

# Geologic Time

Older

Younger

|                      | Cretaceous    | Paleocene | Eocene       | Oligocene | Miocene      | Pliocene      | Pleistocene   | Anthropocene  |
|----------------------|---------------|-----------|--------------|-----------|--------------|---------------|---------------|---------------|
| <b>Frequency</b>     |               |           |              |           |              |               |               |               |
| Total                | 36.96         | 32.79     | 29.43        | 26.28     | 27.08        | 38.04         | 34.60         | <b>85.03*</b> |
| SD                   | 14.28         | 16.25     | 15.43        | 9.27      | 19.54        | 18.30         | -             | 6.27          |
| Sample size          | 5             | 19        | 23           | 6         | 8            | 2             | 1             | 9             |
| Specialized          | 14.48         | 9.72      | 7.66         | 6.92      | 7.49         | 9.76          | 17.76         | <b>52.78*</b> |
| SD                   | 4.87          | 6.70      | 4.82         | 6.48      | 9.45         | 1.87          | -             | 13.42         |
| Sample size          | 5             | 18        | 20           | 6         | 8            | 2             | 1             | 9             |
| Mine                 | 2.16          | 0.80      | 1.01         | 0.27      | 1.15         | 0.93          | 1.68          | <b>6.97*</b>  |
| SD                   | 2.49          | 0.98      | 0.92         | 0.37      | 1.39         | 1.05          | -             | 5.31          |
| Sample Size          | 5             | 19        | 23           | 6         | 8            | 2             | 1             | 9             |
| Gall                 | 3.1           | 3.12      | 2.62         | 5.08      | 3.86         | <b>6.56*</b>  | <b>11.78*</b> | <b>16.82*</b> |
| SD                   | 2.68          | 4.51      | 2.3          | 6.80      | 5.41         | 0.53          | -             | 12.67         |
| Sample size          | 5             | 19        | 23           | 6         | 8            | 2             | 1             | 9             |
| Hole Feeding         | 24.88         | 20.68     | 20.40        | 13.95     | 14.82        | 20.00         | 9.72          | <b>56.13*</b> |
| SD                   | 5.98          | 10.43     | 14.38        | 7.85      | 11.87        | 10.28         | -             | 11.23         |
| Sample Size          | 5             | 19        | 23           | 6         | 8            | 2             | 1             | 9             |
| Margin Feeding       | 9.72          | 9.36      | 9.76         | 6.47      | 9.03         | 5.88          | 7.1           | <b>49.78*</b> |
| SD                   | 6.84          | 9.39      | 6.84         | 2.43      | 9.37         | 5.67          | -             | 12.09         |
| Sample Size          | 5             | 19        | 23           | 6         | 8            | 2             | 1             | 9             |
| Skeletonization      | 3.01          | 3.53      | 3.82         | 1.92      | 1.18         | 6.92          | <b>7.66*</b>  | <b>10.34*</b> |
| SD                   | 1.09          | 3.18      | 4.04         | 1.98      | 0.80         | 6.07          | -             | 5.12          |
| Sample size          | 5             | 19        | 23           | 6         | 8            | 2             | 1             | 9             |
| Surface Feeding      | 2.54          | 1.88      | 1.36         | 1.11      | 4.62         | 1.85          | 0.93          | <b>31.06*</b> |
| SD                   | 4.97          | 2.43      | 1.46         | 1.25      | 8.22         | 0.31          | -             | 10.86         |
| Sampled size         | 5             | 19        | 23           | 6         | 8            | 2             | 1             | 9             |
| Piercing and sucking | 1.52          | 2.04      | 1.01         | 0.27      | 0.83         | 1.04          | 0.00          | 0.85          |
| SD                   | 2.71          | 3.02      | 2.00         | 0.65      | 1.70         | 0.13          | -             | 1.48          |
| Samples size         | 5             | 19        | 23           | 6         | 8            | 2             | 1             | 9             |
| Raw # of DTs         | 31.00         | 26.32     | 36.43        | 27.00     | 35.75        | 54.00         | <b>40.00*</b> | <b>47.55*</b> |
| SD                   | 5.05          | 6.86      | 19.81        | 15.26     | 19.70        | 41.01         | -             | 5.55          |
| Sample size          | 5             | 19        | 21           | 6         | 8            | 2             | 1             | 9             |
| Raw # of FFG         | <b>6.60*</b>  | 6.39      | <b>6.50*</b> | 5.67      | <b>6.5*</b>  | <b>7.00*</b>  | 6.00          | <b>7.00*</b>  |
| SD                   | 0.89          | 0.61      | 1.05         | 0.82      | 0.53         | 0.00          | -             | 0.00          |
| Sample size          | 5             | 18        | 20           | 6         | 8            | 2             | 1             | 9             |
| <b>Diversity</b>     |               |           |              |           |              |               |               |               |
| Total                | <b>24.77*</b> | 19.97     | 21.66        | 17.90     | 30.35        | <b>24.08*</b> | <b>32.35*</b> | <b>33.21*</b> |
| SD                   | 4.70          | 5.77      | 6.42         | 4.58      | 21.19        | 6.05          | -             | 2.99          |
| Sample size          | 5             | 18        | 20           | 6         | 4            | 2             | 1             | 9             |
| Specialized          | <b>13.48*</b> | 8.94      | 10.16        | 7.26      | 15.89        | <b>10.60*</b> | <b>17.03*</b> | <b>17.33*</b> |
| SD                   | 2.65          | 3.88      | 4.20         | 3.54      | 14.15        | 4.04          | -             | 2.20          |
| Sample size          | 5             | 18        | 20           | 6         | 4            | 2             | 1             | 9             |
| Mine                 | <b>2.88*</b>  | 1.51      | <b>2.20*</b> | 0.75      | <b>4.19*</b> | <b>1.78*</b>  | <b>3.00*</b>  | <b>3.74*</b>  |
| SD                   | 1.34          | 1.43      | 1.75         | 1.04      | 5.12         | 1.72          | -             | 1.63          |
| Sample size          | 5             | 18        | 20           | 6         | 4            | 2             | 1             | 9             |
| Gall                 | 2.71          | 2.38      | 3.10         | 3.33      | 7.00         | 4.64          | 5.57          | 3.71          |
| SD                   | 1.22          | 1.79      | 2.68         | 2.77      | 5.07         | 0.32          | -             | 2.18          |
| Sample size          | 5             | 18        | 20           | 6         | 4            | 2             | 1             | 9             |
| Shannon              | 2.68          | 1.99      | 2.01         | 2.49      | 2.49         | 3.35          | 2.40          | 1.91          |
| SD                   | 0.55          | 0.97      | 0.77         | 0.81      | 0.65         | 1.02          | -             | 0.62          |
| Sample size          | 5             | 18        | 19           | 6         | 8            | 2             | 1             | 9             |
| Pielou's J           | 0.70          | 0.59      | 0.64         | 0.66      | 0.67         | 0.76          | 0.8           | 0.61          |
| SD                   | 0.10          | 0.16      | 0.41         | 0.13      | 0.16         | 0.01          | -             | 0.12          |
| Sample Size          | 5             | 18        | 19           | 6         | 8            | 2             | 1             | 9             |
| Plant Species        | 35.56         | 22.05     | 24.75        | 34.41     | 36.11        | 56.16         | 19.21         | 18.35         |
| SD                   | 9.23          | 21.89     | 13.32        | 15.40     | 16.76        | 38.74         | -             | 9.33          |
| Sample Size          | 5             | 18        | 20           | 6         | 4            | 2             | 1             | 9             |