

## Residential Fire Loss Estimates

### CPSC Heating Equipment Estimates 2010-2012

The following statistics are excerpted from the 2010-2012 Residential Fire Loss Estimates released by the U.S. Consumer Product Safety Commission (USCPSC). These are the latest statistics available as of April 22, 2015. (The [full report is available from the USCPSC as a .pdf](#) on the CPSC website.)

### Estimated Residential Structure Fires

Equipment	2005	2006	2007	2008	2009	2010	2011	2012	2010-2012 Avg.
<b>Total Residential</b>	375,100	390,900	389,200	378,800	357,000	364,300	365,500	351,400	360,400
<b>Total Heating &amp; Cooling Equipment</b>	<b>56,100</b>	<b>55,500</b>	<b>57,700</b>	<b>56,300</b>	<b>50,600</b>	<b>48,600</b>	<b>45,400</b>	<b>41,800</b>	<b>45,300</b>
Local Fixed Heater	5,000	4,400	4,500	4,900	3,900	4,000	3,900	3,700	3,900
Portable Heater	1,500	1,400	1,900	1,900	1,500	1,600	1,400	1,100	1,400
Fireplace, Chimney, Chimney Connector	24,500	26,400	27,000	27,200	26,000	24,000	22,500	21,200	22,700
Central Heating	1,200	1,000	1,100	1,200	900	1,000	900	600	800
Water Heater	2,600	2,500	2,700	2,300	1,700	1,800	1,900	1,500	1,700
Air-Conditioning	1,100	1,200	1,300	1,000	900	1,100	1,100	1,200	1,100
Other	20,300	18,700	19,100	17,800	16,200	15,600	14,500	13,300	14,500

**Source:** US Consumer Product Safety Commission/EPHA, from data obtained from the US Fire Administration and NFPA. **Note:** Fire estimates are rounded to the nearest 100. Selected categories presented; subtotals do not necessarily add to heading totals. Estimates exclude losses from fires identifiable as intentionally set.

Secondary source: [http://www.csia.org/media/Statistics\\_Chimney\\_Fires\\_Carbon\\_Monoxide.aspx](http://www.csia.org/media/Statistics_Chimney_Fires_Carbon_Monoxide.aspx)

**Estimated Residential Structure Fire Deaths**

Equipment	2004	2006	2007	2008	2009	2010	2011	2012	2010-2012 Avg.
Total Residential <sup>1</sup>	2,850	2,280	2,490	2,390	2,210	2,330	2,240	1,960	2,170
Total Heating & Cooling Equipment	290	200	230	220	210	200	160	210	190
Local Fixed Heater	90	80	100	60	50	40	60	80	60
Portable Heater	130	50	70	100	90	10	40	70	70
Fireplace, Chimney, Chimney Connector	20	*	20	10	10	10	30	20	10
Central Heating	10	20	*	*	30	10	30	20	20
Water Heater	10	20	10	10	*	30	*	*	10
Air Conditioning	*	*	*	*	*	10	*	10	10
Other	30	30	20	30	20	*	10	20	10

Source: US Consumer Product Safety Commission/EPHA, from data obtained from the US Fire Administration and NFPA. Note: Death estimates are rounded to the nearest 10. Estimates less than 10 are denoted by an asterisk(\*). Selected categories presented; subtotals do not necessarily add to heating totals. Estimate exclude losses from fires identifiable as intentionally set.

**Estimated Residential Structure Fire Property Loss (In Millions)**

Equipment	2005	2006	2007	2008	2009	2010	2011	2012	2010-2012 Avg.
<b>Total Residential<sup>1</sup></b>	\$6,215.6	\$6,303.3	\$6,771.5	\$7,692.0	\$6,958.7	\$6,627.6	\$6,457.1	\$6,380.7	\$6,488.5
<b>Total Heating &amp; Cooling Equipment<sup>1</sup></b>	\$558.3	\$586.5	\$548.9	\$649.0	\$505.5	\$579.7	\$466.5	\$425.2	\$490.5
Local Fixed Heater	\$131	\$147.6	\$125.9	\$148.3	\$149.2	\$109.3	\$106.8	\$100.4	\$105.5
Portable Heater	\$75.9	\$67.6	\$87.6	\$87.4	\$62.7	\$85.6	\$44.7	\$52.1	\$60.8
Fireplace, Chimney, Chimney Connector <sup>1</sup>	\$115.2	\$126.6	\$110.3	\$147.6	\$29.1	\$28.3	\$35.0	\$93.6	\$111.7
Central Heating	\$29.9	\$26.5	\$24.9	\$37.9	\$106.3	\$153.6	\$87.9	\$19.2	\$27.5
Water Heater	\$65.4	\$77.8	\$51.3	\$62.3	\$43.2	\$37.8	\$53.1	\$31.4	\$40.7
Air Conditioning	\$28.8	\$27.0	\$30.9	\$24.4	\$14.9	\$30.2	\$27.7	\$32.9	\$30.3
Other <sup>1</sup>	\$112	\$113.3	\$118.0	\$141.3	\$109.1	\$158.6	\$126.9	\$116.2	\$133.9

Source: US Consumer Product Safety Commission/EPHA, from data obtained from the US Fire Administration and NFPA. Note: Property loss estimates are rounded to the nearest tenth of a million

dollars. Selected categories presented; subtotals do not necessarily add to heading totals. Estimate exclude losses from fires identifiable as intentionally set.

1= There are confinded fire property loss estimates included in *Total Residential, Total Heating and Cooling Equipment, Fireplace, Chimney, Chimney Connector, Other, and Total Cooking Equipment* categories.

#### **CPSC Estimated Non-Fire Carbon Monoxide Poisoning Deaths by Associated Fuel-Burning Consumer Product 1999-2009**

The following information is excerpted from the *Non-Fire Carbon Monoxide Deaths Associated with the Use of Consumer Products 2009 Annual Estimates*, released by the U.S. Consumer Product Safety Commission, Washington, D.C., December 2012. (The [full report is available as a .pdf](#) from the USCPSC or on its website.)

*"Of the estimated 146 CO poisoning deaths associated with a consumer product that occurred between January 2009 and December 2009, Heating Systems were associated with 40 deaths (27% of the total consumer product estimate). Of the 40 deaths associated with heating systems, the majority (85% or 34 fatalities) involved gas heating systems. Among gas heating systems, natural gas heating was associated with an estimated 13 deaths (33% of heating system-related deaths). Liquid Petroleum gas (LP gas) heating was associated with an estimated 19 deaths (48% of heating system-related deaths); and unspecified gas heating was associated with an estimated two deaths (5% of heating system-related deaths). Oil-fueled heating was associated with an estimated three deaths (8% of heating system-related deaths). There were an estimated two deaths (5% of heating system-related deaths) associated with a wood-burning heater. There were no reported kerosene-, coal-, or diesel-fueled heating system fatalities in the 2009 data. Additionally, in 2009, there was an estimated one CO death (3% of heating system-related deaths) associated with heating systems of unknown fuel sources."*

The Chimney Safety Institute of America (CSIA) is dedicated to chimney and venting system safety and to the elimination of residential chimney fires, carbon monoxide intrusion and other chimney related hazards that result in the loss of lives and property. CSIA devotes its resources to educating the public, chimney service professionals and the insurance industry about the prevention and correction of chimney and venting systems hazards.

- See more at:

[http://www.csia.org/media/Statistics\\_Chimney\\_Fires\\_Carbon\\_Monoxide.aspx#sthash.7QEKLXOj.dpuf](http://www.csia.org/media/Statistics_Chimney_Fires_Carbon_Monoxide.aspx#sthash.7QEKLXOj.dpuf)