Earthquake Shaking **Green Alert**

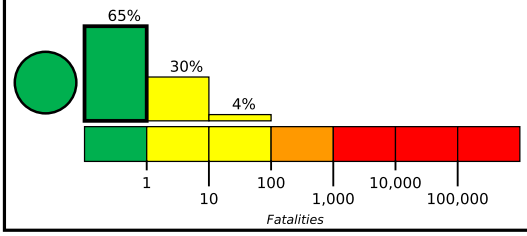
# M 3.8, 20 km N of Stanton, Texas

Origin Time: 2023-11-04 23:39:56 UTC (Sat 18:39:56 local)
Location: 32.3196° N 101.8143° W Depth: 2.2 km

**PAGER Version 5**

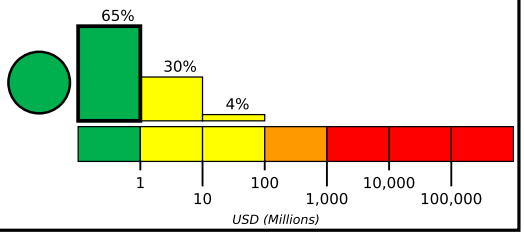
Created: 1 day, 0 hours after earthquake

## Estimated Fatalities




Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

## Estimated Economic Losses



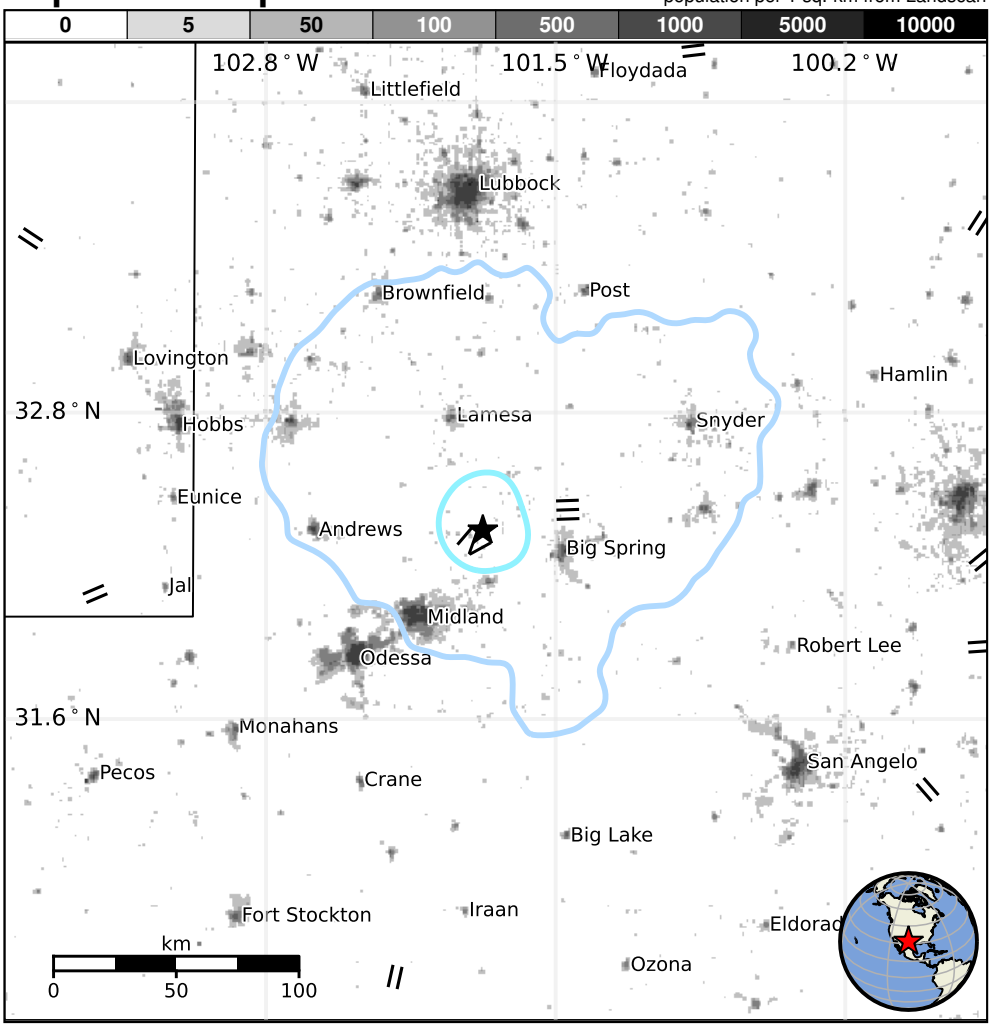

## Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | –* | 1,365k | 1k | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

## Population Exposure

population per 1 sq. km from Landscan




## Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

## Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|---|---|---|---|---|
| 1978-06-16 | 125 | 5.3 | IV(18k) | – |
| 1992-01-02 | 120 | 5.0 | V(4k) | – |
| 1995-04-14 | 270 | 5.7 | V(7k) | 0 |

## Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|---|---|---|
| III | Stanton | 2k |
| **III** | **Big Spring** | **27k** |
| **III** | **Lamesa** | **9k** |
| **III** | **Snyder** | **11k** |
| III | Gail | 0 |
| **III** | **Midland** | **111k** |
| **II** | **Odessa** | **100k** |
| **II** | **Lubbock** | **230k** |
| **II** | **Hobbs** | **34k** |
| **II** | **San Angelo** | **93k** |
| II | Abilene | 117k |

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

**https://earthquake.usgs.gov/earthquakes/eventpage/tx2023vqsh#pager**

**Event ID: tx2023vqsh**