SUN.PLANETS.IM

How many Earths?

The NASA / NSSDCA Sun Fact Sheet has precise official ratios. NASA Science has rounded official wording. This sheet keeps both.

The desk on sun.planets.im draws the scale at 109.2, and leaves the short list's "about 100 times wider" beside it.

The official comparison	Official wording
Across	The fact sheet's volumetric mean radius is 695,700 km for the Sun and 6,371 km for Earth, a ratio of 109.2. NASA Science's short list says the Sun is "about 100 times wider than Earth."
Inside	The fact sheet's volume ratio is 1,304,000. NASA Science says "it would take 1.3 million Earths to fill the Sun's volume."
Weigh	The fact sheet's mass ratio is 332,900, and its mean-density ratio is 0.255. NASA Science says it would take "more than 330,000 Earths to match the mass of the Sun."

A short quiz

1. What official radius ratio does the fact sheet give?
2. Is "about 100 times wider" a different official measurement, or rounded wording on another official page?
3. Why is the mass ratio smaller than the volume ratio?

Answers. 109.2. Rounded wording on NASA Science's facts page. The fact sheet's mean-density ratio is 0.255: the Sun is less dense than the Earth.

Wording from the NASA / NSSDCA Sun Fact Sheet and NASA Science, "Sun: Facts," re-checked 18 November 2026. sun.planets.im is independent of NASA and the NSSDCA. Typographic sheet: no photographs inside. Never look directly at the Sun without protecting your eyes.