

**FINNISH RESCUE SERVICES'
POCKET STATISTICS 2008-2012**

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1 INTRODUCTION

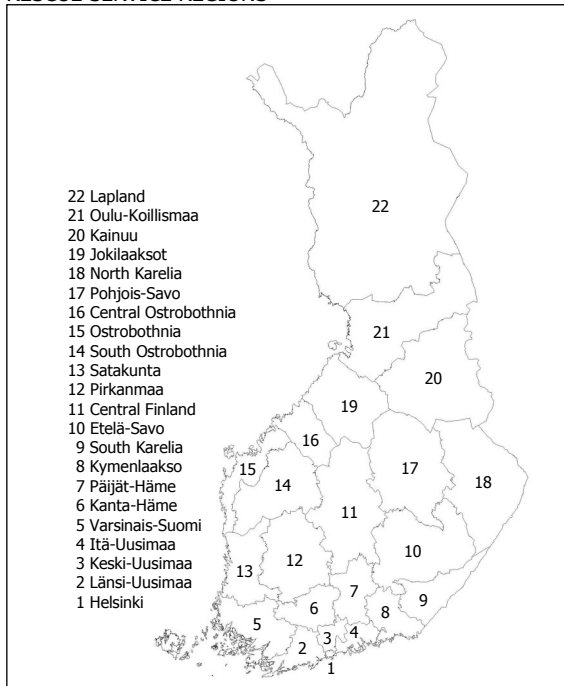
In Finland, the responsibility for the functions of rescue services is divided between 22 rescue service regions. The rescue services on the Åland Islands are regulated by regional legislation. The functions of rescue service regions include accident prevention, rescue operations and civil defence, etc.

The pocket statistics is based on the data in the rescue services resource and accident statistics program (PRONTO) from 2008–2012, 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



POPULATION SHARE OF RESCUE SERVICE REGIONS BY RISK AREA AND SURFACE AREA IN 2012

	Population 31.12.2011	Risk Area (%)				Surface Area (km ²)	Land Area (km ²)
		I	II	III	IV		
Helsinki	595 384	81	11	2	7	716	213
Länsi-Uusimaa	433 668	32	44	13	11	7 855	4 242
Keski-Uusimaa	425 312	38	47	11	5	1 986	1 940
Itä-Uusimaa	94 694	13	32	28	27	5 537	2 736
Varsinais-Suomi	467 217	34	35	21	10	20 539	10 663
Kanta-Häme	175 230	17	41	21	21	5 706	5 200
Päijät-Häme	202 236	30	41	13	17	6 256	5 124
Kymenlaakso	181 829	17	46	21	16	7 417	5 113
South Karelia	133 311	22	38	22	18	7 236	5 615
Etelä-Savo	153 738	9	54	16	21	18 768	13 984
Central Finland	274 379	15	41	17	28	19 952	16 706
Pirkanmaa	491 472	24	45	15	16	14 471	12 444
Satakunta	226 567	11	46	23	21	11 636	7 957
South Ostrobothnia	193 735	2	37	28	33	14 001	13 445
Ostrobothnia	147 881	23	30	37	10	17 411	6 804
Central Ostrobothnia	99 709	13	38	26	23	9 116	6 215
Pohjois-Savo	248 130	20	36	14	30	20 368	16 771
North Karelia	165 906	12	40	19	29	21 584	17 764
Jokilaaksot	124 075	6	35	41	18	17 259	13 499
Kainuu	81 298	1	34	24	41	24 453	21 503
Oulu-Koillismaa	273 812	16	49	16	19	26 180	21 739
Lapland	183 330	2	18	20	59	100 368	92 663
Total	5 372 913	20	38	20	22	361 404	302 340

RESCUE SERVICES' FINANCIAL INFORMATION 2012 (€/Inhabitant)

	Contributions of municipalities excluding rent and depreciation costs	Investments	Expenditure excluding depreciation costs	Revenue excluding contributions of municipalities
Helsinki	56,2	0,8	88,7	8,3
Länsi-Uusimaa	53,3	4,2	76,8	5,4
Keski-Uusimaa	45,5	3,5	78,9	3,1
Itä-Uusimaa	80,2	18,7	140,7	18,1
Varsinais-Suomi	53	4,2	87,5	9,3
Kanta-Häme	46,9	3,7	106,3	28,1
Päijät-Häme	63,2	6,5	101,8	23,6
Kymenlaakso	65,2	9,3	105,6	12,3
South Karelia	59,2	7	76,1	5,4
Etelä-Savo	64,6	8,6	112,7	19,7
Central Finland	57,1	6,7	102,3	18,7
Pirkanmaa	56,8	3,4	82,9	11,8
Satakunta	69,2	10,1	121,4	28,7
South Ostrobothnia	66,8	5,2	84,3	3,2
Ostrobothnia	61,4	9,2	101	24,9
Central Ostrobothnia	65,6	7	88	21,5
Pohjois-Savo	54,5	5,7	87,4	13
North Karelia	55,1	7,9	122,1	34,7
Jokilaaksot	76,4	7,5	104,3	16,1
Kainuu	75,1	0	87,6	2,5
Oulu-Koillismaa	49,4	3,6	71,1	7,7
Lapland	67,4	4,4	83,4	3,8

RESCUE SERVICES' FINANCIAL INFORMATION (MEUR)

	2008	2009	2010	2011	2012
Revenue	85	87	104	110	95
Expenditure	407	432	443	465	474
Personnel Costs	279	293	301	315	332
Net Expenditure	321	344	339	355	379
Investments	19	18	21	14	15

RESCUE SERVICE VEHICLES

	2012
Fire Engine	1069
Lightweight Fire Truck	31
Water Tender	525
Ladder Unit or Hydraulic Platform Truck	86
Heavy Rescue Unit	43
Gear Truck	78
Foam Tender or Dry Powder Appliance	54
Damage Control Tender	25
Hazardous Materials Unit	10
Incident Command or Control Unit	239
Personnel Carrier	719
Rescue Diving Appliance	27
Other Rescue Service Vehicle	77
Snowmobile	203
ATV (all-terrain vehicle) or Track Vehicle	241
Boat	693
Other Vessel	101
EMS vehicle*	692
Other Vehicle	142
Trailer	80
Container	85

* EMS Vehicles of Fire Departments.

NUMBER OF FIRE STATIONS

	2012
Fire Stations within Rescue Service Region	366
Contract Fire Brigades	530
Industrial and Institutional Fire Brigades	106

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*	4661
Administrative and Support Services*	421
Rescue Function*	2592
Safety Services*	247
Emergency Medical Services*	739
Relating to temporary staff of Rescue Departments*	743
Contract Fire Brigade Personnel*	16 833

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

³Regional State Administrative Agencies, Department of Rescue

*Keski-Uusimaa, and Varsinais-Suomi information is missing.

PERSONNEL OF RESCUE DEPARTMENTS (31.12.2012)

	Full-time	Rescue Function	Temporary	Contract Personnel	Contract Personnel, Rescue Function
Helsinki	694	479	9	0	0
Länsi-Uusimaa	409	319	0	0	0
Keski-Uusimaa	-	-	-	-	-
Itä-Uusimaa	145	77	36	1 320	793
Varsinais-Suomi	-	-	-	-	-
Kanta-Häme	244	142	0	89	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	135	1 929	966
Satakunta	270	195	0	1 190	636
South Ostrobothnia	107	95	18	1 472	830
Ostrobothnia	150	88	22	1 025	813
Central Ostrobothnia	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	1699	1280

Keski-Uusimaa and Varsinais-Suomi information is missing.

3 ACCIDENT PREVENTION

SAFETY EDUCATION

	2008	2009	2010	2011	2012
Events	12 997	12 749	12 337	12 180	12 126
Participants	1 051 715	854 442	801 100	808 252	897 009
Share of Population(%)	20	16	15	15	17

SAFETY EDUCATION EVENTS BY TYPE OF IMPLEMENTATION

	2008	2009	2010	2011	2012
Safety Information Campaigns	-	-	1 093	1 014	676
Fairs or other public events	-	-	1 622	1 579	1 388
Safety Training	-	-	9 570	9 513	8 305
Safety Advicing	-	-	-	14	1 716
Safety Information through media	-	-	53	60	41

SAFETY EDUCATION EVENTS BY TARGET GROUP

	2008	2009	2010	2011	2012
People	7 160	7 218	7 362	7 575	7 301
Children and the Young	5 347	5 046	4 966	5 056	5 041
Civil Servants and Trustees	150	201	190	331	265
Companies and Institutions	4 850	4 538	4 022	3 762	3 818
Personnel in Care Institution	-	-	1 651	1 760	1 883
Personnel in Companies, Commercial Enterprises and Industrial Establishments	-	-	1 342	1 178	1 935
Civil Defence Organisations	118	115	90	70	42
Other Target Group	873	875	859	772	627

FIRE INSPECTIONS

	2012
Total Number of Buildings	103 222
A1, Buildings in use 24/7	8 404
A2, Teaching and Day Care	4 360
A3, Assembly and business premises	6 049
A4, Production and storage premises	6 076
A5, Agricultural Facilities	2 720
A6, Other Annually Inspected	3 599
Residential Buildings	48 013
Free-time Residences	5 366
Total Number of Inspections	84 587
Inspection-%	83

DOCUMENT AUDITING

	2012
Self-Inspection Checklists	21 632
Returning-%	74
Rescue Plans	2 642
Rescue Plans for Events	1 409
Documents of Technical Fire Safety Installations	3 412
Other Document Auditing	1 976
Total	31 071

4 RESCUE OPERATIONS

RESCUE OPERATIONS BY TYPE

	2008	2009	2010	2011	2012
Fires	14 644	14 994	14 992	14 737	11 803
Building Fire	4 485	6 233	6 267	6 013	5 906
Risk of Building Fire	-	3 497	3 481	3 470	3 493
Vehicle Fire	2 379	2 400	2 438	2 478	2 277
Wildfire	3 161	2 746	2 997	2 770	1 011
Other Fire	4 619	3 615	3 290	3 476	2 609
Other Accidents	18 531	18 108	19 239	16 604	16 933
Traffic Accident	13 401	13 249	13 472	13 630	14 163
Oil Spill	2 504	2 625	2 286	2 532	2 371
Hazardous Material Accident	277	278	299	317	319
Natural Hazard	2 308	1 816	2 998	-	-
Explosion, Risk of Explosion	25	29	27	26	31
Collapse, Risk of Collapse	16	11	157	99	49
Other Operations	68 308	68 333	76 156	83 816	72 926
Fire Alarm System or Smoke Alarm Check or Inspection	21 889	21 545	25 294	23 762	22 701
Other Check or Inspection	8 370	7 916	8 895	9 117	7 873
First Response	25 579	26 528	27 044	28 599	26 774
Human Rescue	2 150	2 275	2 429	2 223	2 193
Animal Rescue	2 051	2 422	2 161	2 019	1 859
Loss Prevention	4 600	3 755	5 853	13 502	7 025
Assistance	3 073	3 097	3 235	3 351	3 421
Executive Assistance	596	795	1 245	1 243	1 080
Total	101 483	101 435	110 387	115 157	101 662

RESCUE OPERATIONS BY RESCUE SERVICE REGION

	2008	2009	2010	2011	2012
Helsinki	8 568	8 000	9 322	9 470	8 171
Länsi-Uusimaa	7 709	6 608	6 976	8 013	6 497
Keski-Uusimaa	7 351	6 910	7 784	7 381	6 521
Itä-Uusimaa	2 265	2 242	2 207	2 087	1 900
Varsinais-Suomi	8 546	8 319	8 786	10 302	8 140
Kanta-Häme	3 212	3 177	3 606	4 115	3 831
Päijät-Häme	3 852	3 924	4 398	4 400	4 328
Kymenlaakso	3 921	3 687	4 164	4 346	3 911
South Karelia	2 698	2 607	3 106	2 968	2 897
Etelä-Savo	3 699	3 625	3 902	4 001	3 673
Central Finland	5 495	5 526	5 778	6 244	5 383
Pirkanmaa	9 330	9 548	10 638	11 378	11 619
Satakunta	4 871	5 076	5 653	6 415	4 904
South Ostrobothnia	4 405	4 903	5 351	5 829	5 131
Ostrobothnia	2 887	2 744	3 036	2 984	2 819
Central Ostrobothnia	2 221	2 346	2 628	2 395	2 340
Pohjois-Savo	4 891	5 232	5 596	5 504	4 547
North Karelia	3 538	3 994	4 118	4 221	3 732
Jokilaaksot	2 638	2 814	3 189	2 808	2 160
Kainuu	1 692	1 429	1 592	1 496	1 277
Oulu-Koillismaa	3 647	4 235	4 234	4 444	3 784
Lapland	4 049	4 493	4 327	4 364	4 097
Cooperations	1 150	1 071	1 281	1 341	893

SHARE OF RESCUE OPERATIONS BY RISK AREA (%)

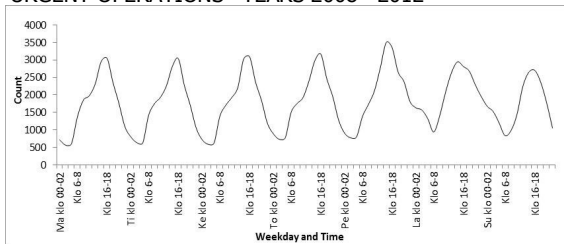
	2008	2009	2010	2011	2012
Risk Area I	25	25	24	22	23
Risk Area II	27	27	27	27	27
Risk Area III	16	16	16	17	17
Risk Area IV	33	33	32	34	33

URGENT OPERATIONS* BY MONTH

	2008	2009	2010	2011	2012
January	2 327	2 546	2 404	2 385	2 668
February	2 027	1 974	2 227	2 233	2 363
March	2 048	1 908	2 059	2 043	1 804
April	2 412	2 475	2 104	2 268	1 803
May	3 790	3 441	2 970	3 179	2 603
June	3 400	3 161	2 982	3 451	2 687
July	2 837	2 908	3 728	3 336	2 732
August	2 516	2 823	3 092	2 768	2 576
September	2 303	2 412	2 293	2 184	2 167
October	2 204	2 523	2 440	2 194	2 226
November	2 235	2 046	2 365	2 194	2 163
December	2 414	2 719	2 712	2 797	2 766

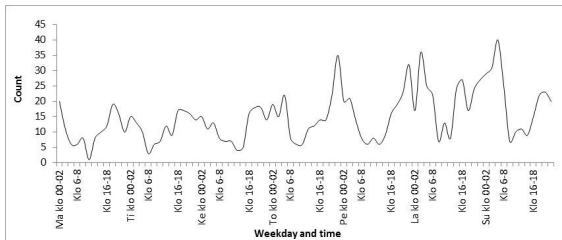
*Urgent Operations = Fires, Traffic Accident, Hazardous Material Accident, Explosion or Risk of Explosion, Collapse or Risk of Collapse and Human Rescue.

URGENT OPERATIONS* YEARS 2008—2012



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

BUILDING FIRES INCL. HUMAN RESCUE YEARS 2008—2012



BUILDING FIRES BY BUILDING TYPE

	2008	2009	2010	2011	2012
Residential Building	2 240	3 415	3 362	3 129	3 132
Detached houses	1 140	1 577	1 638	1 408	1 466
Attached houses	204	393	335	321	338
Blocks of flats	896	1 446	1 389	1 400	1 328
Free-time Residence	174	201	202	169	194
Commercial Building	199	380	360	378	338
Office Building	63	74	87	90	120
Transport, Communications Building	50	73	78	79	76
Institutional and Healthcare Building	106	233	247	210	230
Assembly Building	68	86	90	79	84
Educational Building	60	119	108	109	104
Industrial Building	503	591	638	585	597
Warehouse	242	236	242	241	195
Building for Fire Services	3	1	2	0	5
Agricultural Building	179	194	227	212	196
Other Building	622	655	650	646	635
Sauna	288	331	297	287	252
Total	4 509	6 258	6 293	5 927	5 906

CAUSE OF BUILDING FIRE

	2008	2009	2010	2011	2012
Human Activity	2 222	3 323	3 003	2 903	2 870
Machine or Device Failure	977	1 524	1 697	1 646	1 744
Natural Phenomena	108	123	203	252	120
Flammable Substance	47	90	92	84	97
Animal	13	27	31	42	33
Other Cause	632	681	711	558	571
Cause Unknown	512	532	597	513	472

BUILDING FIRE CAUSE OF IGNITION

	2008	2009	2010	2011	2012
Cooking	-	1 162	1 055	1 070	972
Deliberate	-	260	275	290	313
Open Fire	997	1 029	862	816	749
Juvenile Fire Setting	-	77	56	57	47
Hot Work	110	152	154	152	148
Match, Other Firemaking Device	458	276	172	180	138
Cigarette, Other Tobacco Product	253	308	268	220	240
Firework, Pyrotechnic Products	30	43	19	23	6
Candle, Outdoor Candle	71	98	116	98	119
Machine, Device, Process	1 159	1 538	1 683	1 647	1 671
Electrical Device	640	595	690	680	746
Hot Object, Ash, Spark	251	231	222	222	314
Fireplace, Flue	674	879	898	719	792
Chimney Fire	287	384	405	302	311
Frictional Heat, Spontaneous Ignition, Explosion	95	133	119	114	136
Natural Phenomena	96	98	189	232	100
Other Known Cause	669	410	427	355	361
Cause Unknown	570	560	603	518	498

INTENTIONALITY OF BUILDING FIRE

	2008	2009	2010	2011	2012
Intentional	469	550	415	472	445
Negligence, Carelessness	674	1 283	1 220	1 173	1 226
Accidental	848	1 295	1 205	1 111	1 063
Unknown	231	195	163	146	137
Total	2 222	3 323	3 003	2 902	2 871

USE OF FIRST EXTINGUISHING IN BUILDING FIRES

	2008	2009	2010	2011	2012
Used	1 693	2 135	2 128	2 078	2 004
Not Used	2 301	3 568	3 587	3 400	3 431
Unknown	517	596	618	515	471

EFFECT OF FIRST EXTINGUISHING IN BUILDING FIRES

	2008	2009	2010	2011	2012
Extinguished Fire	850	1 241	1 185	1 161	1 191
Limited Fire	622	654	671	656	586
No Effect	217	236	267	254	222
Extinguisher Did Not Work	4	4	5	7	5

SMOKE ALARM ACTIVATION IN RESIDENTIAL BUILDING FIRES

	2008	2009	2010	2011	2012
Smoke Alarm Activated	677	1 069	1 187	1 112	1 111
Smoke Alarm Did Not Activate	259	483	464	372	477
Smoke Alarm Activation Unknown	509	571	464	457	417
No Smoke Alarm	969	1 081	1 004	948	1 047

WILDFIRES

	2008	2009	2010	2011	2012
Forest Fire	1 456	1 242	1 412	1 262	440
Other Wildfire	1 784	1 599	1 688	1 609	631
Total	3 240	2 841	3 100	2 871	1 071

CAUSE OF WILDIRE

	2008	2009	2010	2011	2012
Human Activity	2 207	1 989	1 951	1 717	724
Natural Phenomena	155	216	428	405	99
Machine or Device Failure	73	86	120	82	26
Animal	21	18	24	20	3
Flammable Substance	6	13	9	16	3
Other Cause	123	139	180	182	71
Cause Unknown	655	380	387	390	145

WILDFIRE CAUSE OF IGNITION

	2008	2009	2010	2011	2012
Open Fire	2 054	1 749	1 591	1 471	556
Juvenile Fire Setting	-	147	131	114	53
Campfire, Grill	531	391	425	348	147
Rubbish Burning	324	360	353	326	121
Match, Other Firemaking Device	581	340	202	240	72
Cigarette, Other Tobacco Product	354	287	268	267	79
Prescribed Burning	213	164	169	147	61
Natural Phenomena	136	145	383	324	59
Lightning	97	75	328	279	34
Machine, Device, Process	162	132	162	166	42
Electrical Device	84	26	31	21	9
Hot Object, Ash, Spark	121	123	127	136	54
Fireplace, Flue	13	14	12	21	4
Frictional Heat, Spontaneous Ignition, Explosion	53	94	107	135	71
Deliberate	-	39	117	73	67
Other Known Cause	95	151	198	152	60
Cause Unknown	605	394	402	372	162

INTENTIONALITY OF WILDFIRE

	2008	2009	2010	2011	2012
Intentional	433	368	319	278	177
Negligence, Carelessness	873	822	794	755	269
Accidental	507	506	555	449	179
Unknown	394	293	283	235	99
Total	2 207	1 989	1 951	1 717	724

VEHICLE FIRES BY VEHICLE TYPE

	2008	2009	2010	2011	2012
Road Vehicle	2 365	2 398	2 400	2 375	2 146
All Terrain Vehicle	-	-	-	-	42
Water Vehicle	39	34	40	38	38
Rail Vehicle	10	9	13	11	13
Air Vehicle	2	2	1	4	1
Other Vehicle	25	25	43	33	36
Total	2 441	2 468	2 497	2 461	2 276

CAUSE OF VEHICLE FIRE

	2008	2009	2010	2011	2012
Machine or Device Failure	1 299	1 318	1 433	1 476	1 377
Human Activity	546	563	439	426	435
Flammable Substance	17	28	35	30	24
Natural Phenomena	5	6	7	7	1
Animal	0	2	0	3	1
Other Cause	130	147	153	121	82
Cause Unknown	444	404	430	401	364

INTENTIONALITY OF VEHICLE FIRES

	2008	2009	2010	2011	2012
Intentional	375	411	300	310	305
Negligence, Carelessness	48	53	45	44	46
Accidental	68	69	65	47	60
Unknown	55	30	29	25	24
Total	546	563	439	426	435

ROAD VEHICLE FIRES

	2008	2009	2010	2011	2012
Passenger Car	1 456	1 513	1 470	1 398	1 367
Van	165	163	176	159	146
Lorry, Truck	263	210	261	298	244
Engine-powered Work Vehicle	112	109	129	148	66
Tractor	93	119	109	86	85
Bus	76	77	56	68	64
Motor Caravan, Caravan	51	42	48	56	29
Moped	77	79	63	72	57
Moped car	-	-	-	-	17
Off-road Vehicle	25	35	34	31	42
Trailer	18	17	20	22	13
Motorcycle	16	19	17	19	16
Other Road Vehicle	13	15	17	23	25

CAUSE OF OTHER FIRE

	2008	2009	2010	2011	2012
Human Activity	3 345	2 570	2 187	2 179	1 722
Machine or Device Failure	476	321	322	321	308
Natural Phenomena	125	106	167	227	107
Flammable Substance	34	15	26	25	17
Animal	14	22	7	7	12
Other Cause	293	280	324	308	201
Cause Unknown	382	334	298	318	242
Total	4 669	3 648	3 331	3 384	2 609

OTHER FIRE CAUSE OF IGNITION

	2008	2009	2010	2011	2012
Open Fire	2 786	1 916	1 253	1 273	809
Juvenile Fire Setting	-	125	65	89	69
Campfire, Grill	413	204	206	183	116
Rubbish Burning	187	250	241	214	173
Match, Other Firemaking Device	1 517	893	393	407	212
Cigarette, Other Tobacco Product	334	284	217	265	162
Firework, Pyrotechnic Products	238	104	75	68	58
Fireplace, Flue	62	33	32	28	32
Chimney Fire	18	4	4	2	0
Machine, Equipment, Process	548	297	307	288	257
Electrical Device	353	136	136	142	121
Hot Object, Ash, Spark	160	111	132	109	96
Frictional Heat, Spontaneous Ignition, Explosion	141	117	130	166	111
Natural Phenomena	70	57	118	151	67
Deliberate	-	318	612	630	625
Other Known Cause	337	404	384	356	269
Cause Unknown	565	394	363	384	316

INTENTIONALITY OF OTHER FIRE

	2008	2009	2010	2011	2012
Intentional	1 904	1 515	1 218	1 260	1 027
Negligence, Carelessness	606	434	419	408	297
Accidental	378	291	288	252	197
Unknown	457	330	262	259	201
Total	3 345	2 570	2 187	2 179	1 722

TRAFFIC ACCIDENTS

	2008	2009	2010	2011	2012
Road Traffic	13 047	12 896	13 095	12 794	13 646
Rail Transport	163	144	126	121	144
Railway Level Crossing	69	56	36	26	77
Waterway Transport	52	80	62	53	76
Air Traffic	21	40	35	30	26
Other Traffic	211	253	193	233	259
Total	13 494	13 413	13 511	13 257	14 163

OIL SPILLS

	2008	2009	2010	2011	2012
Overfill	239	260	191	189	161
Tank Leak	144	117	77	97	90
Other Leak in Storing or Dispensing Device	90	81	80	91	62
Tank Transport	53	48	58	61	53
Road Vehicle	1 228	1 325	1 176	1 329	1 319
Rail Vehicle	9	2	3	3	10
Water Vehicle	66	63	73	73	66
Other Vehicle	286	301	293	318	298
Other Machine or Device	115	126	133	154	145
Treatment of Waste Oil or Used Oil	36	58	50	32	43
Unknown Oil Spill in Water Body or Sewer	56	83	101	102	96
Other Cause or Accident	428	425	275	290	285
Total	2 750	2 889	2 510	2 739	2 628

HAZARDOUS MATERIAL ACCIDENT SITE

	2008	2009	2010	2011	2012
Industrial Plant	45	56	55	51	59
Warehouse, Warehouse Area	48	39	40	47	34
Street, Other Urban Area	46	50	58	52	75
Highway	24	12	23	38	20
Shop, Petrol Outlet	36	43	32	39	42
Public Building	13	16	23	15	20
Accommodation or Restaurant Premises	15	8	10	2	7
Residential Building	10	14	16	25	16
Other Building	12	16	17	19	10
Port, Water Body	10	9	14	11	7
Yard, Railway	14	7	5	3	3
Other Site	20	23	28	24	26
Total	293	293	321	326	319

ADR CLASSIFICATION OF HAZARDOUS MATERIAL ACCIDENTS

	2008	2009	2010	2011	2012
Explosives	1	0	0	0	3
Gases	95	76	78	62	63
Flammable Liquids	116	93	99	115	118
Flammable Solids	5	1	10	5	0
Oxidising Substances, Organic Peroxides	7	10	13	12	6
Toxic and Infectious Substances	12	12	3	10	9
Radioactive Substances	0	0	0	1	0
Corrosive Substances	53	49	46	55	51
Other Hazardous Material or Goods	14	5	8	12	3

CAUSE OF LOSS PREVENTION OPERATIONS*

	2008	2009	2010	2011	2012
Natural Phenomena	4 542	3 133	5 823	10 821	4 835
Wind, Storm	2 133	1 615	2 678	9 317	2 920
Flood, Rain Water	-	-	-	896	1 039
Snow, Ice	-	-	-	378	677
Frost	-	-	-	77	124
Defect or Malfunction in a Machine, Device	797	857	1 434	1 119	1 110
Defect or Malfunction of Mains	434	557	977	605	638
Defect or Malfunction of Vehicle	-	-	-	306	271
Human Activity	596	655	607	773	689
Animal	-	-	-	33	25
Other Cause	1 054	935	998	426	344
Total	6 989	5 580	8 862	13 172	7 025

*Includes incidents recorded as natural hazards in years 2008—2010.

CAUSE OF ASSISTANCE OPERATIONS

	2008	2009	2010	2011	2012
Assistance of EMS	-	-	-	1 918	2 213
Human Activity	-	-	-	424	386
Defect or Malfunction in a Machine, Device	-	-	-	353	259
Defect or Malfunction of Vehicle	-	-	-	238	168
Defect or Malfunction of Mains	-	-	-	36	17
Defect or Malfunction of Grid	-	-	-	18	5
Natural Phenomena	-	-	-	187	167
Wind, Storm	-	-	-	69	48
Flood, Rain Water	-	-	-	34	62
Snow, Ice	-	-	-	67	36
Animal	-	-	-	59	56
Other Cause	-	-	-	378	313

HUMAN RESCUE OPERATIONS

	2008	2009	2010	2011	2012
Water Rescue	450	383	407	385	346
Rescue from Trap, Shaft, Collapse, Well	57	49	61	64	54
Rescue from Other Dangerous Place or Situation	262	259	269	259	252
Rescue from Place or Situation With No Immediate Danger	419	427	508	407	459
Rescue from Terrain	283	290	314	284	313
Lift Rescue	426	661	691	596	599
Other Rescue Operation	253	206	177	166	167

ANIMAL RESCUE OPERATIONS

	2008	2009	2010	2011	2012
Water Rescue	163	198	111	106	175
Rescue from Trap, Shaft, Collapse, Well	207	253	222	208	231
Rescue from Other Dangerous Place or Situation	324	405	249	186	221
Rescue from Place or Situation With No Immediate Danger	761	914	896	861	781
Rescue from Terrain	62	119	116	72	94
Lift Rescue	5	10	6	1	2
Other Rescue Operation	529	522	559	475	354

FIRE ALARM SYSTEM OR SMOKE ALARM CHECK AND INSPECTION OPERATIONS

	2008	2009	2010	2011	2012
Automatic Fire Alarm System Check or Inspection	20 056	19 374	22 306	21 382	20 076
Smoke Alarm Check or Inspection	1 833	2 171	2 988	2 380	2 625

CAUSE FOR AUTOMATIC FIRE ALARM

	2008	2009	2010	2011	2012
Negligence in Property Repair, Installation or Maintenance Work	2 530	2 217	2 393	2 439	2 164
Exhaust Gas	186	178	206	194	204
Smoking	327	306	275	285	198
Cooking	3 042	2 970	3 147	3 378	3 510
Other Smoke or Dust	3 069	2 802	2 965	2 700	2 346
Temporary High Temperature	363	358	460	423	312
Fire	205	206	208	259	80
Moisture or Water	1 808	1 786	2 331	2 126	1 941
Sensor Failure in Fire Alarm or Fixed Fire Extinguishing System	611	649	684	612	616
Sprinkler System Failure	983	952	1 151	1 058	1 080
Other System Failure	408	462	502	464	478
Overvoltage	197	189	310	355	202
Impact on Sensor	274	236	299	286	301
Error or Misuse	596	605	726	651	719
Malicious Use	447	479	446	441	462
Other Cause or Cause Unknown	5 153	5 090	6 421	5 591	5 217

OTHER CHECK OR INSPECTION OPERATIONS

	2008	2009	2010	2011	2012
Smoke Observation	3 830	3 369	3 812	3 789	3 279
Oil Observation	539	564	553	545	462
Gas Observation	121	150	164	133	147
Chemical Observation	72	103	106	115	104
Carbon Monoxide Alarm Check	-	-	-	-	35
Blind Call	471	470	529	502	475
False Call	159	143	156	144	106
Risk of Air Crash	116	86	128	90	81
Other Cause	3 062	3 029	3437	3 505	3 218

5 ACCIDENT DAMAGES

DEATHS

	2008	2009	2010	2011	2012
Building Fire	111	98	75	56	77
Wildfire	0	1	1	0	0
Vehicle Fire	4	7	5	4	4
Other Fire	3	3	1	4	4
Traffic Accident	323	270	286	277	244
Oil Spill	0	0	0	0	1
Hazardous Material Accident	1	0	0	0	1
Natural Hazard	0	0	0	-	-
Explosion, Risk of Explosion	1	0	2	0	0
Collapse, Risk of Collapse	0	1	0	0	0
Fire Alarm System or Smoke Alarm Check or Inspection	0	0	1	1	1
Other Check or Inspection	5	8	9	3	4
Human Rescue	128	124	150	138	125
Animal Rescue	0	0	0	0	0
Loss Prevention	0	0	1	2	1
Assistance	53	41	58	42	73
Executive Assistance	56	59	47	48	51
Total	685	612	641	588	586

INJURED

	2008	2009	2010	2011	2012
Building Fire	491	659	570	457	529
Wildfire	4	4	6	10	6
Vehicle Fire	122	25	29	23	32
Other Fire	44	10	13	15	13
Traffic Accident	9 612	8 878	8 032	8 078	10 100
Oil Spill	8	12	9	7	12
Hazardous Material Accident	40	10	27	24	76
Natural Hazard	2	4	46	-	-
Explosion, Risk of Explosion	3	10	11	10	16
Collapse, Risk of Collapse	0	1	11	3	5
Fire Alarm System or Smoke Alarm Check or Inspection	26	15	6	20	20
Other Check or Inspection	68	35	41	49	40
Human Rescue	528	423	402	407	502
Animal Rescue	0	5	3	1	7
Loss Prevention	30	16	22	25	25
Assistance	181	145	163	168	382
Executive Assistance	39	32	62	56	100
Total	11 198	10 284	9 473	9 383	11 865

FIRE DEATHS

	2008	2009	2010	2011	2012
Fire Deaths	106	105	80	62	79
Accidental Cause of Fire	95	90	74	50	71
Non-accidental Cause of Fire	11	15	6	12	8
Deaths per Million Inhabitants	20	20	15	11	15

FIRE DEATHS BY AGE* AND SEX

Age	2009		2010		2011		2012	
	M	F	M	F	M	F	M	F
Under 7 Years	2	0	0	1	1	1	1	0
7-14	0	0	0	0	0	0	0	0
15-17	4	1	0	0	0	0	0	0
18-24	1	1	0	1	1	1	0	0
25-64	56	10	36	12	25	10	39	9
65-74	10	5	10	3	9	3	10	2
Over 74 Years	9	3	4	7	6	4	9	4
Age Unknown	2	0	3	3	1	0	4	1
Total	84	21	53	27	43	19	63	16

* Age classification changed since 2009.

FIRE DEATHS BY BUILDING TYPE

	2008	2009	2010	2011	2012
Residential Building	90	90	63	50	71
Detached houses	53	60	39	28	41
Attached houses	9	11	6	3	8
Blocks of flats	28	19	18	19	22
Free-time Residence	3	3	6	5	1
Institutional and Healthcare Building	1	1	0	1	0
Other Building	5	3	3	2	2

SHARE OF SMOKE ALARM ACTIVATION IN FATAL FIRES (%)

	2008	2009	2010	2011	2012
Smoke Alarm Activated	27	18	35	20	23
Smoke Alarm Did Not Activate	8	14	5	11	11
Smoke Alarm Activation Unknown	19	41	24	42	17
No Smoke Alarm	46	27	35	27	49

TOTAL PROPERTY DAMAGES* FROM FIRES

	2008	2009	2010	2011	2012
Burnt Floor Area in Residential Building Fires (m ²)	83 681	82 674	88 347	71 934	84 301
Damage to Building and Furnishings in Building Fires (MEUR)	188**	131	162	131	115
Property in Danger in Building Fires (MEUR)	17 027**	2 927	6 800	2 970	5 417
Burnt Land Area (ha)	1 188	1 004	919	909	216
Burnt Forest Area (ha)	830	576	519	589	86
Vehicle Fire (MEUR)	16	18	25	20	23
Other Fire (MEUR)	19	7	6	6	7

AVERAGE PROPERTY DAMAGES* FROM FIRES

	2008	2009	2010	2011	2012
Burnt Floor Area in Residential Building Fires (m ²)	36	23	25	22	25
Damage to Building and Furnishings in Building Fires (€)	41 886**	20 828	25 528	21 492	19 389
Burnt Land Area (ha)	0,37	0,35	0,30	0,32	0,21
Burnt Forest Area (ha)	0,57	0,46	0,37	0,47	0,21
Vehicle Fire (€)	6 633	7 168	9 923	8 008	10 186
Other Fire (€)	4 072	1 869	1 793	1 808	2 785

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

**Since 2009 calculation method sharpened.

6 PREPAREDNESS

AVERAGE RESPONSE TIME (IN MINUTES) OF FIRE BRIGADE WITH STRENGTH OF PERSONNEL 1+3 IN URGENT OPERATIONS*

	2008	2009	2010	2011	2012
Risk Area I	6:25	5:59	5:58	5:55	6:01
Risk Area II	7:08	6:59	7:06	7:07	7:21
Risk Area III	9:27	9:00	9:19	9:18	9:28
Risk Area IV	14:18	14:14	14:34	14:34	14:04

SHARE OF REACHED TARGETS IN REQUIRED RESPONSE TIME WITH STRENGTH OF PERSONNEL 1+3 IN URGENT OPERATIONS* (%)

	2008	2009	2010	2011	2012
Risk Area I (6 min)	59	62	62	62	62
Risk Area II (10 min)	87	88	87	87	86
Risk Area III (20 min)	96	98	97	97	97
Risk Area IV (No Response Time Set)					

ADEQUACY OF RESOURCES AT THE BEGINNING OF OPERATION*

	2008	2009	2010	2011	2012
Insufficient Personnel	-	560	575	500	495
Insufficient Equipment	-	137	147	132	127
Insufficient Personnel and Equipment	-	290	331	272	247
Sufficient Resources	-	24 087	24 607	24 740	22 663
Overestimated Resources	-	1 056	840	754	585

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

AVERAGE STRENGTH OF PERSONNEL AT SITE

	2008	2009	2010	2011	2012
Building Fire	16	12	12	12	11
Wildfire	10	8	8	8	6
Vehicle Fire	7	6	6	6	6
Other Fire	7	6	5	5	6
Traffic Accident	7	6	6	6	6
Hazardous Material Accident	8	8	8	8	7
Explosion, Risk of Explosion	11	9	11	10	10
Collapse, Risk of Collapse	11	8	9	8	7
Human Rescue	7	6	5	5	6
All Alarm Operations	6	5	5	5	5

