# APPENDIX TEXT

## Policy categories in the Public Health Protective Policy Index (PPI)

The closures of air, sea, and land borders, the numerical size limits of social gatherings, the closures of schools, entertainment venues, restaurants, non-essential businesses, government offices, and public transportation, the declarations of state of emergencies, the working from home requirement for businesses/organizations, personal mobility restrictions, self-isolation and quarantine requirements, and the requirements to wear face coverings.

## The model used for capturing the relationship between PPI and the number of new cases

Model specification

This model is roughly based on the Susceptible-Infected-Removed model.

$$I_{j,(t+1)}^{new} = \sigma\kappa_{j,t} \frac{S_{j,t}}{N} I_{j,t}$$

Informally, the number of new infections depends on the number of current active infections and the number of susceptible individuals. Each currently infected person has, on average, $\kappa_{j,t}$ encounters with other people. Among those encounters, $S_{j,t}/N$ are with the susceptible individuals. In $\sigma$ of encounters with susceptible individuals, the susceptible individuals become infected.

The new infections at time $(t+1)$ in state $j$ can be captured by the number of new cases in that period multiplied by the state-specific underreporting factor $\mu_j$ , $(\mu_j\, C_{j,(t+1)}^{new})$.

We parameterize the combination of $\delta$ and $\kappa_{j,t}$ using PPI and the state-level covariates, $(\delta\kappa)_{tj} = \exp(X_{tj}\beta)$.

We parameterize $\mu_j$ using the ratio of the count of COVID-19 tests that turned negative to the population and the number of residents per active physician in the state, $\mu_j = exp\{U_j\delta + \epsilon_j\}$.

The fraction of the susceptible individuals in the society declines with the number of those infected, recovered, and diseased: We capture it using $(1 - \frac{\mu_j C_{j,t}}{N})$, where $C_{j,t}$ is the observed cumulative number of cases and $\mu$ is the underreporting factor.

Finally, we capture $I_{j,t}$ as sum of the lagged values of new cases in the state weighted by $\mu_j e^{-\gamma(t-T)}$, where $T$ is the timestamp of the lagged value and $\gamma$ is the rate-of-decay parameter. We add the unknown number of imported cases to the estimate of active infections.

We treat the number of new cases as a random variable that follows a negative binomial distribution and has the mean of

$$\ln\left(\mathrm{E}\left[\mu_j C_{j,(t+1)}^{new}\right]\right) = \ln\left(1 - \frac{\mu_j C_{j,t}}{N}\right) + X_{j.t}\beta + \ln(\mu_j(\xi + G_{j,t}\omega))$$

and the dispersion parameter $r$. Here, $\mu_j\xi$ represents imported cases and is also used to prevent the number of active cases reaching zero – in such a case, $\ln(\xi + G_{j,t}\omega)$ would be undefined.

Subtracting $\ln(\mu_j)$ from both sides we obtain

$$\ln\left(\mathrm{E}\left[C_{j,(t+1)}^{new}\right]\right) = \ln\left(1 - \frac{\mu_j C_{j,t}}{N}\right) + X_{j.t}\beta + \ln(\xi + G_{j,t}\omega)$$

Here, $\omega_l = e^{-\gamma l}$ and $G_{j,t}$ is a matrix with lagged values of new cases, with $l$ running from 0 to 21, and $\mu_j = exp\{U_j\delta + \epsilon_j\}$.

The prior distributions are as follows:

$$(\beta, \delta) \sim MVN(0, \Omega^{-1})$$

$$\Omega \sim \text{invWishart}(0.1\text{I}, 15)$$

$$\xi \sim Gamma(0.01, 0.01)$$

$$\omega \sim Gamma(0.01, 0.01)$$

$$\epsilon \sim Normal(0, \tau^{-1})$$

$$\tau \sim Gamma(0.01, 0.01)$$

$$r \sim Gamma(0.01, 0.01)$$

The state-level control variables, included in $X$, are listed below:

| Variable | Coefficient | Source |
|---|---|---|
| Rural population | beta[3] | University of Wisconsin Population Health Institute. County Health Rankings and Roadmaps. 2020 County Health Rankings. https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation |
| Share of population that is Hispanic | beta[4] | University of Wisconsin Population Health Institute. County Health Rankings and Roadmaps. 2020 County Health Rankings. https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation |
| Share of population that is Black | beta[5] | University of Wisconsin Population Health Institute. County Health Rankings and Roadmaps. 2020 County Health Rankings. https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation |
| Share of population over age 65 years | beta[6] | University of Wisconsin Population Health Institute. County Health Rankings and Roadmaps. 2020 County Health Rankings. https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation |

| | | |
|---|---|---|
| Prevalence of obesity | beta[7] | University of Wisconsin Population Health Institute. County Health Rankings and Roadmaps. 2020 County Health Rankings. https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation |
| Prevalence of smoking | beta[8] | University of Wisconsin Population Health Institute. County Health Rankings and Roadmaps. 2020 County Health Rankings. https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation |
| Prevalence of asthma | beta[9] | Centers for Disease Control and Prevention. U.S. Chronic Disease Indicators (CDI). https://chronicdata.cdc.gov/Chronic-Disease-Indicators/U-S-Chronic-Disease-Indicators-CDI-/g4ie-h725 |
| Share of heart disease deaths | beta[10] | Centers for Disease Control and Prevention. U.S. Chronic Disease Indicators (CDI). https://chronicdata.cdc.gov/Chronic-Disease-Indicators/U-S-Chronic-Disease-Indicators-CDI-/g4ie-h725 |
| Number of active physicians per 100,000 | beta[11] | Centers for Disease Control and Prevention. Table 83. Active physicians and physicians in patient care, by state: United States, selected years 1975–2015. https://www.cdc.gov/nchs/data/hus/2017/083.pdf |
| Population density | beta[12] | United States Census Bureau. Population. https://www2.census.gov/programs-surveys/popest/datasets/2010-2019/state/detail/ |
| Share of population below the poverty line | beta[13] | United States Census Bureau. SAIPE State and County Estimates for 2019. https://www.census.gov/data/datasets/2019/demo/saipe/2019-state-and-county.html |

The determinants of the underreporting are as follows:

| **Variable** | **Coefficient** | **Source** |
|---|---|---|
| Negative tests from May to November per capita | delta[2] | COVID-19 diagnostic laboratory testing (PCR testing) time series. HealthData.gov. https://healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb |
| Number of people per physician | delta[3] | University of Wisconsin Population Health Institute. County Health Rankings and Roadmaps. 2020 County Health Rankings. https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation |

Estimates

All covariates, except PPI, were centered and scaled before the inclusion in the analysis.

Below are the estimates (posterior means with 95% central posterior intervals) for the full and reduced models. In addition to the intermediate models and the full model, it includes the estimates that employ 7 and 14 days lags for the PPI values.

| Parameter | 1 | 2 | 3 | 4 | Full model main (PPI values have a 3-day lag) | Full model (7-day lag) | Full model (14-day lag) |
|---|---|---|---|---|---|---|---|
| beta[1] (Constant) | −0.91 (−0.971, −0.850) | −0.968 (−1.028, −0.911) | −0.938 (−1.001, −0.880) | −0.888 (−0.944, −0.828) | −0.825 (−0.890, −0.761) | −0.832 (−0.888, −0.773) | −0.913 (−0.967, −0.861) |
| beta[2] (PPI) | −0.67 (−0.757, −0.583) | −0.606 (−0.692, −0.517) | −0.655 (−0.750, −0.560) | −0.716 (−0.806, −0.630) | −0.839 (−0.939, −0.736) | −0.955 (−1.051, −0.856) | −0.987 (−1.074, −0.901) |
| beta[3] (Rural population) | | | −0.034 (−0.059, −0.008) | −0.038 (−0.065, −0.011) | −0.043 (−0.073, −0.015) | −0.046 (−0.074, −0.019) | −0.046 (−0.075, −0.018) |
| beta[4] (Share of Hispanic) | | | −0.005 (−0.032, 0.022) | −0.015 (−0.046, 0.014) | −0.013 (−0.047, 0.019) | −0.015 (−0.049, 0.015) | −0.017 (−0.050, 0.015) |
| beta[5] (Share of Blacks) | | | 0.015 (−0.005, 0.035) | 0.01 (−0.011, 0.032) | 0.024 (−0.002, 0.050) | 0.022 (−0.002, 0.049) | 0.019 (−0.007, 0.045) |
| beta[6] (Population over 65) | | | 0.008 (−0.012, 0.028) | 0.006 (−0.013, 0.026) | 0.009 (−0.013, 0.034) | 0.013 (−0.010, 0.037) | 0.013 (−0.009, 0.036) |
| beta[7] (Prevalence of obesity) | | | 0.021 (−0.008, 0.050) | 0.025 (−0.004, 0.054) | 0.026 (−0.007, 0.058) | 0.028 (−0.005, 0.061) | 0.026 (−0.006, 0.058) |
| beta[8] (Prevalence of smoking) | | | −0.005 (−0.038, 0.023) | −0.014 (−0.045, 0.018) | −0.02 (−0.054, 0.014) | −0.019 (−0.055, 0.016) | −0.015 (−0.048, 0.020) |
| beta[9] (Prevalence of asthma) | | | 0.016 (−0.003, 0.034) | 0.005 (−0.013, 0.024) | 0.012 (−0.009, 0.035) | 0.015 (−0.006, 0.037) | 0.015 (−0.007, 0.036) |
| beta[10] (Heart disease deaths) | | | −0.019 | −0.018 | −0.025 | −0.033 | −0.036 |

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|---|---|---|---|---|---|---|---|
| | | | (−0.049, 0.011) | (−0.045, 0.011) | (−0.062, 0.011) | (−0.069, 0.000) | (−0.069, −0.002) |
| beta[11] (Number of active physicians per 100,000) | | | 0.032 (0.011, 0.054) | 0.03 (0.007, 0.053) | 0.052 (0.021, 0.082) | 0.054 (0.024, 0.084) | 0.049 (0.020, 0.078) |
| beta[12] (Population density) | | | −0.013 (−0.037, 0.009) | −0.006 (−0.030, 0.015) | −0.016 (−0.045, 0.015) | −0.016 (−0.045, 0.013) | −0.016 (−0.044, 0.014) |
| beta[13] (Below the poverty line) | | | 0.017 (−0.012, 0.047) | 0.028 (−0.003, 0.060) | 0.036 (−0.001, 0.074) | 0.042 (0.007, 0.081) | 0.042 (0.007, 0.079) |
| gamma (removal rate) | 0.259 (0.246, 0.272) | 0.269 (0.254, 0.282) | 0.27 (0.256, 0.284) | 0.258 (0.243, 0.272) | 0.254 (0.240, 0.269) | 0.237 (0.223, 0.251) | 0.215 (0.202, 0.229) |
| mu (underreporting) | 4.585 (3.821, 5.291) | Fixed at 1 | Fixed at 1 | 4.725 (4.009, 5.423) | Varies by state | Varies by state | Varies by state |
| delta[1] (underrep: Constant) | | | | | 0.36 (0.035, 0.565) | 0.28 (−0.089, 0.529) | 0.122 (−0.335, 0.440) |
| delta[2] (underrep: Negative tests per capita) | | | | | −0.16 (−0.498, 0.070) | −0.188 (−0.552, 0.119) | −0.188 (−0.633, 0.191) |
| delta[3] (underreporting: Population per physician) | | | | | −0.102 (−0.335, 0.142) | −0.092 (−0.413, 0.198) | −0.045 (−0.492, 0.341) |
| r | 1.783 (1.737, 1.828) | 1.775 (1.730, 1.821) | 1.777 (1.733, 1.822) | 1.786 (1.743, 1.830) | 1.796 (1.750, 1.841) | 1.812 (1.766, 1.857) | 1.828 (1.782, 1.875) |
| xi | 1.282 (1.024, 1.569) | 1.52 (1.227, 1.851) | 1.472 (1.193, 1.795) | 1.264 (1.007, 1.545) | 1.118 (0.886, 1.376) | 1.054 (0.834, 1.303) | 1.172 (0.937, 1.432) |

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|---|---|---|---|---|---|---|---|
| DIC | 181,626.6 | 181,700.1 | 181,687.0 | 181,609.7 | 181,598.0 | 181,465.4 | 181,354.5 |

Estimates of the state-specific underreporting parameters ($\mu_j$):

| State | mu (mean) | mu (95% central posterior interval) | Negative tests per capita | Population/doctors |
|---|---|---|---|---|
| AK | 2.566 | (0.440, 6.107) | 1.44 | 1,112.28 |
| AL | 4.344 | (1.522, 7.262) | 0.46 | 1,529.34 |
| AR | 5.199 | (2.019, 8.224) | 0.48 | 1,503.90 |
| AZ | 8.133 | (5.464, 9.548) | 0.40 | 1,535.46 |
| CA | 7.711 | (2.710, 12.682) | 0.50 | 1,274.31 |
| CO | 4.57 | (1.083, 9.095) | 0.48 | 1,233.97 |
| CT | 4.713 | (0.929, 9.701) | 1.04 | 1,180.35 |
| DE | 1.991 | (0.404, 4.413) | 0.83 | 1,400.10 |
| FL | 5.387 | (2.180, 8.445) | 0.56 | 1,386.64 |
| GA | 5.697 | (2.468, 8.878) | 0.35 | 1,521.15 |
| HI | 6.357 | (1.063, 15.506) | 0.43 | 1,132.88 |
| IA | 4.711 | (2.008, 7.185) | 0.59 | 1,390.72 |
| ID | 6.191 | (2.933, 9.168) | 0.36 | 1,547.00 |
| IL | 3.486 | (0.975, 6.413) | 0.67 | 1,233.53 |
| IN | 3.459 | (0.841, 6.867) | 0.59 | 1,495.28 |
| KS | 2.04 | (0.468, 4.216) | 0.44 | 1,313.14 |
| KY | 2.5 | (0.538, 5.368) | 0.40 | 1,520.55 |
| LA | 5.034 | (2.057, 7.965) | 0.70 | 1,502.94 |
| MA | 11.655 | (5.964, 16.329) | 1.16 | 962.52 |
| MD | 11.131 | (5.763, 15.695) | 0.71 | 1,139.69 |
| ME | 8.642 | (1.165, 21.078) | 0.62 | 890.62 |
| MI | 2.874 | (0.600, 6.221) | 0.63 | 1,261.06 |
| MN | 1.837 | (0.381, 4.024) | 0.85 | 1,121.71 |
| MO | 6.855 | (3.135, 10.206) | 0.46 | 1,416.65 |
| MS | 6.411 | (2.890, 9.597) | 0.23 | 1,895.20 |
| MT | 3.676 | (0.970, 7.028) | 0.47 | 1,348.67 |
| NC | 9.551 | (4.640, 14.009) | 0.43 | 1,420.92 |
| ND | 4.359 | (2.342, 5.922) | 1.29 | 1,315.89 |
| NE | 5.635 | (2.743, 8.189) | 0.50 | 1,323.47 |
| NH | 7.703 | (1.265, 18.804) | 0.58 | 1,101.32 |
| NJ | 3.461 | (0.775, 7.036) | 0.63 | 1,191.80 |
| NM | 2.843 | (0.588, 6.074) | 0.51 | 1,343.46 |
| NV | 4.338 | (1.258, 7.929) | 0.50 | 1,761.57 |
| NY | 6.433 | (2.360, 10.692) | 0.88 | 1,199.59 |
| OH | 9.229 | (5.237, 11.018) | 0.48 | 1,304.40 |
| OK | 4.902 | (1.740, 8.191) | 0.26 | 1,589.13 |
| OR | 7.733 | (1.333, 17.511) | 0.35 | 1,081.78 |
| PA | 12.005 | (4.890, 18.452) | 0.44 | 1,234.36 |
| RI | 4.757 | (1.271, 8.243) | 1.20 | 1,036.73 |
| SC | 3.789 | (1.093, 6.951) | 0.41 | 1,489.38 |

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|---|---|---|---|---|
| SD | 2.629 | (0.834, 4.560) | 0.41 | 1,319.29 |
| TN | 2.832 | (0.750, 5.411) | 0.52 | 1,385.09 |
| TX | 6.45 | (2.497, 10.189) | 0.36 | 1,657.01 |
| UT | 2.45 | (0.573, 5.129) | 0.56 | 1,769.85 |
| VA | 8.731 | (3.339, 14.238) | 0.38 | 1,309.64 |
| VT | 4.976 | (0.712, 12.655) | 0.89 | 883.44 |
| WA | 9.007 | (2.274, 16.210) | 0.29 | 1,217.51 |
| WI | 2.314 | (0.528, 4.524) | 0.78 | 1,252.43 |
| WV | 3.114 | (0.613, 7.358) | 0.64 | 1,268.95 |
| WY | 4.297 | (1.131, 8.139) | 0.67 | 1,474.81 |

**The model used for capturing the average PPI among the states with Republican and Democratic governors**

Model specification:

$$y_{tj} = A_t\beta_{p(j)} + A_t b_j + \epsilon_{tj}$$

$$\beta_k \sim MVN\left(0, \Omega_{\beta}^{-1}\right)$$

$$\Omega_{\beta} \sim \text{invWishart}(0.1\text{I}, 15)$$

$$b_j \sim MVN(0, \Omega_{\text{b}}^{-1})$$

$$\Omega_{\text{b}} \sim \text{invWishart}(0.1\text{I}, 15)$$

$$\epsilon_{tj} \sim N(0, \tau^{-1})$$

$$\tau \sim Gamma(0.001, 0.001)$$

$A_t$ is a natural spline basis with an embedded intercept. The knots are spaced 14 days apart.

$\beta_{p(j)}$ is a vector of coefficients specific to the party of the state's governor.

$b_j$ is a vector of coefficients specific to a state.

Estimates:

| Parameter | Posterior mean | 95% central posterior interval | | Gelman–Rubin statistic |
|---|---|---|---|---|
| beta.D[1] | 0.12 | 0.11 | 0.13 | 1.00 |
| beta.D[2] | 0.73 | 0.73 | 0.74 | 1.00 |
| beta.D[3] | 0.63 | 0.62 | 0.64 | 1.00 |
| beta.D[4] | 0.69 | 0.69 | 0.70 | 1.00 |
| beta.D[5] | 0.68 | 0.67 | 0.69 | 1.00 |
| beta.D[6] | 0.66 | 0.66 | 0.67 | 1.00 |
| beta.D[7] | 0.59 | 0.59 | 0.60 | 1.00 |
| beta.D[8] | 0.57 | 0.56 | 0.57 | 1.00 |
| beta.D[9] | 0.59 | 0.58 | 0.60 | 1.00 |
| beta.D[10] | 0.60 | 0.59 | 0.60 | 1.00 |
| beta.D[11] | 0.58 | 0.58 | 0.59 | 1.00 |
| beta.D[12] | 0.59 | 0.58 | 0.60 | 1.00 |
| beta.D[13] | 0.60 | 0.59 | 0.61 | 1.00 |
| beta.D[14] | 0.58 | 0.58 | 0.59 | 1.00 |

| | | | | |
|---|---|---|---|---|
| beta.D[15] | 0.59 | 0.58 | 0.59 | 1.00 |
| beta.D[16] | 0.56 | 0.56 | 0.57 | 1.00 |
| beta.D[17] | 0.57 | 0.56 | 0.57 | 1.00 |
| beta.D[18] | 0.56 | 0.55 | 0.57 | 1.00 |
| beta.D[19] | 0.57 | 0.56 | 0.57 | 1.00 |
| beta.D[20] | 0.65 | 0.64 | 0.65 | 1.00 |
| beta.D[21] | 0.54 | 0.53 | 0.54 | 1.00 |
| beta.R[1] | 0.11 | 0.10 | 0.11 | 1.00 |
| beta.R[2] | 0.59 | 0.58 | 0.59 | 1.00 |
| beta.R[3] | 0.60 | 0.59 | 0.61 | 1.00 |
| beta.R[4] | 0.62 | 0.62 | 0.63 | 1.00 |
| beta.R[5] | 0.60 | 0.59 | 0.60 | 1.00 |
| beta.R[6] | 0.57 | 0.56 | 0.57 | 1.00 |
| beta.R[7] | 0.53 | 0.52 | 0.54 | 1.00 |
| beta.R[8] | 0.50 | 0.49 | 0.50 | 1.00 |
| beta.R[9] | 0.49 | 0.48 | 0.49 | 1.00 |
| beta.R[10] | 0.49 | 0.49 | 0.50 | 1.00 |
| beta.R[11] | 0.47 | 0.47 | 0.48 | 1.00 |
| beta.R[12] | 0.46 | 0.45 | 0.47 | 1.00 |
| beta.R[13] | 0.47 | 0.46 | 0.47 | 1.00 |
| beta.R[14] | 0.46 | 0.45 | 0.47 | 1.00 |
| beta.R[15] | 0.46 | 0.45 | 0.46 | 1.00 |
| beta.R[16] | 0.45 | 0.45 | 0.46 | 1.00 |
| beta.R[17] | 0.45 | 0.45 | 0.46 | 1.00 |
| beta.R[18] | 0.46 | 0.45 | 0.46 | 1.00 |
| beta.R[19] | 0.46 | 0.45 | 0.46 | 1.00 |
| beta.R[20] | 0.53 | 0.52 | 0.53 | 1.00 |
| beta.R[21] | 0.43 | 0.43 | 0.44 | 1.00 |
| b[1,AK] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[2,AK] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[3,AK] | −0.18 | −0.21 | −0.16 | 1.00 |
| b[4,AK] | −0.19 | −0.21 | −0.16 | 1.00 |
| b[5,AK] | −0.13 | −0.16 | −0.11 | 1.00 |
| b[6,AK] | −0.17 | −0.20 | −0.15 | 1.00 |
| b[7,AK] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[8,AK] | −0.23 | −0.25 | −0.20 | 1.00 |
| b[9,AK] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[10,AK] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[11,AK] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[12,AK] | −0.09 | −0.12 | −0.06 | 1.00 |
| b[13,AK] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[14,AK] | −0.13 | −0.16 | −0.11 | 1.00 |
| b[15,AK] | −0.14 | −0.16 | −0.11 | 1.00 |
| b[16,AK] | −0.12 | −0.14 | −0.09 | 1.00 |

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|---|---|---|---|---|
| b[17,AK] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[18,AK] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[19,AK] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[20,AK] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[21,AK] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[1,AL] | −0.17 | −0.20 | −0.14 | 1.00 |
| b[2,AL] | 0.15 | 0.12 | 0.18 | 1.00 |
| b[3,AL] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[4,AL] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[5,AL] | 0.21 | 0.18 | 0.23 | 1.00 |
| b[6,AL] | 0.12 | 0.09 | 0.14 | 1.00 |
| b[7,AL] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[8,AL] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[9,AL] | −0.13 | −0.15 | −0.10 | 1.00 |
| b[10,AL] | −0.02 | −0.04 | 0.01 | 1.00 |
| b[11,AL] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[12,AL] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[13,AL] | −0.08 | −0.10 | −0.05 | 1.00 |
| b[14,AL] | −0.06 | −0.09 | −0.04 | 1.00 |
| b[15,AL] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[16,AL] | −0.01 | −0.03 | 0.02 | 1.00 |
| b[17,AL] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[18,AL] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[19,AL] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[20,AL] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[21,AL] | −0.03 | −0.06 | 0.00 | 1.00 |
| b[1,AR] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[2,AR] | −0.01 | −0.03 | 0.02 | 1.00 |
| b[3,AR] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[4,AR] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[5,AR] | −0.04 | −0.07 | −0.02 | 1.00 |
| b[6,AR] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[7,AR] | −0.16 | −0.19 | −0.13 | 1.00 |
| b[8,AR] | −0.19 | −0.21 | −0.16 | 1.00 |
| b[9,AR] | −0.18 | −0.21 | −0.16 | 1.00 |
| b[10,AR] | −0.19 | −0.22 | −0.17 | 1.00 |
| b[11,AR] | −0.16 | −0.19 | −0.13 | 1.00 |
| b[12,AR] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[13,AR] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[14,AR] | −0.15 | −0.18 | −0.13 | 1.00 |
| b[15,AR] | −0.17 | −0.20 | −0.14 | 1.00 |
| b[16,AR] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[17,AR] | −0.11 | −0.14 | −0.09 | 1.00 |
| b[18,AR] | −0.11 | −0.14 | −0.09 | 1.00 |

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|---|---|---|---|---|
| b[19,AR] | −0.13 | −0.15 | −0.10 | 1.00 |
| b[20,AR] | −0.15 | −0.18 | −0.13 | 1.00 |
| b[21,AR] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[1,AZ] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[2,AZ] | 0.18 | 0.15 | 0.21 | 1.00 |
| b[3,AZ] | 0.12 | 0.09 | 0.15 | 1.00 |
| b[4,AZ] | 0.13 | 0.11 | 0.16 | 1.00 |
| b[5,AZ] | 0.20 | 0.17 | 0.23 | 1.00 |
| b[6,AZ] | 0.13 | 0.10 | 0.16 | 1.00 |
| b[7,AZ] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[8,AZ] | 0.21 | 0.19 | 0.24 | 1.00 |
| b[9,AZ] | 0.18 | 0.15 | 0.21 | 1.00 |
| b[10,AZ] | 0.19 | 0.16 | 0.21 | 1.00 |
| b[11,AZ] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[12,AZ] | 0.20 | 0.17 | 0.23 | 1.00 |
| b[13,AZ] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[14,AZ] | 0.05 | 0.03 | 0.08 | 1.00 |
| b[15,AZ] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[16,AZ] | 0.10 | 0.08 | 0.13 | 1.00 |
| b[17,AZ] | 0.11 | 0.09 | 0.14 | 1.00 |
| b[18,AZ] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[19,AZ] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[20,AZ] | 0.06 | 0.03 | 0.08 | 1.00 |
| b[21,AZ] | 0.08 | 0.05 | 0.10 | 1.00 |
| b[1,CA] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[2,CA] | 0.28 | 0.25 | 0.31 | 1.00 |
| b[3,CA] | −0.02 | −0.05 | 0.00 | 1.00 |
| b[4,CA] | 0.21 | 0.18 | 0.23 | 1.00 |
| b[5,CA] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[6,CA] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[7,CA] | 0.11 | 0.08 | 0.13 | 1.00 |
| b[8,CA] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[9,CA] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[10,CA] | 0.12 | 0.09 | 0.15 | 1.00 |
| b[11,CA] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[12,CA] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[13,CA] | 0.19 | 0.17 | 0.22 | 1.00 |
| b[14,CA] | 0.14 | 0.12 | 0.17 | 1.00 |
| b[15,CA] | 0.18 | 0.15 | 0.20 | 1.00 |
| b[16,CA] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[17,CA] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[18,CA] | 0.19 | 0.16 | 0.22 | 1.00 |
| b[19,CA] | 0.16 | 0.14 | 0.19 | 1.00 |
| b[20,CA] | 0.18 | 0.15 | 0.21 | 1.00 |

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|---|---|---|---|---|
| b[21,CA] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[1,CO] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[2,CO] | 0.20 | 0.17 | 0.23 | 1.00 |
| b[3,CO] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[4,CO] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[5,CO] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[6,CO] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[7,CO] | 0.15 | 0.12 | 0.17 | 1.00 |
| b[8,CO] | 0.21 | 0.18 | 0.24 | 1.00 |
| b[9,CO] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[10,CO] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[11,CO] | 0.03 | 0.01 | 0.06 | 1.00 |
| b[12,CO] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[13,CO] | 0.03 | 0.00 | 0.05 | 1.00 |
| b[14,CO] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[15,CO] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[16,CO] | 0.06 | 0.03 | 0.08 | 1.00 |
| b[17,CO] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[18,CO] | 0.03 | 0.00 | 0.06 | 1.00 |
| b[19,CO] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[20,CO] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[21,CO] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[1,CT] | 0.01 | −0.02 | 0.04 | 1.00 |
| b[2,CT] | −0.14 | −0.17 | −0.11 | 1.00 |
| b[3,CT] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[4,CT] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[5,CT] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[6,CT] | −0.15 | −0.18 | −0.12 | 1.00 |
| b[7,CT] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[8,CT] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[9,CT] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[10,CT] | −0.04 | −0.07 | −0.01 | 1.00 |
| b[11,CT] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[12,CT] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[13,CT] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[14,CT] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[15,CT] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[16,CT] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[17,CT] | −0.02 | −0.04 | 0.01 | 1.00 |
| b[18,CT] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[19,CT] | −0.03 | −0.05 | 0.00 | 1.00 |
| b[20,CT] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[21,CT] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[1,DE] | −0.04 | −0.07 | −0.01 | 1.00 |

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|---|---|---|---|---|
| b[2,DE] | −0.03 | −0.06 | 0.00 | 1.00 |
| b[3,DE] | 0.11 | 0.08 | 0.13 | 1.00 |
| b[4,DE] | 0.06 | 0.04 | 0.09 | 1.00 |
| b[5,DE] | 0.13 | 0.11 | 0.16 | 1.00 |
| b[6,DE] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[7,DE] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[8,DE] | 0.12 | 0.09 | 0.15 | 1.00 |
| b[9,DE] | −0.02 | −0.04 | 0.01 | 1.00 |
| b[10,DE] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[11,DE] | 0.12 | 0.09 | 0.14 | 1.00 |
| b[12,DE] | 0.11 | 0.09 | 0.14 | 1.00 |
| b[13,DE] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[14,DE] | 0.12 | 0.09 | 0.14 | 1.00 |
| b[15,DE] | 0.11 | 0.09 | 0.14 | 1.00 |
| b[16,DE] | 0.14 | 0.11 | 0.16 | 1.00 |
| b[17,DE] | 0.13 | 0.11 | 0.16 | 1.00 |
| b[18,DE] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[19,DE] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[20,DE] | 0.13 | 0.11 | 0.16 | 1.00 |
| b[21,DE] | 0.11 | 0.08 | 0.13 | 1.00 |
| b[1,FL] | 0.05 | 0.01 | 0.08 | 1.00 |
| b[2,FL] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[3,FL] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[4,FL] | 0.00 | −0.03 | 0.02 | 1.00 |
| b[5,FL] | 0.15 | 0.12 | 0.17 | 1.00 |
| b[6,FL] | −0.28 | −0.30 | −0.25 | 1.00 |
| b[7,FL] | −0.04 | −0.07 | −0.01 | 1.00 |
| b[8,FL] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[9,FL] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[10,FL] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[11,FL] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[12,FL] | 0.08 | 0.05 | 0.11 | 1.00 |
| b[13,FL] | 0.03 | 0.00 | 0.05 | 1.00 |
| b[14,FL] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[15,FL] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[16,FL] | 0.00 | −0.03 | 0.02 | 1.00 |
| b[17,FL] | −0.02 | −0.05 | 0.00 | 1.00 |
| b[18,FL] | −0.01 | −0.03 | 0.02 | 1.00 |
| b[19,FL] | −0.03 | −0.06 | 0.00 | 1.00 |
| b[20,FL] | −0.05 | −0.07 | −0.02 | 1.00 |
| b[21,FL] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[1,GA] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[2,GA] | −0.28 | −0.31 | −0.25 | 1.00 |
| b[3,GA] | 0.13 | 0.11 | 0.16 | 1.00 |

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|---|---|---|---|---|
| b[4,GA] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[5,GA] | 0.02 | 0.00 | 0.05 | 1.00 |
| b[6,GA] | 0.08 | 0.06 | 0.11 | 1.00 |
| b[7,GA] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[8,GA] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[9,GA] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[10,GA] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[11,GA] | −0.09 | −0.11 | −0.06 | 1.00 |
| b[12,GA] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[13,GA] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[14,GA] | −0.09 | −0.11 | −0.06 | 1.00 |
| b[15,GA] | −0.17 | −0.19 | −0.14 | 1.00 |
| b[16,GA] | −0.18 | −0.21 | −0.15 | 1.00 |
| b[17,GA] | −0.15 | −0.17 | −0.12 | 1.00 |
| b[18,GA] | −0.19 | −0.22 | −0.17 | 1.00 |
| b[19,GA] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[20,GA] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[21,GA] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[1,HI] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[2,HI] | 0.23 | 0.20 | 0.26 | 1.00 |
| b[3,HI] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[4,HI] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[5,HI] | 0.15 | 0.12 | 0.17 | 1.00 |
| b[6,HI] | 0.24 | 0.21 | 0.27 | 1.00 |
| b[7,HI] | 0.08 | 0.06 | 0.11 | 1.00 |
| b[8,HI] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[9,HI] | 0.16 | 0.13 | 0.18 | 1.00 |
| b[10,HI] | 0.16 | 0.13 | 0.18 | 1.00 |
| b[11,HI] | 0.17 | 0.15 | 0.20 | 1.00 |
| b[12,HI] | 0.15 | 0.12 | 0.17 | 1.00 |
| b[13,HI] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[14,HI] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[15,HI] | 0.23 | 0.21 | 0.26 | 1.00 |
| b[16,HI] | 0.11 | 0.08 | 0.13 | 1.00 |
| b[17,HI] | 0.08 | 0.05 | 0.10 | 1.00 |
| b[18,HI] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[19,HI] | 0.08 | 0.06 | 0.11 | 1.00 |
| b[20,HI] | 0.08 | 0.06 | 0.11 | 1.00 |
| b[21,HI] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[1,IA] | −0.10 | −0.12 | −0.06 | 1.00 |
| b[2,IA] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[3,IA] | 0.09 | 0.06 | 0.12 | 1.00 |
| b[4,IA] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[5,IA] | 0.06 | 0.03 | 0.09 | 1.00 |

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|---|---|---|---|---|
| b[6,IA] | 0.09 | 0.06 | 0.12 | 1.00 |
| b[7,IA] | 0.16 | 0.13 | 0.18 | 1.00 |
| b[8,IA] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[9,IA] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[10,IA] | 0.15 | 0.13 | 0.18 | 1.00 |
| b[11,IA] | 0.17 | 0.14 | 0.19 | 1.00 |
| b[12,IA] | 0.16 | 0.13 | 0.18 | 1.00 |
| b[13,IA] | 0.15 | 0.13 | 0.18 | 1.00 |
| b[14,IA] | 0.16 | 0.14 | 0.19 | 1.00 |
| b[15,IA] | 0.17 | 0.14 | 0.19 | 1.00 |
| b[16,IA] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[17,IA] | 0.19 | 0.16 | 0.21 | 1.00 |
| b[18,IA] | 0.18 | 0.15 | 0.20 | 1.00 |
| b[19,IA] | 0.24 | 0.21 | 0.26 | 1.00 |
| b[20,IA] | 0.20 | 0.18 | 0.23 | 1.00 |
| b[21,IA] | 0.22 | 0.19 | 0.25 | 1.00 |
| b[1,ID] | −0.15 | −0.18 | −0.12 | 1.00 |
| b[2,ID] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[3,ID] | 0.10 | 0.07 | 0.12 | 1.00 |
| b[4,ID] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[5,ID] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[6,ID] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[7,ID] | −0.17 | −0.20 | −0.14 | 1.00 |
| b[8,ID] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[9,ID] | −0.16 | −0.19 | −0.14 | 1.00 |
| b[10,ID] | −0.17 | −0.20 | −0.15 | 1.00 |
| b[11,ID] | −0.16 | −0.18 | −0.13 | 1.00 |
| b[12,ID] | −0.16 | −0.19 | −0.14 | 1.00 |
| b[13,ID] | −0.17 | −0.20 | −0.15 | 1.00 |
| b[14,ID] | −0.16 | −0.18 | −0.13 | 1.00 |
| b[15,ID] | −0.16 | −0.19 | −0.13 | 1.00 |
| b[16,ID] | −0.14 | −0.17 | −0.11 | 1.00 |
| b[17,ID] | −0.14 | −0.17 | −0.11 | 1.00 |
| b[18,ID] | −0.14 | −0.17 | −0.11 | 1.00 |
| b[19,ID] | −0.15 | −0.18 | −0.13 | 1.00 |
| b[20,ID] | −0.16 | −0.19 | −0.14 | 1.00 |
| b[21,ID] | −0.15 | −0.18 | −0.12 | 1.00 |
| b[1,IL] | 0.09 | 0.06 | 0.12 | 1.00 |
| b[2,IL] | −0.24 | −0.26 | −0.21 | 1.00 |
| b[3,IL] | −0.17 | −0.20 | −0.14 | 1.00 |
| b[4,IL] | −0.31 | −0.33 | −0.28 | 1.00 |
| b[5,IL] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[6,IL] | −0.19 | −0.22 | −0.17 | 1.00 |
| b[7,IL] | −0.23 | −0.25 | −0.20 | 1.00 |

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|---|---|---|---|---|
| b[8,IL] | −0.17 | −0.19 | −0.14 | 1.00 |
| b[9,IL] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[10,IL] | −0.19 | −0.22 | −0.17 | 1.00 |
| b[11,IL] | −0.19 | −0.21 | −0.16 | 1.00 |
| b[12,IL] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[13,IL] | −0.14 | −0.17 | −0.11 | 1.00 |
| b[14,IL] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[15,IL] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[16,IL] | −0.23 | −0.25 | −0.20 | 1.00 |
| b[17,IL] | −0.17 | −0.20 | −0.15 | 1.00 |
| b[18,IL] | −0.20 | −0.22 | −0.17 | 1.00 |
| b[19,IL] | −0.20 | −0.23 | −0.17 | 1.00 |
| b[20,IL] | −0.22 | −0.25 | −0.20 | 1.00 |
| b[21,IL] | −0.20 | −0.22 | −0.17 | 1.00 |
| b[1,IN] | −0.11 | −0.14 | −0.09 | 1.00 |
| b[2,IN] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[3,IN] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[4,IN] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[5,IN] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[6,IN] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[7,IN] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[8,IN] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[9,IN] | 0.14 | 0.12 | 0.17 | 1.00 |
| b[10,IN] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[11,IN] | 0.13 | 0.10 | 0.15 | 1.00 |
| b[12,IN] | 0.07 | 0.04 | 0.09 | 1.00 |
| b[13,IN] | 0.05 | 0.03 | 0.08 | 1.00 |
| b[14,IN] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[15,IN] | 0.02 | 0.00 | 0.05 | 1.00 |
| b[16,IN] | 0.03 | 0.01 | 0.06 | 1.00 |
| b[17,IN] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[18,IN] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[19,IN] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[20,IN] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[21,IN] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[1,KS] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[2,KS] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[3,KS] | −0.04 | −0.07 | −0.01 | 1.00 |
| b[4,KS] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[5,KS] | −0.08 | −0.10 | −0.05 | 1.00 |
| b[6,KS] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[7,KS] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[8,KS] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[9,KS] | 0.08 | 0.05 | 0.11 | 1.00 |

| | | | | |
|---|---|---|---|---|
| b[10,KS] | 0.08 | 0.05 | 0.11 | 1.00 |
| b[11,KS] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[12,KS] | 0.08 | 0.06 | 0.11 | 1.00 |
| b[13,KS] | 0.08 | 0.05 | 0.10 | 1.00 |
| b[14,KS] | 0.09 | 0.06 | 0.11 | 1.00 |
| b[15,KS] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[16,KS] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[17,KS] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[18,KS] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[19,KS] | 0.10 | 0.07 | 0.12 | 1.00 |
| b[20,KS] | 0.09 | 0.06 | 0.11 | 1.00 |
| b[21,KS] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[1,KY] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[2,KY] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[3,KY] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[4,KY] | −0.04 | −0.07 | −0.01 | 1.00 |
| b[5,KY] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[6,KY] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[7,KY] | −0.03 | −0.06 | 0.00 | 1.00 |
| b[8,KY] | −0.13 | −0.16 | −0.11 | 1.01 |
| b[9,KY] | −0.02 | −0.05 | 0.00 | 1.00 |
| b[10,KY] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[11,KY] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[12,KY] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[13,KY] | −0.08 | −0.10 | −0.05 | 1.00 |
| b[14,KY] | −0.05 | −0.07 | −0.02 | 1.00 |
| b[15,KY] | −0.07 | −0.10 | −0.05 | 1.00 |
| b[16,KY] | −0.18 | −0.20 | −0.15 | 1.00 |
| b[17,KY] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[18,KY] | −0.15 | −0.17 | −0.12 | 1.00 |
| b[19,KY] | −0.15 | −0.18 | −0.12 | 1.00 |
| b[20,KY] | −0.17 | −0.20 | −0.15 | 1.00 |
| b[21,KY] | −0.14 | −0.17 | −0.12 | 1.00 |
| b[1,LA] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[2,LA] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[3,LA] | −0.04 | −0.07 | −0.01 | 1.00 |
| b[4,LA] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[5,LA] | −0.04 | −0.07 | −0.01 | 1.00 |
| b[6,LA] | −0.02 | −0.04 | 0.01 | 1.00 |
| b[7,LA] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[8,LA] | 0.01 | −0.02 | 0.03 | 1.00 |
| b[9,LA] | 0.13 | 0.10 | 0.15 | 1.00 |
| b[10,LA] | 0.06 | 0.03 | 0.08 | 1.00 |
| b[11,LA] | 0.11 | 0.08 | 0.14 | 1.00 |

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|---|---|---|---|---|
| b[12,LA] | 0.01 | −0.01 | 0.04 | 1.00 |
| b[13,LA] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[14,LA] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[15,LA] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[16,LA] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[17,LA] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[18,LA] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[19,LA] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[20,LA] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[21,LA] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[1,MA] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[2,MA] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[3,MA] | −0.06 | −0.09 | −0.04 | 1.00 |
| b[4,MA] | −0.03 | −0.06 | 0.00 | 1.00 |
| b[5,MA] | −0.09 | −0.12 | −0.06 | 1.00 |
| b[6,MA] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[7,MA] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[8,MA] | 0.08 | 0.05 | 0.11 | 1.00 |
| b[9,MA] | 0.06 | 0.04 | 0.09 | 1.00 |
| b[10,MA] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[11,MA] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[12,MA] | 0.06 | 0.03 | 0.08 | 1.00 |
| b[13,MA] | 0.05 | 0.03 | 0.08 | 1.00 |
| b[14,MA] | 0.06 | 0.04 | 0.09 | 1.00 |
| b[15,MA] | 0.07 | 0.04 | 0.09 | 1.00 |
| b[16,MA] | 0.09 | 0.06 | 0.11 | 1.00 |
| b[17,MA] | 0.08 | 0.06 | 0.11 | 1.00 |
| b[18,MA] | 0.09 | 0.06 | 0.11 | 1.00 |
| b[19,MA] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[20,MA] | 0.07 | 0.04 | 0.09 | 1.00 |
| b[21,MA] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[1,MD] | 0.26 | 0.23 | 0.28 | 1.00 |
| b[2,MD] | −0.22 | −0.25 | −0.20 | 1.00 |
| b[3,MD] | −0.07 | −0.10 | −0.05 | 1.00 |
| b[4,MD] | −0.13 | −0.16 | −0.11 | 1.00 |
| b[5,MD] | −0.16 | −0.18 | −0.13 | 1.00 |
| b[6,MD] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[7,MD] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[8,MD] | −0.11 | −0.14 | −0.09 | 1.00 |
| b[9,MD] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[10,MD] | −0.13 | −0.15 | −0.10 | 1.00 |
| b[11,MD] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[12,MD] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[13,MD] | −0.12 | −0.15 | −0.10 | 1.00 |

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|---|---|---|---|---|
| b[14,MD] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[15,MD] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[16,MD] | −0.09 | −0.11 | −0.06 | 1.00 |
| b[17,MD] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[18,MD] | −0.09 | −0.12 | −0.06 | 1.00 |
| b[19,MD] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[20,MD] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[21,MD] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[1,ME] | 0.33 | 0.30 | 0.35 | 1.00 |
| b[2,ME] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[3,ME] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[4,ME] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[5,ME] | −0.09 | −0.12 | −0.06 | 1.00 |
| b[6,ME] | −0.14 | −0.16 | −0.11 | 1.00 |
| b[7,ME] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[8,ME] | −0.01 | −0.03 | 0.02 | 1.00 |
| b[9,ME] | −0.09 | −0.11 | −0.06 | 1.00 |
| b[10,ME] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[11,ME] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[12,ME] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[13,ME] | −0.04 | −0.07 | −0.02 | 1.00 |
| b[14,ME] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[15,ME] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[16,ME] | 0.07 | 0.04 | 0.09 | 1.00 |
| b[17,ME] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[18,ME] | 0.10 | 0.08 | 0.13 | 1.00 |
| b[19,ME] | 0.12 | 0.09 | 0.15 | 1.00 |
| b[20,ME] | 0.19 | 0.16 | 0.21 | 1.00 |
| b[21,ME] | 0.06 | 0.03 | 0.08 | 1.00 |
| b[1,MI] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[2,MI] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[3,MI] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[4,MI] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[5,MI] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[6,MI] | −0.07 | −0.10 | −0.05 | 1.00 |
| b[7,MI] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[8,MI] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[9,MI] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[10,MI] | −0.13 | −0.16 | −0.11 | 1.00 |
| b[11,MI] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[12,MI] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[13,MI] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[14,MI] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[15,MI] | −0.09 | −0.11 | −0.06 | 1.00 |

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|---|---|---|---|---|
| b[16,MI] | −0.06 | −0.09 | −0.04 | 1.00 |
| b[17,MI] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[18,MI] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[19,MI] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[20,MI] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[21,MI] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[1,MN] | 0.09 | 0.06 | 0.12 | 1.00 |
| b[2,MN] | −0.09 | −0.11 | −0.06 | 1.00 |
| b[3,MN] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[4,MN] | −0.17 | −0.20 | −0.14 | 1.00 |
| b[5,MN] | 0.00 | −0.02 | 0.03 | 1.00 |
| b[6,MN] | 0.08 | 0.06 | 0.11 | 1.00 |
| b[7,MN] | −0.02 | −0.05 | 0.00 | 1.00 |
| b[8,MN] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[9,MN] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[10,MN] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[11,MN] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[12,MN] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[13,MN] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[14,MN] | −0.09 | −0.11 | −0.06 | 1.00 |
| b[15,MN] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[16,MN] | −0.06 | −0.09 | −0.04 | 1.00 |
| b[17,MN] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[18,MN] | −0.06 | −0.09 | −0.04 | 1.00 |
| b[19,MN] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[20,MN] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[21,MN] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[1,MO] | −0.04 | −0.07 | −0.01 | 1.00 |
| b[2,MO] | 0.27 | 0.24 | 0.30 | 1.00 |
| b[3,MO] | 0.12 | 0.09 | 0.15 | 1.00 |
| b[4,MO] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[5,MO] | 0.13 | 0.11 | 0.16 | 1.00 |
| b[6,MO] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[7,MO] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[8,MO] | 0.13 | 0.11 | 0.16 | 1.00 |
| b[9,MO] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[10,MO] | 0.18 | 0.15 | 0.21 | 1.00 |
| b[11,MO] | 0.14 | 0.12 | 0.17 | 1.00 |
| b[12,MO] | 0.13 | 0.10 | 0.15 | 1.00 |
| b[13,MO] | 0.14 | 0.11 | 0.16 | 1.00 |
| b[14,MO] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[15,MO] | 0.18 | 0.15 | 0.21 | 1.00 |
| b[16,MO] | 0.06 | 0.04 | 0.09 | 1.00 |
| b[17,MO] | 0.05 | 0.03 | 0.08 | 1.00 |

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|---|---|---|---|---|
| b[18,MO] | 0.07 | 0.04 | 0.09 | 1.00 |
| b[19,MO] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[20,MO] | 0.02 | 0.00 | 0.05 | 1.00 |
| b[21,MO] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[1,MS] | 0.01 | −0.02 | 0.04 | 1.00 |
| b[2,MS] | 0.39 | 0.36 | 0.41 | 1.00 |
| b[3,MS] | 0.25 | 0.22 | 0.27 | 1.00 |
| b[4,MS] | 0.25 | 0.22 | 0.28 | 1.00 |
| b[5,MS] | 0.32 | 0.29 | 0.34 | 1.00 |
| b[6,MS] | 0.15 | 0.12 | 0.18 | 1.00 |
| b[7,MS] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[8,MS] | 0.15 | 0.12 | 0.18 | 1.00 |
| b[9,MS] | 0.13 | 0.10 | 0.15 | 1.00 |
| b[10,MS] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[11,MS] | 0.15 | 0.12 | 0.18 | 1.00 |
| b[12,MS] | 0.17 | 0.14 | 0.19 | 1.00 |
| b[13,MS] | 0.16 | 0.13 | 0.18 | 1.00 |
| b[14,MS] | 0.16 | 0.14 | 0.19 | 1.00 |
| b[15,MS] | 0.17 | 0.14 | 0.19 | 1.00 |
| b[16,MS] | 0.17 | 0.15 | 0.20 | 1.00 |
| b[17,MS] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[18,MS] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[19,MS] | 0.16 | 0.13 | 0.18 | 1.00 |
| b[20,MS] | 0.14 | 0.11 | 0.16 | 1.00 |
| b[21,MS] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[1,MT] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[2,MT] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[3,MT] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[4,MT] | 0.02 | 0.00 | 0.05 | 1.00 |
| b[5,MT] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[6,MT] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[7,MT] | 0.10 | 0.07 | 0.12 | 1.00 |
| b[8,MT] | 0.08 | 0.05 | 0.10 | 1.00 |
| b[9,MT] | 0.15 | 0.13 | 0.18 | 1.00 |
| b[10,MT] | 0.02 | 0.00 | 0.05 | 1.00 |
| b[11,MT] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[12,MT] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[13,MT] | 0.03 | 0.00 | 0.06 | 1.00 |
| b[14,MT] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[15,MT] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[16,MT] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[17,MT] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[18,MT] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[19,MT] | 0.03 | 0.00 | 0.06 | 1.00 |

| | | | | |
|---|---|---|---|---|
| b[20,MT] | 0.01 | −0.02 | 0.03 | 1.00 |
| b[21,MT] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[1,NC] | 0.03 | 0.00 | 0.06 | 1.00 |
| b[2,NC] | −0.18 | −0.20 | −0.15 | 1.00 |
| b[3,NC] | −0.16 | −0.18 | −0.13 | 1.00 |
| b[4,NC] | −0.16 | −0.19 | −0.13 | 1.00 |
| b[5,NC] | −0.16 | −0.19 | −0.14 | 1.00 |
| b[6,NC] | −0.19 | −0.21 | −0.16 | 1.00 |
| b[7,NC] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[8,NC] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[9,NC] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[10,NC] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[11,NC] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[12,NC] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[13,NC] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[14,NC] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[15,NC] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[16,NC] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[17,NC] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[18,NC] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[19,NC] | −0.07 | −0.10 | −0.05 | 1.00 |
| b[20,NC] | −0.08 | −0.10 | −0.05 | 1.00 |
| b[21,NC] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[1,ND] | 0.20 | 0.17 | 0.23 | 1.00 |
| b[2,ND] | −0.21 | −0.24 | −0.18 | 1.00 |
| b[3,ND] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[4,ND] | −0.16 | −0.19 | −0.13 | 1.00 |
| b[5,ND] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[6,ND] | −0.13 | −0.16 | −0.11 | 1.00 |
| b[7,ND] | −0.21 | −0.23 | −0.18 | 1.00 |
| b[8,ND] | −0.13 | −0.16 | −0.11 | 1.00 |
| b[9,ND] | −0.14 | −0.17 | −0.12 | 1.00 |
| b[10,ND] | −0.14 | −0.16 | −0.11 | 1.00 |
| b[11,ND] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[12,ND] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[13,ND] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[14,ND] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[15,ND] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[16,ND] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[17,ND] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[18,ND] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[19,ND] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[20,ND] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[21,ND] | −0.13 | −0.16 | −0.10 | 1.00 |

| | | | | |
|---|---|---|---|---|
| b[1,NE] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[2,NE] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[3,NE] | 0.15 | 0.12 | 0.17 | 1.00 |
| b[4,NE] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[5,NE] | 0.06 | 0.04 | 0.09 | 1.00 |
| b[6,NE] | 0.13 | 0.10 | 0.15 | 1.00 |
| b[7,NE] | 0.10 | 0.08 | 0.13 | 1.00 |
| b[8,NE] | 0.13 | 0.10 | 0.16 | 1.00 |
| b[9,NE] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[10,NE] | 0.17 | 0.14 | 0.19 | 1.00 |
| b[11,NE] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[12,NE] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[13,NE] | 0.06 | 0.04 | 0.09 | 1.00 |
| b[14,NE] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[15,NE] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[16,NE] | 0.01 | −0.02 | 0.04 | 1.00 |
| b[17,NE] | 0.03 | 0.00 | 0.05 | 1.00 |
| b[18,NE] | 0.01 | −0.01 | 0.04 | 1.00 |
| b[19,NE] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[20,NE] | 0.01 | −0.02 | 0.03 | 1.00 |
| b[21,NE] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[1,NH] | −0.09 | −0.12 | −0.06 | 1.00 |
| b[2,NH] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[3,NH] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[4,NH] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[5,NH] | 0.01 | −0.01 | 0.04 | 1.00 |
| b[6,NH] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[7,NH] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[8,NH] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[9,NH] | 0.00 | −0.02 | 0.03 | 1.00 |
| b[10,NH] | 0.01 | −0.02 | 0.04 | 1.00 |
| b[11,NH] | 0.03 | 0.00 | 0.05 | 1.00 |
| b[12,NH] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[13,NH] | 0.03 | 0.01 | 0.06 | 1.00 |
| b[14,NH] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[15,NH] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[16,NH] | 0.12 | 0.09 | 0.14 | 1.00 |
| b[17,NH] | 0.09 | 0.06 | 0.11 | 1.00 |
| b[18,NH] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[19,NH] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[20,NH] | 0.08 | 0.05 | 0.10 | 1.00 |
| b[21,NH] | 0.08 | 0.05 | 0.11 | 1.00 |
| b[1,NJ] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[2,NJ] | −0.23 | −0.26 | −0.20 | 1.00 |

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|---|---|---|---|---|
| b[3,NJ] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[4,NJ] | −0.15 | −0.17 | −0.12 | 1.00 |
| b[5,NJ] | −0.19 | −0.22 | −0.16 | 1.00 |
| b[6,NJ] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[7,NJ] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[8,NJ] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[9,NJ] | −0.20 | −0.22 | −0.17 | 1.00 |
| b[10,NJ] | −0.23 | −0.26 | −0.21 | 1.00 |
| b[11,NJ] | −0.17 | −0.20 | −0.15 | 1.00 |
| b[12,NJ] | −0.23 | −0.25 | −0.20 | 1.00 |
| b[13,NJ] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[14,NJ] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[15,NJ] | −0.07 | −0.10 | −0.05 | 1.00 |
| b[16,NJ] | −0.14 | −0.16 | −0.11 | 1.00 |
| b[17,NJ] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[18,NJ] | −0.15 | −0.18 | −0.12 | 1.00 |
| b[19,NJ] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[20,NJ] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[21,NJ] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[1,NM] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[2,NM] | −0.14 | −0.16 | −0.11 | 1.00 |
| b[3,NM] | −0.21 | −0.24 | −0.19 | 1.00 |
| b[4,NM] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[5,NM] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[6,NM] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[7,NM] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[8,NM] | −0.34 | −0.37 | −0.31 | 1.00 |
| b[9,NM] | −0.23 | −0.26 | −0.21 | 1.00 |
| b[10,NM] | −0.28 | −0.31 | −0.25 | 1.00 |
| b[11,NM] | −0.24 | −0.27 | −0.21 | 1.00 |
| b[12,NM] | −0.24 | −0.27 | −0.21 | 1.00 |
| b[13,NM] | −0.24 | −0.27 | −0.21 | 1.00 |
| b[14,NM] | −0.23 | −0.26 | −0.21 | 1.00 |
| b[15,NM] | −0.23 | −0.26 | −0.21 | 1.00 |
| b[16,NM] | −0.23 | −0.25 | −0.20 | 1.00 |
| b[17,NM] | −0.24 | −0.26 | −0.21 | 1.00 |
| b[18,NM] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[19,NM] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[20,NM] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[21,NM] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[1,NV] | −0.19 | −0.22 | −0.16 | 1.00 |
| b[2,NV] | 0.37 | 0.34 | 0.40 | 1.00 |
| b[3,NV] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[4,NV] | 0.28 | 0.25 | 0.30 | 1.00 |

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|---|---|---|---|---|
| b[5,NV] | 0.06 | 0.03 | 0.08 | 1.00 |
| b[6,NV] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[7,NV] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[8,NV] | 0.10 | 0.07 | 0.12 | 1.00 |
| b[9,NV] | 0.06 | 0.03 | 0.08 | 1.00 |
| b[10,NV] | 0.02 | 0.00 | 0.05 | 1.00 |
| b[11,NV] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[12,NV] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[13,NV] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[14,NV] | 0.06 | 0.04 | 0.09 | 1.00 |
| b[15,NV] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[16,NV] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[17,NV] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[18,NV] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[19,NV] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[20,NV] | 0.09 | 0.06 | 0.11 | 1.00 |
| b[21,NV] | 0.03 | 0.00 | 0.06 | 1.00 |
| b[1,NY] | −0.06 | −0.09 | −0.04 | 1.00 |
| b[2,NY] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[3,NY] | −0.07 | −0.09 | −0.04 | 1.00 |
| b[4,NY] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[5,NY] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[6,NY] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[7,NY] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[8,NY] | 0.09 | 0.06 | 0.12 | 1.00 |
| b[9,NY] | −0.03 | −0.05 | 0.00 | 1.00 |
| b[10,NY] | 0.03 | 0.00 | 0.06 | 1.00 |
| b[11,NY] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[12,NY] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[13,NY] | 0.03 | 0.01 | 0.06 | 1.00 |
| b[14,NY] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[15,NY] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[16,NY] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[17,NY] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[18,NY] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[19,NY] | 0.03 | 0.00 | 0.05 | 1.00 |
| b[20,NY] | 0.03 | 0.01 | 0.06 | 1.00 |
| b[21,NY] | 0.03 | 0.00 | 0.06 | 1.00 |
| b[1,OH] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[2,OH] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[3,OH] | −0.09 | −0.11 | −0.06 | 1.00 |
| b[4,OH] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[5,OH] | −0.02 | −0.05 | 0.00 | 1.00 |
| b[6,OH] | 0.04 | 0.02 | 0.07 | 1.00 |

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|---|---|---|---|---|
| b[7,OH] | 0.06 | 0.03 | 0.09 | 1.00 |
| b[8,OH] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[9,OH] | 0.08 | 0.05 | 0.10 | 1.00 |
| b[10,OH] | 0.08 | 0.06 | 0.11 | 1.00 |
| b[11,OH] | 0.12 | 0.10 | 0.15 | 1.00 |
| b[12,OH] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[13,OH] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[14,OH] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[15,OH] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[16,OH] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[17,OH] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[18,OH] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[19,OH] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[20,OH] | 0.05 | 0.03 | 0.08 | 1.00 |
| b[21,OH] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[1,OK] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[2,OK] | −0.42 | −0.44 | −0.39 | 1.00 |
| b[3,OK] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[4,OK] | −0.15 | −0.18 | −0.13 | 1.00 |
| b[5,OK] | −0.13 | −0.16 | −0.11 | 1.00 |
| b[6,OK] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[7,OK] | −0.09 | −0.11 | −0.06 | 1.00 |
| b[8,OK] | −0.01 | −0.04 | 0.02 | 1.00 |
| b[9,OK] | 0.05 | 0.03 | 0.08 | 1.00 |
| b[10,OK] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[11,OK] | −0.07 | −0.10 | −0.05 | 1.00 |
| b[12,OK] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[13,OK] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[14,OK] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[15,OK] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[16,OK] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[17,OK] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[18,OK] | −0.04 | −0.07 | −0.02 | 1.00 |
| b[19,OK] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[20,OK] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[21,OK] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[1,OR] | −0.15 | −0.18 | −0.12 | 1.00 |
| b[2,OR] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[3,OR] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[4,OR] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[5,OR] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[6,OR] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[7,OR] | −0.17 | −0.20 | −0.14 | 1.00 |
| b[8,OR] | −0.19 | −0.21 | −0.16 | 1.00 |

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|---|---|---|---|---|
| b[9,OR] | −0.17 | −0.19 | −0.14 | 1.00 |
| b[10,OR] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[11,OR] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[12,OR] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[13,OR] | −0.07 | −0.10 | −0.05 | 1.00 |
| b[14,OR] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[15,OR] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[16,OR] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[17,OR] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[18,OR] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[19,OR] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[20,OR] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[21,OR] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[1,PA] | 0.20 | 0.17 | 0.23 | 1.00 |
| b[2,PA] | 0.00 | −0.03 | 0.03 | 1.00 |
| b[3,PA] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[4,PA] | −0.02 | −0.05 | 0.00 | 1.00 |
| b[5,PA] | −0.39 | −0.42 | −0.36 | 1.00 |
| b[6,PA] | −0.14 | −0.17 | −0.11 | 1.00 |
| b[7,PA] | −0.41 | −0.44 | −0.38 | 1.00 |
| b[8,PA] | −0.30 | −0.33 | −0.27 | 1.00 |
| b[9,PA] | −0.32 | −0.35 | −0.29 | 1.00 |
| b[10,PA] | −0.31 | −0.34 | −0.29 | 1.00 |
| b[11,PA] | −0.30 | −0.33 | −0.27 | 1.00 |
| b[12,PA] | −0.29 | −0.31 | −0.26 | 1.00 |
| b[13,PA] | −0.29 | −0.32 | −0.27 | 1.00 |
| b[14,PA] | −0.28 | −0.31 | −0.26 | 1.00 |
| b[15,PA] | −0.28 | −0.31 | −0.25 | 1.00 |
| b[16,PA] | −0.28 | −0.31 | −0.25 | 1.00 |
| b[17,PA] | −0.27 | −0.30 | −0.25 | 1.00 |
| b[18,PA] | −0.30 | −0.33 | −0.27 | 1.00 |
| b[19,PA] | −0.20 | −0.22 | −0.17 | 1.00 |
| b[20,PA] | −0.24 | −0.26 | −0.21 | 1.00 |
| b[21,PA] | −0.22 | −0.25 | −0.19 | 1.00 |
| b[1,RI] | 0.03 | 0.01 | 0.06 | 1.00 |
| b[2,RI] | −0.09 | −0.12 | −0.06 | 1.00 |
| b[3,RI] | −0.21 | −0.24 | −0.19 | 1.00 |
| b[4,RI] | −0.17 | −0.20 | −0.14 | 1.00 |
| b[5,RI] | −0.20 | −0.22 | −0.17 | 1.00 |
| b[6,RI] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[7,RI] | −0.20 | −0.22 | −0.17 | 1.00 |
| b[8,RI] | −0.14 | −0.17 | −0.11 | 1.00 |
| b[9,RI] | −0.14 | −0.16 | −0.11 | 1.00 |
| b[10,RI] | −0.14 | −0.17 | −0.12 | 1.00 |

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|---|---|---|---|---|
| b[11,RI] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[12,RI] | −0.11 | −0.14 | −0.09 | 1.00 |
| b[13,RI] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[14,RI] | −0.11 | −0.14 | −0.09 | 1.00 |
| b[15,RI] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[16,RI] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[17,RI] | −0.10 | −0.13 | −0.08 | 1.00 |
| b[18,RI] | −0.11 | −0.13 | −0.08 | 1.00 |
| b[19,RI] | −0.12 | −0.15 | −0.09 | 1.00 |
| b[20,RI] | −0.14 | −0.16 | −0.11 | 1.00 |
| b[21,RI] | −0.11 | −0.14 | −0.08 | 1.00 |
| b[1,SC] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[2,SC] | 0.13 | 0.10 | 0.16 | 1.00 |
| b[3,SC] | −0.01 | −0.04 | 0.01 | 1.00 |
| b[4,SC] | 0.03 | 0.00 | 0.05 | 1.00 |
| b[5,SC] | −0.04 | −0.07 | −0.02 | 1.00 |
| b[6,SC] | 0.00 | −0.02 | 0.03 | 1.00 |
| b[7,SC] | 0.08 | 0.05 | 0.11 | 1.00 |
| b[8,SC] | −0.05 | −0.07 | −0.02 | 1.00 |
| b[9,SC] | 0.01 | −0.02 | 0.04 | 1.00 |
| b[10,SC] | −0.07 | −0.10 | −0.05 | 1.00 |
| b[11,SC] | −0.05 | −0.07 | −0.02 | 1.00 |
| b[12,SC] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[13,SC] | −0.04 | −0.07 | −0.02 | 1.00 |
| b[14,SC] | −0.04 | −0.06 | −0.01 | 1.00 |
| b[15,SC] | −0.03 | −0.06 | 0.00 | 1.00 |
| b[16,SC] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[17,SC] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[18,SC] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[19,SC] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[20,SC] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[21,SC] | 0.03 | 0.01 | 0.06 | 1.00 |
| b[1,SD] | 0.12 | 0.09 | 0.15 | 1.00 |
| b[2,SD] | 0.04 | 0.01 | 0.06 | 1.00 |
| b[3,SD] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[4,SD] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[5,SD] | 0.22 | 0.19 | 0.25 | 1.00 |
| b[6,SD] | −0.14 | −0.17 | −0.11 | 1.00 |
| b[7,SD] | −0.04 | −0.07 | −0.02 | 1.00 |
| b[8,SD] | −0.16 | −0.19 | −0.13 | 1.00 |
| b[9,SD] | −0.12 | −0.15 | −0.10 | 1.00 |
| b[10,SD] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[11,SD] | −0.05 | −0.07 | −0.02 | 1.00 |
| b[12,SD] | −0.14 | −0.16 | −0.11 | 1.00 |

| | | | | |
|---|---|---|---|---|
| b[13,SD] | −0.18 | −0.21 | −0.16 | 1.00 |
| b[14,SD] | −0.15 | −0.18 | −0.12 | 1.00 |
| b[15,SD] | −0.16 | −0.19 | −0.14 | 1.00 |
| b[16,SD] | −0.15 | −0.18 | −0.12 | 1.00 |
| b[17,SD] | −0.16 | −0.18 | −0.13 | 1.00 |
| b[18,SD] | −0.15 | −0.18 | −0.13 | 1.00 |
| b[19,SD] | −0.17 | −0.20 | −0.15 | 1.00 |
| b[20,SD] | −0.18 | −0.20 | −0.15 | 1.00 |
| b[21,SD] | −0.17 | −0.20 | −0.14 | 1.00 |
| b[1,TN] | 0.01 | −0.01 | 0.04 | 1.00 |
| b[2,TN] | −0.10 | −0.13 | −0.07 | 1.00 |
| b[3,TN] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[4,TN] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[5,TN] | 0.10 | 0.07 | 0.12 | 1.00 |
| b[6,TN] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[7,TN] | 0.19 | 0.16 | 0.22 | 1.00 |
| b[8,TN] | 0.23 | 0.20 | 0.26 | 1.00 |
| b[9,TN] | 0.15 | 0.12 | 0.17 | 1.00 |
| b[10,TN] | 0.37 | 0.35 | 0.40 | 1.00 |
| b[11,TN] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[12,TN] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[13,TN] | −0.05 | −0.07 | −0.02 | 1.00 |
| b[14,TN] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[15,TN] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[16,TN] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[17,TN] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[18,TN] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[19,TN] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[20,TN] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[21,TN] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[1,TX] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[2,TX] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[3,TX] | 0.30 | 0.27 | 0.33 | 1.00 |
| b[4,TX] | 0.15 | 0.12 | 0.18 | 1.00 |
| b[5,TX] | 0.30 | 0.27 | 0.33 | 1.00 |
| b[6,TX] | 0.07 | 0.04 | 0.09 | 1.00 |
| b[7,TX] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[8,TX] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[9,TX] | 0.17 | 0.14 | 0.19 | 1.00 |
| b[10,TX] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[11,TX] | 0.18 | 0.15 | 0.20 | 1.00 |
| b[12,TX] | 0.19 | 0.16 | 0.22 | 1.00 |
| b[13,TX] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[14,TX] | 0.19 | 0.16 | 0.22 | 1.00 |

| | | | | |
|---|---|---|---|---|
| b[15,TX] | 0.19 | 0.16 | 0.22 | 1.00 |
| b[16,TX] | 0.20 | 0.17 | 0.22 | 1.00 |
| b[17,TX] | 0.19 | 0.17 | 0.22 | 1.00 |
| b[18,TX] | 0.20 | 0.17 | 0.22 | 1.00 |
| b[19,TX] | 0.18 | 0.15 | 0.21 | 1.00 |
| b[20,TX] | 0.16 | 0.14 | 0.19 | 1.00 |
| b[21,TX] | 0.19 | 0.16 | 0.22 | 1.00 |
| b[1,UT] | 0.02 | −0.01 | 0.05 | 1.00 |
| b[2,UT] | −0.27 | −0.30 | −0.25 | 1.00 |
| b[3,UT] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[4,UT] | −0.13 | −0.16 | −0.10 | 1.00 |
| b[5,UT] | −0.10 | −0.12 | −0.07 | 1.00 |
| b[6,UT] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[7,UT] | −0.03 | −0.05 | 0.00 | 1.00 |
| b[8,UT] | 0.00 | −0.02 | 0.03 | 1.00 |
| b[9,UT] | 0.01 | −0.01 | 0.04 | 1.00 |
| b[10,UT] | 0.01 | −0.02 | 0.04 | 1.00 |
| b[11,UT] | 0.03 | 0.00 | 0.05 | 1.00 |
| b[12,UT] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[13,UT] | 0.03 | 0.01 | 0.06 | 1.00 |
| b[14,UT] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[15,UT] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[16,UT] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[17,UT] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[18,UT] | 0.04 | 0.02 | 0.07 | 1.00 |
| b[19,UT] | 0.03 | 0.00 | 0.06 | 1.00 |
| b[20,UT] | 0.02 | 0.00 | 0.05 | 1.00 |
| b[21,UT] | 0.03 | 0.00 | 0.06 | 1.00 |
| b[1,VA] | −0.01 | −0.03 | 0.02 | 1.00 |
| b[2,VA] | −0.01 | −0.03 | 0.02 | 1.00 |
| b[3,VA] | −0.03 | −0.05 | 0.00 | 1.00 |
| b[4,VA] | −0.05 | −0.08 | −0.02 | 1.00 |
| b[5,VA] | −0.02 | −0.05 | 0.01 | 1.00 |
| b[6,VA] | 0.00 | −0.02 | 0.03 | 1.00 |
| b[7,VA] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[8,VA] | 0.07 | 0.05 | 0.10 | 1.00 |
| b[9,VA] | 0.10 | 0.07 | 0.12 | 1.00 |
| b[10,VA] | 0.07 | 0.04 | 0.09 | 1.00 |
| b[11,VA] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[12,VA] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[13,VA] | 0.13 | 0.10 | 0.15 | 1.00 |
| b[14,VA] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[15,VA] | 0.13 | 0.10 | 0.16 | 1.00 |
| b[16,VA] | 0.10 | 0.08 | 0.13 | 1.00 |

| | | | | |
|---|---|---|---|---|
| b[17,VA] | 0.17 | 0.15 | 0.20 | 1.00 |
| b[18,VA] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[19,VA] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[20,VA] | 0.19 | 0.16 | 0.21 | 1.00 |
| b[21,VA] | 0.13 | 0.10 | 0.16 | 1.00 |
| b[1,VT] | −0.08 | −0.11 | −0.05 | 1.00 |
| b[2,VT] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[3,VT] | 0.00 | −0.02 | 0.03 | 1.00 |
| b[4,VT] | 0.00 | −0.02 | 0.03 | 1.00 |
| b[5,VT] | 0.05 | 0.02 | 0.07 | 1.00 |
| b[6,VT] | 0.01 | −0.02 | 0.03 | 1.00 |
| b[7,VT] | 0.07 | 0.04 | 0.10 | 1.00 |
| b[8,VT] | 0.01 | −0.02 | 0.04 | 1.00 |
| b[9,VT] | −0.03 | −0.06 | −0.01 | 1.00 |
| b[10,VT] | 0.00 | −0.03 | 0.02 | 1.00 |
| b[11,VT] | 0.00 | −0.03 | 0.02 | 1.00 |
| b[12,VT] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[13,VT] | 0.01 | −0.02 | 0.03 | 1.00 |
| b[14,VT] | 0.02 | −0.01 | 0.04 | 1.00 |
| b[15,VT] | −0.08 | −0.11 | −0.06 | 1.00 |
| b[16,VT] | −0.04 | −0.07 | −0.02 | 1.00 |
| b[17,VT] | −0.06 | −0.08 | −0.03 | 1.00 |
| b[18,VT] | −0.05 | −0.08 | −0.03 | 1.00 |
| b[19,VT] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[20,VT] | −0.08 | −0.10 | −0.05 | 1.00 |
| b[21,VT] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[1,WA] | −0.07 | −0.10 | −0.04 | 1.00 |
| b[2,WA] | 0.10 | 0.07 | 0.13 | 1.00 |
| b[3,WA] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[4,WA] | 0.09 | 0.07 | 0.12 | 1.00 |
| b[5,WA] | 0.13 | 0.10 | 0.16 | 1.00 |
| b[6,WA] | 0.16 | 0.13 | 0.18 | 1.00 |
| b[7,WA] | 0.19 | 0.17 | 0.22 | 1.00 |
| b[8,WA] | 0.24 | 0.21 | 0.27 | 1.00 |
| b[9,WA] | 0.22 | 0.19 | 0.25 | 1.00 |
| b[10,WA] | 0.27 | 0.24 | 0.29 | 1.00 |
| b[11,WA] | 0.19 | 0.17 | 0.22 | 1.00 |
| b[12,WA] | 0.14 | 0.11 | 0.17 | 1.00 |
| b[13,WA] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[14,WA] | 0.16 | 0.13 | 0.18 | 1.00 |
| b[15,WA] | 0.17 | 0.14 | 0.19 | 1.00 |
| b[16,WA] | 0.18 | 0.15 | 0.20 | 1.00 |
| b[17,WA] | 0.16 | 0.14 | 0.19 | 1.00 |
| b[18,WA] | 0.18 | 0.15 | 0.21 | 1.00 |

| | | | | |
|---|---|---|---|---|
| b[19,WA] | 0.24 | 0.22 | 0.27 | 1.00 |
| b[20,WA] | 0.26 | 0.23 | 0.28 | 1.00 |
| b[21,WA] | 0.19 | 0.17 | 0.22 | 1.00 |
| b[1,WI] | −0.06 | −0.09 | −0.03 | 1.00 |
| b[2,WI] | 0.23 | 0.20 | 0.25 | 1.00 |
| b[3,WI] | 0.15 | 0.13 | 0.18 | 1.00 |
| b[4,WI] | 0.18 | 0.16 | 0.21 | 1.00 |
| b[5,WI] | 0.11 | 0.08 | 0.14 | 1.00 |
| b[6,WI] | 0.28 | 0.25 | 0.31 | 1.00 |
| b[7,WI] | 0.17 | 0.14 | 0.20 | 1.00 |
| b[8,WI] | 0.15 | 0.12 | 0.18 | 1.00 |
| b[9,WI] | 0.16 | 0.14 | 0.19 | 1.00 |
| b[10,WI] | 0.16 | 0.13 | 0.19 | 1.00 |
| b[11,WI] | 0.18 | 0.15 | 0.21 | 1.00 |
| b[12,WI] | 0.19 | 0.16 | 0.21 | 1.00 |
| b[13,WI] | 0.19 | 0.16 | 0.21 | 1.00 |
| b[14,WI] | 0.19 | 0.16 | 0.21 | 1.00 |
| b[15,WI] | 0.19 | 0.17 | 0.22 | 1.00 |
| b[16,WI] | 0.19 | 0.17 | 0.22 | 1.00 |
| b[17,WI] | 0.20 | 0.18 | 0.23 | 1.00 |
| b[18,WI] | 0.18 | 0.15 | 0.21 | 1.00 |
| b[19,WI] | 0.24 | 0.21 | 0.27 | 1.00 |
| b[20,WI] | 0.22 | 0.20 | 0.25 | 1.00 |
| b[21,WI] | 0.23 | 0.20 | 0.26 | 1.00 |
| b[1,WV] | 0.04 | 0.01 | 0.07 | 1.00 |
| b[2,WV] | 0.06 | 0.04 | 0.09 | 1.00 |
| b[3,WV] | 0.08 | 0.05 | 0.10 | 1.00 |
| b[4,WV] | 0.05 | 0.02 | 0.08 | 1.00 |
| b[5,WV] | 0.08 | 0.05 | 0.11 | 1.00 |
| b[6,WV] | 0.10 | 0.07 | 0.12 | 1.00 |
| b[7,WV] | 0.17 | 0.14 | 0.19 | 1.00 |
| b[8,WV] | 0.21 | 0.18 | 0.23 | 1.00 |
| b[9,WV] | 0.21 | 0.18 | 0.24 | 1.00 |
| b[10,WV] | 0.30 | 0.28 | 0.33 | 1.00 |
| b[11,WV] | 0.30 | 0.27 | 0.33 | 1.00 |
| b[12,WV] | 0.31 | 0.28 | 0.33 | 1.00 |
| b[13,WV] | 0.33 | 0.30 | 0.35 | 1.00 |
| b[14,WV] | 0.25 | 0.23 | 0.28 | 1.00 |
| b[15,WV] | 0.28 | 0.25 | 0.30 | 1.00 |
| b[16,WV] | 0.24 | 0.22 | 0.27 | 1.00 |
| b[17,WV] | 0.25 | 0.22 | 0.27 | 1.00 |
| b[18,WV] | 0.24 | 0.22 | 0.27 | 1.00 |
| b[19,WV] | 0.23 | 0.20 | 0.26 | 1.00 |
| b[20,WV] | 0.21 | 0.18 | 0.23 | 1.00 |

| | | | | |
|---|---|---|---|---|
| b[21,WV] | 0.24 | 0.21 | 0.27 | 1.00 |
| b[1,WY] | −0.04 | −0.07 | −0.01 | 1.00 |
| b[2,WY] | 0.01 | −0.02 | 0.04 | 1.00 |
| b[3,WY] | −0.13 | −0.15 | −0.10 | 1.00 |
| b[4,WY] | −0.06 | −0.09 | −0.04 | 1.00 |
| b[5,WY] | −0.09 | −0.12 | −0.07 | 1.00 |
| b[6,WY] | −0.16 | −0.19 | −0.14 | 1.00 |
| b[7,WY] | −0.12 | −0.14 | −0.09 | 1.00 |
| b[8,WY] | −0.25 | −0.28 | −0.22 | 1.00 |
| b[9,WY] | −0.15 | −0.18 | −0.13 | 1.00 |
| b[10,WY] | −0.23 | −0.25 | −0.20 | 1.00 |
| b[11,WY] | −0.19 | −0.22 | −0.17 | 1.00 |
| b[12,WY] | −0.19 | −0.21 | −0.16 | 1.00 |
| b[13,WY] | −0.19 | −0.22 | −0.17 | 1.00 |
| b[14,WY] | −0.18 | −0.21 | −0.16 | 1.00 |
| b[15,WY] | −0.18 | −0.21 | −0.16 | 1.00 |
| b[16,WY] | −0.18 | −0.20 | −0.15 | 1.00 |
| b[17,WY] | −0.18 | −0.21 | −0.15 | 1.00 |
| b[18,WY] | −0.18 | −0.21 | −0.15 | 1.00 |
| b[19,WY] | −0.20 | −0.23 | −0.17 | 1.00 |
| b[20,WY] | −0.19 | −0.21 | −0.16 | 1.00 |
| b[21,WY] | −0.16 | −0.19 | −0.13 | 1.00 |
| tau | 1,633.43 | 1,592.79 | 1,673.36 | 1.00 |