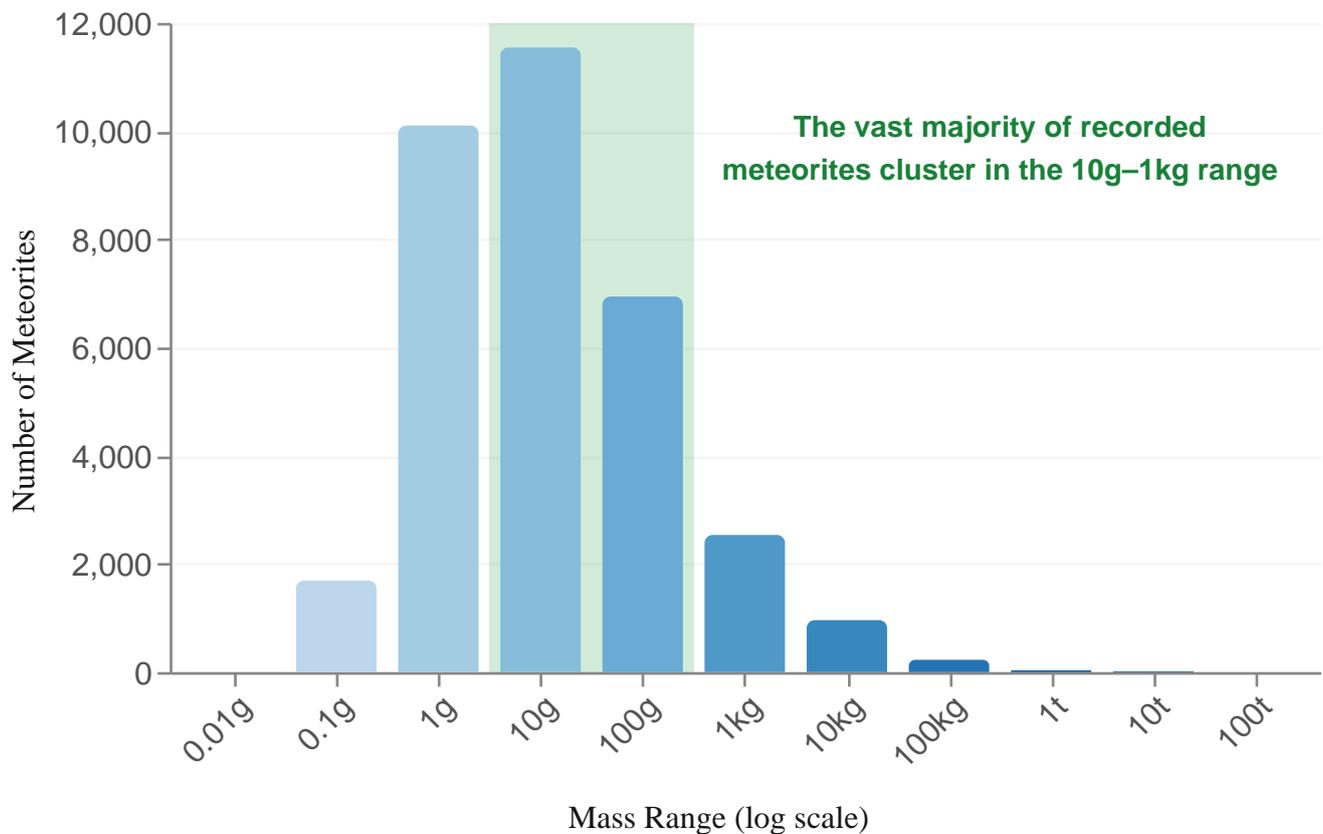


Most Meteorites Weigh Between 10 Grams and 1 Kilogram

Global meteorite landings dataset with 34,065 records spanning multiple centuries, including mass, location, and discovery type.



Distribution of meteorite masses on a logarithmic scale, highlighting the dominant 10g–1kg range

Dataset Snapshot

Global meteorite landings dataset with 34,065 records spanning multiple centuries, including mass, location, and discovery type.

Key Insight

****The distribution of meteorite masses is heavily skewed toward smaller specimens, with the 10g–1kg range containing the vast majority of all recorded meteorites.**** While masses span an extraordinary 9 orders of magnitude—from tiny 0.01g fragments to the 60-ton Hoba meteorite—most fall within a surprisingly narrow band that's convenient for collection and study.

Supporting Chart

A histogram with logarithmic mass bins clearly reveals the concentration of meteorites in the 10g–1kg range, with a light green highlight drawing attention to this dominant region.

Why This Matters

- Informs collectors and researchers where to set expectations for typical specimen sizes
- Suggests detection/recovery bias: very small meteorites are hard to find, very large ones are exceptionally rare
- Helps museums and institutions plan storage and display for typical meteorite sizes

Confidence and Limits

The pattern is robust across 34,000+ records, though it likely reflects both natural occurrence rates and human collection biases.