# Fire's impact on people

Who is most likely to die in a fire? A disproportionate number of mature adults die in Oregon fires each year. Currently, mature adults and young children can expect a relative risk of dying in a fire that is approximately two times higher than for the population as a whole.

**Vulnerable age groups** While children less than five years and adults sixty-five years or more comprise almost 19 percent of Oregon's population, data shows a disproportionate number of people in these age groups die in fires. From 1998 through 2005, 59.7 percent of Oregon fire deaths involved the very young and mature adults. People in these age groups are almost twice as likely to die in a fire.

For every age group, the greatest number of firerelated deaths occur in homes (includes one-and two-family dwellings, manufactured homes, and apartments).

Mature adults The U.S. Census Bureau (as of July 1, 2005) estimates that adults over age sixty-four comprise 12.5 percent of Oregon's population. A trend analysis of OAIRS data (1998 through 2005) shows that a disproportionate number of mature adults aged sixty-five and older

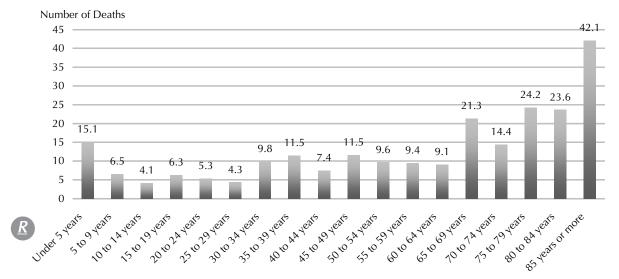
died in Oregon fires. People over age sixty-four represented 53.3 percent of all Oregon fire deaths in the seven year period.

This trend will likely continue as it is anticipated that the number of adults over age sixty-four will rise sharply between 2010 and 2030 when the baby boom generation enters retirement.

For 2005 alone, additional findings of the over sixty-four year age groups:

- This group made up 41 percent of all residential fire deaths.
- Almost 82 percent of fire deaths aged 65 or older occurred in a single-family dwelling.
- The heat source was a cigarette in over one of every five, or 22 percent of residential fires.
- For all fire types the gender mix is 55 percent female and 45 percent male.

### Oregon fire deaths per 10,000 population by age group 1999-2005



**Note:** In the table to the right, the greatest number of civilian fire deaths occurred in 1976 and 1977. In both years, several fires involved multiple deaths. One fire, in 1977, took five lives.

### Injuries and fire

#### **Civilian Injuries**

There were 301 civilian injuries caused by reportable fires in Oregon in 2005. The majority (83 percent) of civilians injured in 2005 were the result of structure fires. Another 7 percent of the injuries reported involved fires in mobile property.

Civilian injuries by type of fire and year

	Structure	Mobile Property	Other	
	Fires	Fires	Fires	Totals
2005	251	21	29	301
2004	176	17	17	210
2003	172	33	19	224
2002	203	28	17	248
2001	208	26	30	264
2000	252	21	25	298
1999	236	30	7	273

#### **Firefighter Injuries**

There were 105 firefighter injuries and no firefighter deaths associated with reportable fires in 2005. As in previous years, the majority of injured were men, while the age of the injured ranged from eighteen to sixty-nine. These injuries were related to eighty-one structural fires, seven mobile property fires and seventeen other types of fires.

Firefighter injuries by type of fire and year

	Structure Fires	Mobile Property Fires	Other Fires	Totals
2005	81	7	17	105
2004	83	1	14	98
2003	69	4	8	81
2002	83	3	8	94
2001	100	2	17	119
2000	100	7	8	115
1999	104	8	18	130

# Oregon civilian fire deaths and death rate by year

Year     Fatalities     Fatalities Million Million Population* (in mils)     State Population* (in mils)       2005     28     7.7     3.63       2004     42     11.7     3.58       2003     30     8.5     3.54       2001     40     11.5     3.47       2000     42     12.2     3.44       1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8 <t< th=""><th colspan="6">and death rate by year</th></t<>	and death rate by year					
Year     Fatalities     Population     (in mils)       2005     28     7.7     3.63       2004     42     11.7     3.58       2003     30     8.5     3.54       2002     45     12.9     3.50       2001     40     11.5     3.47       2000     42     12.2     3.44       1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1996     56     17.5     3.20       1995     34     10.8     3.14       1996     56     17.5     3.20       1995     34     10.8     3.14       1996     56     17.5     3.20       1997     54     16.6     3.24       1999     40     14.0     3.8       1991			Fatalities per	State		
2005     28     7.7     3.63       2004     42     11.7     3.58       2003     30     8.5     3.54       2002     45     12.9     3.50       2001     40     11.5     3.47       2000     42     12.2     3.44       1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1996     56     17.5     3.20       1995     34     10.8     3.14       1996     56     17.5     3.20       1995     34     10.8     3.14       1996     56     17.5     3.20       1995     34     10.8     3.14       1996     56     17.5     3.20       1997     51     17.1     2.97       1991     46						
2004     42     11.7     3.58       2003     30     8.5     3.54       2002     45     12.9     3.50       2001     40     11.5     3.47       2000     42     12.2     3.44       1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1986     50     18.6     2.68       1985     52	Year	Fatalities	Population	(in mils)		
2003     30     8.5     3.54       2002     45     12.9     3.50       2001     40     11.5     3.47       2000     42     12.2     3.44       1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1986     50     18.6     2.68       1985     52     19.5     2.67       1984     48	2005	28	7.7			
2002     45     12.9     3.50       2001     40     11.5     3.47       2000     42     12.2     3.44       1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1988     45     16.4     2.74       1987     48     17.8     2.70       1988     45     16.4     2.67       1983     61	2004	42	11.7	3.58		
2001     40     11.5     3.47       2000     42     12.2     3.44       1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1988     45     16.4     2.74       1987     48     17.8     2.70       1988     50     18.6     2.68       1985     52     19.5     2.67       1983     61	2003	30	8.5	3.54		
2000     42     12.2     3.44       1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1986     50     18.6     2.68       1985     52     19.5     2.67       1984     48     18.0     2.67       1983     61     23.0     2.65       1981     60     22.5     2.66       1981     60	2002	45	12.9	3.50		
1999     31     9.4     3.31       1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1986     50     18.6     2.68       1985     52     19.5     2.67       1984     48     18.0     2.67       1983     61     23.0     2.65       1981     60     22.5     2.66       1981     60     22.5     2.67       1979     69	2001	40	11.5	3.47		
1998     28     8.5     3.28       1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1986     50     18.6     2.68       1985     52     19.5     2.67       1984     48     18.0     2.67       1983     61     23.0     2.65       1982     60     22.5     2.66       1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69	2000	42	12.2	3.44		
1997     54     16.6     3.24       1996     56     17.5     3.20       1995     34     10.8     3.14       1994     51     16.5     3.09       1993     63     20.8     3.03       1992     51     17.1     2.97       1991     46     15.8     2.92       1990     40     14.0     2.86       1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1986     50     18.6     2.68       1985     52     19.5     2.67       1984     48     18.0     2.67       1983     61     23.0     2.65       1981     60     22.5     2.66       1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74 <td>1999</td> <td>31</td> <td>9.4</td> <td>3.31</td>	1999	31	9.4	3.31		
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1989     34     12.2     2.79       1988     45     16.4     2.74       1987     48     17.8     2.70       1986     50     18.6     2.68       1985     52     19.5     2.67       1984     48     18.0     2.67       1983     61     23.0     2.65       1982     60     22.5     2.66       1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89 <td>1990</td> <td>40</td> <td>14.0</td> <td>2.86</td>	1990	40	14.0	2.86		
1988   45   16.4   2.74     1987   48   17.8   2.70     1986   50   18.6   2.68     1985   52   19.5   2.67     1984   48   18.0   2.67     1983   61   23.0   2.65     1982   60   22.5   2.66     1981   60   22.5   2.67     1980   63   23.9   2.63     1979   69   26.7   2.59     1978   74   29.4   2.52     1977   94   38.4   2.45     1976   95   39.9   2.38     1975   85   36.5   2.33     1974   84   36.8   2.29     1973   85   37.9   2.24     1972   85   38.7   2.20     1971   66   30.7   2.15     1970   89   42.6   2.09     1968   68   33.9   2.00     1967   74   37.4   1.98 <td>1989</td> <td>34</td> <td></td> <td></td>	1989	34				
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1986     50     18.6     2.68       1985     52     19.5     2.67       1984     48     18.0     2.67       1983     61     23.0     2.65       1982     60     22.5     2.66       1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74 <td></td> <td></td> <td></td> <td></td>						
1985     52     19.5     2.67       1984     48     18.0     2.67       1983     61     23.0     2.65       1982     60     22.5     2.66       1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74     37.4     1.98						
1984     48     18.0     2.67       1983     61     23.0     2.65       1982     60     22.5     2.66       1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74     37.4     1.98		52				
1983     61     23.0     2.65       1982     60     22.5     2.66       1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74     37.4     1.98						
1982     60     22.5     2.66       1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74     37.4     1.98		61				
1981     60     22.5     2.67       1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74     37.4     1.98						
1980     63     23.9     2.63       1979     69     26.7     2.59       1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74     37.4     1.98						
1979 69 26.7 2.59   1978 74 29.4 2.52   1977 94 38.4 2.45   1976 95 39.9 2.38   1975 85 36.5 2.33   1974 84 36.8 2.29   1973 85 37.9 2.24   1972 85 38.7 2.20   1971 66 30.7 2.15   1970 89 42.6 2.09   1969 80 38.8 2.06   1968 68 33.9 2.00   1967 74 37.4 1.98						
1978     74     29.4     2.52       1977     94     38.4     2.45       1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74     37.4     1.98	1979					
1977   94   38.4   2.45     1976   95   39.9   2.38     1975   85   36.5   2.33     1974   84   36.8   2.29     1973   85   37.9   2.24     1972   85   38.7   2.20     1971   66   30.7   2.15     1970   89   42.6   2.09     1969   80   38.8   2.06     1968   68   33.9   2.00     1967   74   37.4   1.98		74				
1976     95     39.9     2.38       1975     85     36.5     2.33       1974     84     36.8     2.29       1973     85     37.9     2.24       1972     85     38.7     2.20       1971     66     30.7     2.15       1970     89     42.6     2.09       1969     80     38.8     2.06       1968     68     33.9     2.00       1967     74     37.4     1.98	1977	94				
1975 85 36.5 2.33   1974 84 36.8 2.29   1973 85 37.9 2.24   1972 85 38.7 2.20   1971 66 30.7 2.15   1970 89 42.6 2.09   1969 80 38.8 2.06   1968 68 33.9 2.00   1967 74 37.4 1.98		95				
1974 84 36.8 2.29   1973 85 37.9 2.24   1972 85 38.7 2.20   1971 66 30.7 2.15   1970 89 42.6 2.09   1969 80 38.8 2.06   1968 68 33.9 2.00   1967 74 37.4 1.98						
1973 85 37.9 2.24   1972 85 38.7 2.20   1971 66 30.7 2.15   1970 89 42.6 2.09   1969 80 38.8 2.06   1968 68 33.9 2.00   1967 74 37.4 1.98						
1972 85 38.7 2.20   1971 66 30.7 2.15   1970 89 42.6 2.09   1969 80 38.8 2.06   1968 68 33.9 2.00   1967 74 37.4 1.98						
1971 66 30.7 2.15   1970 89 42.6 2.09   1969 80 38.8 2.06   1968 68 33.9 2.00   1967 74 37.4 1.98						
1970 89 42.6 2.09   1969 80 38.8 2.06   1968 68 33.9 2.00   1967 74 37.4 1.98						
1969 80 38.8 2.06   1968 68 33.9 2.00   1967 74 37.4 1.98						
1968 68 33.9 2.00   1967 74 37.4 1.98						
1967 74 37.4 1.98						
* total and the transfer of Cart 11 in the Cart 1						

<sup>\*</sup> Estimates from Portland State University's Center for Population Research and Census.

## 2005 civilian deaths

Type of fire	# of deaths	# of fires	Cause of ignition
One- and two- family dwelling fires	5	5	Undetermined after investigation
, ,	2	2	Abandoned, discarded cigarette
	1	1	Misuse of heat, cigarette
	1	1	Unlawful incendiary (intentionally set)
	1	1	Suicide
	1	1	Abandoned, discarded unknown smoking material
	1	1	Heat source too close to combustible
	1	1	Heat source too close to combustible, propane heater
	1	1	Overloaded equipment, extension cord
	11	1	Combustible too close, candle
One- and two- family dwelling total	15	15	
A	4	4	
Apartment building fires	1	1	Failure to use ordinary care (cigarette)
	1	1	Abandoned, discarded cigarette
	1	1	Suicide
Anautment building total	1 4	1 4	Combustible too close, candle
Apartment building total	4	4	
Nursing home building fire	1	1	Heat source too close to combustible, cigarette
g			, . <b>.</b>
Motel building fire	2	1	Heat source too close to combustible, candle
Tent dwelling, field	1	1	Undetermined after investigation, warming fire
Tene divening, neid	•	•	ondetermined after investigation, warming me
Cardboard box dwelling, parking lot	1	1	Undetermined after investigation
<u> </u>			- V
Outside fires			
	1	1	Trapped by backyard burn inadequately controlled
	1	1	Suicide
Mobile property fires (recreational)	4		
	1	1	Suicide
	1	1	Mechanical failure
Total 2005 fatal fires	28	27	
Total 2003 latal lifes	40	41	