

At Home: Estimated like thing. Page

Merc: 3.3×10^{23} kg
Venus: 4.87×10^{24} kg
Earth: 5.97×10^{24} kg
Mars: 6.42×10^{23} kg
Jupiter: 1.9×10^{27} kg
Sat: 5.68×10^{26} kg
Uranus: 8.68×10^{25} kg
Neptune: 1.025×10^{26} kg
~~Pluto: 1.27×10^{22} kg~~

Earth: 1 AU
149,600,000 km
(from sun)

Mass of Sun: 1.99×10^{30} kg

Add only
Sun + Jupiter +
Saturn + Uranus
+ Neptune.

$$1.99 + 0.0019 + 0.000569 + 0.000102 + 0.0000869$$

$$\sim 1.9926579$$

Neptune distance (orbit mean)
30.1 AU

density: $\frac{1.9926579 \times 10^{30} \text{ kg}}{4 \times 3.14 \times (450300 \times 10^6)^3 \text{ m}^3}$

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$$= 1.74 \times 10^{-9} \frac{\text{g}}{\text{cm}^3}$$