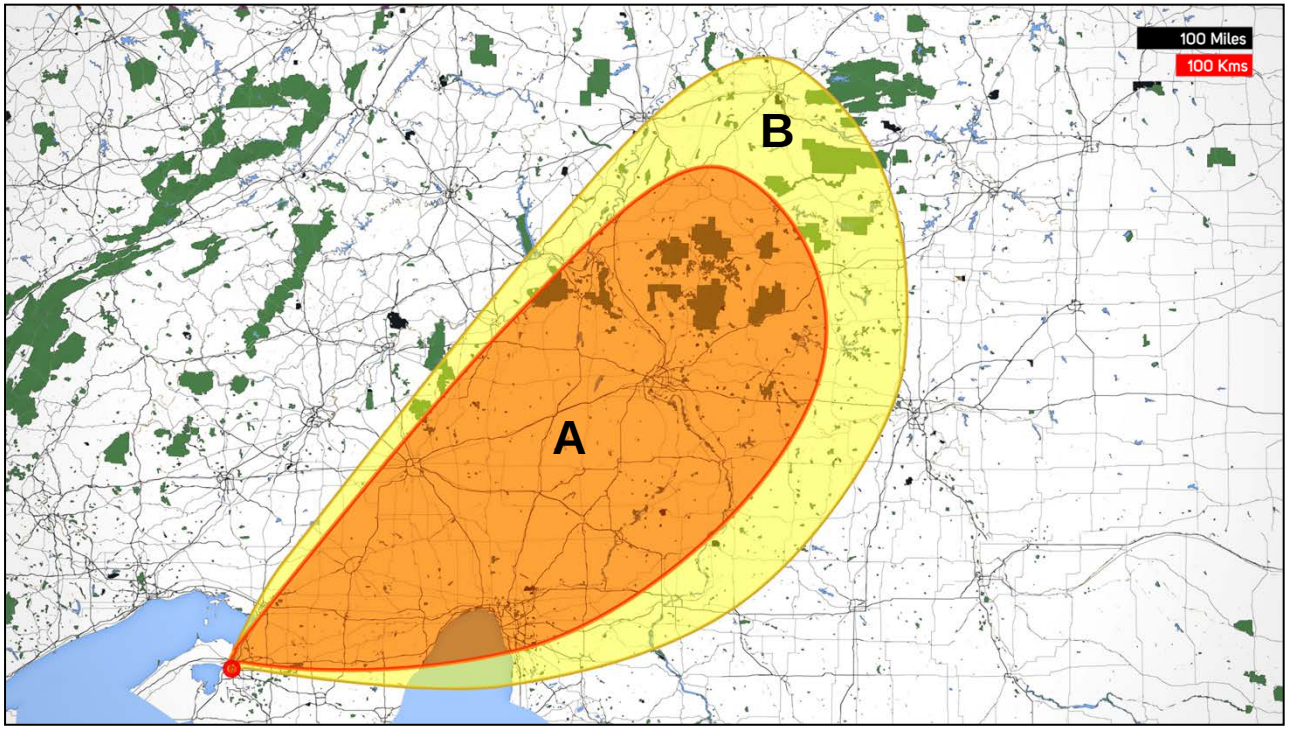
IND Detonation

Predicted Areas of Concern for Agricultural Products



A

PRODUCE RESTRICTIONS

Produce ready for harvest in this area may exceed FDA's default food safety guidelines [projected from equivalent exposure rate DRL (5.4 uR/hr)] for the most limiting nuclide (I-131).

Area: 754,000 km^2 Extent: 1406 km

B

MILK RESTRICTIONS

Milk from cows pastured in this area may exceed FDA's default food safety guidelines [projected from equivalent exposure rate DRL (4.6 uR/hr)] for the most limiting nuclide (I-131).

Area: 813,000 km^2 Extent: 1610 km

Assumptions:

- **Assumes 10 kt detonation at 0 ft elevation.**
- **Areas shown are model predictions based on an estimated source term; confirm with measurements.**
- **Model assumes that no shelter or other protective actions have been taken to decrease exposure.**

Notes:

- **Relocation addresses only increased cancer risk due to long term exposures.**
- **Predicted dose assumes unsheltered individual with no protective actions or mitigation.**
- **First-Year zone decreases in size with time, because dose received in the past and before the relocation is not included. Protective actions are based only on dose that can be avoided.**
- **Individuals may have received a much higher total dose if present since detonation time.**

Text Description for Image

Predicted Areas of Concern for Agricultural Products

This map is applicable to both IND and RDD incidents. Initially, it will be based on the assumed magnitude of the explosion and radioactive source term and the predicted or observed meteorological conditions. It delineates areas where the concentrations of radioactive materials in food products (i.e., products that are prepared for consumption) exceed guidance levels provided by the US Food and Drug Administration (FDA). Days to weeks into the incident response, decision-makers will use this map to determine the need for environmental sampling and analysis for radioactive materials, and to inform decisions regarding restrictions on consumption and/or distribution of agricultural products.