

FINNISH RESCUE SERVICES' POCKET STATISTICS 2005–2009

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1 INTRODUCTION

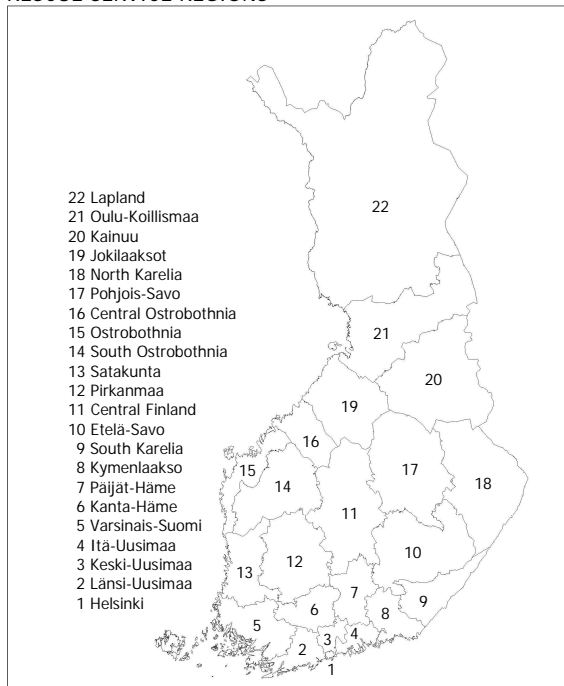
In Finland, the responsibility for the functions of rescue services is divided between 22 rescue service regions. The rescue services on the Åland Islands are regulated by regional legislation. The functions of rescue service regions include accident prevention, rescue operations and civil defence, etc.

The pocket statistics is based on the data in the rescue services resource and accident statistics program (PRONTO) from 2005–2009, 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 2009

	Population 31.12.2008	Risk Area (%)				Surface Area (km ²)	Land Area (km ²)
		I	II	III	IV		
Helsinki	576 632	81	11	2	7	716	213
Länsi-Uusimaa	419 359	32	44	13	11	7 855	4 242
Keski-Uusimaa	412 029	38	47	11	5	1 986	1 940
Itä-Uusimaa	93 491	13	33	28	27	5 537	2 736
Varsinais-Suomi	461 177	34	35	21	10	20 539	10 663
Kanta-Häme	173 041	17	41	21	21	5 706	5 200
Päijät-Häme	200 847	30	41	13	17	6 256	5 124
Kymenlaakso	182 754	32	35	16	17	7 417	5 113
South Karelia	134 448	12	45	21	22	7 236	5 615
Etelä-Savo	156 632	9	53	16	21	18 768	13 984
Central Finland	271 747	15	38	20	26	19 952	16 706
Pirkanmaa	480 705	24	45	15	16	14 471	12 444
Satakunta	227 652	11	46	23	21	11 636	7 957
South Ostrobothnia	193 511	2	37	28	33	14 001	13 445
Ostrobothnia	144 951	23	30	37	10	16 188	6 804
Central Ostrobothnia	102 063	13	37	27	23	9 116	6 215
Pohjois-Savo	248 423	20	36	14	30	20 368	16 771
North Karelia	166 129	12	40	19	29	21 584	17 764
Jokilaaksot	121 905	6	35	41	18	17 259	13 499
Kainuu	83 160	1	34	24	41	24 453	21 503
Oulu-Koillismaa	264 239	21	45	22	12	26 180	21 739
Lapland	183 963	2	18	20	59	100 368	92 663
Total	5 298 858	27	37	17	19	377 592	302 340

RESCUE SERVICE PERSONNEL

	2009
Ministry of the Interior, Department of Rescue ¹	48
Emergency Services College ²	140
State Provincial Offices, Department of Rescue ¹	44
Full-time Employees of Rescue Departments	5 013
Officers (Operational Personnel)	486
Sub-officers (Operational Personnel)	420
Firefighters (Operational Personnel)	2 651
Emergency Medical Services	819
Other Personnel	637
Contract Fire Brigade Personnel ³	15 000

AGE DISTRIBUTION OF FULL-TIME RESCUE SERVICE PERSONNEL (%)

	2005	2006	2007	2008	2009
Under 30 years	10	10	10	12	11
30-39 years	30	30	29	27	29
40-49 years	37	37	37	34	34
50-59 years	22	23	23	26	24
Over 60 years	1	1	1	2	1

NUMBER OF FIRE STATIONS

	2009
Fire Stations within Rescue Service Region	380
Contract Fire Brigades ³	880
Industrial and Institutional Fire Brigades	123

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

³ Federation of Finnish Contract Fire Brigades.

RESCUE SERVICE VEHICLES

	2009
Incident Command Unit	9
Control Unit	284
Rescue Service Vehicle	256
Light Rescue Vehicle or FIV	38
Fire Engine	908
Water Tender	566
Foam Tender or Dry Powder Appliance	54
Heavy Rescue Unit	18
Rescue Diving Appliance	28
Ladder Unit or Hydraulic Platform	85
Personnel Carrier	705
Repair Truck	41
Hazardous Materials Unit	6
Damage Control Tender	28
Gear Truck	79
First Response Vehicle	45
Ambulance*	343
Fire Inspection Vehicle	251
Other Rescue Service Vehicle	82
Off-road Vehicle	311
Boat or Ship	664
Air Cushion Vehicle or Hydrocopter	7
Container	74
Other Vehicle	326

*Ambulances of Fire Departments.

RESCUE SERVICES' FINANCIAL INFORMATION

	2007	2008	2009
Revenue (MEUR)	59*	85	87
Expenditure (MEUR)	385	407	432
Personnel Costs (MEUR)	268	279	293
Net Expenditure (MEUR)	326	321	344
Investments (MEUR)	21	19	18
Net Expenditure (€/Inhabitant)	19	21	22
Investments (€/Inhabitant)	1,2	1,3	1,2

*Does not include costs of upkeep of the ambulance service.

3 ACCIDENT PREVENTION

EDUCATION, ADVICE AND TRAINING

	2005	2006	2007	2008	2009
Events	10 272	10 263	12 004	12 997	12 749
Participants	507 731	690 740	765 691	1 051 715	854 442
Share of Population(%)	10	13	15	20	16

FIRE INSPECTIONS AND OTHER INSPECTIONS

	2005	2006	2007	2008	2009
Annually Inspected	34 004	33 519	34 849	36 935	36 207
Hospitals, Healthcare Buildings	3 203	3 291	3 719	3 792	3 949
Accommodation Facilities and Areas	2 721	2 625	2 867	2 991	2 822
Assembly and Commercial Buildings	15 807	15 545	16 120	17 162	16 782
Large Production, Warehouse and Agricultural Facilities	6 494	6 364	6 353	7 123	6 832
Handling Sites of Flammable Chemicals	1 784	1 832	1 976	2 139	2 010
Premises Equipped with Automatic Fire Alarm System	2 469	2 244	2 237	2 269	2 439
Other Annually Inspected Premises	1 526	1 618	1 577	1 459	1 373
Residential Buildings	95 168	88 309	90 143	85 388	82 247
Other Fire Inspections	12 123	12 235	12 399	13 286	11 219
Other Inspections	29 910	23 555	23 666	30 372	29 252

SHARE OF PERFORMED FIRE INSPECTIONS FROM SCHEDULED INSPECTIONS (%)

	2005	2006	2007	2008	2009
Hospitals, Healthcare Buildings	94	93	98	95	96
Accommodation Facilities and Areas	87	92	94	95	91
Assembly and Commercial Buildings	82	88	87	90	88
Large Production, Warehouse and Agricultural Facilities	85	89	87	94	92
Handling Sites of Flammable Chemicals	93	92	92	96	89
Premises Equipped with Automatic Fire Alarm System	83	89	88	89	88
Other Annually Inspected Premises	95	100	94	88	79
Residential Buildings	62	63	61	60	51

4 RESCUE OPERATIONS

RESCUE OPERATIONS BY TYPE

	2005	2006	2007	2008	2009
Fires	12 977	17 580	14 156	14 644	14 994
Building Fire	3 671	3 998	4 025	4 485	6 233
Risk of Building Fire	-	-	-	-	3 497
Vehicle Fire	2 630	2 725	2 549	2 379	2 400
Wildfire	2 631	6 290	2 813	3 161	2 746
Other Fire	4 045	4 567	4 769	4 619	3 615
Other Accidents	16 935	15 287	17 951	18 531	18 108
Traffic Accident	10 205	10 912	12 874	13 401	13 249
Oil Spill	2 496	2 229	2 519	2 504	2 625
Hazardous Material Accident	225	260	217	277	278
Natural Hazard	3 975	1 859	2 309	2 308	1 816
Explosion, Risk of Explosion	34	23	24	25	29
Collapse, Risk of Collapse	-	4	8	16	11
Other Operations	64 187	71 196	72 036	68 308	68 333
Fire Alarm System or Smoke Alarm Check or Inspection	21 236	22 891	23 106	21 889	21 545
Other Check or Inspection	7 383	8 336	8 307	8 370	7 916
First Response	24 234	27 767	28 081	25 579	26 528
Human Rescue	2 003	1 964	2 174	2 150	2 275
Animal Rescue	1 780	1 894	1 939	2 051	2 422
Other Rescue Operation	681	533	509	-	-
Loss Prevention	3 741	4 506	4 474	4 600	3 755
Assistance	2 581	2 754	2 961	3 073	3 097
Executive Assistance	548	551	485	596	795
Total	94 099	104 063	104 143	101 483	101 435

RESCUE OPERATIONS BY RESCUE SERVICE REGION

	2005	2006	2007	2008	2009
Helsinki	7 703	8 636	9 154	8 568	8 000
Länsi-Uusimaa	6 873	7 692	7 813	7 709	6 608
Keski-Uusimaa	5 434	5 897	7 019	7 351	6 910
Itä-Uusimaa	1 952	2 373	2 362	2 265	2 242
Varsinais-Suomi	7 307	7 875	8 326	8 546	8 319
Kanta-Häme	3 131	3 154	3 313	3 212	3 177
Päijät-Häme	3 419	3 753	3 880	3 852	3 924
Kymenlaakso	4 141	4 224	4 222	3 921	3 687
South Karelia	2 523	2 886	2 754	2 698	2 607
Etelä-Savo	3 752	4 377	3 691	3 699	3 625
Central Finland	4 724	5 452	5 605	5 495	5 526
Pirkanmaa	10 258	11 310	10 361	9 330	9 548
Satakunta	4 282	4 543	5 011	4 871	5 076
South Ostrobothnia	4 268	4 514	4 465	4 405	4 903
Ostrobothnia	2 675	2 947	2 842	2 887	2 744
Central Ostrobothnia	1 980	2 294	2 307	2 221	2 346
Pohjois-Savo	5 240	5 338	4 856	4 891	5 232
North Karelia	3 772	3 787	3 381	3 538	3 994
Jokilaaksot	2 399	2 677	2 655	2 638	2 814
Kainuu	1 387	2 017	1 952	1 692	1 429
Oulu-Koillismaa	3 146	4 485	4 210	3 647	4 235
Lapland	3 733	3 832	3 966	4 049	4 493
Cooperations	599	810	820	1150	1 071

SHARE OF RESCUE OPERATIONS BY RISK AREA (%)

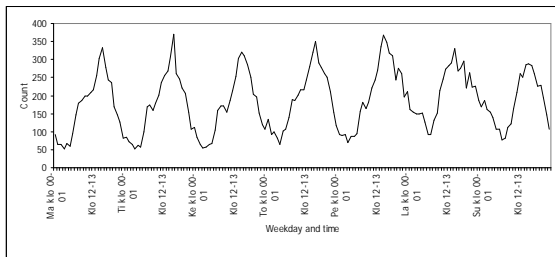
	2005	2006	2007	2008	2009
Risk Area I	26	25	25	25	25
Risk Area II	30	26	26	27	27
Risk Area III	19	17	16	16	16
Risk Area IV	26	31	33	33	33

URGENT OPERATIONS* BY MONTH

	2005	2006	2007	2008	2009
January	1 821	1 886	2 282	2 327	2 546
February	1 448	1 742	1 829	2 027	1 974
March	1 642	1 778	1 978	2 048	1 908
April	2 286	2 080	2 783	2 412	2 475
May	2 493	3 170	2 842	3 790	3 441
June	2 435	3 114	3 473	3 400	3 161
July	3 049	4 299	2 455	2 837	2 908
August	2 136	3 798	2 823	2 516	2 823
September	2 094	2 548	2 184	2 303	2 412
October	2 089	2 206	2 092	2 204	2 523
November	1 830	1 937	2 184	2 235	2 046
December	2 121	2 185	2 528	2 414	2 719

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

URGENT OPERATIONS* BY WEEKDAY AND TIME



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

BUILDING FIRES BY BUILDING TYPE

	2005	2006	2007	2008	2009
Residential Building	1 739	1 823	1 869	2 240	3 415
Detached houses	956	1 093	1 041	1 140	1 577
Attached houses	166	170	181	204	393
Blocks of flats	617	560	647	896	1 446
Free-time Residence	148	192	179	174	201
Commercial Building	164	151	182	199	380
Office Building	52	38	40	63	74
Transport, Communications Building	59	74	73	50	73
Institutional and Healthcare Building	85	77	95	106	233
Assembly Building	46	64	55	68	86
Educational Building	55	59	59	60	119
Industrial Building	390	453	498	503	591
Warehouse	217	257	243	242	236
Building for Fire Services	3	4	3	3	1
Agricultural Building	179	199	176	179	194
Other Building	563	618	594	622	655
Sauna	331	333	290	288	331
Total	3 700	4 009	4 066	4 509	6 258

CAUSE OF BUILDING FIRE

	2005	2006	2007	2008	2009
Human Activity	1 637	1 674	1 807	2 222	3 323
Machine or Device Failure	797	967	997	977	1 524
Natural Phenomena	76	107	90	108	123
Flammable Substance	30	33	56	47	90
Animal	16	10	15	13	27
Other Cause	574	605	584	632	681
Cause Unknown	584	646	524	512	532

BUILDING FIRE CAUSE OF IGNITION

	2005	2006	2007	2008	2009
Cooking	-	-	-	-	1 162
Deliberate	-	-	-	-	260
Open Fire	834	785	910	997	1 029
Juvenile Fire Setting	-	-	-	-	77
Hot Work	111	97	121	110	152
Match, Other Firemaking Device	349	295	383	458	276
Cigarette, Other Tobacco Product	198	195	201	253	308
Firework, Pyrotechnic Products	19	22	30	30	43
Candle, Outdoor Candle	73	78	107	71	98
Machine, Device, Process	908	1 057	1 058	1 159	1 538
Electrical Device	528	591	602	640	595
Hot Object, Ash, Spark	186	227	210	251	231
Fireplace, Flue	546	625	632	674	879
Chimney Fire	141	185	207	287	384
Frictional Heat, Spontaneous Ignition, Explosion	64	65	79	95	133
Natural Phenomena	81	109	95	96	98
Other Known Cause	439	456	493	669	410
Cause Unknown	654	712	595	570	560

INTENTIONALITY OF BUILDING FIRE

	2005	2006	2007	2008	2009
Intentional	324	298	365	469	550
Negligence, Carelessness	436	528	532	674	1 283
Accidental	607	605	677	848	1 295
Unknown	270	243	233	231	195
Total	1 637	1 674	1 807	2 222	3 323

USE OF FIRST EXTINGUISHING IN BUILDING FIRES

	2005	2006	2007	2008	2009
Used	1 428	1 572	1 585	1 693	2 135
Not Used	2 030	2 137	2 145	2 301	3 568
Unknown	257	333	343	517	596

EFFECT OF FIRST EXTINGUISHING IN BUILDING FIRES

	2005	2006	2007	2008	2009
Extinguished Fire	599	682	766	850	1 241
Limited Fire	587	666	587	622	654
No Effect	231	219	224	217	236
Extinguisher Did Not Work	11	5	8	4	4

SMOKE ALARM ACTIVATION IN RESIDENTIAL BUILDING FIRES

	2005	2006	2007	2008	2009
Smoke Alarm Activated	497	547	578	677	1 069
Smoke Alarm Did Not Activate	177	200	165	259	483
Smoke Alarm Activation Unknown	428	482	477	509	571
No Smoke Alarm	785	786	827	969	1 081

WILDFIRES

	2005	2006	2007	2008	2009
Forest Fire	1 031	2 963	1 155	1 412	1 171
Other Wildfire	1 666	3 443	1 763	1 828	1 670
Total	2 697	6 406	2 918	3 240	2 841

CAUSE OF WILDIRE

	2005	2006	2007	2008	2009
Human Activity	1 766	3 807	1 834	2 207	1 989
Natural Phenomena	230	763	298	155	216
Machine or Device Failure	63	135	58	73	86
Animal	13	29	10	21	18
Flammable Substance	2	17	5	6	13
Other Cause	161	407	159	123	139
Cause Unknown	461	1 248	554	655	380

WILDFIRE CAUSE OF IGNITION

	2005	2006	2007	2008	2009
Open Fire	1 669	3 457	1 708	2 054	1 749
Juvenile Fire Setting	-	-	-	-	147
Campfire, Grill	469	1 082	437	531	391
Rubbish Burning	330	531	353	324	360
Match, Other Firemaking Device	364	800	465	581	340
Cigarette, Other Tobacco Product	201	703	241	354	287
Prescribed Burning	288	278	170	213	164
Natural Phenomena	170	576	125	136	145
Lightning	133	501	55	97	75
Machine, Device, Process	166	330	227	162	132
Electrical Device	82	142	163	84	26
Hot Object, Ash, Spark	74	274	81	121	123
Fireplace, Flue	13	33	13	13	14
Frictional Heat, Spontaneous Ignition, Explosion	68	255	149	53	94
Deliberate	-	-	-	-	39
Other Known Cause	93	305	97	95	151
Cause Unknown	442	1 175	518	605	394

INTENTIONALITY OF WILDFIRE

	2005	2006	2007	2008	2009
Intentional	311	572	347	433	368
Negligence, Carelessness	576	1 555	700	873	822
Accidental	567	887	455	507	506
Unknown	312	793	332	394	293
Total	1 766	3 807	1 834	2 207	1 989

VEHICLE FIRES BY VEHICLE TYPE

	2005	2006	2007	2008	2009
Road Vehicle	2 626	2 695	2 512	2 365	2 398
Water Vehicle	22	34	42	39	34
Rail Vehicle	9	6	16	10	9
Air Vehicle	1	3	1	2	2
Other Vehicle	20	27	22	25	25
Total	2 678	2 765	2 593	2 441	2 468

CAUSE OF VEHICLE FIRE

	2005	2006	2007	2008	2009
Machine or Device Failure	1 338	1 469	1 308	1 299	1 318
Human Activity	626	525	558	546	563
Flammable Substance	26	30	24	17	28
Natural Phenomena	7	2	7	5	6
Animal	0	2	1	0	2
Other Cause	133	156	138	130	147
Cause Unknown	550	581	557	444	404

INTENTIONALITY OF VEHICLE FIRES

	2005	2006	2007	2008	2009
Intentional	422	337	383	375	411
Negligence, Carelessness	59	55	58	48	53
Accidental	68	73	60	68	69
Unknown	77	60	57	55	30
Total	626	525	558	546	563

ROAD VEHICLE FIRES

	2005	2006	2007	2008	2009
Passenger Car	1 825	1 816	1 669	1 456	1 513
Van	156	154	136	165	163
Combination of Vehicles	86	149	137	126	92
Lorry	112	126	111	127	105
Engine-powered Work Vehicle	132	119	115	112	109
Tractor	117	110	101	93	119
Bus	69	60	75	76	77
Motor Caravan, Caravan	46	49	42	51	42
Moped	28	38	43	77	79
Off-road Vehicle	10	19	16	25	35
Trailer	11	22	21	18	17
Tank Truck	19	11	11	10	13
Motorcycle	7	14	19	13	12
Restricted Motorcycle	1	2	4	3	7
Other Road Vehicle	7	6	12	13	15

CAUSE OF OTHER FIRE

	2005	2006	2007	2008	2009
Human Activity	2 369	2 744	3 141	3 345	2 570
Machine or Device Failure	573	583	555	476	321
Natural Phenomena	113	171	141	125	106
Flammable Substance	38	35	34	34	15
Animal	19	14	13	14	22
Other Cause	512	517	438	293	280
Cause Unknown	456	549	488	382	334
Total	4 080	4 613	4 810	4 669	2 648

OTHER FIRE CAUSE OF IGNITION

	2005	2006	2007	2008	2009
Open Fire	1 805	2 169	2 534	2 786	1 916
Juvenile Fire Setting	-	-	-	-	125
Campfire, Grill	244	413	364	413	204
Rubbish Burning	195	265	264	187	250
Match, Other Firemaking Device	950	954	1 291	1 517	893
Cigarette, Other Tobacco Product	239	317	307	334	284
Firework, Pyrotechnic Products	73	115	195	238	104
Fireplace, Flue	341	301	195	62	33
Chimney Fire	292	250	145	18	4
Machine, Equipment, Process	628	648	670	548	297
Electrical Device	382	404	429	353	136
Hot Object, Ash, Spark	133	181	167	160	111
Frictional Heat, Spontaneous Ignition, Explosion	116	177	146	141	117
Natural Phenomena	67	101	90	70	57
Deliberate	-	-	-	-	318
Other Known Cause	399	384	414	337	404
Cause Unknown	590	652	594	565	394

INTENTIONALITY OF OTHER FIRE

	2005	2006	2007	2008	2009
Intentional	1 129	1 279	1 625	1 904	1 515
Negligence, Carelessness	426	557	616	606	434
Accidental	412	443	403	378	291
Unknown	402	465	497	457	330
Total	2 369	2 744	3 141	3 345	2 570

TRAFFIC ACCIDENTS

	2005	2006	2007	2008	2009
Road Traffic	9 739	10 443	12 482	13 047	12 896
Rail Transport	176	183	183	163	144
Railway Level Crossing	106	109	90	69	56
Waterway Transport	34	29	41	52	80
Air Traffic	21	22	31	21	40
Other Traffic	301	310	201	211	253
Total	10 271	10 987	12 938	13 494	13 469

NATURAL HAZARDS

	2005	2006	2007	2008	2009
Storm	3 499	1 601	1 850	2 133	1 614
Flood	249	83	281	65	55
Landslide	11	2	10	6	5
Frost	11	9	2	5	5
Other Natural Hazard	324	245	241	180	145
Total	4 094	1 940	2 384	2 389	1 824

OIL SPILLS

	2005	2006	2007	2008	2009
Overfill	262	237	251	239	260
Tank Leak	138	136	145	144	117
Other Leak in Storing or Dispensing Device	75	82	80	90	81
Tank Transport	46	52	53	53	48
Road Vehicle	1 096	994	1 150	1 228	1 325
Rail Vehicle	11	4	4	9	2
Water Vehicle	65	59	58	66	63
Other Vehicle	293	250	267	286	301
Other Machine or Device	93	75	90	115	126
Treatment of Waste Oil or Used Oil	54	43	54	36	58
Unknown Oil Spill in Water Body or Sewer	58	57	48	56	83
Other Cause or Accident	438	355	475	428	425
Total	2 629	2 344	2 675	2 750	2 889

HAZARDOUS MATERIAL ACCIDENT SITE

	2005	2006	2007	2008	2009
Industrial Plant	57	51	50	45	56
Warehouse, Warehouse Area	47	58	36	48	39
Street, Other Urban Area	22	29	23	46	50
Highway	14	24	11	24	12
Shop, Petrol Outlet	24	28	21	36	43
Public Building	20	15	19	13	16
Accommodation or Restaurant Premises	4	8	7	15	8
Residential Building	8	15	21	10	14
Other Building	13	14	13	12	16
Port, Water Body	5	7	4	10	9
Yard, Railway	7	9	4	14	7
Other Site	15	19	22	20	23
Total	236	277	231	293	293

ADR CLASSIFICATION OF HAZARDOUS MATERIAL ACCIDENTS

	2005	2006	2007	2008	2009
Explosives	1	1	0	1	0
Gases	13	91	85	95	76
Flammable Liquids	30	66	64	116	93
Flammable Solids	1	9	2	5	1
Oxidising Substances, Organic Peroxides	4	9	9	7	10
Toxic and Infectious Substances	10	11	16	12	12
Radioactive Substances	0	0	0	0	0
Corrosive Substances	31	52	55	53	49
Other Hazardous Material or Goods	0	15	14	14	5
No Data	150	35	1	1	55

FIRE ALARM SYSTEM OR SMOKE ALARM CHECK AND INSPECTION OPERATIONS

	2005	2006	2007	2008	2009
Fire Alarm System or Smoke Alarm Check or Inspection	21 236	22 891	-	-	-
Automatic Fire Alarm System Check or Inspection	-	-	21 266	20 056	19 374
Smoke Alarm Check or Inspection	-	-	1 840	1 833	2 171

CAUSE FOR AUTOMATIC FIRE ALARM

	2005	2006	2007	2008	2009
Negligence in Property Repair, Installation or Maintenance Work	2 247	2 417	2 523	2 530	2 217
Exhaust Gas	207	200	205	186	178
Smoking	422	413	370	327	306
Cooking	-	-	2 751	3 042	2 970
Other Smoke or Dust	4 916	5 456	3 470	3 069	2 802
Temporary High Temperature, Fire Moisture or Water	453	516	413	568	564
Sensor Failure in Fire Alarm or Fixed Fire Extinguishing System	1 750	1 984	2 023	1 808	1 786
Sprinkler System Failure	821	887	797	611	649
Other System Failure	797	987	1 035	983	952
Overvoltage	324	348	444	408	462
Impact on Sensor	209	223	322	197	189
Error or Misuse	140	189	194	274	236
Malicious Use	448	423	558	596	605
Other Cause or Cause Unknown	357	356	436	447	479
No Data	4 974	5 557	5 674	5 153	5 090
	3 284	3 060	2 068	1 985	2 485

OTHER CHECK OR INSPECTION OPERATIONS

	2005	2006	2007	2008	2009
Smoke Observation	3 159	3 794	3 940	3 830	3 369
Oil Observation	283	342	508	539	564
Gas Observation	103	123	143	121	150
Chemical Observation	53	83	106	72	103
Blind Call	547	582	435	471	470
False Call	121	143	147	159	143
Risk of Air Crash	57	90	91	116	86
Other Cause	3 060	3 179	2 937	3 062	3 029

HUMAN RESCUE OPERATIONS

	2005	2006	2007	2008	2009
Water Rescue	440	462	475	450	383
Rescue from Trap, Shaft, Collapse, Well	85	61	57	57	49
Rescue from Other Dangerous Place or Situation	286	285	289	262	259
Rescue from Place or Situation With No Immediate Danger	504	547	416	419	427
Rescue from Terrain	217	221	272	283	290
Lift Rescue	-	-	402	426	661
Other Rescue Operation	471	388	263	253	206

ANIMAL RESCUE OPERATIONS

	2005	2006	2007	2008	2009
Water Rescue	175	165	168	163	198
Rescue from Trap, Shaft, Collapse, Well	217	249	229	207	253
Rescue from Other Dangerous Place or Situation	210	263	260	324	405
Rescue from Place or Situation With No Immediate Danger	705	657	720	761	914
Rescue from Terrain	90	86	87	62	119
Lift Rescue	-	-	8	5	10
Other Rescue Operation	383	474	467	529	522

LOSS PREVENTION OPERATIONS

	2005	2006	2007	2008	2009
Hazard Caused by Natural or Meteorological Phenomenon	1 750	1 716	1 725	2 153	1 308
Failure in Water Distribution System	429	687	633	434	557
Loss Prevention Operation Caused by Other Technical Reason	350	435	381	363	300
Loss Prevention Operation Caused by Human Activity	596	686	695	596	655
Accident Site Clean-up	-	-	284	289	279
Other Loss Prevention Operation	616	982	756	765	656

5 ACCIDENT DAMAGES

DEATHS

	2005	2006	2007	2008	2009
Building Fire	73	111	78	111	98
Wildfire	0	2	1	0	1
Vehicle Fire	2	3	4	4	7
Other Fire	1	2	1	3	3
Traffic Accident	354	297	383	323	270
Oil Spill	1	0	1	0	0
Hazardous Material Accident	1	0	0	1	0
Natural Hazard	0	0	0	0	0
Explosion, Risk of Explosion	1	1	1	1	0
Collapse, Risk of Collapse	-	0	0	0	1
Fire Alarm System or Smoke Alarm Check or Inspection	0	1	0	0	0
Other Check or Inspection	4	5	6	5	8
Human Rescue	183	152	154	128	124
Animal Rescue	0	0	0	0	0
Other Rescue Operation	15	12	10	-	-
Loss Prevention	0	0	1	0	0
Assistance	53	43	45	53	41
Executive Assistance	54	50	59	56	59
Total	742	679	744	685	612

INJURED

	2005	2006	2007	2008	2009
Building Fire	422	371	487	491	659
Wildfire	4	15	7	4	4
Vehicle Fire	30	31	33	122	25
Other Fire	48	42	37	44	10
Traffic Accident	8 469	8 617	9 161	9 612	8 878
Oil Spill	5	7	3	8	12
Hazardous Material Accident	19	47	43	40	10
Natural Hazard	11	2	0	2	4
Explosion, Risk of Explosion	20	14	3	3	10
Collapse, Risk of Collapse	-	0	0	0	1
Fire Alarm System or Smoke Alarm Check or Inspection	20	35	27	26	15
Other Check or Inspection	50	50	31	68	35
Human Rescue	523	459	544	528	423
Animal Rescue	3	2	1	0	5
Other Rescue Operation	38	26	29	-	-
Loss Prevention	11	17	24	30	16
Assistance	166	127	143	181	145
Executive Assistance	10	15	34	39	32
Total	9 849	9 877	10 590	11 198	10 284

FIRE DEATHS

	2005 ⁴	2006 ⁴	2007 ⁴	2008 ⁴	2009
Fire Deaths	88	126	91	108	107
Accidental Cause of Death	69	109	76	88	91
Non-accidental Cause of Death	19	17	15	20	16
Deaths per Million Inhabitants	17	24	17	20	20

FIRE DEATHS BY AGE AND SEX⁴

	2005		2006		2007		2008	
	M	F	M	F	M	F	M	F
Under 10 years	2	1	2	0	0	0	0	0
10—19 years	1	3	3	0	3	1	1	0
20—29 years	1	0	2	1	2	3	3	2
30—39 years	5	2	10	3	4	1	8	1
40—49 years	16	5	16	4	14	1	14	3
50—59 years	18	3	23	6	16	5	17	7
60—69 years	12	5	26	10	18	6	25	8
70—79 years	6	1	9	2	9	3	7	5
80—89 years	4	3	5	3	1	4	2	4
Over 89 years	0	0	0	1	0	0	1	0
Total	65	23	96	30	67	24	78	30

References: ⁴ Statistics Finland.

FIRE DEATHS BY BUILDING TYPE

	2005	2006	2007	2008	2009
Residential Building	65	100	66	92	89
Detached houses	35	54	45	54	59
Attached houses	7	8	4	9	11
Blocks of flats	23	38	17	29	19
Free-time Residence	3	5	7	2	3
Institutional and Healthcare Building	2	0	1	1	1
Other Building	3	7	5	5	3

SHARE OF SMOKE ALARM ACTIVATION IN FATAL FIRES (%)

	2005	2006	2007	2008	2009
Smoke Alarm Activated	20	16	24	27	18
Smoke Alarm Did Not Activate	5	2	6	8	14
Smoke Alarm Activation Unknown	25	26	24	19	41
No Smoke Alarm	49	57	45	46	27

TOTAL PROPERTY DAMAGES* FROM FIRES

	2005	2006	2007	2008	2009
Burnt Floor Area in Residential Building Fires (m ²)	-	71 436	68 923	83 681	82 674
Damage to Building and Furnishings in Building Fires (MEUR)	150	244	188	188	131**
Property in Danger in Building Fires (MEUR)	9 198	10 792	15 339	17 027	2 927**
Burnt Land Area (ha)	1 068	7 207	841	1 188	1 004
Burnt Forest Area (ha)	495	1 617	576	830	576
Vehicle Fire (MEUR)	16	19	17	16	17
Other Fire (MEUR)	8	7	9	19	7

AVERAGE PROPERTY DAMAGES* FROM FIRES

	2005	2006	2007	2008	2009
Burnt Floor Area in Residential Building Fires (m ²)	-	37	35	36	13
Damage to Building and Furnishings in Building Fires (€)	40 489	60 404	46 224	41 886	20 828**
Burnt Land Area (ha)	0,39	1,13	0,29	0,37	0,35
Burnt Forest Area (ha)	0,46	0,53	0,48	0,57	0,46
Vehicle Fire (€)	6 200	6 910	6 754	6 633	7 168
Other Fire (€)	1 908	1 571	1 776	4 072	1 869

*Since 2006 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*

	2005	2006	2007	2008	2009
Risk Area I	7:38	7:45	7:16	6:25	5:59
Risk Area II	8:00	7:58	7:43	7:08	6:59
Risk Area III	10:45	10:24	9:33	9:27	9:00
Risk Area IV	15:21	15:58	14:13	14:18	14:14

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

	2005	2006	2007	2008	2009
Risk Area I (6 min)	50	48	53	59	62
Risk Area II (10 min)	80	80	82	87	88
Risk Area III (20 min)	93	93	95	96	98
Risk Area IV (No Response Time Set)					

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

SHARE OF OPERATIONS IN WHICH STRENGTH OF PERSONNEL 1+3 FULFILLED (%)

	2005	2006	2007	2008	2009
Building Fire	96	96	96	96	95
Wildfire	87	88	89	93	91
Vehicle Fire	89	88	91	91	90
Other Fire	86	88	88	92	91
Traffic Accident	90	90	90	91	92
Oil Spill	70	69	70	72	73
Hazardous Material Accident	87	91	90	94	96
Natural Hazard	77	74	74	81	62
Explosion, Risk of Explosion	88	90	91	96	100
Collapse, Risk of Collapse	-	75	75	94	100
Fire Alarm System or Smoke Alarm Check or Inspection	90	91	91	93	90
Other Check or Inspection	77	78	80	85	88
Human Rescue	80	79	85	84	84
Animal Rescue	67	56	49	67	83
Other Rescue Operation	73	76	71	-	-
Loss Prevention	68	71	74	77	77
Assistance	56	63	71	72	81
Executive Assistance	62	64	69	68	72
Total	84	85	86	89	90