$ saved ~~extra~~ reduced LOS

= cost extra LOS (per day) * extra LOS (days

$= (e^x - 1) * Y$

$\sigma_x = 0.01$

$\sigma_y = 0.38$

$\sigma_{e^x} = e^x \sigma_x$ $\left(A = e^B \quad \frac{\sigma_A}{A} = \sigma_B \right)$

$\sigma_{(e^x - 1)} = e^x \sigma_x$

$\sigma_{(e^x - 1)Y} =$ $\left(A = BC \quad \frac{\sigma_A}{A} = \sqrt{\left(\frac{\sigma_B}{B}\right)^2 + \left(\frac{\sigma_C}{C}\right)} \right.$

$$(e^x - 1) Y \sqrt{\left(\frac{e^x \sigma_x}{e^x - 1}\right)^2 + \left(\frac{\sigma_Y}{Y}\right)^2}$$