

Fraction of the Moon Illuminated, 2017
 at Midnight
 Eastern Standard Time

Astron. Applications Dept.
 U. S. Naval Observatory
 Washington, DC 20392-5420

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 01 | 0.08 | 0.19 | 0.08 | 0.22 | 0.29 | 0.47 | 0.52 | 0.65 | 0.76 | 0.78 | 0.88 | 0.91 |
| 02 | 0.15 | 0.29 | 0.16 | 0.33 | 0.40 | 0.57 | 0.62 | 0.74 | 0.84 | 0.86 | 0.94 | 0.97 |
| 03 | 0.23 | 0.39 | 0.25 | 0.44 | 0.51 | 0.67 | 0.71 | 0.82 | 0.90 | 0.92 | 0.98 | 1.00 |
| 04 | 0.33 | 0.50 | 0.36 | 0.55 | 0.62 | 0.76 | 0.79 | 0.88 | 0.95 | 0.97 | 1.00 | 0.99 |
| 05 | 0.43 | 0.62 | 0.47 | 0.66 | 0.72 | 0.84 | 0.86 | 0.94 | 0.99 | 1.00 | 0.98 | 0.96 |
| 06 | 0.54 | 0.73 | 0.58 | 0.76 | 0.80 | 0.90 | 0.92 | 0.98 | 1.00 | 1.00 | 0.94 | 0.90 |
| 07 | 0.66 | 0.82 | 0.69 | 0.84 | 0.88 | 0.95 | 0.96 | 1.00 | 0.99 | 0.97 | 0.87 | 0.82 |
| 08 | 0.76 | 0.90 | 0.79 | 0.91 | 0.93 | 0.98 | 0.99 | 1.00 | 0.96 | 0.92 | 0.79 | 0.73 |
| 09 | 0.85 | 0.96 | 0.87 | 0.96 | 0.97 | 1.00 | 1.00 | 0.98 | 0.90 | 0.85 | 0.68 | 0.62 |
| 10 | 0.93 | 0.99 | 0.94 | 0.99 | 0.99 | 0.99 | 0.99 | 0.94 | 0.82 | 0.75 | 0.57 | 0.51 |
| 11 | 0.98 | 1.00 | 0.98 | 1.00 | 1.00 | 0.97 | 0.96 | 0.88 | 0.73 | 0.65 | 0.46 | 0.41 |
| 12 | 1.00 | 0.98 | 1.00 | 0.99 | 0.98 | 0.94 | 0.91 | 0.80 | 0.62 | 0.54 | 0.36 | 0.31 |
| 13 | 0.99 | 0.95 | 1.00 | 0.96 | 0.95 | 0.88 | 0.85 | 0.70 | 0.51 | 0.42 | 0.26 | 0.22 |
| 14 | 0.96 | 0.89 | 0.97 | 0.92 | 0.90 | 0.81 | 0.77 | 0.60 | 0.39 | 0.32 | 0.17 | 0.15 |
| 15 | 0.91 | 0.82 | 0.93 | 0.86 | 0.84 | 0.73 | 0.67 | 0.48 | 0.29 | 0.22 | 0.10 | 0.09 |
| 16 | 0.84 | 0.74 | 0.88 | 0.79 | 0.77 | 0.63 | 0.57 | 0.37 | 0.19 | 0.14 | 0.05 | 0.04 |
| 17 | 0.76 | 0.65 | 0.81 | 0.71 | 0.68 | 0.53 | 0.46 | 0.26 | 0.11 | 0.07 | 0.02 | 0.01 |
| 18 | 0.66 | 0.56 | 0.73 | 0.62 | 0.58 | 0.42 | 0.34 | 0.17 | 0.05 | 0.03 | 0.00 | 0.00 |
| 19 | 0.57 | 0.46 | 0.64 | 0.52 | 0.48 | 0.31 | 0.24 | 0.09 | 0.01 | 0.01 | 0.01 | 0.01 |
| 20 | 0.47 | 0.37 | 0.54 | 0.42 | 0.38 | 0.21 | 0.15 | 0.03 | 0.00 | 0.00 | 0.03 | 0.03 |
| 21 | 0.38 | 0.28 | 0.45 | 0.32 | 0.28 | 0.13 | 0.07 | 0.00 | 0.01 | 0.02 | 0.07 | 0.08 |
| 22 | 0.29 | 0.20 | 0.35 | 0.23 | 0.18 | 0.06 | 0.02 | 0.00 | 0.04 | 0.06 | 0.12 | 0.13 |
| 23 | 0.21 | 0.13 | 0.26 | 0.14 | 0.10 | 0.01 | 0.00 | 0.03 | 0.10 | 0.11 | 0.19 | 0.20 |
| 24 | 0.14 | 0.07 | 0.18 | 0.07 | 0.04 | 0.00 | 0.01 | 0.07 | 0.16 | 0.18 | 0.27 | 0.29 |
| 25 | 0.08 | 0.02 | 0.10 | 0.03 | 0.01 | 0.02 | 0.04 | 0.14 | 0.24 | 0.25 | 0.36 | 0.38 |
| 26 | 0.03 | 0.00 | 0.05 | 0.00 | 0.00 | 0.06 | 0.10 | 0.21 | 0.32 | 0.34 | 0.45 | 0.48 |
| 27 | 0.01 | 0.00 | 0.01 | 0.01 | 0.03 | 0.13 | 0.18 | 0.30 | 0.42 | 0.43 | 0.55 | 0.59 |
| 28 | 0.00 | 0.03 | 0.00 | 0.05 | 0.09 | 0.22 | 0.27 | 0.39 | 0.51 | 0.53 | 0.65 | 0.69 |
| 29 | 0.02 | | 0.02 | 0.11 | 0.16 | 0.32 | 0.36 | 0.49 | 0.60 | 0.62 | 0.75 | 0.79 |
| 30 | 0.05 | | 0.06 | 0.19 | 0.26 | 0.42 | 0.46 | 0.58 | 0.70 | 0.72 | 0.84 | 0.88 |
| 31 | 0.11 | | 0.13 | | 0.36 | | 0.56 | 0.67 | | 0.81 | | 0.94 |