## Planetary Data Sheet

| Celestial |  |  |  |  |
| :--- | :--- | ---: | :--- | ---: |
| Body | $\begin{array}{c}\text { Mass } \\ \text { in } \\ 10^{24} \\ \text { kilograms }\end{array}$ | $\begin{array}{c}\text { Diameter } \\ \text { in } \\ \text { kilometers }\end{array}$ | $\begin{array}{c}\text { perihelion } \\ \text { in } \\ 10^{6}\end{array}$ | $\begin{array}{c}\text { aphelion } \\ \text { in } \\ \text { kilometers }\end{array}$ |
| kilometers |  |  |  |  |$]$

The data you see here comes from expanding NASA's own planetary fact sheet and data collated from other parts of their public website for the 13 bodies chosen. Their list leaves out Ceres and Eris. The property listed as Mean Tropical Year is not yet known for 3 bodies listed: Ceres, Pluto and Eris. For these I use available data. For the moon the synodic period is used as this is the time from full moon to full moon.

| Avg Dist <br> to Sun <br> in <br> $10^{6}$ <br> kilometers | Solar Day <br> Length <br> in <br> Hours | Sidereal Day <br> Length <br> in <br> Hours | Tropical Yr <br> Length <br> in <br> Earth <br> Days | Sidereal <br> orbit <br> period <br> in Earth <br> Days |
| :--- | :--- | :--- | :--- | :--- |
| n/a | n/a | n/a | n/a | n/a |
| 57.909 | 4222.6 | $1,407.60$ | 87.968 | 87.969 |
| 108.210 | 2802.0 | $-5,832.50$ | 224.695 | 224.701 |
| 0.3844 | 708.72 | 655.72 | 29.53 | 27.3217 |
| 149.598 | 24.0 | 23.9345 | 365.242 | 365.256 |
| 227.956 | 24.6597 | 24.6229 | 686.973 | 686.98 |
| 413.964 | 9.074 | 9.0742 | n/a | $1,681.338$ |
| 778.479 | 9.9259 | 9.925 | $4,330.595$ | $4,332.589$ |
| $1,432.041$ | 10.656 | 10.656 | $10,746.94$ | $10,759.22$ |
| $2,867.043$ | 17.232 | -17.232 | $30,588.74$ | $30,685.4$ |
| $4,514.953$ | 16.104 | 16.104 | $59,799.90$ | 60,189 |
| $5,906.4$ | 153.282 | -153.30 | n/a | 90,560 |
| $10,194.4$ | $378.72^{*}$ | $378.72^{*}$ | n/a | 204,196 |

For the Sun the Complete Solar Cycle Length
has been estimated to be $\mathbf{2 1 . 2 4}$ yrs. This was used in
conjunction with the planetary days and yrs for the scales

* Figure comes from a recent up close study in 2023, as of $1 / 2024$ NASA has not updated, though they will likely do so soon

