

U.S. Naval Observatory
Astronomical Applications Department

Sun and Moon Data for One Day

The following information is provided for **Granbury, Hood County, Texas** (longitude W97.8, latitude N32.4):

Friday
22 July 2011

Central Daylight Time

SUN

Begin civil twilight	6:11 a.m.
Sunrise	6:39 a.m.
Sun transit	1:38 p.m.
Sunset	8:36 p.m.
End civil twilight	9:03 p.m.

MOON

Moonset	12:37 p.m. on preceding day
Moonrise	12:03 a.m.
Moon transit	6:44 a.m.
Moonset	1:31 p.m.
Moonrise	12:36 a.m. on following day

Phase of the Moon on 22 July: waning gibbous with **55%** of the Moon's visible disk illuminated.

Last quarter Moon on 23 July 2011 at 12:02 a.m. Central Daylight Time.

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