## NUCLEAR DETONATIONS SINGLE 150 KILOTON NUCLEAR STRIKE ON HONOLULU HAWAII

The purpose of this illustration is to show that only 1 atomic 150 kiloton ICBM detonated on the 1 major population hub of Honolulu would devastate the Island.

# O'ahu Island

Pearl Harbor Historic Sites

Pearl Harbo

**EMERGENCY ALERTS** 

**Emergency Alert** 

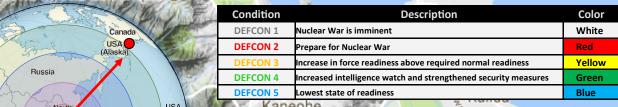
BALLISTIC MISSILE THREAT INBOUND TO Ewa | HAWAII. SEEK IMMEDIATE SHELTER. THIS IS NOT A DRILL.

Slide for more

SEP 13, 2018 FALSE ALARM

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CityMayors.com NuclearSecrecy.com/NukeMap Wikipedia.com



**DEFCON DESIGNATIONS** 

2 Nu'uanu Pali Lookout

Waimanalo Beach

Honolulu, Hawaii

~380,000 population 00 8

1/3 would be instantaneously vaporized 1/3 would die within 24 hours

Any left alive would probably die within 1 week if exposed to radiation cloud depending on direction of wind NUKEMAP 2.42 : FAQ

**Drag** the marker to wherever you'd like to target. Honolulu, Hawaii

Enter a yield (kilotons):

North Korean weapon tested in 2017 (150 KT)

Total initial estimated fatalities:

116,410

Total Estimated injuries:

104,000





In any given 24-hour period, there are approximately ~362,000 people in the 1 psi range of the most recent detonation.

Effects radii for 150 kiloton detonation (smallest to largest):

Radiation radius (500 rem): 1.94km (11.8km²)

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: 450 m (.64 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 (4.2 km²)

At 20 psi overpressure, heavily built concrete buildings are severely damaged or demolished; fatalities approach 100%.

Air blast radius (5 psi): 3.74 km (18.6 km<sup>2</sup>)

At 5 psi overpressure, most residential buildings collapse, injuries are universal, fatalities are widespread.

Radiation radius (3rd degree burns) 500 rem: (3.17 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 150 kiloton surface burst (50% fission) with a 15 mph wind.

Created by Alex Wellerstein, 2012-2017.

NUKEMAP is sponsored by: the College of Arts and Letters, Stevens Institute of Technology



# NUCLEAR DETONATIONS SINGLE 150 KILOTON NUCLEAR STRIKE ON ANCHORAGE ALASKA

The purpose of this illustration is to show effects of a 1 atomic 150 kiloton detonated on the 1 major population hub in Anchorage, Alaska.

Knik River

Alaska

MacKenzie

 Condition
 Description
 Color

 DEFCON 1
 Nuclear War is imminent
 White

 DEFCON 2
 Prepare for Nuclear War
 Red

 DEFCON 3
 Increase in force readiness above required normal readiness
 Yellow

 DEFCON 4
 Increased intelligence watch and strengthened security measures
 Green

 DEFCON 5
 Lowest state of readiness
 Blue

FCON DESIGNATION

Beluga

Tyonek

298,695 Population

Anchorage

#### **NOTE:**

There are more U.S. military bases in Alaska than in Hawaii and at a closer range. Based on current population, 1 nuclear strike could theoretically

Kustatan

Nikiski

MERGENCY ALERTS

kill everyone in Anchorage.

Emergency Alert

BALLISTIC MISSILE THREAT INBOUND TO HAWAII. SEEK IMMEDIATE SHELTER. THIS IS NOT A DRILL.

Slide for more

January 13, 2018 Hawaii false missile alert.

VEGA I see u too

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www.PostScript.org
FOR ILLUSTRATION PURPOSES ONLY

MAIN SOURCES
CityMayors.com
NuclearSecrecy.com/NukeMap
Wikipedia.com

Nuclear Fallout

Bear Creek Seward

### NUKEMAP 2.42 : FAQ

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

Anchorage, Alaska

Enter a yield (kilotons): 1

150

North Korean weapon tested in 2017 (150 KT)

Total initial estimated fatalities:

26,960

Total Estimated injuries:

44,480





In any given 24-hour period, there are approximately ~152,000 people in the 1 psi range of the most recent detonation.

#### Effects radii for 150 kiloton airburst\* (smallest to largest):

Fireball radius: .59 km (1.09 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): 1.16 km (4.2 km²)

At 20 psi overpressure, heavily built concrete buildings are severely damaged or demolished; fatalities approach 100%.

- Radiation radius (500 rem): 1.94km (11.8km²)
- 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.
- Air blast radius (5 psi): 2.43 km (18.6 km²)

At 5 psi overpressure, most residential buildings collapse, injuries are universal, fatalities are widespread.

Thermal Radiation radius (3rd degree burns) 500 rem: (3.67 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

Estimated total-dose fallout contours for a 150 kiloton surface burst (50% fission) with a 15 mph wind.

Created by **Alex Wellerstein**, 2012-2017.

3rd degree burns at this yield is 13.9 cal/cm2.

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