ( | 43.0% | ) | |  | 1341 (57.1%) | 1007 (42.9%) |
| 3 | POLVIEWS [integer] | |  | | --- | | Mean (sd) : 4 (1.5) | | min ≤ med ≤ max: | | 1 ≤ 4 ≤ 7 | | IQR (CV) : 2 (0.4) | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 1 | : | 122 | ( | 5.4% | ) | | 2 | : | 278 | ( | 12.4% | ) | | 3 | : | 256 | ( | 11.4% | ) | | 4 | : | 855 | ( | 38.1% | ) | | 5 | : | 283 | ( | 12.6% | ) | | 6 | : | 354 | ( | 15.8% | ) | | 7 | : | 99 | ( | 4.4% | ) | |  | 2247 (95.7%) | 101 (4.3%) |
| 4 | NATENVIR [numeric] | |  | | --- | | Mean (sd) : 1.4 (0.6) | | min ≤ med ≤ max: | | 1 ≤ 1 ≤ 3 | | IQR (CV) : 1 (0.4) | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 1 | : | 790 | ( | 68.3% | ) | | 2 | : | 284 | ( | 24.5% | ) | | 3 | : | 83 | ( | 7.2% | ) | |  | 1157 (49.3%) | 1191 (50.7%) |
| 5 | NATARMS [numeric] | |  | | --- | | Mean (sd) : 1.9 (0.8) | | min ≤ med ≤ max: | | 1 ≤ 2 ≤ 3 | | IQR (CV) : 2 (0.4) | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 1 | : | 373 | ( | 32.7% | ) | | 2 | : | 465 | ( | 40.8% | ) | | 3 | : | 303 | ( | 26.6% | ) | |  | 1141 (48.6%) | 1207 (51.4%) |
| 6 | NATSCI [numeric] | |  | | --- | | Mean (sd) : 1.6 (0.6) | | min ≤ med ≤ max: | | 1 ≤ 2 ≤ 3 | | IQR (CV) : 1 (0.4) | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 1 | : | 986 | ( | 44.6% | ) | | 2 | : | 1026 | ( | 46.4% | ) | | 3 | : | 197 | ( | 8.9% | ) | |  | 2209 (94.1%) | 139 (5.9%) |
| 7 | NATENRGY [numeric] | |  | | --- | | Mean (sd) : 1.5 (0.6) | | min ≤ med ≤ max: | | 1 ≤ 1 ≤ 3 | | IQR (CV) : 1 (0.4) | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 1 | : | 1277 | ( | 57.2% | ) | | 2 | : | 788 | ( | 35.3% | ) | | 3 | : | 169 | ( | 7.6% | ) | |  | 2234 (95.1%) | 114 (4.9%) |

Table 1. Descriptive Statistics of the Study Variables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Study Variables | N.Valid | Mean | Std.Dev | Skewness | Kurtosis |
| NATARMS | 1141 | 1.94 | 0.77 | 0.10 | -1.30 |
| NATENRGY | 2234 | 1.50 | 0.63 | 0.88 | -0.29 |
| NATENVIR | 1157 | 1.39 | 0.62 | 1.34 | 0.66 |
| NATSCI | 2209 | 1.64 | 0.64 | 0.48 | -0.68 |
| POLVIEWS | 2247 | 4.05 | 1.50 | -0.10 | -0.48 |

Table 2. Descriptive Statistics of the Study Variables x PRES16

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | variable | PRES16 | n.valid | mean | sd |
| 1 | NATENRGY | CLINTON | 735 | 1.37 | 0.57 |
| 2 | NATENRGY | TRUMP | 559 | 1.69 | 0.71 |
| 3 | NATSCI | CLINTON | 728 | 1.51 | 0.60 |
| 4 | NATSCI | TRUMP | 540 | 1.73 | 0.64 |
| 5 | POLVIEWS | CLINTON | 743 | 3.30 | 1.33 |
| 6 | POLVIEWS | TRUMP | 565 | 5.17 | 1.25 |

Table 3. Descriptive Statistics of the Study Variables x SEX & PRES16

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | variable | SEX | PRES16 | n.valid | | mean | sd |
| 1 | NATENRGY | MALE | CLINTON | 303 | 1.29 | | 0.52 |
| 2 | NATENRGY | MALE | TRUMP | 305 | 1.73 | | 0.73 |
| 3 | NATENRGY | FEMALE | CLINTON | 432 | 1.42 | | 0.60 |
| 4 | NATENRGY | FEMALE | TRUMP | 254 | 1.64 | | 0.67 |
| 5 | NATSCI | MALE | CLINTON | 298 | 1.47 | | 0.60 |
| 6 | NATSCI | MALE | TRUMP | 291 | 1.75 | | 0.64 |
| 7 | NATSCI | FEMALE | CLINTON | 430 | 1.54 | | 0.60 |
| 8 | NATSCI | FEMALE | TRUMP | 249 | 1.70 | | 0.64 |
| 9 | POLVIEWS | MALE | CLINTON | 300 | 3.14 | | 1.27 |
| 10 | POLVIEWS | MALE | TRUMP | 300 | 5.14 | | 1.30 |
| 11 | POLVIEWS | FEMALE | CLINTON | 443 | 3.41 | | 1.36 |
| 12 | POLVIEWS | FEMALE | TRUMP | 265 | 5.21 | | 1.20 |

To: Dr. Colin M. Wasiloff

From: Brock Pinagel

Date: 5/26/2025

Subject: Analysis of Descriptive Statistics of NATENRGY, NATSCI, POLVIEWS x PRES16

Dr. Colin M. Wasiloff,

As Shown in Table 2, respondents who voted for Clinton reported support for alternative energy is leaning towards too little (mean = 1.37), whereas respondents who voted for Trump reported support for alternative energy is leaning towards about right (mean = 1.69). Both respondents who voted for Clinton and Trump reported support for scientific research is leaning towards about right (mean = 1.51, 1.73). Respondents who voted for Clinton reported thinking of themselves as slightly liberal (mean = 3.30), whereas respondents who voted for Trump reported thinking of themselves as slightly conservative (mean = 5.17).