Brushing model 1

# Objective

We want to analyze variations in the amount of time spent brushing each dental region, session-to-session and among participants.

In particular, we want to know whether the participants spent more time brushing their lower teeth than upper teeth, left versus right, and inner (lingual) versus outer (buccal) surfaces.

We performed these analyses in R version 4.1.1 (citation: R Core Team (2021). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL: https://www.R-project.org/.), using the regression modeling package “glmmTMB” (citation: Mollie E. Brooks, Kasper Kristensen, Koen J. van Benthem, Arni Magnusson, Casper W. Berg, Anders Nielsen, Hans J. Skaug, Martin Maechler, and Benjamin M. Bolker (2017). glmmTMB Balances Speed and Flexibility Among Packages for Zero-inflated Generalized Linear Mixed Modeling. The R Journal, 9(2), 378-400.)

# Model for brushing duration per region

Here we fit a zero-inflated negative binomial regression model for the amount of time (measured in counts of 25 Hz samples) spent brushing each region, with a log-link for the count submodel and a logistic link for the zero-inflation submodel. Both submodels had fixed effects for tooth surface, mouth side, and jaw, and random effects on the intercept by session nested in participant, to account for person-to-person and session-to-session differences in overall brushing duration, and person-specific overdispersion parameters to account for person-to-person differences in residual variance. The count submodel also included participant-specific random effects for tooth surface, mouth side, and jaw. We attempted to add participant-specific random effects for tooth surface, mouth side, and jaw in the zero-inflation submodel, but the estimation algorithm failed to converge for that extended model.

We used the following parameterization of the negative binomial distribution:

Hence:

Note: larger values of correspond to smaller variances.

We modeled as follows:

The AIC for this model was 18,598.76, which was 69,183.57 less than a zero-inflated Poisson model with the same fixed and random effects. The BIC for this model was 18,865.64, which was 69,116.85 less than the zero-inflated Poisson model with the same fixed and random effects.

**Parameter estimates:**

*Fixed Effects (Count Model)*

| Parameter | Log-Mean | SE | 95% CI | p |
| --- | --- | --- | --- | --- |
| (Intercept) | 5.33 | 0.11 | (5.12, 5.54) | < .001 |
| Surface (Lingual) | -0.78 | 0.22 | (-1.21, -0.35) | < .001 |
| Surface (Occlusal) | -0.80 | 0.16 | (-1.13, -0.48) | < .001 |
| Side (Anterior) | -0.01 | 0.09 | (-0.19, 0.17) | 0.892 |
| Side (Left) | -3.29e-03 | 0.08 | (-0.15, 0.15) | 0.966 |
| Jaw (Maxillar) | 0.09 | 0.14 | (-0.18, 0.37) | 0.508 |

*Fixed Effects (Zero-Inflated Model)*

| Parameter | Log-Odds | SE | 95% CI | p |
| --- | --- | --- | --- | --- |
| (Intercept) | -4.25 | 0.43 | (-5.09, -3.41) | < .001 |
| Surface (Lingual) | 3.04 | 0.23 | (2.59, 3.49) | < .001 |
| Surface (Occlusal) | 3.47 | 0.25 | (2.98, 3.96) | < .001 |
| Side (Anterior) | 0.17 | 0.19 | (-0.20, 0.53) | 0.363 |
| Side (Left) | 0.13 | 0.14 | (-0.16, 0.41) | 0.381 |
| Jaw (Maxillar) | 0.68 | 0.13 | (0.42, 0.94) | < .001 |

*Dispersion*

| Parameter | Coefficient | SE | 95% CI | p |
| --- | --- | --- | --- | --- |
| Participant1 | 1.23 | 0.12 | (1.00, 1.46) | < .001 |
| Participant2 | 1.55 | 0.14 | (1.29, 1.82) | < .001 |
| Participant3 | 1.16 | 0.13 | (0.91, 1.40) | < .001 |
| Participant4 | 0.84 | 0.14 | (0.58, 1.11) | < .001 |
| Participant5 | 0.64 | 0.13 | (0.38, 0.90) | < .001 |
| Participant6 | 0.74 | 0.16 | (0.43, 1.05) | < .001 |
| Participant7 | 1.05 | 0.19 | (0.68, 1.43) | < .001 |
| Participant8 | 0.77 | 0.12 | (0.54, 1.00) | < .001 |
| Participant9 | 0.56 | 0.12 | (0.31, 0.80) | < .001 |
| Participant10 | 0.98 | 0.11 | (0.75, 1.20) | < .001 |
| Participant11 | 0.72 | 0.14 | (0.44, 0.99) | < .001 |
| Participant12 | 0.94 | 0.12 | (0.70, 1.18) | < .001 |

*Random Effects Variances*

| Parameter | Coefficient |
| --- | --- |
| SD (Intercept: Participant) | 0.34 |
| SD (Intercept: Participant:Session) | 9.56e-05 |
| SD (SurfaceLingual: Participant) | 0.68 |
| SD (SurfaceOcclusal: Participant) | 0.54 |
| SD (JawMaxillar: Participant) | 0.47 |
| SD (SideAnterior: Participant) | 0.26 |
| SD (SideLeft: Participant) | 0.22 |
| Cor (Intercept~SurfaceLingual: Participant) | -0.47 |
| Cor (Intercept~SurfaceOcclusal: Participant) | 0.02 |
| Cor (Intercept~JawMaxillar: Participant) | -0.28 |
| Cor (Intercept~SideAnterior: Participant) | -0.24 |
| Cor (Intercept~SideLeft: Participant) | -0.63 |

*Random Effects (Zero-Inflated Model)*

| Parameter | Coefficient |
| --- | --- |
| SD (Intercept: [*Session:Participant*](Session:Participant)) | 0.12 |
| SD (Intercept: Participant) | 1.20 |

**Estimates of participant-level random effects for count submodel:**

| Participant # | Parameter | Estimate | Std. Error | Pr(>|z|) | 2.5 % | 97.5 % |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | (Intercept) | 0.132 | 0.141 | 0.347 | -0.143 | 0.408 |
| 2 | (Intercept) | 0.363 | 0.140 | 0.010 | 0.087 | 0.638 |
| 3 | (Intercept) | -0.008 | 0.152 | 0.958 | -0.306 | 0.290 |
| 4 | (Intercept) | 0.506 | 0.167 | 0.003 | 0.178 | 0.834 |
| 5 | (Intercept) | -0.305 | 0.181 | 0.091 | -0.660 | 0.049 |
| 6 | (Intercept) | 0.091 | 0.166 | 0.584 | -0.234 | 0.416 |
| 7 | (Intercept) | -0.225 | 0.206 | 0.275 | -0.629 | 0.179 |
| 8 | (Intercept) | -0.273 | 0.162 | 0.092 | -0.589 | 0.044 |
| 9 | (Intercept) | -0.473 | 0.177 | 0.007 | -0.820 | -0.127 |
| 10 | (Intercept) | -0.114 | 0.155 | 0.459 | -0.417 | 0.188 |
| 11 | (Intercept) | 0.496 | 0.185 | 0.007 | 0.134 | 0.858 |
| 12 | (Intercept) | -0.267 | 0.158 | 0.091 | -0.575 | 0.042 |
| 1 | SurfaceLingual | 0.188 | 0.239 | 0.431 | -0.280 | 0.657 |
| 2 | SurfaceLingual | 0.498 | 0.236 | 0.034 | 0.037 | 0.960 |
| 3 | SurfaceLingual | 0.401 | 0.240 | 0.095 | -0.070 | 0.872 |
| 4 | SurfaceLingual | -0.593 | 0.264 | 0.025 | -1.110 | -0.076 |
| 5 | SurfaceLingual | -0.276 | 0.257 | 0.282 | -0.779 | 0.227 |
| 6 | SurfaceLingual | -0.794 | 0.425 | 0.061 | -1.627 | 0.038 |
| 7 | SurfaceLingual | -0.951 | 0.869 | 0.274 | -2.654 | 0.752 |
| 8 | SurfaceLingual | 0.547 | 0.251 | 0.029 | 0.055 | 1.039 |
| 9 | SurfaceLingual | 0.940 | 0.262 | <0.001 | 0.426 | 1.453 |
| 10 | SurfaceLingual | 0.496 | 0.245 | 0.043 | 0.016 | 0.975 |
| 11 | SurfaceLingual | -1.015 | 0.304 | 0.001 | -1.610 | -0.420 |
| 12 | SurfaceLingual | 0.504 | 0.249 | 0.043 | 0.015 | 0.992 |
| 1 | SurfaceOcclusal | 0.312 | 0.194 | 0.108 | -0.069 | 0.693 |
| 2 | SurfaceOcclusal | 0.091 | 0.225 | 0.686 | -0.350 | 0.533 |
| 3 | SurfaceOcclusal | -0.996 | 0.257 | <0.001 | -1.499 | -0.492 |
| 4 | SurfaceOcclusal | -0.545 | 0.253 | 0.032 | -1.042 | -0.048 |
| 5 | SurfaceOcclusal | -0.824 | 0.259 | 0.001 | -1.332 | -0.315 |
| 6 | SurfaceOcclusal | 0.567 | 0.218 | 0.009 | 0.140 | 0.994 |
| 7 | SurfaceOcclusal | 0.109 | 0.297 | 0.714 | -0.474 | 0.692 |
| 8 | SurfaceOcclusal | 0.390 | 0.214 | 0.068 | -0.029 | 0.809 |
| 9 | SurfaceOcclusal | -0.311 | 0.259 | 0.229 | -0.819 | 0.196 |
| 10 | SurfaceOcclusal | 0.569 | 0.208 | 0.006 | 0.161 | 0.977 |
| 11 | SurfaceOcclusal | 0.301 | 0.236 | 0.201 | -0.161 | 0.764 |
| 12 | SurfaceOcclusal | 0.266 | 0.209 | 0.204 | -0.144 | 0.677 |
| 1 | JawMaxillar | -0.148 | 0.164 | 0.365 | -0.469 | 0.172 |
| 2 | JawMaxillar | -0.046 | 0.164 | 0.781 | -0.366 | 0.275 |
| 3 | JawMaxillar | -0.084 | 0.168 | 0.615 | -0.414 | 0.245 |
| 4 | JawMaxillar | -0.340 | 0.193 | 0.079 | -0.719 | 0.039 |
| 5 | JawMaxillar | -0.476 | 0.193 | 0.014 | -0.854 | -0.097 |
| 6 | JawMaxillar | 0.190 | 0.195 | 0.330 | -0.192 | 0.573 |
| 7 | JawMaxillar | 1.404 | 0.236 | <0.001 | 0.941 | 1.866 |
| 8 | JawMaxillar | -0.033 | 0.177 | 0.850 | -0.380 | 0.313 |
| 9 | JawMaxillar | 0.001 | 0.198 | 0.996 | -0.387 | 0.389 |
| 10 | JawMaxillar | -0.097 | 0.172 | 0.571 | -0.434 | 0.240 |
| 11 | JawMaxillar | -0.264 | 0.212 | 0.212 | -0.679 | 0.150 |
| 12 | JawMaxillar | -0.107 | 0.177 | 0.544 | -0.453 | 0.239 |
| 1 | SideAnterior | 0.177 | 0.139 | 0.203 | -0.095 | 0.448 |
| 2 | SideAnterior | -0.031 | 0.130 | 0.813 | -0.285 | 0.223 |
| 3 | SideAnterior | -0.009 | 0.143 | 0.951 | -0.289 | 0.271 |
| 4 | SideAnterior | 0.020 | 0.162 | 0.901 | -0.297 | 0.338 |
| 5 | SideAnterior | 0.335 | 0.186 | 0.072 | -0.030 | 0.699 |
| 6 | SideAnterior | -0.426 | 0.271 | 0.116 | -0.958 | 0.105 |
| 7 | SideAnterior | -0.464 | 0.230 | 0.043 | -0.914 | -0.014 |
| 8 | SideAnterior | 0.024 | 0.148 | 0.872 | -0.265 | 0.313 |
| 9 | SideAnterior | 0.088 | 0.168 | 0.600 | -0.241 | 0.418 |
| 10 | SideAnterior | 0.236 | 0.151 | 0.118 | -0.060 | 0.533 |
| 11 | SideAnterior | -0.116 | 0.184 | 0.529 | -0.477 | 0.245 |
| 12 | SideAnterior | 0.170 | 0.148 | 0.248 | -0.119 | 0.460 |
| 1 | SideLeft | -0.009 | 0.112 | 0.934 | -0.229 | 0.210 |
| 2 | SideLeft | -0.204 | 0.120 | 0.090 | -0.439 | 0.032 |
| 3 | SideLeft | 0.086 | 0.125 | 0.489 | -0.159 | 0.331 |
| 4 | SideLeft | -0.034 | 0.149 | 0.817 | -0.326 | 0.257 |
| 5 | SideLeft | 0.293 | 0.158 | 0.065 | -0.018 | 0.603 |
| 6 | SideLeft | -0.074 | 0.154 | 0.631 | -0.375 | 0.227 |
| 7 | SideLeft | -0.313 | 0.200 | 0.118 | -0.705 | 0.080 |
| 8 | SideLeft | 0.091 | 0.122 | 0.458 | -0.148 | 0.329 |
| 9 | SideLeft | 0.290 | 0.134 | 0.030 | 0.028 | 0.552 |
| 10 | SideLeft | -0.025 | 0.120 | 0.836 | -0.261 | 0.211 |
| 11 | SideLeft | -0.321 | 0.171 | 0.061 | -0.657 | 0.015 |
| 12 | SideLeft | 0.249 | 0.137 | 0.068 | -0.019 | 0.518 |

**Estimates of participant-level random effects for zero-inflation submodel:**

| Participant # | Parameter | Estimate | Std. Error | Pr(>|z|) | 2.5 % | 97.5 % |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | (Intercept) | -1.467 | 0.449 | 0.001 | -2.347 | -0.587 |
| 2 | (Intercept) | 0.430 | 0.396 | 0.278 | -0.347 | 1.207 |
| 3 | (Intercept) | -0.306 | 0.405 | 0.450 | -1.101 | 0.488 |
| 4 | (Intercept) | 0.541 | 0.396 | 0.172 | -0.235 | 1.318 |
| 5 | (Intercept) | 0.151 | 0.399 | 0.704 | -0.631 | 0.933 |
| 6 | (Intercept) | 1.162 | 0.397 | 0.003 | 0.385 | 1.939 |
| 7 | (Intercept) | 2.496 | 0.414 | <0.001 | 1.684 | 3.308 |
| 8 | (Intercept) | -1.389 | 0.445 | 0.002 | -2.261 | -0.516 |
| 9 | (Intercept) | -0.091 | 0.402 | 0.821 | -0.879 | 0.697 |
| 10 | (Intercept) | -1.765 | 0.471 | <0.001 | -2.688 | -0.842 |
| 11 | (Intercept) | 0.796 | 0.396 | 0.044 | 0.021 | 1.572 |
| 12 | (Intercept) | -0.399 | 0.407 | 0.327 | -1.197 | 0.399 |

## Possible within-between variability comparison:

The within-person, between-session variability much smaller than between-person variability, on the log-mean scale.

(Doesn’t account for the zero-inflation part of the model or the overdispersion parameter).

# Brushing duration with excessive pressure

Again, we fit a zero-inflated negative binomial model; both the zero-inflation and count submodels include fixed effects for tooth surface, side, and jaw, and random effects on the intercept by participant and session. Extended models adding participant-level random effects on tooth surface, side and jaw and participant-specific overdispersion parameters failed to converge.

Note: larger values of correspond to smaller variances.

The AIC for this model was 1,252.154, which was 274.6046 less than a zero-inflated Poisson model with the same fixed and random effects. The BIC for this model was 1,346.675, which was 269.0445 less than the zero-inflated Poisson model with the same fixed and random effects.

**Parameter Estimates**

*Fixed Effects (Count Model)*

| Parameter | Log-Mean | SE | 95% CI | p |
| --- | --- | --- | --- | --- |
| (Intercept) | 2.12 | 0.30 | (1.53, 2.71) | < .001 |
| Surface (Lingual) | 0.01 | 0.29 | (-0.56, 0.58) | 0.971 |
| Surface (Occlusal) | 0.54 | 0.22 | (0.10, 0.98) | 0.015 |
| Side (Anterior) | 0.04 | 0.32 | (-0.58, 0.66) | 0.889 |
| Side (Left) | -0.04 | 0.20 | (-0.44, 0.37) | 0.862 |
| Jaw (Maxillar) | -0.10 | 0.21 | (-0.51, 0.30) | 0.612 |

*Fixed Effects (Zero-Inflated Model)*

| Parameter | Log-Odds | SE | 95% CI | p |
| --- | --- | --- | --- | --- |
| (Intercept) | 4.87 | 0.93 | (3.04, 6.69) | < .001 |
| Surface (Lingual) | 0.93 | 0.34 | (0.27, 1.60) | 0.006 |
| Surface (Occlusal) | -1.01 | 0.29 | (-1.59, -0.44) | < .001 |
| Side (Anterior) | -0.20 | 0.37 | (-0.93, 0.52) | 0.583 |
| Side (Left) | -0.38 | 0.27 | (-0.91, 0.14) | 0.151 |
| Jaw (Maxillar) | 0.59 | 0.24 | (0.11, 1.07) | 0.016 |

*Dispersion*

| Parameter | Coefficient |
| --- | --- |
| (Intercept) | 0.72 |

*Random Effects Variances*

| Parameter | Coefficient | 95% CI |
| --- | --- | --- |
| SD (Intercept: <Session:Participant>) | 0.27 | (0.08, 0.87) |
| SD (Intercept: Participant) | 0.38 | (0.08, 0.87) |
| SD (Residual) | 2.06 | (1.30, 3.27) |

*Random Effects (Zero-Inflated Model)*

| Parameter | Coefficient | 95% CI |
| --- | --- | --- |
| SD (Intercept: <Session:Participant>) | 0.69 | (0.40, 1.19) |
| SD (Intercept: Participant) | 2.39 | (0.40, 1.19) |

**Estimates of participant-level random effects for count submodel:**

| Participant # | Parameter | Estimate | Std. Error | Pr(>|z|) | 2.5 % | 97.5 % |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | (Intercept) | 0.289 | 0.232 | 0.213 | -0.166 | 0.743 |
| 2 | (Intercept) | -0.002 | 0.380 | 0.996 | -0.747 | 0.743 |
| 3 | (Intercept) | -0.002 | 0.380 | 0.996 | -0.747 | 0.743 |
| 4 | (Intercept) | -0.002 | 0.380 | 0.996 | -0.747 | 0.743 |
| 5 | (Intercept) | -0.158 | 0.302 | 0.600 | -0.750 | 0.434 |
| 6 | (Intercept) | -0.599 | 0.349 | 0.086 | -1.283 | 0.084 |
| 7 | (Intercept) | -0.002 | 0.380 | 0.996 | -0.747 | 0.743 |
| 8 | (Intercept) | 0.206 | 0.346 | 0.552 | -0.473 | 0.885 |
| 9 | (Intercept) | -0.002 | 0.380 | 0.996 | -0.747 | 0.743 |
| 10 | (Intercept) | -0.080 | 0.254 | 0.753 | -0.578 | 0.418 |
| 11 | (Intercept) | 0.277 | 0.254 | 0.276 | -0.221 | 0.775 |
| 12 | (Intercept) | -0.022 | 0.324 | 0.947 | -0.656 | 0.613 |

**Estimates of participant-level random effects for zero-inflation submodel:**

| Participant # | Parameter | Estimate | Std. Error | Pr(>|z|) | 2.5 % | 97.5 % |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | (Intercept) | -3.737 | 0.938 | <0.001 | -5.576 | -1.898 |
| 2 | (Intercept) | 1.594 | 1.576 | 0.312 | -1.494 | 4.682 |
| 3 | (Intercept) | 1.594 | 1.576 | 0.312 | -1.494 | 4.682 |
| 4 | (Intercept) | 1.594 | 1.576 | 0.312 | -1.494 | 4.682 |
| 5 | (Intercept) | -1.269 | 1.002 | 0.205 | -3.233 | 0.695 |
| 6 | (Intercept) | -2.172 | 0.963 | 0.024 | -4.060 | -0.284 |
| 7 | (Intercept) | 1.594 | 1.576 | 0.312 | -1.494 | 4.682 |
| 8 | (Intercept) | -0.329 | 1.089 | 0.763 | -2.463 | 1.805 |
| 9 | (Intercept) | 1.594 | 1.576 | 0.312 | -1.494 | 4.682 |
| 10 | (Intercept) | -2.207 | 0.956 | 0.021 | -4.082 | -0.333 |
| 11 | (Intercept) | -2.842 | 0.944 | 0.003 | -4.693 | -0.992 |
| 12 | (Intercept) | -0.717 | 1.044 | 0.492 | -2.762 | 1.328 |

# Total duration of brushing

Here we fit a negative binomial regression model for the total duration of each brushing session (again measured in counts of 25 Hz samples), with a log-link and random intercepts by participant.

Note: larger values of correspond to smaller variances.

The AIC for this model was 1,802.112, which was 8,098.558 less than a zero-inflated Poisson model with the same fixed and random effects. The BIC for this model was 1,841.137, which was 8,065.108 less than the zero-inflated Poisson model with the same fixed and random effects.

**Parameter estimates**

*Fixed Effects*

| Parameter | Log-Mean | SE | 95% CI | p |
| --- | --- | --- | --- | --- |
| (Intercept) | 7.71 | 0.04 | (7.63, 7.79) | < .001 |

*Dispersion*

| Parameter | Coefficient | SE | 95% CI | p |
| --- | --- | --- | --- | --- |
| Participant1 | 5.34 | 0.51 | (4.34, 6.34) | < .001 |
| Participant2 | 3.95 | 0.49 | (3.00, 4.91) | < .001 |
| Participant3 | 4.32 | 0.48 | (3.37, 5.26) | < .001 |
| Participant4 | 3.78 | 0.47 | (2.86, 4.71) | < .001 |
| Participant5 | 0.97 | 0.52 | (-0.05, 1.99) | 0.064 |
| Participant6 | 2.97 | 0.47 | (2.06, 3.89) | < .001 |
| Participant7 | 4.10 | 0.48 | (3.17, 5.04) | < .001 |
| Participant8 | 3.19 | 0.47 | (2.27, 4.10) | < .001 |
| Participant9 | 2.21 | 0.46 | (1.30, 3.12) | < .001 |
| Participant10 | 5.24 | 0.51 | (4.24, 6.23) | < .001 |
| Participant11 | 3.68 | 0.47 | (2.76, 4.60) | < .001 |
| Participant12 | 2.86 | 0.46 | (1.95, 3.77) | < .001 |

*Random Effects Variances*

| Parameter | Coefficient | 95% CI |
| --- | --- | --- |
| SD (Intercept: Participant) | 0.12 | (0.06, 0.22) |

**Estimates of participant-level random effects:**

| Participant # | Parameter | Estimate | Std. Error | Pr(>|z|) | 2.5 % | 97.5 % |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | (Intercept) | 0.172 | 0.048 | <0.001 | 0.078 | 0.266 |
| 2 | (Intercept) | 0.185 | 0.061 | 0.003 | 0.065 | 0.305 |
| 3 | (Intercept) | -0.021 | 0.052 | 0.684 | -0.123 | 0.081 |
| 4 | (Intercept) | 0.045 | 0.059 | 0.438 | -0.069 | 0.160 |
| 5 | (Intercept) | -0.145 | 0.154 | 0.346 | -0.446 | 0.156 |
| 6 | (Intercept) | -0.085 | 0.069 | 0.222 | -0.220 | 0.051 |
| 7 | (Intercept) | -0.028 | 0.054 | 0.604 | -0.133 | 0.078 |
| 8 | (Intercept) | -0.064 | 0.065 | 0.322 | -0.192 | 0.063 |
| 9 | (Intercept) | -0.095 | 0.088 | 0.277 | -0.267 | 0.076 |
| 10 | (Intercept) | 0.124 | 0.048 | 0.010 | 0.030 | 0.219 |
| 11 | (Intercept) | -0.029 | 0.058 | 0.617 | -0.143 | 0.085 |
| 12 | (Intercept) | -0.071 | 0.071 | 0.318 | -0.210 | 0.068 |

Here is a table of participant-specific estimates:

| Participant | sample mean (seconds) | sample var (seconds^2) | sample sd (seconds) | lambda (samples) | lambda (seconds) | kappa | model var (seconds^2) | model sd (seconds) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 107 | 58.2 | 7.63 | 2646 | 106 | 209 | 57.8 | 7.6 |
| 2 | 110 | 195 | 14 | 2680 | 107 | 52.2 | 224 | 15 |
| 3 | 87 | 103 | 10.1 | 2180 | 87.2 | 75.1 | 105 | 10.2 |
| 4 | 93.9 | 171 | 13.1 | 2330 | 93.2 | 44 | 201 | 14.2 |
| 5 | 46.7 | 477 | 21.8 | 1927 | 77.1 | 2.63 | 2263 | 47.6 |
| 6 | 79.3 | 292 | 17.1 | 2046 | 81.9 | 19.6 | 345 | 18.6 |
| 7 | 86.3 | 113 | 10.6 | 2166 | 86.6 | 60.6 | 127 | 11.3 |
| 8 | 81.9 | 287 | 16.9 | 2088 | 83.5 | 24.2 | 291 | 17.1 |
| 9 | 74.9 | 486 | 22 | 2025 | 81 | 9.15 | 720 | 26.8 |
| 10 | 101 | 59.9 | 7.74 | 2522 | 101 | 188 | 58.2 | 7.63 |
| 11 | 86.1 | 192 | 13.8 | 2163 | 86.5 | 39.6 | 192 | 13.9 |
| 12 | 80.5 | 368 | 19.2 | 2074 | 83 | 17.4 | 399 | 20 |