

## Results

Mean Consequences for Surry Population Density							
Case	Decay Time Prior to Accident	Distance (miles)	Early Fatalities	Societal Dose (person-rem)	Cancer Fatalities	Distance (miles)	Interdiction (hectares)
Base	1 year	0-100	1.01	$4.54 \times 10^6$	2,320	0-50	34,100
11	1 year (100% ruthenium release)	0-100	95.3	$9.53 \times 10^6$	9,150	0-50	33,500
14	1 year (100% ruthenium release) <sup>1</sup>	0-100	.13	$6.75 \times 10^6$	6,300	0-50	33,500

<sup>1</sup>Based on evacuation before release.

**Conclusion:** Effect of ruthenium release can be very significant, but can be offset by early evacuation.

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Mean Consequences for Surry Population Density							
Case	Decay Time Prior to Accident	Distance (miles)	Early Fatalities	Societal Dose (person-rem)	Cancer Fatalities	Cancer Fatalities	
						first week	after first week
Base	1 year	0-100	1.01	$4.54 \times 10^6$	2,320	748/678	1570
11	1 year (100% ruthenium release)	0-100	95.3	$9.53 \times 10^6$	9,150	7620/7590	1540
14	1 year (100% ruthenium release) <sup>1</sup>	0-100	.13	$6.75 \times 10^6$	6,300	4750/7580	1540

<sup>1</sup>Based on evacuation before release.

**Conclusion:** Effect of ruthenium release can be very significant, but can be offset by early evacuation.