

INFORMATION FROM FIRE MARSHAL PISCHKE & NATIONAL FIRE SPRINKLER ASSOCIATION

Some talking points:

- The \$8,000 per home estimate is higher than what we have seen across the country:
 - Reddit: \$1.50-2.50 per square foot
 - NFSA: \$1.35 per square foot
 - Angie's List: \$0.80-4.00 per square foot with average cost of \$2.00 per square foot
 - Average size of new home in U.S. = 2,000 square feet
 - Average size of new home in Colorado = 2,464 square feet
 - 2,464 times \$1.35 per square foot = \$3,326.40
 - 2,464 times \$2.00 per square foot = \$4,928
- The Federal Emergency Management Agency (FEMA) estimates the price of a human life at \$7.5 Million:
 - \$7.5 Million times 2,620 fire deaths per year = \$19,650,000,000 (per year)
 - \$19.65 Billion times 30 years = \$589,500,000,000
- The cost to treat burn injury victim with serious burns:
 - Severe burn with no complications = \$1,500,000
 - Severe burn with complications = \$10,000,000
 - Total burn injuries requiring treatment per year = 398,000
 - Approximately 12,000 serious burn injuries per year (according to the American Burn Association)
 - 12,000 times \$1.5 Million = \$18,000,000,000
 - 12,000 times \$10 Million = \$120,000,000,000
 - Burn injury costs: \$18-120 Billion per year
 - 53 percent of the U.S. burn victims had Medicare or Medicaid as the primary payor (taxpayers pay for large percentage of burn injury costs)
- The cost of an average funeral exceeds the cost of protecting your home with fire sprinklers (\$8,000 quoted cost)
- Loss reduction (1 and 2 family homes from Minnesota study 2014-2018):
 - Average loss (no fire sprinklers): \$ 63,866.50
 - Average loss (with fire sprinklers): \$ 22,937.04
 - Loss reduction: 64.1%
 - Note: the goal of most residential sprinkler systems is life safety (not property loss reduction) yet the benefit of saving property is realized also

Some additional notes:

- Within the last 10 +/- years based on the construction of and interior furnishings, it only takes 2-3 minutes before a room reaches 1,100 deg - and a person not being able to exit on their own
- A residential fire occurs roughly every 85 sec - and over 80% of the fire deaths in the US occur in a residential setting