

- 370 Minuteman III warheads (124 missiles) targeted against 360 SS-19 silos, and 10 remaining SS-18s
- 820 Minuteman III12A warheads (274 missiles) targeted on all the SS-17, SS-18 and SS-19 silos

The probability of survival of the 450 SS-17 and SS-18 silos can then be expressed as follows:

Example 6

$$\begin{aligned} \text{Probability of Survival} &= (1-\text{TKP}_1)(1-\text{TKP}_2) \\ &\text{(Minuteman II and III12A)} \\ &= (1-0.71)(1-0.49) \\ &= (0.29)(0.51) \\ &= 0.15 \\ &= 15\% \end{aligned}$$

The probability of survival of the 370 remaining silos (SS-19's + 10 SS-18's) is then:

Example 7

$$\begin{aligned} \text{Probability of Survival} &= (1-\text{TKP}_1)(1-\text{TKP}_2) \\ &\text{(Minuteman III and III12A)} \\ &= (1-0.41)(1-0.49) \\ &= (0.59)(0.51) \\ &= 0.30 \\ &= 30\% \end{aligned}$$

In this scenario, therefore, use of 77% of American ICBM warheads would inflict massive damage on the Soviet counterforce capable ICBMs, but the percentage of silos remaining suggests that about 180 would survive, as would the older, less capable SS-11 and 13 missiles. At this point it is reasonable to include some planned American deployments in order to indicate the effect of the American modernization programme on counter-force capabilities.