

**CHANGES IN DEATH RATES  
NINE COUNTIES CLOSEST TO NORTH ANNA NUCLEAR PLANT  
AFTER STARTUP OF REACTORS**

**Dates of Initial Criticality 4/5/78 and 6/12/80**

**Table A. Fetuses and Infants**

|                  | Death Rate<br>Per 100,000<br>1978 | Actual Deaths<br>1978 | Death Rate<br>Per 100,000<br>1979-81 | Actual Deaths<br>(avg.)<br>1979-81 | % Change in<br>Death Rate<br>Local | % Change in<br>Death Rate<br>Other VA |
|------------------|-----------------------------------|-----------------------|--------------------------------------|------------------------------------|------------------------------------|---------------------------------------|
| Fetal Deaths (1) | <b>1398</b>                       | <b>44</b>             | <b>1432</b>                          | <b>142</b>                         | <b>+ 3%</b>                        | <b>- 15%</b>                          |
| Deaths < 28 days | <b>763</b>                        | <b>24</b>             | <b>857</b>                           | <b>85</b>                          | <b>+ 12%</b>                       | <b>+ 1%</b>                           |
| Deaths < 1 year  | <b>1112</b>                       | <b>35</b>             | <b>1231</b>                          | <b>122</b>                         | <b>+ 11%</b>                       | <b>- 9%</b>                           |

- (1) Stillbirths gestation 20 weeks or more
- (2) All causes excluding accidents, suicide, and homicide

Local counties include Albemarle (including Charlottesville city), Culpeper, Fluvanna, Goochland, Greene, Louisa, Madison, Orange, and Spotsylvania. Virtually all of these counties' population is within 30 miles of the North Anna nuclear plant.

Study by Radiation and Public Health Project, 786 Carroll Street, Brooklyn, NY 11215 (718) 857-9825 [www.radiation.org](http://www.radiation.org)

Source: National Center for Health Statistics, Vital Statistics of the United States, Annual Volumes.  
Also available at <http://wonder.cdc.gov> , underlying causes of death

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**Table B. Children Age 1 - 14**

|                         | Death Rate<br>Per 100,000<br>1979-82 | Actual Deaths<br>(avg.)<br>1979-82 | Death Rate<br>Per 100,000<br>1983-86 | Actual Deaths<br>(avg.)<br>1983-86 | % Change in<br>Death Rate<br>Local | % Change in<br>Death Rate<br>Other VA |
|-------------------------|--------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|---------------------------------------|
| All Causes age 1-4 (2)  | <b>24.18</b>                         | <b>12</b>                          | <b>48.08</b>                         | <b>26</b>                          | <b>+ 99%</b>                       | <b>- 8%</b>                           |
|                         | 1983-86                              | 1983-86                            | 1987-90                              | 1987-90                            |                                    |                                       |
| All Causes age 5-14 (2) | <b>8.40</b>                          | <b>11</b>                          | <b>14.46</b>                         | <b>21</b>                          | <b>+ 72%</b>                       | <b>- 3%</b>                           |

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**Table C. Adults**

|                      | Actual Deaths<br>1978 | Actual Deaths<br>(avg.)<br>1979-82 | % Change in<br>Deaths<br>Local | % Change in<br>Deaths<br>Other VA |
|----------------------|-----------------------|------------------------------------|--------------------------------|-----------------------------------|
| All Causes, All Ages | <b>1763</b>           | <b>1876</b>                        | <b>+ 6.4%</b>                  | <b>+ 2.5%</b>                     |

(1) Stillbirths gestation 20 weeks or more

(2) All causes excluding accidents, suicide, and homicide

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