

**FINNISH RESCUE SERVICES'  
POCKET STATISTICS 2010-2014**

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# 1 INTRODUCTION

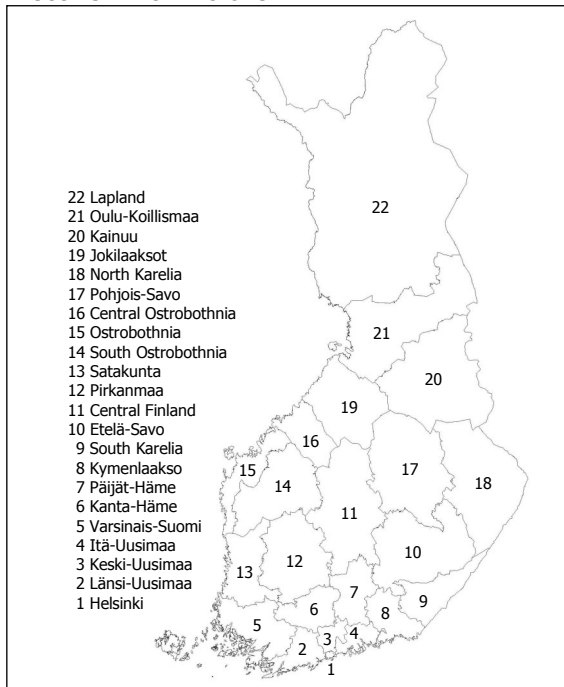
In Finland, the responsibility for the functions of rescue services is divided between 22 rescue service regions. The rescue services on the Åland Islands are regulated by regional legislation. The functions of rescue service regions include accident prevention, rescue operations and civil defence, etc.

The pocket statistics is based on the data in the rescue services resource and accident statistics program (PRONTO) from 2010–2014, unless indicated otherwise. PRONTO is maintained by the regional rescue departments. The data in the statistics were gathered directly from PRONTO without a nationwide check.

In the statistics rescue operations refer to those incidents when a fire brigade was alerted by an emergency response centre, excluding ambulance service. Since 2009 the number of building fires includes the number of risk of building fires. The data related to rescue operations have been tabulated in PRONTO based on the primary type of an emergency. The secondary types of emergencies have been counted into those tables which deal with accidents, causes for automatic fire calls and property damages. Separate missing data have not been included in the tables. All this should be taken into consideration when comparing the data presented in the tables.

## 2 RESCUE SERVICE SYSTEM AND RESOURCES

### RESCUE SERVICE REGIONS



## RESCUE SERVICE REGIONS POPULATION AND SURFACE AREA IN 2014

	Population*	Surface Area (km <sup>2</sup> )	Risk squares by risk class				Land Area (km <sup>2</sup> )
			I	II	III	IV	
Helsinki	613 114	716	119	56	21	526	213
Länsi-Uusimaa	443 207	7 855	45	240	152	7 508	4 242
Keski-Uusimaa	434 199	1 986	66	240	100	1 579	1 940
Itä-Uusimaa	95 712	5 537	3	38	78	5 429	2 736
Varsinais-Suomi	471 157	20 539	33	236	280	20 088	10 663
Kanta-Häme	175 600	5 706	13	99	127	5 464	5 200
Päijät-Häme	202 487	6 256	16	144	87	6 041	5 124
Kymenlaakso	180 900	7 417	11	125	126	7 254	5 113
South Karelia	132 313	7 236	3	90	107	7 164	5 615
Etelä-Savo	152 584	18 768	7	93	94	18 537	13 984
Central Finland	275 394	19 952	13	152	210	19 576	16 706
Pirkanmaa	500 307	14 471	29	259	261	13 906	12 444
Satakunta	224 600	11 636	10	168	179	11 338	7 957
South Ostrobothnia	194 061	14 001	3	127	158	13 711	13 445
Ostrobothnia	149 054	17 411	8	65	160	16 128	6 804
Central Ostro-	100 039	9 116	6	56	66	8 387	6 215
Pohjois-Savo	248 538	20 368	17	115	142	20 070	16 771
North Karelia	165 471	21 584	5	104	106	21 550	17 764
Jokilaaksot	123 334	17 259	2	69	108	17 792	13 499
Kainuu	80 029	24 453	2	51	61	24 488	21 503
Oulu-Koillismaa	280 042	26 180	14	145	156	25 957	21 739
Lapland	182 555	100 368	5	100	169	101 126	92 663
<b>Total</b>	<b>5 424 697</b>	<b>361 404</b>	<b>430</b>	<b>2 772</b>	<b>2 948</b>	<b>373 619</b>	<b>302 340</b>

\*Population 31.12.2013.

## NUMBER OF FIRE STATIONS

	2010	2011	2012	2013	2014
Fire Stations within Rescue Service	362	363	366	366	370
Contract Fire Brigades	570	569	530	521	523
Industrial, Institutional Fire Brigades	105	107	106	108	105

## RESCUE SERVICE VEHICLES

	2010	2011	2012	2013	2014
Fire Engine	1 165	1 139	1 120	1 101	1 090
Lightweight Fire Truck	34	36	31	31	33
Water Tender	541	540	525	519	517
Ladder Unit, Hydraulic Platform Truck	85	86	86	84	84
Heavy Rescue Unit	30	41	43	46	48
Gear Truck	85	89	78	95	90
Foam Tender, Dry Powder Appliance	54	56	54	57	58
Damage Control Tender	26	26	25	24	23
Hazardous Materials Unit	8	10	10	12	14
Incident Command, Control Unit	288	286	239	237	234
Personnel Carrier	695	720	719	725	742
Rescue Diving Appliance	27	28	27	27	28
Other Rescue Service Vehicle	76	78	77	82	89
Snowmobile	174	202	203	204	203
ATV (all-terrain vehicle), Track	157	218	241	252	269
Boat	568	675	693	695	704
Other Vessel	120	110	101	100	92
EMS vehicle*	303	289	281	272	252
Other Vehicle	-	-	-	493	470
Trailer	108	95	95	95	97
Container	80	83	85	94	97

\* EMS Vehicles of Fire Departments.

## RESCUE DEPARTMENTS FINANCIAL <sup>1\*</sup> 2014 (€/Inhabitant)

	Contributions of municipalities excluding rent and depreciation costs	Investments	Expenditure excluding depreciation costs	Revenue excluding contributions of municipalities
Helsinki	52	3	60	3
Länsi-Uusimaa	52	2	63	2
Keski-Uusimaa	47	5	55	3
Itä-Uusimaa	-	-	-	-
Varsinais-Suomi	57	5	69	3
Kanta-Häme	51	6	58	6
Päijät-Häme	64	5	81	4
Kymenlaakso	69	7	89	8
South Karelia	71	9	88	3
Etelä-Savo	74	5	82	3
Central Finland	63	4	77	2
Pirkanmaa	58	2	66	3
Satakunta	69	7	92	5
South Ostrobothnia	62	5	78	3
Ostrobothnia	60	6	73	7
Central Ostrobothnia	71	5	73	5
Pohjois-Savo	58	4	72	4
North Karelia	61	5	75	8
Jokilaaksot	78	6	91	9
Kainuu	78	5	83	4
Oulu-Koillismaa	51	5	62	3
Lapland	76	11	91	6

References: <sup>1</sup>Rescue Departments Partnership Network

\*EMS information have not been included

## RESCUE DEPARTMENTS FINANCIAL <sup>1\*</sup> (MEUR)

	2011	2012	2013	2014**
Revenue	23	13	22	20
Expenditure	371	377	385	382
Personnel Costs	252	259	259	256
Net Expenditure	348	364	363	362
Investments	14	16	19	19

References: <sup>1</sup> Rescue Departments Partnership Network

\*EMS informaton have not been included

\*\*Itä-Uusimaa information is missing

## RESCUE SERVICE PERSONNEL

	2013
Full-time Employees of Rescue Departments <sup>1*</sup>	5 423
Administrative, Support Services	474
Rescue Function	3 577
Safety Services	311
Emergency Medical Services	1 061
Relating to temporary staff of Rescue Departments <sup>1*</sup>	532
Contract Fire Brigade Personnel <sup>1**</sup>	12 462
Ministry of the Interior, Department of Rescue <sup>2</sup>	38
Emergency Services College <sup>3</sup>	139
Regional State Administrative Agencies, Department of Rescue <sup>4</sup>	32

References: <sup>1</sup>Rescue Departments Partnership Network, <sup>2</sup>Ministry of the Interior, Department of Rescue, <sup>3</sup>Emergency Services College, <sup>4</sup>Regionala State Administrative Agencies, Department of Rescue

\* Ostrobothnia, Pohjois-Savo and Kainuu information is missing

\*\* Keski-Uusimaa, Kymenlaakso, Ostrobothnia, Pohjois-Savo and Kainuu information is missing



## PERSONNEL OF RESCUE DEPARTMENTS 2013<sup>1</sup>

	Full-time	Full-time Rescue Function, Woman	Full-time Rescue Function, Man	Tempo- rary	Contract Personnel, Rescue Function
Helsinki	669	1	451	0	220
Länsi-Uusimaa	414	0	292	34	814
Keski-Uusimaa	414	2	269	44	-
Itä-Uusimaa	141	0	72	28	541
Varsinais-Suomi*	562	8	302	13	1 801
Kanta-Häme	243	0	136	0	406
Päijät-Häme	279	0	191	20	515
Kymenlaakso	205	0	144	0	-
South Karelia	94	0	74	13	699
Etelä-Savo	121	1	19	46	596
Central Finland	421	3	282	39	1 071
Pirkanmaa	543	1	398	68	340
Satakunta	277	0	178	47	1 199
South Ostrobothnia	113	0	98	13	840
Ostrobothnia	-	-	-	-	-
Central Ostroboth- nia	103	1	67	17	418
Pohjois-Savo	-	-	-	-	-
North Karelia	242	0	124	34	481
Jokilaaksot	173	2	102	15	642
Kainuu	-	-	-	-	-
Oulu-Koillismaa	238	1	166	76	400
Lapland	171	3	143	25	879

References: <sup>1</sup>Rescue Departments Partnership Network

## 3 ACCIDENT PREVENTION

### SAFETY EDUCATION

	2010	2011	2012	2013	2014
Events	12 337	12 180	12 126	11 705	11 215
Participants	801 100	808 252	897 099	894 056	857 079
Share of Population (%)	15	15	17	17	16

### SAFETY EDUCATION EVENTS BY TYPE OF IMPLEMENTATION

	2010	2011	2012	2013	2014
Safety Information Campaigns	1 093	1 014	674	674	652
Fairs, Other public events	1 622	1 579	1 388	1 533	1 588
Safety Training	9 570	9 513	8 305	7 791	7 082
Safety Advicing	-	14	1 716	1 666	1 828
Safety Information through media	53	60	41	41	65

### SAFETY EDUCATION EVENTS BY TARGET GROUP

	2010	2011	2012	2013	2014
Citizens, civil servant	7 362	7 575	7 301	7 368	7 249
Children, the Young	4 966	5 056	5 041	4 873	4 831
Civil Servants, Trustees	190	331	265	205	216
Companies, Institutions	4 022	3 762	3 818	3 665	3 368
Personnel in Care Institution	1 651	1 760	1 883	1 806	1 629
Personnel in learning institution	426	329	318	365	385
Personnel in day care center	339	311	314	317	338
Civil Defence Organisations	90	70	42	53	47
Other Target Group	859	772	627	618	548

## FIRE INSPECTIONS

	2012	2013	2014
Total Number of Buildings	103 222	50 318	47 205
Total Number of Inspections	84 587	45 343	42 652
A1, Buildings in use 24/7	8 404	4 574	4 420
A2, Teaching, Day Care	4 360	3 897	3 852
A3, Assembly, business premises	6 049	5 003	4 982
A4, Production, storage premises	6 076	6 227	5 791
A5, Agricultural Facilities	2 720	2 762	2 740
A6, Other Annually Inspected	3 599	2 920	2 822
Residential Buildings	48 013	19 279	17 665
Free-time Residences	5 366	681	380
Inspection-%	83	90	90

## DOCUMENT AUDITING

	2012	2013	2014
Self-Inspection Checklists	21 632	56 480	67 112
Returning-%	74	78	84
Rescue Plans	2 642	2 500	1 909
Rescue Plans for Events	1 409	2 003	1 788
Documents of Technical Fire Safety Installations	3 412	3 252	3 283
Other Document Auditing	1 976	3 009	3 577
Total	31 071	67 244	77 669

## 4 RESCUE OPERATIONS

### RESCUE OPERATIONS BY TYPE

	2010	2011	2012	2013	2014
Fires	14 992	14 737	11 803	13 421	14 027
Building Fire	6 267	6 013	5 906	5 727	5 958
Risk of Building Fire	3 481	3 470	3 493	3 386	3 665
Vehicle Fire	2 438	2 478	2 277	2 335	2 142
Wildfire	2 997	2 770	1 011	2 764	3 511
Other Fire	3 290	3 476	2 609	2 595	2 416
Other Accidents	19 239	16 604	16 933	15 876	16 579
Traffic Accident	13 472	13 630	14 163	13 140	13 725
Oil Spill	2 286	2 532	2 371	2 330	2 427
Hazardous Material Accident	299	317	319	344	387
Natural Hazard	2 998	-	-	-	-
Explosion, Risk of Explosion	27	26	31	24	18
Collapse, Risk of Collapse	157	99	49	38	22
Other Operations	76 156	83 816	72 926	75 552	68 468
Fire Alarm System Check or Inspection	22 306	21 382	20 076	19 033	18 076
Smoke Alarm System Check or Inspection	2 988	2 380	2 625	2 133	2 918
Other Check or Inspection	8 895	9 117	7 873	8 649	9 351
First Response	27 044	28 599	26 774	26 226	21 156
Human Rescue	2 429	2 223	2 193	2 425	2 529
Animal Rescue	2 161	2 019	1 859	2 090	2 146
Loss Prevention	5 853	13 502	7 025	10 226	7 105
Assistance	3 235	3 351	3 421	3 471	3 827
Executive Assistance	1 245	1 243	1 080	1 299	1 360
<b>Total</b>	<b>110 387</b>	<b>115 157</b>	<b>101 662</b>	<b>104 849</b>	<b>99 074</b>

## RESCUE OPERATIONS BY RESCUE SERVICE REGION

	2010	2011	2012	2013	2014
Helsinki	9 322	9 470	8 171	8 391	8 143
Länsi-Uusimaa	6 976	8 013	6 497	7 151	6 610
Keski-Uusimaa	7 784	7 381	6 521	6 631	6 403
Itä-Uusimaa	2 207	2 087	1 900	1 928	1 961
Varsinais-Suomi	8 786	10 302	8 140	8 759	7 894
Kanta-Häme	3 606	4 115	3 831	3 717	3 610
Päijät-Häme	4 398	4 400	4 328	4 028	3 876
Kymenlaakso	4 164	4 346	3 911	3 384	3 449
South Karelia	3 106	2 968	2 897	2 630	2 551
Etelä-Savo	3 902	4 001	3 673	3 575	3 255
Central Finland	5 778	6 244	5 383	5 928	5 415
Pirkanmaa	10 638	11 378	11 619	10 265	10 136
Satakunta	5 653	6 415	4 904	5 395	4 967
South Ostrobothnia	5 351	5 829	5 131	5 677	3 930
Ostrobothnia	3 036	2 984	2 819	3 312	2 619
Central Ostrobothnia	2 628	2 395	2 340	2 714	2 010
Pohjois-Savo	5 596	5 504	4 547	4 936	5 126
North Karelia	4 118	4 221	3 732	3 588	3 823
Jokilaaksot	3 189	2 808	2 160	2 754	2 725
Kainuu	1 592	1 496	1 277	1 519	1 784
Oulu-Koillismaa	4 234	4 444	3 784	4 324	4 331
Lapland	4 327	4 364	4 097	4 237	4 450
Cooperations	1 281	1 341	1 258	1 664	2 042

## SHARE OF RESCUE OPERATIONS BY RISK CLASS\* (%)

	2010	2011	2012	2013	2014
Risk class I	24	22	23	22	24
Risk class II	27	27	27	33	34
Risk class III	16	17	17	11	11
Risk class IV	32	34	33	33	32

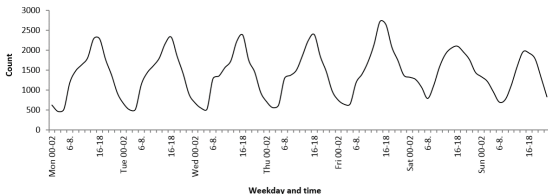
\*Definition changed 2013.

## URGENT OPERATIONS\*\* BY MONTH

	2010	2011	2012	2013	2014
January	2 114	2 061	2 311	1 828	1 965
February	1 945	1 931	2 025	1 575	1 551
March	1 751	1 813	1 553	1 731	1 796
April	1 520	1 615	1 496	1 458	1 827
May	2 042	2 009	1 891	2 054	1 881
June	2 230	2 453	2 136	2 341	1 977
July	2 591	2 505	2 199	2 137	2 376
August	2 227	2 168	2 075	2 097	2 041
September	1 826	1 806	1 816	1 874	1 888
October	2 008	1 864	1 846	1 844	1 906
November	2 088	1 887	1 816	1 940	1 887
December	2 334	2 425	2 383	2 167	2 309

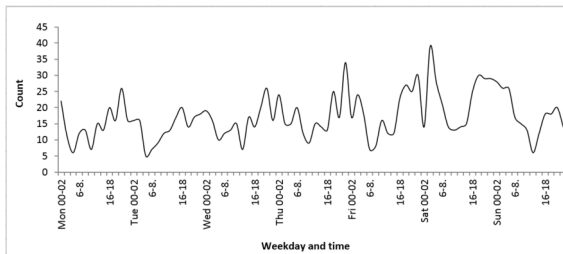
\*\*Urgent Operations = Fires excluding Wildfire, Traffic Accident, Hazardous Material Accident, Explosion or Risk of Explosion, Collapse or Risk of Collapse and Human Rescue.

## URGENT OPERATIONS\* YEARS 2010—2014



\*Urgent Operations = Fires excluding Wildfire, Traffic Accident, Hazardous Material Accident, Explosion or Risk of Explosion, Collapse or Risk of Collapse and Human Rescue.

## BUILDING FIRES INCLUDING HUMAN RESCUE YEARS 2010—2014



## BUILDING FIRES BY BUILDING TYPE

	2010	2011	2012	2013	2014
Residential Building	3 362	3 129	3 132	3 069	3 232
Detached houses	1 638	1 408	1 466	1 415	1 400
Attached houses	335	321	338	323	311
Blocks of flats	1 389	1 400	1 328	1 331	1 521
Free-time Residence	202	169	194	172	201
Commercial Building	360	378	338	345	333
Office Building	87	90	120	127	113
Transport, Communications Build.	78	79	76	92	92
Institutional, Healthcare Build.	247	210	230	209	245
Assembly Building	90	79	84	82	72
Educational Building	108	109	104	111	102
Industrial Building	638	585	597	624	639
Warehouse	242	241	195	203	224
Building for Fire Services	2	0	5	10	5
Agricultural Building	227	212	196	226	213
Other Building	650	646	635	522	567
Sauna	297	287	252	239	268
<b>Total</b>	<b>6 293</b>	<b>5 927</b>	<b>5 906</b>	<b>5 792</b>	<b>6 038</b>

## CAUSE OF BUILDING FIRE

	2010	2011	2012	2013	2014
Human Activity	3 003	2 903	2 886	2 706	2 931
Machine or Device Failure	1 697	1 646	1 781	1 729	1 738
Natural Phenomena	203	252	120	208	256
Flammable Substance	92	84	100	97	102
Animal	31	42	33	50	41
Other Cause	711	558	573	538	519
Cause Unknown	596	508	475	465	452



## BUILDING FIRE CAUSE OF IGNITION

	2010	2011	2012	2013	2014
Cooking	1 055	1 070	973	918	1 060
Deliberate	275	290	316	344	344
Open Fire	862	816	760	727	750
Juvenile Fire Setting	56	57	48	54	46
Hot Work	154	152	149	138	125
Match, Other Firemaking Device	172	180	142	117	107
Cigarette, Other Tobacco Product	268	220	242	256	267
Firework, Pyrotechnic Products	19	23	7	15	18
Candle, Outdoor Candle	116	98	119	84	103
Machine, Device, Process	1 683	1 647	1 769	1 738	1 695
Electrical Device	690	680	760	711	694
Hot Object, Ash, Spark	222	232	246	188	234
Fireplace, Flue	898	719	793	691	736
Frictional Heat, Spontaneous Ignition, Explosion	119	114	139	129	124
Natural Phenomena	189	232	100	190	236
Other Known Cause	427	355	366	395	383
Cause Unknown	603	518	506	472	477

## INTENTIONALITY OF BUILDING FIRE

	2010	2011	2012	2013	2014
Intentional	415	472	452	458	450
Negligence, Carelessness	1 220	1 173	1 231	1 079	1 262
Accidental	1 205	1 111	1 067	1 039	1 083
Unknown	163	146	137	130	136
Total	3 003	2 902	2 887	2 706	2 931

## CHIMNEY FIRES

	2010	2011	2012	2013	2014
Risk of Building Fire	410	300	323	302	328
Building Fire	22	13	14	16	19

## USE OF FIRST EXTINGUISHING IN BUILDING FIRES

	2010	2011	2012	2013	2014
Used	2 128	2 078	2 040	1 965	2 005
Not Used	3 587	3 400	3 456	3 351	3 563
Unknown	618	515	472	477	471

## EFFECT OF FIRST EXTINGUISHING IN BUILDING FIRES

	2010	2011	2012	2013	2014
Extinguished Fire	1 185	1 161	1 201	1 116	1 176
Limited Fire	671	656	608	600	599
No Effect	267	254	225	238	227
Extinguisher Did Not Work	5	7	6	11	3

## SMOKE ALARM ACTIVATION IN RESIDENTIAL BUILDING FIRES

	2010	2011	2012	2013	2014
Smoke Alarm Activated	1 187	1 112	1 112	1 046	1 122
Smoke Alarm Did Not Activate	464	372	480	446	499
Smoke Alarm Activation Unknown	464	457	446	398	393
No Smoke Alarm	1 004	948	943	949	1 007

## WILDFIRES

	2010	2011	2012	2013	2014
Forest Fire	1 412	1 262	437	1 504	1 708
Other Wildfire	1 688	1 609	613	1 360	1 929

## CAUSE OF WILDIRE

	2010	2011	2012	2013	2014
Human Activity	1 951	1 717	697	1 913	2 191
Natural Phenomena	428	405	100	348	685
Machine or Device Failure	120	82	40	111	129
Animal	24	20	4	12	26
Flammable Substance	9	16	4	8	26
Other Cause	180	182	59	127	147
Cause Unknown	387	390	145	344	433

## WILDFIRE CAUSE OF IGNITION

	2010	2011	2012	2013	2014
Open Fire	1 591	1 471	546	1 553	1 761
Juvenile Fire Setting	131	114	52	81	119
Campfire, Grill	425	348	150	582	487
Rubbish Burning	353	326	122	332	479
Match, Other Firemaking Device	202	240	74	161	149
Cigarette, Other Tobacco Product	268	267	79	199	264
Prescribed Burning	169	147	62	168	241
Natural Phenomena	383	324	61	296	589
Lightning	328	279	35	268	540
Machine, Device, Process	162	128	54	135	165
Electrical Device	31	21	14	34	34
Hot Object, Ash, Spark	127	136	48	123	148
Fireplace, Flue	12	21	5	19	11
Frictional Heat, Spontaneous Ignition, Explosion	107	135	41	77	154
Deliberate	117	73	71	141	176
Other Known Cause	198	152	57	151	167
Cause Unknown	402	372	166	368	466

## INTENTIONALITY OF WILDFIRE

	2010	2011	2012	2013	2014
Intentional	319	278	177	342	346
Negligence, Carelessness	794	755	272	826	1 004
Accidental	555	449	154	480	595
Unknown	283	235	94	265	247
<b>Total</b>	<b>1 951</b>	<b>1 717</b>	<b>697</b>	<b>1 913</b>	<b>2 192</b>

## VEHICLE FIRES BY VEHICLE TYPE

	2010	2011	2012	2013	2014
Road Vehicle	2 400	2 375	2 146	2 299	2 113
All Terrain Vehicle	-	-	42	31	26
Water Vehicle	40	38	38	40	41
Rail Vehicle	13	11	13	13	10
Air Vehicle	1	4	1	2	0
Other Vehicle	43	33	36	31	34
<b>Total</b>	<b>2 497</b>	<b>2 461</b>	<b>2 276</b>	<b>2 416</b>	<b>2 224</b>

## CAUSE OF VEHICLE FIRE

	2010	2011	2012	2013	2014
Machine or Device Failure	1 433	1 476	1 394	1 455	1 343
Human Activity	439	426	450	410	401
Flammable Substance	35	30	27	34	38
Natural Phenomena	7	7	2	4	7
Animal	0	3	1	1	1
Other Cause	153	121	90	153	106
Cause Unknown	430	401	372	358	328

## INTENTIONALITY OF VEHICLE FIRES

	2010	2011	2012	2013	2014
Intentional	300	310	309	281	268
Negligence, Carelessness	45	44	45	45	60
Accidental	65	47	63	63	55
Unknown	29	25	27	21	21
<b>Total</b>	<b>439</b>	<b>426</b>	<b>444</b>	<b>410</b>	<b>404</b>

## ROAD VEHICLE FIRES

	2010	2011	2012	2013	2014
Passenger Car	1 470	1 398	1 405	1 350	1 273
Van	176	159	150	158	143
Lorry, Truck	261	298	251	315	239
Engine-powered Work Vehicle	129	148	68	86	83
Tractor	109	86	87	115	108
Bus	56	68	64	50	54
Motor Caravan, Caravan	48	56	44	54	59
Moped	63	72	57	70	69
Moped car	-	-	17	21	19
Off-road Vehicle	34	31	42	31	26
Trailer	20	22	13	21	24
Motorcycle	17	19	16	25	17
Other Road Vehicle	17	23	31	34	25

## OTHER FIRES

	2013	2014
Immovable Structure	274	262
Mobile Structure	42	36
Barrack	33	35
Transformer, Utility Pole	240	258
Waste Container, Recycle Container, Less than 240 liters	391	356
Waste Container, Recycle Container , More than 240 liters	436	388
Demountable Body	79	59
Stack of Wood Materials, Less than 2m <sup>3</sup>	157	121
Stack of Wood Materials, More than 2m <sup>3</sup>	137	148
Pile of Other Organic Material	167	165
Machine or Device Outdoors	93	92
Blasting Mat	1	2
Other Material	558	503

## CAUSE OF OTHER FIRE

	2010	2011	2012	2013	2014
Human Activity	2 187	2 179	1 733	1 730	1 591
Machine or Device Failure	322	321	311	252	238
Natural Phenomena	167	227	107	147	184
Flammable Substance	26	25	17	23	23
Animal	7	7	12	8	14
Other Cause	324	308	203	240	179
Cause Unknown	298	318	240	228	212
Total	3 331	3 384	2 623	2 628	2 441

## OTHER FIRE CAUSE OF IGNITION

	2010	2011	2012	2013	2014
Open Fire	1 253	1 273	840	867	783
Juvenile Fire Setting	65	89	71	42	44
Campfire, Grill	206	183	116	113	108
Rubbish Burning	241	214	174	143	140
Match, Other Firemaking Device	393	407	212	256	180
Cigarette, Tobacco	217	265	163	197	197
Firework, Pyrotechnic Products	75	68	58	79	76
Fireplace, Flue	32	28	32	24	25
Machine, Equipment, Process	307	288	289	230	217
Electrical Device	136	142	124	98	95
Hot Object, Ash, Spark	132	109	67	112	79
Frictional Heat, Spontaneous Ignition, Explosion	130	166	111	117	116
Natural Phenomena	118	151	67	100	120
Deliberate	612	630	631	652	562
Other Known Cause	384	356	272	245	206
Cause Unknown	363	384	314	281	333

## INTENTIONALITY OF OTHER FIRE

	2010	2011	2012	2013	2014
Intentional	1 218	1 260	1 035	1 031	867
Negligence, Carelessness	419	408	297	313	343
Accidental	288	252	200	186	172
Unknown	262	259	201	200	210
<b>Total</b>	<b>2 187</b>	<b>2 179</b>	<b>1 733</b>	<b>1 730</b>	<b>1 592</b>

## TRAFFIC ACCIDENTS

	2010	2011	2012	2013	2014
Road Traffic	13 095	12 794	13 689	12 642	13 246
Rail Transport	126	121	198	137	135
Railway Level Crossing	36	26	87	52	55
Waterway Transport	62	53	77	106	94
Air Traffic	35	30	26	27	26
Other Traffic	193	233	261	261	273
<b>Total</b>	<b>13 511</b>	<b>13 231</b>	<b>14 208</b>	<b>13 173</b>	<b>13 738</b>

## OIL SPILLS

	2010	2011	2012	2013	2014
Overfill	191	189	161	155	152
Tank Leak	77	97	90	82	77
Other Leak in Storing or Dispensing Device	80	91	62	72	60
Tank Transport	58	61	53	55	52
Road Vehicle	1 176	1 329	1 319	1 320	1 415
Rail Vehicle	3	3	10	4	7
Water Vehicle	73	73	66	63	79
Other Vehicle	293	318	298	299	290
Other Machine or Device	133	154	145	125	131
Treatment of Waste Oil or Used Oil	50	32	43	37	43
Unknown Oil Spill in Water Body or Sewer	101	102	96	98	116
Other Cause or Accident	275	290	285	275	279
<b>Total</b>	<b>2 510</b>	<b>2 739</b>	<b>2 628</b>	<b>2 585</b>	<b>2 698</b>



## HAZARDOUS MATERIAL ACCIDENT SITE

	2010	2011	2012	2013	2014
Industrial Plant	55	51	61	51	51
Warehouse, Warehouse Area	40	47	34	53	51
Street, Other Urban Area	58	52	79	96	120
Highway	23	38	32	42	38
Shop, Petrol Outlet	32	39	42	73	49
Public Building	23	15	20	9	21
Accommodation or Restaurant Premises	10	2	7	4	7
Residential Building	16	25	17	32	26
Other Building	17	19	11	16	26
Port, Water Body	14	11	8	11	18
Yard, Railway	5	3	3	8	8
Other Site	28	24	28	22	40
<b>Total</b>	<b>321</b>	<b>326</b>	<b>342</b>	<b>417</b>	<b>455</b>

## ADR CLASSIFICATION OF HAZARDOUS MATERIAL ACCIDENTS

	2010	2011	2012	2013	2014
Explosives	0	0	3	1	0
Gases	78	62	63	97	84
Flammable Liquids	99	115	118	208	251
Flammable Solids	10	5	0	3	9
Oxidising Substances, Organic Peroxides	13	12	6	7	8
Toxic, Infectious Substances	3	10	9	5	0
Radioactive Substances	0	1	0	0	0
Corrosive Substances	46	55	51	49	50
Other Hazardous Material, Goods	8	12	3	8	41

## CAUSE OF LOSS PREVENTION OPERATIONS

	2011	2012	2013	2014
Natural Phenomena	10 802	4 857	8 026	4 823
Wind, Storm	9 303	2 920	6 928	3 880
Flood, Rain Water	893	1039	771	411
Snow, Ice	377	677	187	348
Frost	77	124	33	48
Defect or Malfunction in a Machine,	1 088	1 110	1 017	977
Defect, Malfunction of Mains	599	638	564	529
Defect, Malfunction of Vehicle	288	271	250	267
Human Activity	752	689	796	871
Animal	32	25	35	42
Other Cause	408	343	350	384
<b>Total</b>	<b>13 082</b>	<b>7 024</b>	<b>10 224</b>	<b>7 097</b>

## CAUSE OF ASSISTANCE OPERATIONS

	2011	2012	2013	2014
Assistance of EMS	1 852	2 213	2 372	2 944
Human Activity	413	386	370	285
Defect, Malfunction in a Machine,				
Defect, Malfunction of Vehicle	351	259	291	232
Defect, Malfunction of Vehicle	238	168	182	144
Defect, Malfunction of Mains	36	17	21	14
Defect, Malfunction of Grid	17	5	14	6
Natural Phenomena	182	167	113	73
Wind, Storm	68	48	56	32
Flood, Rain Water	32	62	16	13
Snow, Ice	65	36	20	13
Animal	58	56	59	44
Other Cause	380	339	258	238

## HUMAN RESCUE OPERATIONS

	2010	2011	2012	2013	2014
Water Rescue	407	385	346	425	479
Rescue from Trap, Shaft, Collapse, Well	61	64	54	56	58
Rescue from Other Dangerous Place or Situation	269	259	252	267	280
Rescue from Place or Situation With No Immediate Danger	508	407	459	516	552
Rescue from Terrain	314	284	313	383	362
Lift Rescue	691	596	599	611	644
Other Rescue Operation	177	166	167	163	148

## ANIMAL RESCUE OPERATIONS

	2010	2011	2012	2013	2014
Water Rescue	111	106	175	193	250
Rescue from Trap, Shaft, Collapse, Well	222	208	231	254	194
Rescue from Other Dangerous Place, Situation	249	186	221	207	186
Rescue from Place, Situation With No Immediate Danger	896	861	781	878	968
Rescue from Terrain	116	72	94	114	94
Lift Rescue	6	1	2	6	4
Other Rescue Operation	559	475	354	435	448

## CAUSE FOR AUTOMATIC FIRE ALARM

	2010	2011	2012	2013	2014
Negligence in Property Repair, Installation or Maintenance Work	2 393	2 439	2 315	2 292	2 133
Exhaust Gas	206	194	204	152	143
Smoking	275	285	207	205	191
Cooking	3 147	3 377	3 649	3 478	3 295
Other Smoke or Dust	2 965	2 696	2 516	2 383	2 205
Temporary High Temperature	460	423	331	369	378
Fire	208	257	421	365	375
Moisture or Water	2 331	2 125	1 996	1 622	1 547
Sensor Failure in Fire Alarm or Fixed Fire Extinguishing System	684	612	616	759	833
Sprinkler System Failure	1 151	1 058	1 110	969	867
Other System Failure	502	464	482	490	452
Overvoltage	310	355	224	307	330
Impact on Sensor	299	286	302	309	266
Error or Misuse	726	651	732	712	690
Malicious Use	446	441	468	461	393
Other Cause or Cause Unknown	6 421	5 589	5 285	4 843	4 598

## AUTOMATIC FIRE ALARMS

	2010	2011	2012	2013	2014
Building Fire	746	748	832	810	765
Risk of Building Fire	643	645	738	715	692
Vehicle Fire	4	7	4	4	5
Other Fire	54	51	41	25	21
Hazardous Material Accident	11	12	11	19	16
Explosion, Risk of Explosion	5	4	5	1	2
<b>Total</b>	<b>22 982</b>	<b>22 100</b>	<b>20 983</b>	<b>19 858</b>	<b>18 928</b>
Share of False Alarm (%)	96	96	96	96	96

## OTHER CHECK OR INSPECTION OPERATIONS

	2010	2011	2012	2013	2014
Smoke Observation	3 812	3 789	3 279	3 866	4 025
Oil Observation	553	545	462	488	532
Gas Observation	164	133	147	135	142
Chemical Observation	106	115	104	88	116
Carbon Monoxide Alarm Check	-	-	35	29	40
Blind Call	529	502	475	531	626
False Call	156	144	106	128	112
Risk of Air Crash	128	90	81	120	95
Other Cause	3437	3 505	3 218	3 254	3 654

## 5 ACCIDENT DAMAGES

### DEATHS

	2010	2011	2012	2013	2014
Building Fire	75	56	77	50	85
Wildfire	1	0	0	1	1
Vehicle Fire	5	4	4	1	2
Other Fire	1	4	4	1	0
Traffic Accident	286	277	244	268	249
Oil Spill	0	0	1	0	0
Hazardous Material Accident	0	0	1	0	3
Explosion, Risk of Explosion	2	0	0	2	1
Collapse, Risk of Collapse	0	0	0	1	3
Human Rescue	150	138	125	125	159

### INJURED

	2010	2011	2012	2013	2014
Building Fire	570	457	529	563	772
Wildfire	6	10	6	5	36
Vehicle Fire	29	23	32	43	29
Other Fire	13	15	13	10	14
Traffic Accident	8 032	8 078	10 100	9 764	10 103
Oil Spill	9	7	12	19	16
Hazardous Material Accident	27	24	76	25	29
Explosion, Risk of Explosion	11	10	16	11	12
Collapse, Risk of Collapse	11	3	5	9	1
Human Rescue	402	407	502	644	599

## FIRE DEATHS\*

	2010	2011	2012	2013	2014
Fire Deaths	80	66	82	58	86
Accidental Cause of Fire	72	55	78	49	73
Non-accidental Cause of Fire	8	11	4	9	13
Deaths per Million Inhabitants	15	12	15	11	16

## FIRE DEATHS\* BY AGE AND SEX

Age	2010		2011		2012		2013		2014	
	M	N	M	N	M	N	M	N	M	N
Under 10 Years	0	1	1	1	1	0	0	0	1	0
10-19	1	0	1	0	0	0	0	1	1	1
20-29	5	1	2	1	1	1	2	1	4	3
30-39	2	0	1	0	8	0	4	0	3	4
40-49	9	7	8	3	8	2	5	2	8	5
50-59	14	1	12	4	17	4	10	3	9	6
60-69	16	4	13	5	20	3	11	4	19	3
70-79	5	5	6	3	5	3	9	1	10	4
80-89	3	6	2	2	4	2	0	2	2	2
Over 89 Years	0	0	1	0	2	1	2	1	1	0
Total	55	25	47	19	66	16	43	15	58	28

## FIRE DEATHS\* BY BUILDING TYPE

	2010	2011	2012	2013	2014
Residential Building	61	50	72	50	77
Detached houses	15	19	21	19	36
Attached houses	6	3	8	7	11
Blocks of flats	15	19	21	22	26
Free-time Residence	6	5	1	0	4
Institutional, Healthcare Building	0	1	0	1	1
Other Building	5	2	1	2	3

The number of fire deaths is based on the annual reports (Esa Kokki).

## SMOKE ALARM ACTIVATION IN FATAL FIRES\*

	2010	2011	2012	2013	2014
Smoke Alarm Activated	12	11	11	13	15
Smoke Alarm Did Not Activate	2	1	4	2	6
Smoke Alarm Activation Unknown	9	6	9	7	17
No Smoke Alarm	13	11	26	18	19

## TOTAL PROPERTY DAMAGES\*\* FROM FIRES

	2010	2011	2012	2013	2014
Burnt Floor Area in Residential Building Fires (m <sup>2</sup> )	88 347	71 934	84 976	73 592	75 394
Damage to Building, Furnishings in Building Fires (MEUR)	162	131	123	120	141
Property in Danger in Building Fires (MEUR)	6 800	2 970	5 452	4 104	2 838
Burnt Land Area (ha)	919	909	219	743	1 325
Burnt Forest Area (ha)	519	589	89	469	888
Vehicle Fire (MEUR)	25	20	25	20	26
Other Fire (MEUR)	6	6	9	26	9

## AVERAGE PROPERTY DAMAGES\*\* FROM FIRES

	2010	2011	2012	2013	2014
Burnt Floor Area in Residential Building Fires (m <sup>2</sup> )	25	22	25	23	23
Damage to Building, Furnishings in Building Fires (€)	25 528	21 492	20 533	20 705	23 413
Burnt Land Area (ha)	0,30	0,32	0,21	0,26	0,36
Burnt Forest Area (ha)	0.37	0,47	0,20	0,31	0,52
Vehicle Fire (€)	9 923	8 008	10 681	8 310	11 655
Other Fire (€)	1 793	1 808	3 565	9 965	3 809

\*The number of fire deaths is based on the annual reports (Esa Kokki).

\*\*Calculation shown in € done using Haahtela Price Index. (Haahtela-kehitys Oy).



## 6 RESCUE OPERATIONS

### RESCUED AND EVACUATED HUMANS

	2012	2013	2014
Building Fire	1 243	1 930	3 361
Vehicle Fire	42	83	15
Other Fire	25	24	31
Traffic Accident	1 853	1 406	1 216
Hazardous Material Accident	293	223	180
Explosion, Risk of Explosion	0	301	47
Collapse, Risk of Collapse	11	252	1
Human Rescue	2 413	2 219	2 121

### ACTIVITY ON RESCUE OPERATIONS

	2012	2013	2014
Forcible entry	1 378	1 326	1 419
Extinguishing, confining fire	8 800	9 325	9 805
Smoke venting	4 194	4 349	4 414
Technical rescue, clearing	11 090	14 293	12 540
Prehospital care	20 028	20 398	17 035
No action	15 117	12 817	11 831

### METHODS ON RESCUE ACTIVITIES

	2012	2013	2014
Water extinguishing	6 411	8 177	8 633
Foam extinguishing	761	883	828
Using the extinguishing cutter	78	90	108
Smoke diving	2 287	2 163	2 057
Surface rescue	283	220	241
Water diving	80	78	78
Using the thermal camera	2 842	3 368	3 799

## MEDIAN OF THE RESPONSE TIME OF FIRST UNIT\*

	2010	2011	2012	2013	2014
Risk class I	5:06	5:09	5:21	5:23	5:30
Risk class II	6:11	6:13	6:22	6:30	6:35
Risk class III	7:28	7:36	7:46	7:44	7:46
Risk class IV	11:42	11:47	11:51	12:16	12:22

\*Urgent assignments excluding medical assignments.

## MEDIAN OF THE RESPONSE TIME

	2013	2014
Risk class I	10:34	10:39
Risk class II	11:01	10:56
Risk class III	10:09	10:22
Risk class IV	15:13	15:26

## RISK SQUARES\*\* WHERE THE RESPONSE TIME IS NOT ACHIEVED

	2013	2014
Risk class I (11 min)	115	128
Risk class II (14 min)	15	19
Risk class III (22 min)	0	1
Risk class IV (40 min)	0	0

\*\*Only those risk squares where at least 5 incidents per year have taken place have been taken into account.

## MEDIAN OF THE TOTAL RESPONSE TIME

	2013	2014
Helsinki	13:02	13:14
Länsi-Uusimaa	13:41	14:19
Keski-Uusimaa	13:31	13:37
Itä-Uusimaa	14:06	13:48
Varsinais-Suomi	14:11	14:01
Kanta-Häme	14:38	14:48
Päijät-Häme	14:05	14:21
Kymenlaakso	14:10	14:46
South Karelia	15:33	15:44
Etelä-Savo	17:43	17:47
Central Finland	15:16	15:55
Pirkanmaa	14:44	14:27
Satakunta	14:02	14:20
South Ostrobothnia	14:00	14:25
Ostrobothnia	14:45	14:54
Central Ostrobothnia	12:58	13:30
Pohjois-Savo	16:14	16:13
North Karelia	17:28	17:34
Jokilaaksot	15:48	16:04
Kainuu	18:42	18:55
Oulu-Koillismaa	14:18	14:18
Lapland	18:12	17:54
Total	14:29	14:40

