



DANGEROUS FALLOUT ZONE

Radiation levels exceeding 10 R/h. Life-saving activities only. See Dangerous Fallout Zone map for details.

Total Population: 160,000 Area: 42.6 km² Extent: 15.3 km

HOT ZONE

Radiation levels 10 mR/h to 10 R/h. Death, injury or illness possible. Monitor worker dose carefully and limit worker stay times. Stage response assets outside of the Hot Zone. Total Population: 4,214,000 Area: 12,951 km² Extent: 205 km

5 hours

after detonation

Assumptions:

- Assumes 10 kt detonation at 0 ft elevation.
- Areas shown are model predictions based on an estimated source term but no measurements.
- Radioactive cloud has passed area displayed, radiation from fallout remains a serious hazard.
- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Immediate shelter, possibly followed by evacuation, is strongly preferred, particularly in the first hours.
- Plan evacuation routes away from the DF/Hot Zones to minimize dose during transit. Shortest route may not guarantee minimal dose.
- Size of Hot Zone grows for 1-3 days then shrinks with time.
- Fallout and radiation extend well beyond the Hot Zone, particularly downwind, but at a reduced level of concern.
- Assure health physics professionals supervise emergency workers in the Hot Zone, workers must not exceed dose limits.



IND Detonation

Predicted Hot Zones for Worker Protection (Presented in 6 time steps)



DANGEROUS FALLOUT ZONE

Radiation levels exceeding 10 R/h. Life-saving activities only. See Dangerous Fallout Zone map for details.

Total Population: 54,800 Area: 12.5 km² Extent: 8.4 km

HOT ZONE

Radiation levels 10 mR/h to 10 R/h. Death, injury or illness possible. Monitor worker dose carefully and limit worker stay times. Stage response assets outside of the Hot Zone. Total Population: 9,477,000 Area: 28,765 km² Extent: 357 km

D hours

after detonation

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- Immediate shelter, possibly followed by evacuation, is strongly preferred, particularly in the first hours.
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DANGEROUS FALLOUT ZONE

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Total Population: 14,600 Area: 2.8 km² Extent: 3.4 km

HOT ZONE

Radiation levels 10 mR/h to 10 R/h. Death, injury or illness possible. Monitor worker dose carefully and limit worker stay times. Stage response assets outside of the Hot Zone. Total Population: 4,833,000 Area: 17,005 km² Extent: 321 km

12 hours

after detonation

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- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Immediate shelter, possibly followed by evacuation, is strongly preferred, particularly in the first hours.
- Plan evacuation routes away from the DF/Hot Zones to minimize dose during transit. Shortest route may not guarantee minimal dose.
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DANGEROUS FALLOUT ZONE

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Total Population: 4,210 Area: 1.1 km² Extent: 2.5 km

HOT ZONE

Radiation levels 10 mR/h to 10 R/h. Death, injury or illness possible. Monitor worker dose carefully and limit worker stay times. Stage response assets outside of the Hot Zone. Total Population: 2,935,00 Area: 7,398 km² Extent: 204 km

24_{hours}

after detonation

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DANGEROUS FALLOUT ZONE

Radiation levels exceeding 10 R/h. Life-saving activities only. See Dangerous Fallout Zone map for details.

Total Population: <1,000 Area: 0.5 km² Extent: 1.3 km

HOT ZONE

Radiation levels 10 mR/h to 10 R/h. Death, injury or illness possible. Monitor worker dose carefully and limit worker stay times. Stage response assets outside of the Hot Zone. Total Population: 2,112,00 Area: 4,347 km² Extent: 156 km

36_{hours}

after detonation

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- Model assumes that no shelter or other protective actions have been taken to decrease exposure.

Notes:

- Immediate shelter, possibly followed by evacuation, is strongly preferred, particularly in the first hours.
- Plan evacuation routes away from the DF/Hot Zones to minimize dose during transit. Shortest route may not guarantee minimal dose.
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IND Detonation

Predicted Hot Zones for Worker Protection (Presented in 6 time steps)



DANGEROUS FALLOUT ZONE

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Total Population: <100 Area: 0.4 km2 Extent: 1.1 km

HOT ZONE

Radiation levels 10 mR/h to 10 R/h. Death, injury or illness possible. Monitor worker dose carefully and limit worker stay times. Stage response assets outside of the Hot Zone. Total Population: 1,616,000 Area: 3,189 km2 Extent: 129 km

 48_{hours}

after detonation

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Notes:

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