

NUCLEAR DETONATIONS II

50 MEGATON NUKE 'IVAN' STRIKE IN ISRAEL

The purpose of this illustration is to show that only 3 atomic 50 megaton detonated on the 3 major population hubs in Israel would destroy the nation.

ISRAEL

Capital: Jerusalem
 Founded: May 14, 1948
 Population: 8.38 million (2015) World Bank
6,484,000 Jews or about 74%
 Continent: Asia
 Official languages: Hebrew, Arabic, English



Haifa

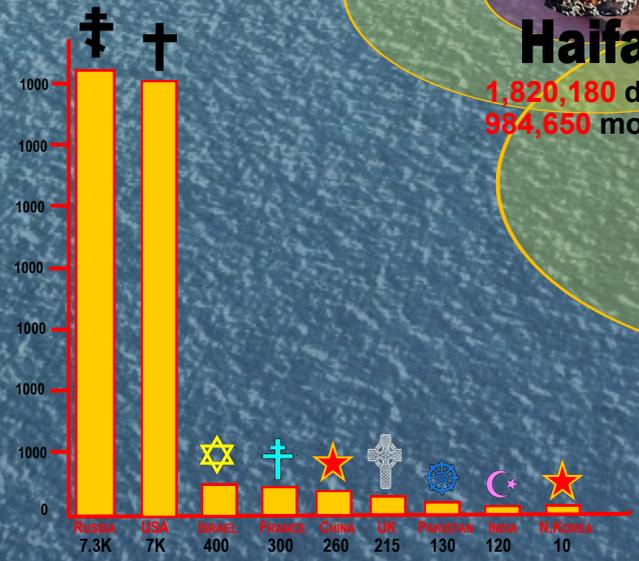
1,820,180 dead
 984,650 more injured

Tel Aviv Yafo

1,820,180 dead
 984,650 more injured

Jerusalem

1,820,180 dead
 984,650 more injured



The 50 MT fireball was about 6 miles across and did not touch the ground.



The 50 MT detonation created an 8.0 earthquake.

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
 Image Landsat / Copernicus

NUKEMAP 2.42 : FAQ

Drag the marker to wherever you'd like to target.

Tel Aviv + Haifa + Jerusalem, Israel

Enter a yield (in kilotons):

'Ivan Bomba' - largest USSR bomb designed (50 MT)

Total initial estimated fatalities:

5,460,540

Total Estimated injuries:

2,953,950



In any given 24-hour period, there are approximately ~13,000,000 people in the 1 psi range of the most recent detonation.

Effects radii for 100 megaton airburst* (smallest to largest):

- Radiation radius (500 rem): 6.99 km (153 km²)**
 500 rem radiation dose; without medical treatment, there can be expected between 50% and 90% mortality from acute effects alone. Dying takes between several hours and several weeks.
- Fireball radius: 7.92 km (197 km²)**
 Maximum size of the nuclear fireball; relevance to lived effects depends on height of detonation. If it touches the ground, the amount of radioactive fallout is significantly increased.
- Air blast radius (20 psi): 10.1 km (321 km²)**
 At 20 psi overpressure, heavily built concrete buildings are severely damaged or demolished; fatalities approach 100%.
- Air blast radius (5 psi): 21.2 km (1,420 km²)**
 At 5 psi overpressure, most residential buildings collapse, injuries are universal, fatalities are widespread.
- Radiation radius (3rd degree burns): 64.2 km (12,960 km²)**
 Third degree burns extend throughout the layers of skin, and are often painless because they destroy the pain nerves. They can cause severe scarring or disablement, and can require amputation. 100% probability for 3rd degree burns at this yield is 13.9 cal/cm².

Estimated total-dose fallout contours for a 100 megaton surface burst (52% fission) with a 15 mph wind.

Created by Alex Wellerstein, 2012-2017.

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