

Ammonium Nitrate Explosion Craters

The depth of an ammonium nitrate warehouse explosion crater varies significantly depending on the amount of material and the specific circumstances, but can be tens of meters deep, as seen with the Beirut blast which left a 43-meter (141-foot) deep crater. Other explosions have resulted in shallower craters, such as the 10-foot deep crater from the 2013 West, Texas explosion.

- **Beirut, Lebanon (2020):** The detonation of thousands of tons of ammonium nitrate resulted in a crater approximately **43 meters (141 feet) deep**.
- **West, Texas (2013):** An explosion at a fertilizer plant left a crater about **10 feet deep** and 93 feet wide.
- **Roseburg, Oregon (1959):** An explosion involving both dynamite and ammonium nitrate created a crater **12 feet deep** and 52 feet in diameter.
- **Oppau, Germany (1921):** A fertilizer explosion at a chemical plant left a crater over **60 feet deep**.
- **Tianjin, China (2015):** An explosion of various hazardous materials, including 800 tons of ammonium nitrate, created a crater that was **2.7 meters deep**. [[1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#)]

AI responses may include mistakes.

[1] <https://www.timesofisrael.com/beirut-port-blast-crater-is-43-meters-deep-lebanese-security-official-says/>

[2] <https://www.thejakartapost.com/news/2020/08/10/beirut-port-blast-crater-43-meters-deep-security-official.html>

[3] <https://www.nytimes.com/2013/04/25/us/texas-fertilizer-plant-fell-through-cracks-of-regulatory-oversight.html>

[4] https://en.wikipedia.org/wiki/2020_Beirut_explosion

[5] <https://www.facebook.com/groups/1888548517823177/posts/2927458877265464/>

[6] <https://www.washingtonpost.com/world/2020/08/06/what-we-know-about-ammonium-nitrate-chemical-compound-linked-beirut-explosions/>

[7] <https://www.sciencedirect.com/science/article/pii/S2405844023028232>