

FINNISH RESCUE SERVICES'
POCKET STATISTICS 2009-2013

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1 INTRODUCTION

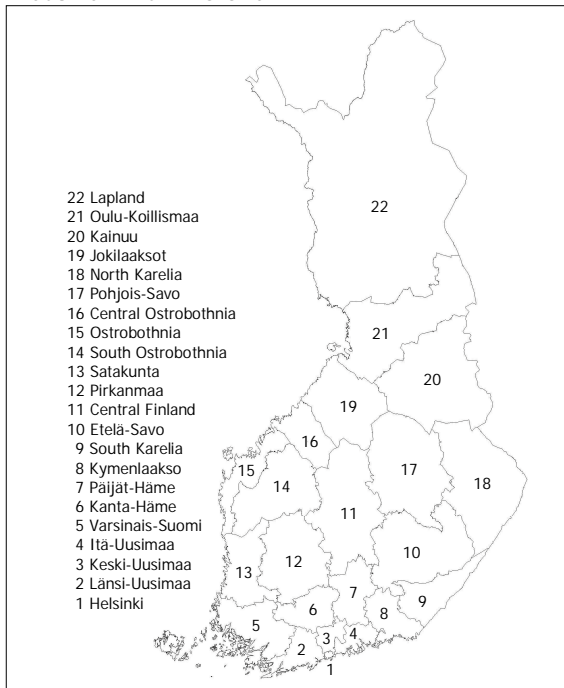
In Finland, the responsibility for the functions of rescue services is divided between 22 rescue service regions. The rescue services on the Åland Islands are regulated by regional legislation. The functions of rescue service regions include accident prevention, rescue operations and civil defence, etc.

The pocket statistics is based on the data in the rescue services resource and accident statistics program (PRONTO) from 2009–2013, 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 2013

	Population*	Surface Area (km ²)	Risk squares by risk class				Land Area (km ²)
			I	II	III	IV	
Helsinki	603 968	716	119	56	21	526	213
Länsi-Uusimaa	438 414	7 855	45	240	152	7 508	4 242
Keski-Uusimaa	429 311	1 986	66	240	100	1 579	1 940
Itä-Uusimaa	95 142	5 537	3	38	78	5 429	2 736
Varsinais-Suomi	468 936	20 539	33	236	280	20 088	10 663
Kanta-Häme	175 472	5 706	13	99	127	5 464	5 200
Päijät-Häme	202 548	6 256	16	144	87	6 041	5 124
Kymenlaakso	181 421	7 417	11	125	126	7 254	5 113
South Karelia	132 355	7 236	3	90	107	7 164	5 615
Etelä-Savo	153 426	18 768	7	93	94	18 537	13 984
Central Finland	275 161	19 952	13	152	210	19 576	16 706
Pirkanmaa	496 568	14 471	29	259	261	13 906	12 444
Satakunta	224 934	11 636	10	168	179	11 338	7 957
South Ostrobothnia	194 058	14 001	3	127	158	13 711	13 445
Ostrobothnia	148 351	17 411	8	65	160	16 128	6 804
Central Ostro-	99 922	9 116	6	56	66	8 387	6 215
Pohjois-Savo	248 233	20 368	17	115	142	20 070	16 771
North Karelia	165 754	21 584	5	104	106	21 550	17 764
Jokilaaksot	123 778	17 259	2	69	108	17 792	13 499
Kainuu	80 685	24 453	2	51	61	24 488	21 503
Oulu-Koillismaa	276 892	26 180	14	145	156	25 957	21 739
Lapland	182 844	100 368	5	100	169	101 126	92 663
Total	5 398 173	361 404	430	2 772	2 948	373 619	302 340

*Population 31.12.2012

RESCUE SERVICES' FINANCIAL INFORMATION 2013 (€/Inhabitant)

	Contributions of municipalities excluding rent and depreciation costs	Investments	Expenditure excluding depreciation costs	Revenue excluding contributions of municipalities
Helsinki	56	1	81	8
Länsi-Uusimaa	53	4	69	5
Keski-Uusimaa	46	4	74	3
Itä-Uusimaa	80	9	125	18
Varsinais-Suomi	53	4	83	9
Kanta-Häme	47	4	101	28
Päijät-Häme	63	7	93	24
Kymenlaakso	65	9	95	12
South Karelia	59	7	73	5
Etelä-Savo	65	9	103	20
Central Finland	57	7	95	19
Pirkanmaa	57	3	76	12
Satakunta	69	10	109	29
South Ostrobothnia	67	5	78	3
Ostrobothnia	61	9	96	25
Central Ostrobothnia	66	7	88	22
Pohjois-Savo	55	6	81	13
North Karelia	55	8	114	35
Jokilaaksot	76	8	95	16
Kainuu	75	0	82	3
Oulu-Koillismaa	49	4	66	8
Lapland	67	4	83	4

RESCUE SERVICES' FINANCIAL INFORMATION (MEUR)

	2009	2010	2011	2012
Revenue	87	104	110	95
Expenditure	432	443	465	474
Personnel Costs	293	301	315	332
Net Expenditure	344	339	355	379
Investments	18	21	14	15

RESCUE SERVICE VEHICLES

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

* EMS Vehicles of Fire Departments.

NUMBER OF FIRE STATIONS

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

RESCUE SERVICE PERSONNEL

	2012
Ministry of the Interior, Department of Rescue ¹	45
Emergency Services College ²	139
Regional State Administrative Agencies, Department of Rescue	45
Full-time Employees of Rescue Departments*	5 089
Administrative and Support Services*	451
Rescue Function*	3 518
Safety Services*	275
Emergency Medical Services*	844
Relating to temporary staff of Rescue Departments*	726
Contract Fire Brigade Personnel*	13 367

References: ¹ Ministry of the Interior, Department of Rescue, ² Emergency Services College,

³ Regional State Administrative Agencies, Department of Rescue

*Varsinais-Suomi information is missing.

RESCUE DEPARTMENTS PERSON-YEARS*

	2012
Administrative and Support Services	379
Rescue Function	2 534
Safety Services	381
Emergency Medical Services	1 108

Länsi-Uusimaa, Satakunta, Jokilaaksot, Kainuu and Varsinais-Suomi information is missing.

PERSONNEL OF RESCUE DEPARTMENTS 2012

	Full-time	Rescue Function	Temporary	Contract Personnel	Contract Personnel, Rescue Function
Helsinki	694	479	9	653	386
Länsi-Uusimaa	409	319	-	-	-
Keski-Uusimaa	422	272	31h	610	610
Itä-Uusimaa	145	77	36	1 320	793
Varsinais-Suomi*	-	-	-	-	-
Kanta-Häme	244	142	0	442	89
Päijät-Häme	241	165	88	918	512
Kymenlaakso	208	150	0	1 896	951
South Karelia	94	84	18	962	643
Etelä-Savo	209	121	80	1 020	589
Central Finland	279	192	61	1 053	1 053
Pirkanmaa	479	375	87	1 929	966
Satakunta	270	195	0	2 520	1 289
South Ostrobothnia	107	95	18	1 472	830
Ostrobothnia	150	88	22	1 025	813
Central Ostroboth- nia	119	79	34	498	498
Pohjois-Savo	230	176	45	867	690
North Karelia	234	190	50	824	546
Jokilaaksot	101	84	8	465	215
Kainuu	60	44	14	188	166
Oulu-Koillismaa	235	174	100	707	448
Lapland	153	134	34	1 699	1 280

3 ACCIDENT PREVENTION

SAFETY EDUCATION

	2009	2010	2011	2012	2013
Events	12 749	12 337	12 180	12 126	11 701
Participants	854 442	801 100	808 252	897 009	894 056
Share of Population(%)	16	15	15	17	17

SAFETY EDUCATION EVENTS BY TYPE OF IMPLEMENTATION

	2010	2011	2012	2013
Safety Information Campaigns	1 093	1 014	676	675
Fairs or other public events	1 622	1 579	1 388	1 532
Safety Training	9 570	9 513	8 305	7 788
Safety Advicing	-	14	1 716	1 665
Safety Information through	53	60	41	41

SAFETY EDUCATION EVENTS BY TARGET GROUP

	2009	2010	2011	2012	2013
Citizens, civil servant	7 218	7 362	7 575	7 301	7 366
Children and the Young	5 046	4 966	5 056	5 041	4 873
Civil Servants and Trustees	201	190	331	265	204
Companies and Institutions	4 538	4 022	3 762	3 818	3 664
Personnel in Care Institution	-	1 651	1 760	1 883	1 805
Personnel in learning institution	-	426	329	318	365
Personnel in day care center	-	339	311	314	317
Civil Defence Organisations	115	90	70	42	53
Other Target Group	875	859	772	627	617

FIRE INSPECTIONS

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

DOCUMENT AUDITING

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

4 RESCUE OPERATIONS

RESCUE OPERATIONS BY TYPE

	2009	2010	2011	2012	2013
Fires	14 994	14 992	14 737	11 803	13 421
Building Fire	6 233	6 267	6 013	5 906	5 727
Risk of Building Fire	3 497	3 481	3 470	3 493	3 386
Vehicle Fire	2 400	2 438	2 478	2 277	2 335
Wildfire	2 746	2 997	2 770	1 011	2 764
Other Fire	3 615	3 290	3 476	2 609	2 595
Other Accidents	18 108	19 239	16 604	16 933	15 876
Traffic Accident	13 249	13 472	13 630	14 163	13 140
Oil Spill	2 625	2 286	2 532	2 371	2 330
Hazardous Material Accident	278	299	317	319	344
Natural Hazard	1 816	2 998	-	-	-
Explosion, Risk of Explosion	29	27	26	31	24
Collapse, Risk of Collapse	11	157	99	49	38
Other Operations	68 333	76 156	83 816	72 926	75 552
Fire Alarm System Check or Inspection	19 374	22 306	21 382	20 076	19 033
Smoke Alarm System Check or Inspection	2 171	2 988	2 380	2 625	2 133
Other Check or Inspection	7 916	8 895	9 117	7 873	8 649
First Response	26 528	27 044	28 599	26 774	26 226
Human Rescue	2 275	2 429	2 223	2 193	2 425
Animal Rescue	2 422	2 161	2 019	1 859	2 090
Loss Prevention	3 755	5 853	13 502	7 025	10 226
Assistance	3 097	3 235	3 351	3 421	3 471
Executive Assistance	795	1 245	1 243	1 080	1 299
Total	101 435	110 387	115 157	101 662	104 849

RESCUE OPERATIONS BY RESCUE SERVICE REGION

	2009	2010	2011	2012	2013
Helsinki	8 000	9 322	9 470	8 171	8 391
Länsi-Uusimaa	6 608	6 976	8 013	6 497	7 151
Keski-Uusimaa	6 910	7 784	7 381	6 521	6 631
Itä-Uusimaa	2 242	2 207	2 087	1 900	1 928
Varsinais-Suomi	8 319	8 786	10 302	8 140	8 759
Kanta-Häme	3 177	3 606	4 115	3 831	3 717
Päijät-Häme	3 924	4 398	4 400	4 328	4 028
Kymenlaakso	3 687	4 164	4 346	3 911	3 384
South Karelia	2 607	3 106	2 968	2 897	2 630
Etelä-Savo	3 625	3 902	4 001	3 673	3 575
Central Finland	5 526	5 778	6 244	5 383	5 928
Pirkanmaa	9 548	10 638	11 378	11 619	10 265
Satakunta	5 076	5 653	6 415	4 904	5 395
South Ostrobothnia	4 903	5 351	5 829	5 131	5 677
Ostrobothnia	2 744	3 036	2 984	2 819	3 312
Central Ostrobothnia	2 346	2 628	2 395	2 340	2 714
Pohjois-Savo	5 232	5 596	5 504	4 547	4 936
North Karelia	3 994	4 118	4 221	3 732	3 588
Jokilaaksot	2 814	3 189	2 808	2 160	2 754
Kainuu	1 429	1 592	1 496	1 277	1 519
Oulu-Koillismaa	4 235	4 234	4 444	3 784	4 324
Lapland	4 493	4 327	4 364	4 097	4 237
Cooperations	1 071	1 281	1 341	1 258	1 664

SHARE OF RESCUE OPERATIONS BY RISK CLASS* (%)

	2009	2010	2011	2012	2013
Risk class I	25	24	22	23	22
Risk class II	27	27	27	27	33
Risk class III	16	16	17	17	11
Risk class IV	33	32	34	33	33

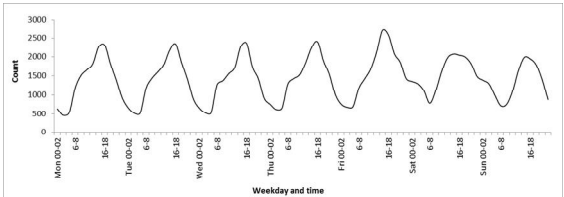
*Definition changed 2013.

URGENT OPERATIONS** BY MONTH

	2009	2010	2011	2012	2013
January	2 216	2 114	2 061	2 311	1 828
February	1 731	1 945	1 931	2 025	1 575
March	1 627	1 751	1 813	1 553	1 731
April	1 739	1 520	1 615	1 496	1 458
May	2 207	2 042	2 009	1 891	2 054
June	2 344	2 230	2 453	2 136	2 341
July	2 281	2 591	2 505	2 199	2 137
August	2 249	2 227	2 168	2 075	2 097
September	1 904	1 826	1 806	1 816	1 874
October	2 109	2 008	1 864	1 846	1 844
November	1 738	2 088	1 887	1 816	1 940
December	2 377	2 334	2 425	2 383	2 167

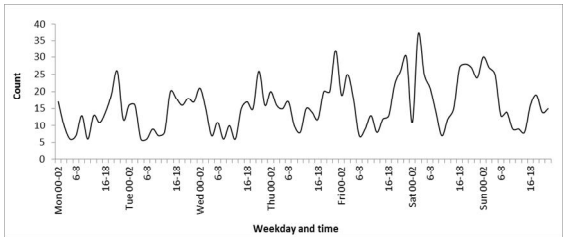
**Urgent Operations = Fires excluding Wildfire, Traffic Accident, Hazardous Material Accident, Explosion or Risk of Explosion, Collapse or Risk of Collapse and Human Rescue.

URGENT OPERATIONS* YEARS 2009—2013



*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 2009—2013



BUILDING FIRES BY BUILDING TYPE

	2009	2010	2011	2012	2013
Residential Building	3 415	3 362	3 129	3 132	3 069
Detached houses	1 577	1 638	1 408	1 466	1 415
Attached houses	393	335	321	338	323
Blocks of flats	1 446	1 389	1 400	1 328	1 331
Free-time Residence	201	202	169	194	172
Commercial Building	380	360	378	338	345
Office Building	74	87	90	120	127
Transport, Communications Building	73	78	79	76	92
Institutional and Healthcare Building	233	247	210	230	209
Assembly Building	86	90	79	84	82
Educational Building	119	108	109	104	111
Industrial Building	591	638	585	597	624
Warehouse	236	242	241	195	203
Building for Fire Services	1	2	0	5	10
Agricultural Building	194	227	212	196	226
Other Building	655	650	646	635	522
Sauna	331	297	287	252	239
Total	6 258	6 293	5 927	5 906	5 792

CAUSE OF BUILDING FIRE

	2009	2010	2011	2012	2013
Human Activity	3 323	3 003	2 903	2 886	2 706
Machine or Device Failure	1 524	1 697	1 646	1 781	1 728
Natural Phenomena	123	203	252	120	208
Flammable Substance	90	92	84	100	97
Animal	27	31	42	33	50
Other Cause	681	711	558	573	538
Cause Unknown	532	596	508	475	465

BUILDING FIRE CAUSE OF IGNITION

	2009	2010	2011	2012	2013
Cooking	1 162	1 055	1 070	973	918
Deliberate	260	275	290	316	344
Open Fire	1 029	862	816	760	727
Juvenile Fire Setting	77	56	57	48	54
Hot Work	152	154	152	149	138
Match, Other Firemaking Device	276	172	180	142	117
Cigarette, Other Tobacco Product	308	268	220	242	256
Firework, Pyrotechnic Products	43	19	23	7	15
Candle, Outdoor Candle	98	116	98	119	84
Machine, Device, Process	1 538	1 683	1 647	1 769	1 738
Electrical Device	595	690	680	760	711
Hot Object, Ash, Spark	231	222	232	246	188
Fireplace, Flue	879	898	719	793	691
Chimney Fire	384	405	302	311	285
Frictional Heat, Spontaneous Ignition, Explosion	133	119	114	139	129
Natural Phenomena	98	189	232	100	190
Other Known Cause	410	427	355	366	395
Cause Unknown	560	603	518	506	472

INTENTIONALITY OF BUILDING FIRE

	2009	2010	2011	2012	2013
Intentional	550	415	472	452	458
Negligence, Carelessness	1 283	1 220	1 173	1 231	1 079
Accidental	1 295	1 205	1 111	1 067	1 039
Unknown	195	163	146	137	130
Total	3 323	3 003	2 902	2 887	2 706

USE OF FIRST EXTINGUISHING IN BUILDING FIRES

	2009	2010	2011	2012	2013
Used	2 135	2 128	2 078	2 040	1 965
Not Used	3 568	3 587	3 400	3 456	3 351
Unknown	596	618	515	472	477

EFFECT OF FIRST EXTINGUISHING IN BUILDING FIRES

	2009	2010	2011	2012	2013
Extinguished Fire	1 241	1 185	1 161	1 201	1 116
Limited Fire	654	671	656	608	600
No Effect	236	267	254	225	238
Extinguisher Did Not Work	4	5	7	6	11

SMOKE ALARM ACTIVATION IN RESIDENTIAL BUILDING FIRES

	2009	2010	2011	2012	2013
Smoke Alarm Activated	1 069	1 187	1 112	1 112	1 046
Smoke Alarm Did Not Activate	483	464	372	480	446
Smoke Alarm Activation Unknown	571	464	457	446	398
No Smoke Alarm	1 081	1 004	948	943	949

WILDFIRES

	2009	2010	2011	2012	2013
Forest Fire	1 242	1 412	1 262	437	1 504
Other Wildfire	1 599	1 688	1 609	613	1 360
Total	2 841	3 100	2 871	1 050	2 864

CAUSE OF WILDIRE

	2009	2010	2011	2012	2013
Human Activity	1 989	1 951	1 717	697	1 913
Natural Phenomena	216	428	405	100	348
Machine or Device Failure	86	120	82	40	111
Animal	18	24	20	4	12
Flammable Substance	13	9	16	4	8
Other Cause	139	180	182	59	127
Cause Unknown	380	387	390	145	344

WILDFIRE CAUSE OF IGNITION

	2009	2010	2011	2012	2013
Open Fire	1 749	1 591	1 471	546	1 553
Juvenile Fire Setting	147	131	114	52	81
Campfire, Grill	391	425	348	150	582
Rubbish Burning	360	353	326	122	332
Match, Other Firemaking Device	340	202	240	74	161
Cigarette, Other Tobacco Product	287	268	267	79	199
Prescribed Burning	164	169	147	62	168
Natural Phenomena	145	383	324	61	296
Lightning	75	328	279	35	268
Machine, Device, Process	132	162	128	54	135
Electrical Device	26	31	21	14	34
Hot Object, Ash, Spark	123	127	136	48	123
Fireplace, Flue	14	12	21	5	19
Frictional Heat, Spontaneous Ignition, Explosion	94	107	135	41	77
Deliberate	39	117	73	71	141
Other Known Cause	151	198	152	57	151
Cause Unknown	394	402	372	166	368

INTENTIONALITY OF WILDFIRE

	2009	2010	2011	2012	2013
Intentional	368	319	278	177	342
Negligence, Carelessness	822	794	755	272	826
Accidental	506	555	449	154	480
Unknown	293	283	235	94	265
Total	1 989	1 951	1 717	697	1 913

VEHICLE FIRES BY VEHICLE TYPE

	2009	2010	2011	2012	2013
Road Vehicle	2 398	2 400	2 375	2 146	2 299
All Terrain Vehicle	-	-	-	42	31
Water Vehicle	34	40	38	38	40
Rail Vehicle	9	13	11	13	13
Air Vehicle	2	1	4	1	2
Other Vehicle	25	43	33	36	31
Total	2 468	2 497	2 461	2 276	2 416

CAUSE OF VEHICLE FIRE

	2009	2010	2011	2012	2013
Machine or Device Failure	1 318	1 433	1 476	1 394	1 455
Human Activity	563	439	426	450	410
Flammable Substance	28	35	30	27	34
Natural Phenomena	6	7	7	2	4
Animal	2	0	3	1	1
Other Cause	147	153	121	90	153
Cause Unknown	404	430	401	372	358

INTENTIONALITY OF VEHICLE FIRES

	2009	2010	2011	2012	2013
Intentional	411	300	310	309	281
Negligence, Carelessness	53	45	44	45	45
Accidental	69	65	47	63	63
Unknown	30	29	25	27	21
Total	563	439	426	444	410

ROAD VEHICLE FIRES

	2009	2010	2011	2012	2013
Passenger Car	1 513	1 470	1 398	1 405	1 350
Van	163	176	159	150	158
Lorry, Truck	210	261	298	251	315
Engine-powered Work Vehicle	109	129	148	68	86
Tractor	119	109	86	87	115
Bus	77	56	68	64	50
Motor Caravan, Caravan	42	48	56	44	54
Moped	79	63	72	57	70
Moped car	-	-	-	17	21
Off-road Vehicle	35	34	31	42	31
Trailer	17	20	22	13	21
Motorcycle	19	17	19	16	25
Other Road Vehicle	15	17	23	25	25

OTHER FIRES

	2013
Immovable Structure	274
Mobile Structure	42
Barrack	33
Transformer, Utility Pole	240
Waste Container, Recycle Container, Less than 240 liters	391
Waste Container, Recycle Container , More than 240 liters	436
Demountable Body	79
Stack of Wood Materials, Less than 2m ³	157
Stack of Wood Materials, More than 2m ³	137
Pile of Other Organic Material	167
Machine or Device Outdoors	93
Blasting Mat	1
Other Material	558

CAUSE OF OTHER FIRE

	2009	2010	2011	2012	2013
Human Activity	2 570	2 187	2 179	1 733	1 730
Machine or Device Failure	321	322	321	311	252
Natural Phenomena	106	167	227	107	147
Flammable Substance	15	26	25	17	23
Animal	22	7	7	12	8
Other Cause	280	324	308	203	240
Cause Unknown	334	298	318	240	228
Total	3 648	3 331	3 384	2 623	2 628

OTHER FIRE CAUSE OF IGNITION

	2009	2010	2011	2012	2013
Open Fire	1 916	1 253	1 273	840	867
Juvenile Fire Setting	125	65	89	71	42
Campfire, Grill	204	206	183	116	113
Rubbish Burning	250	241	214	174	143
Match, Other Firemaking Device	893	393	407	212	256
Cigarette, Other Tobacco Prod-	284	217	265	163	197
Firework, Pyrotechnic Products	104	75	68	58	79
Fireplace, Flue	33	32	28	32	24
Chimney Fire	4	4	2	0	0
Machine, Equipment, Process	297	307	288	289	230
Electrical Device	136	136	142	124	98
Hot Object, Ash, Spark	111	132	109	67	112
Frictional Heat, Spontaneous Ignition, Explosion	117	130	166	111	117
Natural Phenomena	57	118	151	67	100
Deliberate	318	612	630	631	652
Other Known Cause	404	384	356	272	245
Cause Unknown	394	363	384	314	281

INTENTIONALITY OF OTHER FIRE

	2009	2010	2011	2012	2013
Intentional	1 515	1 218	1 260	1 035	1 031
Negligence, Carelessness	434	419	408	297	313
Accidental	291	288	252	200	186
Unknown	330	262	259	201	200
Total	2 570	2 187	2 179	1 733	1 730

TRAFFIC ACCIDENTS

	2009	2010	2011	2012	2013
Road Traffic	12 896	13 095	12 794	13 689	12 642
Rail Transport	144	126	121	198	137
Railway Level Crossing	56	36	26	87	52
Waterway Transport	80	62	53	77	106
Air Traffic	40	35	30	26	27
Other Traffic	253	193	233	261	261
Total	13 413	13 511	13 257	14 338	13 225

OIL SPILLS

	2009	2010	2011	2012	2013
Overfill	260	191	189	161	155
Tank Leak	117	77	97	90	82
Other Leak in Storing or Dispensing Device	81	80	91	62	72
Tank Transport	48	58	61	53	55
Road Vehicle	1 325	1 176	1 329	1 319	1 320
Rail Vehicle	2	3	3	10	4
Water Vehicle	63	73	73	66	63
Other Vehicle	301	293	318	298	299
Other Machine or Device	126	133	154	145	125
Treatment of Waste Oil or Used Oil	58	50	32	43	37
Unknown Oil Spill in Water Body or Sewer	83	101	102	96	98
Other Cause or Accident	425	275	290	285	275
Total	2 889	2 510	2 739	2 628	2 585

HAZARDOUS MATERIAL ACCIDENT SITE

	2009	2010	2011	2012	2013
Industrial Plant	56	55	51	61	51
Warehouse, Warehouse Area	39	40	47	34	53
Street, Other Urban Area	50	58	52	79	96
Highway	12	23	38	32	42
Shop, Petrol Outlet	43	32	39	42	73
Public Building	16	23	15	20	9
Accommodation or Restaurant Premises	8	10	2	7	4
Residential Building	14	16	25	17	32
Other Building	16	17	19	11	16
Port, Water Body	9	14	11	8	11
Yard, Railway	7	5	3	3	8
Other Site	23	28	24	28	22
Total	293	321	326	342	417

ADR CLASSIFICATION OF HAZARDOUS MATERIAL ACCIDENTS

	2009	2010	2011	2012	2013
Explosives	0	0	0	3	1
Gases	76	78	62	63	97
Flammable Liquids	93	99	115	118	208
Flammable Solids	1	10	5	0	3
Oxidising Substances, Organic Peroxides	10	13	12	6	7
Toxic and Infectious Substances	12	3	10	9	5
Radioactive Substances	0	0	1	0	0
Corrosive Substances	49	46	55	51	49
Other Hazardous Material or Goods	5	8	12	3	8

CAUSE OF LOSS PREVENTION OPERATIONS*

	2009	2010	2011	2012	2013
Natural Phenomena	3 133	5 823	10 821	4 867	8 043
Wind, Storm	1 615	2 678	9 317	2 926	6 938
Flood, Rain Water	-	-	896	1 040	774
Snow, Ice	-	-	378	678	189
Frost	-	-	77	125	34
Defect or Malfunction in a Machine, Device	857	1 434	1 112	1 127	1 030
Defect or Malfunction of Mains	557	977	605	639	568
Defect or Malfunction of Vehicle	-	-	306	279	256
Human Activity	655	607	769	707	808
Animal	-	-	33	25	38
Other Cause	935	998	422	358	360
Total	5 580	8 862	13 153	7 084	10 279

*Years 2009–2010 include natural hazards.

CAUSE OF ASSISTANCE OPERATIONS

	2011	2012	2013
Assistance of EMS	1 912	2 256	2 432
Human Activity	422	397	374
Defect or Malfunction in a Machine, Device	353	262	295
Defect or Malfunction of Vehicle	238	171	186
Defect or Malfunction of Mains	36	17	21
Defect or Malfunction of Grid	18	5	14
Natural Phenomena	187	171	116
Wind, Storm	69	50	58
Flood, Rain Water	34	63	17
Snow, Ice	67	37	20
Animal	59	56	61
Other Cause	395	348	269

HUMAN RESCUE OPERATIONS

	2009	2010	2011	2012	2013
Water Rescue	383	407	385	346	425
Rescue from Trap, Shaft, Collapse, Well	49	61	64	54	56
Rescue from Other Dangerous Place or Situation	259	269	259	252	267
Rescue from Place or Situation With No Immediate Danger	427	508	407	459	516
Rescue from Terrain	290	314	284	313	383
Lift Rescue	661	691	596	599	611
Other Rescue Operation	206	177	166	167	163

ANIMAL RESCUE OPERATIONS

	2009	2010	2011	2012	2013
Water Rescue	198	111	106	175	193
Rescue from Trap, Shaft, Collapse, Well	253	222	208	231	254
Rescue from Other Dangerous Place or Situation	405	249	186	221	207
Rescue from Place or Situation With No Immediate Danger	914	896	861	781	878
Rescue from Terrain	119	116	72	94	114
Lift Rescue	10	6	1	2	6
Other Rescue Operation	522	559	475	354	435

CAUSE FOR AUTOMATIC FIRE ALARM

	2009	2010	2011	2012	2013
Negligence in Property Repair, Installation or Maintenance Work	2 217	2 393	2 439	2 315	2 292
Exhaust Gas	178	206	194	204	152
Smoking	306	275	285	207	205
Cooking	2 970	3 147	3 377	3 649	3 478
Other Smoke or Dust	2 802	2 965	2 696	2 516	2 383
Temporary High Temperature	358	460	423	331	369
Fire	206	208	257	421	365
Moisture or Water	1 786	2 331	2 125	1 996	1 622
Sensor Failure in Fire Alarm or Fixed Fire Extinguishing System	649	684	612	616	759
Sprinkler System Failure	952	1 151	1 058	1 110	969
Other System Failure	462	502	464	482	490
Overvoltage	189	310	355	224	307
Impact on Sensor	236	299	286	302	309
Error or Misuse	605	726	651	732	712
Malicious Use	479	446	441	468	461
Other Cause or Cause Unknown	5 090	6 421	5 589	5 285	4 843

AUTOMATIC FIRE ALARMS

	2009	2010	2011	2012	2013
Building Fire	721	746	748	832	810
Risk of Building Fire	637	643	645	738	715
Vehicle Fire	4	4	7	4	4
Other Fire	59	54	51	41	25
Hazardous Material Accident	20	11	12	11	19
Explosion, Risk of Explosion	4	5	4	5	1
Total	19 982	22 982	22 100	20 983	19 858
Share of Miss Alarms (%)	96	96	96	96	96

OTHER CHECK OR INSPECTION OPERATIONS

	2009	2010	2011	2012	2013
Smoke Observation	3 369	3 812	3 789	3 279	3 866
Oil Observation	564	553	545	462	488
Gas Observation	150	164	133	147	135
Chemical Observation	103	106	115	104	88
Carbon Monoxide Alarm Check	-	-	-	35	29
Blind Call	470	529	502	475	531
False Call	143	156	144	106	128
Risk of Air Crash	86	128	90	81	120
Other Cause	3 029	3 437	3 505	3 218	3 254

5 ACCIDENT DAMAGES

DEATHS

	2009	2010	2011	2012	2013
Building Fire	98	75	56	77	50
Wildfire	1	1	0	0	1
Vehicle Fire	7	5	4	4	1
Other Fire	3	1	4	4	1
Traffic Accident	270	286	277	244	268
Oil Spill	0	0	0	1	0
Hazardous Material Accident	0	0	0	1	0
Natural Hazard	0	0	-	-	-
Explosion, Risk of Explosion	0	2	0	0	2
Collapse, Risk of Collapse	1	0	0	0	1
Fire Alarm System Check or Inspection	0	0	0	0	0
Smoke Alarm Check or Inspection	0	1	1	1	0
Other Check or Inspection	8	9	3	4	2
Human Rescue	124	150	138	125	125
Animal Rescue	0	0	0	0	0
Loss Prevention	0	1	2	1	1
Assistance	41	58	42	73	56
Executive Assistance	59	47	48	51	67
Total	612	641	588	586	575

INJURED

	2009	2010	2011	2012	2013
Building Fire	659	570	457	529	563
Wildfire	4	6	10	6	5
Vehicle Fire	25	29	23	32	43
Other Fire	10	13	15	13	10
Traffic Accident	8 878	8 032	8 078	10 100	9 764
Oil Spill	12	9	7	12	19
Hazardous Material Accident	10	27	24	76	25
Natural Hazard	4	46	-	-	-
Explosion, Risk of Explosion	10	11	10	16	11
Collapse, Risk of Collapse	1	11	3	5	9
Fire Alarm System Check or Inspection	9	4	8	11	14
Smoke Alarm Check or Inspection	6	6	12	9	5
Other Check or Inspection	35	41	49	40	89
Human Rescue	423	402	407	502	644
Animal Rescue	5	3	1	7	4
Loss Prevention	16	22	25	25	25
Assistance	145	163	168	382	474
Executive Assistance	32	62	56	100	153
Total	10 284	9 473	9 383	11 865	11 859

FIRE DEATHS*

	2009	2010	2011	2012	2013
Fire Deaths	107	80	66	82	58
Accidental Cause of Fire	94	72	55	78	49
Non-accidental Cause of Fire	13	8	11	4	9
Deaths per Million Inhabitants	20	15	12	15	11

FIRE DEATHS* BY AGE AND SEX

Age	2009		2010		2011		2012		2013	
	M	F	M	F	M	F	M	F	M	F
Under 10 Years	2	0	0	1	1	1	1	0	0	0
10-19	4	1	1	0	1	0	0	0	0	1
20-29	1	2	5	1	2	1	1	1	2	1
30-39	8	0	2	0	1	0	8	0	4	0
40-49	11	1	9	7	8	3	8	2	5	2
50-59	21	8	14	1	12	4	17	4	10	3
60-69	26	4	16	4	13	5	20	3	11	4
70-79	7	2	5	5	6	3	5	3	9	1
80-89	5	3	3	6	2	2	4	2	0	2
Over 89 Years	0	1	0	0	1	0	2	1	2	1
Total	85	22	55	25	47	19	66	16	43	15

FIRE DEATHS* BY BUILDING TYPE

	2009	2010	2011	2012	2013
Residential Building	89	61	50	72	50
Detached houses	59	15	19	21	19
Attached houses	11	6	3	8	7
Blocks of flats	19	15	19	21	22
Free-time Residence	3	6	5	1	0
Institutional and Healthcare Building	1	0	1	0	1
Other Building	3	5	2	1	2

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

SMOKE ALARM ACTIVATION IN FATAL FIRES*

	2009	2010	2011	2012	2013
Smoke Alarm Activated	12	12	11	11	13
Smoke Alarm Did Not Activate	8	2	1	4	2
Smoke Alarm Activation Unknown	23	9	6	9	7
No Smoke Alarm	15	13	11	26	18

TOTAL PROPERTY DAMAGES** FROM FIRES

	2009	2010	2011	2012	2013
Burnt Floor Area in Residential Building Fires (m ²)	82 674	88 347	71 934	84 976	73 592
Damage to Building and Furnishings in Building Fires	131	162	131	123	120
Property in Danger in Building Fires (MEUR)	2 927	6 800	2 970	5 452	4 104
Burnt Land Area (ha)	1 004	919	909	219	743
Burnt Forest Area (ha)	576	519	589	89	469
Vehicle Fire (MEUR)	18	25	20	25	20
Other Fire (MEUR)	7	6	6	9	26

AVERAGE PROPERTY DAMAGES** FROM FIRES

	2009	2010	2011	2012	2013
Burnt Floor Area in Residential Building Fires (m ²)	23	25	22	25	23
Damage to Building and Furnishings in Building Fires	20 828	25 528	21 492	20 533	20 705
Burnt Land Area (ha)	0,35	0,30	0,32	0,21	0,26
Burnt Forest Area (ha)	0,46	0,37	0,47	0,20	0,31
Vehicle Fire (€)	7 168	9 923	8 008	10 681	8 310
Other Fire (€)	1 869	1 793	1 808	3 565	9 965

*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 RESPONSE TIMES

MEDIAN OF THE RESPONSE TIME OF FIRST UNIT*

	2009	2010	2011	2012	2013
Risk class I	5:02	5:06	5:09	5:21	5:23
Risk class II	6:01	6:11	6:13	6:22	6:30
Risk class III	7:19	7:28	7:36	7:46	7:44
Risk class IV	11:29	11:42	11:47	11:51	12:16

*Urgent assignments excluding medical assignments.

MEDIAN OF THE RESPONSE TIME

	2013
Risk class I	10:34
Risk class II	13:17
Risk class III	12:44
Risk class IV	18:29

RISK SQUARES** WHERE THE RESPONSE TIME IS NOT ACHIEVED

	2013
Risk class I (11 min)	115
Risk class II (14 min)	15
Risk class III (22 min)	0
Risk class IV (40 min)	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
Helsinki	13:02
Länsi-Uusimaa	13:41
Keski-Uusimaa	13:31
Itä-Uusimaa	14:06
Varsinais-Suomi	14:11
Kanta-Häme	14:38
Päijät-Häme	14:05
Kymenlaakso	14:10
South Karelia	15:33
Etelä-Savo	17:43
Central Finland	15:16
Pirkanmaa	14:44
Satakunta	14:02
South Ostrobothnia	14:00
Ostrobothnia	14:45
Central Ostrobothnia	12:58
Pohjois-Savo	16:14
North Karelia	17:28
Jokilaaksot	15:48
Kainuu	18:42
Oulu-Koillismaa	14:18
Lapland	18:12
Total	14:46

