

**FINNISH RESCUE SERVICES'  
POCKET STATISTICS 2012-2016**

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# 1 INTRODUCTION

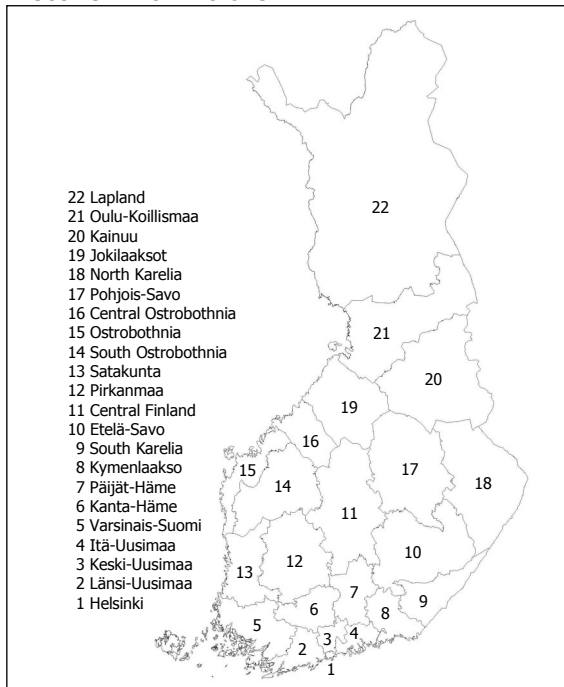
In Finland, the responsibility for the functions of rescue services is divided between 22 rescue service regions. The rescue services on the Åland Islands are regulated by regional legislation. The functions of rescue service regions include accident prevention, rescue operations and civil defence, etc.

The pocket statistics is based on the data in the rescue services resource and accident statistics program (PRONTO) from 2012–2016, 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. 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 2016

	Popula- tion*	Surface Area (km <sup>2</sup> )	Risk Squares by Risk Class				Land Area (km <sup>2</sup> )
			I	II	III	IV	
Helsinki	635 591	716	119	56	21	526	213
Länsi-Uusimaa	452 483	7 855	45	240	152	7 508	4 242
Keski-Uusimaa	443 691	1 986	66	240	100	1 579	1 940
Itä-Uusimaa	96 531	5 537	3	38	78	5 429	2 736
Varsinais-Suomi	474 711	20 539	33	236	280	20 088	10 663
Kanta-Häme	174 808	5 706	13	99	127	5 464	5 200
Päijät-Häme	201 702	6 256	16	144	87	6 041	5 124
Kymenlaakso	178 791	7 417	11	125	126	7 254	5 113
South Karelia	131 188	7 236	3	90	107	7 164	5 615
Etelä-Savo	150 392	18 768	7	93	94	18 537	13 984
Central Finland	275 788	19 952	13	152	210	19 576	16 706
Pirkanmaa	506 331	14 471	29	259	261	13 906	12 444
Satakunta	223 032	11 636	10	168	179	11 338	7 957
South Ostrobothnia	192 654	14 001	3	127	158	13 711	13 445
Ostrobothnia	150 473	17 411	8	65	160	16 128	7 381
Central Ostrobothnia	100 304	9 116	6	56	66	8 387	6 215
Pohjois-Savo	248 210	20 368	17	115	142	20 070	16 771
North Karelia	164 842	21 584	5	104	106	21 550	17 764
Jokilaaksot	121 882	17 259	2	69	108	17 792	13 499
Kainuu	78 425	24 453	2	51	61	24 488	21 503
Oulu-Koillismaa	285 161	26 180	14	145	156	25 957	21 739
Lapland	180 905	100 368	5	100	169	101 126	92 663
<b>Total</b>	<b>5 462 529</b>	<b>378 815</b>	<b>430</b>	<b>2 772</b>	<b>2 948</b>	<b>373 619</b>	<b>302 917</b>

\*Population 31.12.2015

## NUMBER OF FIRE STATIONS

	2016
Fire Stations within Rescue Service	336
Contract Fire Brigades	447
Industrial, Institutional Fire Brigades	94

## RESCUE SERVICE VEHICLES

	2012	2013	2014	2015	2016
Fire Engine	1 120	1 101	1 090	1 086	1 070
Lightweight Fire Truck	31	31	33	33	33
Water Tender	525	519	517	508	492
Ladder Unit, Hydraulic Platform Truck	86	84	84	80	78
Heavy Rescue Unit	43	46	48	45	49
Gear Truck	78	95	90	89	82
Foam Tender, Dry Powder Appliance	54	57	58	56	55
Damage Control Tender	25	24	23	25	22
Hazardous Materials Unit	10	12	14	15	17
Incident Command, Control Unit	239	237	234	197	190
Personnel Carrier	719	725	742	753	744
Rescue Diving Appliance	27	27	28	27	27
Other Rescue Service Vehicle	77	82	89	88	103
Snowmobile	203	204	203	208	213
ATV (all-terrain vehicle), Track	241	252	269	277	283
Boat	693	695	704	725	726
Other Vessel	101	100	92	81	78
EMS Vehicle*	281	272	252	244	254
Other Vehicle	-	493	470	494	506
Trailer	95	95	97	99	161
Container	85	94	97	98	100

\* EMS Vehicles of Fire Departments

## RESCUE DEPARTMENTS FINANCIAL\* 2016 (€/Inhabitant)

	Contributions of Municipali- ties Excluding Rent and Depreciation Costs	Investments	Expenditure Excluding Deprecia- tion Costs	Revenue Excluding Contribu- tions of Municipa- lities
Helsinki	-9	14	64	6
Länsi-Uusimaa	55	5	65	3
Keski-Uusimaa	50	5	57	3
Itä-Uusimaa	76	16	91	5
Varsinais-Suomi	60	5	69	4
Kanta-Häme	56	5	62	6
Päijät-Häme	71	4	87	4
Kymenlaakso	77	12	90	7
South Karelia	86	9	86	6
Etelä-Savo	73	10	83	4
Central Finland	67	4	77	7
Pirkanmaa	61	4	68	3
Satakunta	73	7	90	5
South Ostrobothnia	66	3	82	4
Ostrobothnia	66	10	74	6
Central Ostrobothnia	68	6	74	7
Pohjois-Savo	62	4	74	4
North Karelia	54	3	78	8
Jokilaaksot	91	4	99	6
Kainuu	85	5	93	4
Oulu-Koillismaa	61	6	60	3
Lapland	78	6	93	7

\*EMS information not been included

## RESCUE DEPARTMENTS FINANCIAL\* (MEUR)

	2012	2013	2014 <sup>1</sup>	2015	2016
Revenue	18	23	20	22	27
Expenditure	389	395	382	394	402
Personnel Costs	268	268	256	263	263
Net Expenditure	378	377	362	351	352
Investments	10	15	19	22	21

\*EMS informaton not been included <sup>1</sup>Reference: Rescue Departments Partnership Network.  
Itä-Uusimaa information is missing

## RESCUE SERVICES PERSONNEL

	2016
Full-time Employees of Rescue Departments**	5 231
Contract Fire Brigade Personnel**	14 691
Ministry of the Interior, Department of Rescue <sup>1</sup>	41
Emergency Services College <sup>2</sup>	103
Regional State Administrative Agencies, Department of Rescue <sup>3</sup>	37

\*\*Helsinki and Pohjois-Savo information is missing, References: <sup>1</sup>Ministry of the Interior,  
<sup>2</sup>Emergency Services College, <sup>3</sup>Regionala State Administrative Agencies

## RESCUE SERVICES\*\*\* FULL-TIME EQUIVALENT

	2016
Administrative, Support Services	343
Safety Services	269
Emergency Medical Services	1 673
Rescue Services	3 339
<b>Total</b>	<b>5 651</b>

\*\*\* Full-time employee. Helsinki and Pohjois-Savo information is missing



## PERSONNEL OF RESCUE DEPARTMENTS 2016

	Full-time Personnel			Contract Personnel		
	Total	Rescue Services, Women	Rescue Services, Men	Performance Test Approved	Rescue Services	Performance Test Approved
Helsinki	-	-	-	-	-	-
Länsi-Uusimaa	489	0	320	252	827	313
Keski-Uusimaa	465	8	305	243	579	54
Itä-Uusimaa	154	0	73	66	438	104
Varsinais-Suomi	474	3	255	214	1 924	331
Kanta-Häme	245	1	141	118	403	153
Päijät-Häme	241	0	177	149	522	121
Kymenlaakso	207	1	140	115	1 018	189
South Karelia	111	0	93	72	615	65
Etelä-Savo	189	2	110	96	550	105
Central Finland	306	2	171	129	923	294
Pirkanmaa	615	10	446	242	914	161
Satakunta	263	1	183	126	1 065	105
South Ostrobothnia	119	1	102	82	883	252
Ostrobothnia	187	2	86	65	895	130
Central Ostrobothnia	104	1	72	59	453	113
Pohjois-Savo	-	-	-	-	-	-
North Karelia	241	1	123	110	536	100
Jokilaaksot	234	3	80	55	653	155
Kainuu	67	1	55	47	147	76
Oulu-Koillismaa	386	1	169	149	366	88
Lapland	144	0	125	141	883	567

## 3 ACCIDENT PREVENTION

### SAFETY EDUCATION

	2012	2013	2014	2015	2016
Events	12 124	11 705	11 219	11 095	10 905
Participants	897 099	894 765	857 785	885 305	847 871
Share of Population (%)	17	17	16	16	16

### SAFETY EDUCATION EVENTS BY TYPE OF IMPLEMENTATION

	2012	2013	2014	2015	2016
Safety Information Campaigns	674	674	654	619	721
Fairs, Other Public Events	1 388	1 533	1 588	1 685	1 599
Safety Training	8 305	7 791	7 083	7 056	7 054
Safety Advicing	1 716	1 666	1 829	1 711	1 500
Safety Information through Media	41	41	65	24	31

### SAFETY EDUCATION EVENTS BY TARGET GROUP

	2012	2013	2014	2015	2016
Citizens, Public Servants	7 301	7 368	7 253	7 270	7 292
Children, the Young	5 041	4 873	4 833	4 817	4 610
Public Servants, Trustees	265	205	216	191	119
Companies, Institutions	3 818	3 665	3 368	3 299	3 078
Personnel in Care Institution	1 883	1 806	1 629	1 601	1 562
Personnel in Education Institution	318	365	385	355	323
Personnel in Day Care Center	314	317	338	342	342
Civil Defence Organisations	42	53	47	16	29
Other Target Group	627	618	548	508	501

## FIRE INSPECTIONS

	2012	2013	2014	2015	2016
Total Number of Buildings	103 222	50 318	48 630	45 128	35 985
Total Number of Inspections	84 587	45 343	44 112	38 518	33 152
A1 Building in Use 24/7	8 404	4 574	4 546	4 404	3 813
A2 Education Building, Day Care Center	4 360	3 897	4 018	3 822	2 921
A3 Assembly, Commercial Building	6 049	5 003	5 406	5 919	5 109
A4 Production, Storage Building	6 076	6 227	5 983	5 726	5 367
A5 Agricultural Building	2 720	2 762	2 744	2 717	1 975
A6 Other Annually Inspected	3 599	2 920	3 277	2 898	2 847
Residential Building	48 013	19 279	17 752	12 883	10 902
Free-time Residence	5 366	681	386	149	218
Inspection-%	83	90	100	98	96

## DOCUMENT AUDITING

	2012	2013	2014	2015	2016
Self-Inspection Checklists	21 632	56 480	68 070	78 188	73 864
Returning-%	74	78	85	84	82
Rescue Plans	2 642	2 500	1 952	1 329	1 063
Rescue Plans for Events	1 409	2 003	2 397	2 217	2 854
Documents of Technical Fire Safety Installations	3 412	3 252	4 226	4 296	6 101
Other Document Auditing	1 976	3 009	4 236	2 717	2 933
Total	31 071	67 244	80 881	88 750	86 815

## 4 RESCUE OPERATIONS

### RESCUE OPERATIONS BY TYPE

	2012	2013	2014	2015	2016
Fires	11 803	13 421	14 027	11 223	12 063
Building Fire	5 906	5 727	5 958	5 211	5 520
Risk of Building Fire	3 493	3 386	3 665	3 201	3 356
Vehicle Fire	2 277	2 335	2 142	2 200	2 262
Wildfire	1 011	2 764	3 511	1 581	2 008
Other Fire	2 609	2 595	2 416	2 231	2 273
Other Accidents	16 933	15 876	16 579	16 940	17 419
Traffic Accident	14 163	13 140	13 725	14 107	14 558
Oil Spill	2 371	2 330	2 427	2 410	2 495
Hazardous Material Accident	319	344	387	378	315
Explosion, Risk of Explosion	31	24	18	15	16
Collapse, Risk of Collapse	49	38	22	30	35
Other Operations	72 926	75 552	68 468	71 510	74 272
Fire Alarm System Check or Inspection	20 076	19 033	18 076	17 500	19 199
Smoke Alarm System Check or Inspection	2 625	2 133	2 918	2 482	3 358
Other Check or Inspection	7 873	8 649	9 351	8 816	9 109
First Response	26 774	26 226	21 156	21 094	22 655
Human Rescue	2 193	2 425	2 529	2 467	2 336
Animal Rescue	1 859	2 090	2 146	2 380	2 502
Loss Prevention	7 025	10 226	7 105	11 027	8 708
Assistance	3 421	3 471	3 827	4 332	4 903
Executive Assistance	1 080	1 299	1 360	1 412	1 504
<b>Total</b>	<b>101 662</b>	<b>104 849</b>	<b>99 074</b>	<b>99 673</b>	<b>103 756</b>

## RESCUE OPERATIONS BY RESCUE SERVICE REGION

	2012	2013	2014	2015	2016
Helsinki	8 171	8 391	8 143	8 408	8 813
Länsi-Uusimaa	6 497	7 151	6 610	6 780	7 439
Keski-Uusimaa	6 521	6 631	6 403	6 650	7 114
Itä-Uusimaa	1 900	1 928	1 961	2 128	2 140
Varsinais-Suomi	8 140	8 759	7 894	7 777	8 329
Kanta-Häme	3 831	3 717	3 610	3 658	3 970
Päijät-Häme	4 328	4 028	3 876	3 914	4 238
Kymenlaakso	3 911	3 384	3 449	3 225	3 542
South Karelia	2 897	2 630	2 551	2 498	2 745
Etelä-Savo	3 673	3 575	3 255	3 349	3 726
Central Finland	5 383	5 928	5 415	5 364	5 403
Pirkanmaa	11 619	10 265	10 136	10 308	10 550
Satakunta	4 904	5 395	4 967	4 782	5 012
South Ostrobothnia	5 131	5 677	3 930	4 131	4 324
Ostrobothnia	2 819	3 312	2 619	2 455	2 580
Central Ostrobothnia	2 340	2 714	2 010	1 897	1 880
Pohjois-Savo	4 547	4 936	5 126	5 322	5 197
North Karelia	3 732	3 588	3 823	3 755	3 826
Jokilaaksot	2 160	2 754	2 725	3 009	2 679
Kainuu	1 277	1 519	1 784	1 600	1 521
Oulu-Koillismaa	3 784	4 324	4 331	4 464	4 361
Lapland	4 097	4 237	4 450	4 187	4 358
Cooperations	1 258	1 664	2 042	1 758	1 887

## RESCUE OPERATIONS BY URGENCY

	2012	2013	2014	2015	2016
Urgent	-	77 728	73 457	70 059	74 410
Non-urgent	-	21 936	20 739	24 568	23 688
Canceled	4 486	4 802	4 702	4 820	5 442

## RESCUE OPERATIONS BY MONTH

	2012	2013	2014	2015	2016
January	9 317	7 686	7 728	8 189	10 416
February	8 531	6 532	5 851	6 394	6 826
March	7 089	7 607	7 213	7 135	6 842
April	6 989	7 629	7 918	8 371	7 239
May	8 620	9 302	8 944	8 640	8 958
June	9 124	10 574	8 464	9 005	10 037
July	10 071	9 928	12 088	8 527	9 752
August	8 917	9 126	9 689	9 029	11 461
September	8 129	8 187	8 126	8 009	8 222
October	8 101	7 793	7 688	9 588	7 700
November	7 867	9 476	6 998	8 117	7 892
December	8 907	11 010	8 367	8 669	8 411

## RESCUE OPERATIONS BY WEEK DAY

	2012	2013	2014	2015	2016
Monday	14 990	14 171	13 949	13 336	13 893
Tuesday	13 432	14 563	13 865	13 089	14 267
Wednesday	13 635	13 969	14 370	14 062	14 387
Thursday	14 302	14 357	14 788	13 764	14 264
Friday	16 107	17 124	14 682	15 946	15 600
Saturday	15 360	15 193	14 862	16 151	17 723
Sunday	13 836	15 473	12 558	13 325	13 622

## RESCUE OPERATIONS BY TIME

	2012	2013	2014	2015	2016
00-02	5 035	4 807	4 666	4 506	4 982
02-04	4 249	4 202	3 597	3 703	3 887
04-06	3 939	4 274	3 450	3 528	3 703
06-08	6 377	6 615	5 489	5 711	5 826
08-10	9 920	10 224	9 041	9 220	9 440
10-12	11 177	11 471	10 542	10 739	11 204
12-14	11 836	12 138	11 725	11 777	12 224
14-16	11 913	12 653	12 159	12 267	12 561
16-18	11 509	12 077	12 370	12 212	12 369
18-20	10 335	10 664	10 832	10 668	11 182
20-22	8 793	9 143	8 930	8 924	9 523
22-24	6 579	6 582	6 273	6 418	6 855

## RISK CATEGORIES DEFINED BY ACCIDENT

	2013	2014	2015	2016
Risk class I	4 796	4 975	4 730	4 825
Risk class II	7 796	7 809	7 759	7 736
Risk class III	2 418	2 286	2 295	2 430
Risk class IV	10 604	10 994	10 735	11 301
Total	25 614	26 064	25 519	26 292

## INTERNATIONAL CIVIL PROTECTION MISSIONS

	2012	2013	2014	2015	2016
Co-operation with neighbouring countries	7	13	3	11	9
Seconded experts <sup>1</sup>	-	16	15	15	7
Civil protection module activated <sup>1</sup>	0	0	0	1	0
In kind assistance <sup>2</sup> (€)	-	10 000	1 000 550	302 279	722 331

References: <sup>1</sup>CMC Finland, <sup>2</sup>Ministry of the Interior

## BUILDING FIRES BY BUILDING TYPE

	2012	2013	2014	2015	2016
Residential Building	3 148	3 069	3 232	2 878	2 971
Detached House	1 479	1 415	1 400	1 283	1 399
Attached House	339	323	311	304	306
Block of Flats	1 330	1 331	1 521	1 291	1 266
Free-time Residence	194	172	201	149	195
Commercial Building	339	345	333	303	338
Office Building	121	127	113	102	84
Transport, Communications Build.	78	92	92	77	87
Institutional, Healthcare Building	231	209	245	189	247
Assembly Building	84	82	72	77	80
Educational Building	104	111	102	114	114
Industrial Building	612	624	639	545	598
Warehouse	203	203	224	185	205
Building for Fire Services	4	6	2	4	5
Agricultural Building	202	226	213	175	200
Other Building	605	526	570	474	466
Sauna	252	239	268	207	211
<b>Total</b>	<b>5 925</b>	<b>5 792</b>	<b>6 038</b>	<b>5 272</b>	<b>5 590</b>

## CAUSE OF BUILDING FIRE

	2012	2013	2014	2015	2016
Human Activity	2 886	2 706	2 931	2 599	2 575
Machine, Device Failure	1 781	1 729	1 738	1 554	1 801
Natural Phenomena	120	208	256	86	148
Flammable Substance	100	97	102	97	127
Animal	33	50	41	50	24
Other Cause	573	538	519	458	499
Cause Unknown	475	465	452	430	417



## BUILDING FIRE CAUSE OF IGNITION

	2012	2013	2014	2015	2016
Cooking	973	918	1 060	971	888
Deliberate	316	344	344	330	292
Open Fire	760	727	750	650	632
Juvenile Fire Setting	48	54	46	48	43
Hot Work	149	138	125	130	133
Match, Other Firemaking Device	142	117	107	100	85
Cigarette, Other Tobacco Product	242	256	267	203	201
Firework, Pyrotechnic Products	7	15	18	10	12
Candle, Outdoor Candle	119	84	103	96	80
Machine, Device, Process	1 769	1 738	1 695	1 581	1 797
Electrical Device	760	711	694	677	790
Hot Object, Ash, Spark	246	188	234	201	238
Fireplace, Flue	793	691	736	593	732
Frictional Heat, Spontaneous Ignition, Explosion	139	129	124	97	109
Natural Phenomena	100	190	236	59	119
Other Known Cause	366	395	383	348	344
Cause Unknown	506	472	477	444	440

## INTENTIONALITY OF BUILDING FIRE

	2012	2013	2014	2015	2016
Intentional	452	458	450	430	378
Negligence, Carelessness	1 231	1 079	1 262	1 025	1 068
Accidental	1 067	1 039	1 083	1 020	1 015
Unknown	137	130	136	124	117
Total	2 887	2 706	2 931	2 599	2 578

## CHIMNEY FIRES

	2012	2013	2014	2015	2016
Risk of Building Fire	323	302	328	264	324
Building Fire	14	16	19	15	16

## USE OF FIRST EXTINGUISHING IN BUILDING FIRES

	2012	2013	2014	2015	2016
Used	2 040	1 965	2 005	1 730	1 891
Not Used	3 456	3 351	3 563	3 188	3 333
Unknown	472	477	471	356	367

## EFFECT OF FIRST EXTINGUISHING IN BUILDING FIRES

	2012	2013	2014	2015	2016
Extinguished Fire	1 201	1 116	1 176	1 038	1 116
Limited Fire	608	600	599	494	536
No Effect	225	238	227	190	231
Extinguisher Did Not Work	6	11	3	8	8

## SMOKE ALARM ACTIVATION IN RESIDENTIAL BUILDING FIRES

	2012	2013	2014	2015	2016
Smoke Alarm Activated	1 112	1 046	1 122	1 022	1 049
Smoke Alarm Did Not Activate	480	446	499	440	443
Smoke Alarm Activation Unknown	446	398	393	334	381
No Smoke Alarm	943	949	1 007	862	877

## WILDFIRES

	2012	2013	2014	2015	2016
Forest Fire	437	1 504	1 708	768	978
Other Wildfire	613	1 360	1 929	876	1 123

## CAUSE OF WILDIRE

	2012	2013	2014	2015	2016
Human Activity	697	1 913	2 191	1 110	1 524
Natural Phenomena	100	348	685	152	130
Machine, Device Failure	40	111	129	64	85
Animal	4	12	26	9	20
Flammable Substance	4	8	26	15	10
Other Cause	59	127	147	76	89
Cause Unknown	145	344	433	216	243

## WILDFIRE CAUSE OF IGNITION

	2012	2013	2014	2015	2016
Open Fire	546	1 553	1 761	890	1 205
Juvenile Fire Setting	52	81	119	47	79
Campfire, Grill	150	582	487	322	375
Rubbish Burning	122	332	479	258	344
Match, Other Firemaking Device	74	161	149	64	80
Cigarette, Other Tobacco Product	79	199	264	108	161
Prescribed Burning	62	168	241	73	140
Natural Phenomena	61	296	589	84	77
Lightning	35	268	540	31	39
Machine, Device, Process	54	135	165	84	125
Electrical Device	14	34	34	30	29
Hot Object, Ash, Spark	48	123	148	78	108
Fireplace, Flue	5	19	11	8	8
Frictional Heat, Spontaneous Ignition, Explosion	41	77	154	58	79
Deliberate	71	141	176	100	124
Other Known Cause	57	151	167	105	94
Cause Unknown	166	368	466	235	281

## INTENTIONALITY OF WILDFIRE

	2012	2013	2014	2015	2016
Intentional	177	342	346	211	268
Negligence, Carelessness	272	826	1 004	484	691
Accidental	154	480	595	273	379
Unknown	94	265	247	143	186
<b>Total</b>	<b>697</b>	<b>1 913</b>	<b>2 192</b>	<b>1 111</b>	<b>1 524</b>

## VEHICLE FIRES BY VEHICLE TYPE

	2012	2013	2014	2015	2016
Road Vehicle	2 203	2 299	2 113	2 125	2 217
All Terrain Vehicle	42	31	26	46	37
Water Vehicle	38	40	41	46	37
Rail Vehicle	13	13	10	11	7
Air Vehicle	1	2	0	1	1
Other Vehicle	38	31	34	43	39
<b>Total</b>	<b>2 276</b>	<b>2 416</b>	<b>2 224</b>	<b>2 272</b>	<b>2 338</b>

## CAUSE OF VEHICLE FIRE

	2012	2013	2014	2015	2016
Machine, Device Failure	1 394	1 455	1 343	1 349	1 473
Human Activity	450	410	401	411	408
Flammable Substance	27	34	38	39	16
Natural Phenomena	2	4	7	2	6
Animal	1	1	1	2	2
Other Cause	90	153	106	103	103
Cause Unknown	372	358	328	365	330

## INTENTIONALITY OF VEHICLE FIRES

	2012	2013	2014	2015	2016
Intentional	309	281	265	303	282
Negligence, Carelessness	45	45	60	48	45
Accidental	63	63	55	48	54
Unknown	27	21	21	12	27
<b>Total</b>	<b>444</b>	<b>410</b>	<b>401</b>	<b>411</b>	<b>408</b>

## ROAD VEHICLE FIRES

	2012	2013	2014	2015	2016
Passenger Car	1 405	1 350	1 273	1 351	1 369
Van	150	158	143	158	157
Lorry, Truck	251	315	239	231	247
Engine-powered Work Vehicle	68	86	83	65	92
Tractor	87	115	108	75	89
Bus	64	50	54	53	60
Motor Caravan, Caravan	44	54	59	51	51
Moped	57	70	69	59	68
Moped Car	17	21	19	23	21
Off-road Vehicle	42	31	26	46	37
Trailer	13	21	24	21	12
Motorcycle	16	25	17	11	17
Other Road Vehicle	31	34	25	27	34

## OTHER FIRES

	2013	2014	2015	2016
Immovable Structure	274	262	273	289
Mobile Structure	42	36	42	63
Barrack	33	35	26	30
Transformer, Utility Pole	240	258	193	195
Waste Container, Recycle Container, Less than 240 liters	391	356	304	301
Waste Container, Recycle Container, More than 240 liters	436	388	423	360
Demountable Body	79	59	80	56
Stack of Wood Materials, Less than 2m <sup>3</sup>	157	121	110	114
Stack of Wood Materials, More than 2m <sup>3</sup>	137	148	136	124
Pile of Other Organic Material	167	165	122	176
Machine, Device Outdoors	93	92	83	92
Blasting Mat	1	2	0	4
Other Material	558	503	441	476

## CAUSE OF OTHER FIRE

	2012	2013	2014	2015	2016
Human Activity	1 733	1 730	1 591	1 540	1 509
Machine or Device Failure	311	252	238	205	231
Natural Phenomena	107	147	184	117	136
Flammable Substance	17	23	23	16	24
Animal	12	8	14	10	9
Other Cause	203	240	179	161	175
Cause Unknown	240	228	212	202	212
Total	2 623	2 628	2 441	2 251	2 296

## OTHER FIRE CAUSE OF IGNITION

	2012	2013	2014	2015	2016
Open Fire	840	867	783	735	735
Juvenile Fire Setting	71	42	44	43	43
Campfire, Grill	116	113	108	94	94
Rubbish Burning	174	143	140	137	137
Match, Other Firemaking Device	212	256	180	185	185
Cigarette, Tobacco	163	197	197	146	146
Firework, Pyrotechnic Products	58	79	76	101	101
Fireplace, Flue	32	24	25	27	27
Machine, Equipment, Process	289	230	217	170	170
Electrical Device	124	98	95	93	93
Hot Object, Ash, Spark	67	112	79	107	107
Frictional Heat, Spontaneous Ignition, Explosion	111	117	116	102	102
Natural Phenomena	67	100	120	63	63
Deliberate	631	652	562	597	597
Other Known Cause	272	245	206	188	188
Cause Unknown	314	281	333	262	262

## INTENTIONALITY OF OTHER FIRE

	2012	2013	2014	2015	2016
Intentional	1 035	1 031	867	924	802
Negligence, Carelessness	297	313	342	284	319
Accidental	200	186	172	153	165
Unknown	202	200	210	179	224
<b>Total</b>	<b>1 734</b>	<b>1 730</b>	<b>1 591</b>	<b>1 540</b>	<b>1 510</b>

## TRAFFIC ACCIDENTS

	2012	2013	2014	2015	2016
Road Traffic	13 689	12 642	13 246	13 608	14 038
Rail Transport	198	137	135	138	151
Railway Level Crossing	87	52	55	67	56
Waterway Transport	77	106	94	99	77
Air Traffic	26	27	26	34	29
Other Traffic	261	261	237	268	295
<b>Total</b>	<b>14 208</b>	<b>13 174</b>	<b>13 738</b>	<b>14 147</b>	<b>14 590</b>

## OIL SPILLS

	2012	2013	2014	2015	2016
Overfill	161	155	152	153	196
Tank Leak	79	70	67	55	52
Other Leak in Storing, Dispensing Device	137	138	129	115	141
Road Vehicle	1 370	1 372	1 465	1 453	1 489
Rail Vehicle	11	7	8	9	6
Water Vehicle	67	63	80	71	96
Other Vehicle	298	299	290	311	283
Other Machine or Device	145	125	131	132	133
Treatment of Waste Oil, Used Oil	43	37	43	29	29
Unknown Oil Spill in Water Body, Sewer	96	98	116	111	116
Other Cause, Accident	221	221	217	196	202
<b>Total</b>	<b>2 628</b>	<b>2 585</b>	<b>2 698</b>	<b>2 635</b>	<b>2 743</b>



## HAZARDOUS MATERIAL ACCIDENT SITE

	2012	2013	2014	2015	2016
Industrial Plant	61	51	51	51	51
Warehouse, Warehouse Area	34	53	51	44	32
Street, Other Urban Area	79	96	120	113	95
Highway	32	42	38	32	31
Shop, Petrol Outlet	42	73	49	69	65
Public Building	20	9	21	21	19
Accommodation, Restaurant Premises	7	4	7	5	8
Residential Building	17	32	26	38	26
Other Building	11	16	21	16	24
Port, Water Body	8	9	18	7	8
Yard, Railway	3	8	8	6	9
Other Site	28	24	45	27	28
<b>Total</b>	<b>342</b>	<b>417</b>	<b>455</b>	<b>429</b>	<b>396</b>

## ADR CLASSIFICATION OF HAZARDOUS MATERIAL ACCIDENTS

	2012	2013	2014	2015	2016
Explosives	3	1	0	0	0
Gases	66	97	84	85	90
Flammable Liquids	134	208	251	233	188
Flammable Solids	0	3	9	3	5
Oxidising Substances, Organic Peroxides	9	7	8	11	9
Toxic, Infectious Substances	9	5	0	1	2
Radioactive Substances	0	0	0	0	1
Corrosive Substances	59	49	50	44	58
Other Hazardous Material, Goods	3	4	7	2	1

## CAUSE OF LOSS PREVENTION OPERATIONS

	2012	2013	2014	2015	2016
Natural Phenomena	4 857	8 026	4 823	8 846	6 193
Wind, Storm	2 920	6 928	3 880	7 318	4 909
Flood, Rain Water	1 039	771	411	316	723
Snow, Ice	677	187	348	1 045	199
Frost	124	33	48	25	230
Defect or Malfunction in a Machine, Device	1 110	1 017	977	910	1 223
Defect, Malfunction of Mains	638	564	529	444	724
Defect, Malfunction of Vehicle	271	250	267	264	273
Human Activity	689	796	871	841	870
Animal	25	35	42	30	29
Other Cause	343	350	384	397	393

## CAUSE OF ASSISTANCE OPERATIONS

	2012	2013	2014	2015	2016
Assistance of EMS	2 213	2 372	2 944	3 357	3 880
Human Activity	386	370	285	397	399
Defect, Malfunction in a Machine, Device	259	291	232	205	238
Defect, Malfunction of Vehicle	168	182	144	129	112
Defect, Malfunction of Mains	17	21	14	10	13
Defect, Malfunction of Grid	5	14	6	8	5
Natural Phenomena	167	113	73	103	101
Wind, Storm	48	56	32	50	33
Flood, Rain Water	62	16	13	26	26
Snow, Ice	36	20	13	18	29
Animal	56	59	44	37	62
Other Cause	339	258	238	233	223

## HUMAN RESCUE OPERATIONS

	2012	2013	2014	2015	2016
Water Rescue	346	425	479	411	422
Rescue from Trap, Shaft, Collapse, Well	54	56	58	43	56
Rescue from Other Dangerous Place, Situation	252	267	280	276	301
Rescue from Place, Situation with No Immediate Danger	459	516	552	536	463
Rescue from Terrain	313	383	362	416	455
Lift Rescue	599	611	644	615	508
Other Rescue Operation	167	163	148	169	131

## ANIMAL RESCUE OPERATIONS

	2012	2013	2014	2015	2016
Water Rescue	175	193	250	229	321
Rescue from Trap, Shaft, Collapse, Well	231	254	194	225	237
Rescue from Other Dangerous Place, Situation	221	207	186	197	223
Rescue from Place, Situation with No Immediate Danger	781	878	968	1 058	1 051
Rescue from Terrain	94	114	94	168	107
Lift Rescue	2	6	4	5	9
Other Rescue Operation	354	435	448	497	554

## CAUSE FOR AUTOMATIC FIRE ALARM

	2012	2013	2014	2015	2016
Negligence in Property Repair, Installation, Maintenance Work	2 315	2 292	2 133	2 030	2 326
Exhaust Gas	204	152	143	126	172
Smoking	207	205	191	301	357
Cooking	3 649	3 478	3 295	3 602	4 129
Other Smoke, Dust	2 516	2 383	2 205	2 107	2 225
Temporary High Temperature	331	369	378	272	304
Fire	421	365	375	359	386
Moisture, Water	1 996	1 622	1 547	1 436	1 731
Sensor Failure in Fire Alarm, Fixed Fire Extinguishing System	616	759	833	699	614
Sprinkler System Failure	1 110	969	867	841	1 071
Other System Failure	482	490	452	457	388
Overvoltage	224	307	330	137	221
Impact on Sensor	302	309	266	263	273
Error, Misuse	732	712	690	476	437
Malicious Use	468	461	393	522	520
Other Cause, Cause Unknown	5 285	4 843	4 598	4 254	4 571

## AUTOMATIC FIRE ALARMS

	2012	2013	2014	2015	2016
Building Fire	832	810	765	748	784
Risk of Building Fire	738	715	692	669	724
Vehicle Fire	4	4	5	4	6
Other Fire	41	25	21	26	19
Hazardous Material Accident	11	19	16	21	10
Explosion, Risk of Explosion	5	1	2	3	5
<b>Total</b>	<b>20 983</b>	<b>19 858</b>	<b>18 928</b>	<b>18 386</b>	<b>20 113</b>
Share of False Alarm (%)	96	96	96	96	96

## OTHER CHECK OR INSPECTION OPERATIONS

	2012	2013	2014	2015	2016
Smoke Observation	3 279	3 866	4 025	3 642	3 783
Oil Observation	462	488	532	493	463
Gas Observation	147	135	142	132	119
Chemical Observation	104	88	116	126	118
Carbon Monoxide Alarm Check	35	29	40	44	53
Blind Call	475	531	626	552	592
False Call	106	128	112	119	96
Risk of Air Crash	81	120	95	89	129
Other Cause	3 183	3 254	3 654	3 615	3 756

## 5 ACCIDENT DAMAGES

### DEATHS

	2012	2013	2014	2015	2016
Building Fire	77	50	85	69	80
Wildfire	0	1	1	0	0
Vehicle Fire	4	1	2	5	4
Other Fire	4	1	0	1	2
Traffic Accident	244	268	249	265	270
Oil Spill	1	0	0	0	0
Hazardous Material Accident	1	0	3	0	0
Explosion, Risk of Explosion	0	2	1	0	0
Collapse, Risk of Collapse	0	1	3	0	1
Human Rescue	125	125	159	133	128

### INJURED

	2012	2013	2014	2015	2016
Building Fire	529	563	772	588	678
Wildfire	6	5	36	4	20
Vehicle Fire	32	43	29	50	72
Other Fire	13	10	14	13	25
Traffic Accident	10 100	9 764	10 103	9 781	9 472
Oil Spill	12	19	16	14	8
Hazardous Material Accident	76	25	29	69	121
Explosion, Risk of Explosion	16	11	12	9	5
Collapse, Risk of Collapse	5	9	1	4	4
Human Rescue	502	644	599	627	635

## FIRE DEATHS

	2012 <sup>1</sup>	2013 <sup>1</sup>	2014 <sup>1</sup>	2015	2016
Fire Deaths	82	58	86	74	82
Accidental Cause of Fire	78	49	73	63	65
Non-accidental Cause of Fire	4	9	13	11	17
Deaths per Million Inhabitants	15	11	16	13	15

## FIRE DEATHS BY AGE

	2012 <sup>1</sup>	2013 <sup>1</sup>	2014 <sup>1</sup>	2015	2016
Men	66	43	58	54	59
Women	16	15	28	19	23

## FIRE DEATHS BY CAUSE OF IGNITION

	2012 <sup>1</sup>	2013 <sup>1</sup>	2014 <sup>1</sup>	2015	2016
Cooking	5	7	9	4	4
Deliberate	7	13	18	11	17
Open Fire	34	19	34	21	23
Cigarette, Other Tobacco Product	27	15	27	16	16
Electrical Device	6	4	6	2	7
Other Known Cause	9	6	11	14	19
Cause Unknown	21	9	8	22	12

## FIRE DEATHS\* BY BUILDING TYPE

	2012 <sup>1</sup>	2013 <sup>1</sup>	2014 <sup>1</sup>	2015	2016
Residential Building	72	50	77	58	61
Detached houses	21	19	36	41	31
Attached houses	8	7	11	3	14
Blocks of flats	21	22	26	14	16
Free-time Residence	1	0	4	4	11
Institutional, Healthcare Building	0	1	1	2	0
Other Building	1	2	3	4	2

<sup>1</sup>Reference: The Emergency Services College Publication (Esa Kokki)

## SMOKE ALARM ACTIVATION IN FATAL FIRES

	2012 <sup>1</sup>	2013 <sup>1</sup>	2014 <sup>1</sup>	2015	2016
Smoke Alarm Activated	11	13	15	10	10
Smoke Alarm Did Not Activate	4	2	6	6	7
Smoke Alarm Activation Unknown	9	7	17	33	40
No Smoke Alarm	26	18	19	13	15

<sup>1</sup>Reference: The Emergency Services College Publication (Esa Kokki)

## TOTAL PROPERTY DAMAGES FROM FIRES

	2012	2013	2014	2015	2016
Burnt Floor Area in Residential Building Fires (m <sup>2</sup> )	84 976	73 592	75 394	66 363	75 142
Damage to Building, Furnishings in Building Fires (MEUR)	123	120	141	103	142
Property in Danger in Building Fires (MEUR)	5 452	4 104	2 838	2 969	2 920
Burnt Land Area (ha)	219	743	1 325	308	558
Burnt Forest Area (ha)	89	469	888	146	322
Vehicle Fire (MEUR)	25	20	26	20	23
Other Fire (MEUR)	9	26	9	10	8

## AVERAGE PROPERTY DAMAGES FROM FIRES

	2012	2013	2014	2015	2016
Burnt Floor Area in Residential Building Fires (m <sup>2</sup> )	25	23	23	22	24
Damage to Building, Furnishings in Building Fires (€)	20 533	20 705	23 413	19 527	25 350
Burnt Land Area (ha)	0,21	0,26	0,36	0,19	0,27
Burnt Forest Area (ha)	0,20	0,31	0,52	0,19	0,33
Vehicle Fire (€)	10 681	8 310	11 655	8 698	9 685
Other Fire (€)	3 565	9 965	3 809	4 290	3 853



## 6 RESCUE OPERATIONS

### RESCUED AND EVACUATED HUMANS

	2012	2013	2014	2015	2016
Building Fire	1 243	1 930	3 361	2 076	1 630
Vehicle Fire	42	83	15	13	453
Other Fire	25	24	31	1	2
Traffic Accident	1 853	1 406	1 216	1 218	1 217
Hazardous Material Accident	293	223	180	205	342
Explosion, Risk of Explosion	0	301	47	4	0
Collapse, Risk of Collapse	11	252	1	52	2
Human Rescue	2 413	2 219	2 121	1 918	1 823

### ACTIVITY ON RESCUE OPERATIONS

	2012	2013	2014	2015	2016
Forcible Entry	1 378	1 326	1 419	1 267	1 514
Extinguishing, Confining Fire	8 800	9 325	9 805	7 557	8 227
Smoke Venting	4 194	4 349	4 414	4 383	4 701
Technical Rescue, Clearing	11 090	14 293	12 540	15 702	13 328
Prehospital Care	20 028	20 398	17 035	17 224	18 789
Warning the population	102	90	65	76	88

### METHODS ON RESCUE ACTIVITIES

	2012	2013	2014	2015	2016
Water Extinguishing	6 454	8 190	8 670	6 528	7 260
Using the Extinguishing Cutter	78	90	108	71	92
Foam Extinguishing	769	887	831	878	917
Smoke Diving	2 287	2 163	2 057	2 040	2 089
Surface Rescue	283	220	241	223	279
Water Diving	80	78	78	75	62
Using the Thermal Camera	2 842	3 368	3 799	3 652	4 527

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

	2012	2013	2014	2015	2016
Time 08-16	6:36	7:05	7:14	7:14	7:13
Time 16-24	7:00	7:27	7:36	7:33	7:36
Time 00-08	7:45	8:00	8:10	8:16	8:12
	6:59	7:24	7:33	7:33	7:33

\*Urgent assignments excluding medical assignments

## MEDIAN OF THE RESPONSE TIME

	2013	2014	2015	2016
Risk Class I	10:34	10:39	10:42	10:40
Risk Class II	11:01	10:56	11:02	11:07
Risk Class III	10:09	10:21	10:33	10:36
Risk Class IV	15:14	15:26	15:13	15:21
	11:54	11:59	12:02	12:06

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

	2013	2014	2015	2016
Risk Class I (11 min)	115	128	127	125
Risk Class II (14 min)	15	19	15	21
Risk Class III (22 min)	0	1	0	0
Risk Class IV (40 min)	0	0	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	2015	2016
Helsinki	13:02	13:14	13:28	13:18
Länsi-Uusimaa	13:41	14:19	13:58	13:47
Keski-Uusimaa	13:31	13:37	13:28	13:52
Itä-Uusimaa	14:06	13:48	14:03	14:12
Varsinais-Suomi	14:11	14:01	14:09	13:53
Kanta-Häme	14:38	14:48	14:20	14:24
Päijät-Häme	14:05	14:21	14:10	13:39
Kymenlaakso	14:10	14:46	14:34	14:25
South Karelia	15:33	15:44	15:31	16:21
Etelä-Savo	17:43	17:47	17:32	19:00
Central Finland	15:16	15:55	16:16	16:23
Pirkanmaa	14:44	14:27	14:04	14:06
Satakunta	14:02	14:20	14:01	14:27
South Ostrobothnia	14:00	14:25	14:20	14:46
Ostrobothnia	14:45	14:54	14:50	15:18
Central Ostrobothnia	12:58	13:30	13:10	13:16
Pohjois-Savo	16:14	16:13	16:27	16:17
North Karelia	17:28	17:34	17:12	17:41
Jokilaaksot	15:48	16:04	15:59	16:10
Kainuu	18:42	18:55	18:04	18:17
Oulu-Koillismaa	14:18	14:18	14:07	14:48
Lapland	18:12	17:54	18:08	17:23
Total	14:29	14:40	14:34	14:39

