3/2/00

Convert population density of 100 persons/mile^2 to population in between radii....

$$\text{pop density} = \frac{100 \text{ persons}}{\text{mile}^2} \cdot \left(\frac{1 \text{ mile}}{1.609 \text{ km}}\right)^2 = 38.63 \frac{\text{persons}}{\text{km}^2}$$

$$\frac{X \text{ people}}{\text{area}} = \frac{X \text{ people}}{\pi (R_2^2 - R_1^2)}$$

$$X = 38.63 \cdot \pi \cdot (R_2^2 - R_1^2)$$

3/2/00

Add more results for risk of early fatality vs. distance

Base Case → Case 41

early 299 → early 29a

atmos 7d
early 29a
chrnc1_n
SURSIT
METSUR
} 41

Case 11 → Case 42

early 299 → early 29a

atmos 11d
early 29a
chrnc1_n
SURSIT
METSUR
} 42

3/3/00

Add more results for risk of early fatality vs. distance.

Rerun Cases 21 and 22 to get "Risk of Early Fatalities" out to radial index 14

Case 21 → Case 43

early 10 → early 10a

atmos 7d
early 10a
chrnc1_n
METSUR
" "
} 43

Case 22 → Case 44

early 10 → early 10a

atmos 11d
early 10a
chrnc1_n
METSUR
" "
} 44

3/3/00

Calculate population density from population and distance ⇒

$$\text{pop density} = \frac{\text{population}}{\pi (R_2^2 - R_1^2)} = \frac{\text{population}}{3.14 (R_2^2 - R_1^2)}$$

$$100 \text{ persons}/\text{mile}^2 \cdot \frac{1 \text{ mile}^2}{(1.609 \text{ km})^2} = 38.6 \frac{\text{persons}}{\text{km}^2}$$