

*Ministry of the Interior – General Directorate*

*Fire Rescue Service of the Czech Republic*

# *Statistical Yearbook 2019*

## *Czech Republic*



**Prague 2020**

# Table of content

<b>Fire units' activities</b> .....	<b>3</b>	<b>Emergency calls</b> .....	<b>16</b>
Number of particular types of incidents with fire units' intervention .....	3	Number of emergency calls to single European number 112 .....	16
Evacuated and rescued persons.....	3	<b>Fires</b> .....	<b>17</b>
Interventions in natural disasters.....	3	Basic indicators .....	17
Summary information about incidents in regions .....	4	Fires – summary.....	17
Number of incidents in the regions (per 1 000 inhabitants) .	4	Number of fires with loss 1 million CZK and higher .....	17
Number of interventions (including multiple interventions) in particular types of incidents by type of fire unit .....	4	Fatalities and injuries in fires .....	17
Basic information on fire units .....	4	Fires and losses by place of origin.....	18
Summary - fire units' interventions in districts and regions .	6	Direct losses and salvaged values in fires in mill. CZK.....	18
Proportion of types of fire units in the total number of interventions.....	7	Fires – summary in branches .....	18
Number of firefighter's fatalities and injuries in interventions .....	7	Fires causes and activities by the origin.....	19
Number of particular fire units' activities .....	8	<b>Prevention</b> .....	<b>20</b>
Incidents with intervention of military fire units.....	9	Survey of fire prevention of FRS CR .....	20
Selected fires with loss of 10 million CZK and higher, selected emergencies in the 3 <sup>rd</sup> stage and special stage of alert .....	10	Fires – the way of conclusion.....	20
Fire units cooperation in interventions .....	14	<b>International cooperation</b> .....	<b>21</b>
Negative influences by interventions .....	14	International development cooperation .....	22
Selected exercises of the Integrated Rescue System bodies in 2019 .....	15	<b>Economic indicators</b> .....	<b>22</b>
International exercises of the IRS bodies in 2019 .....	15	<b>Types of incidents with interventions of fire units</b> ..	<b>23</b>

## Notes:

Dash (-)	event didn't occur or wasn't monitored	F	fatalities
Cross (x)	entry was omitted for logical reasons	I	injuries
Index %	compares the data of 2019 to the state in 2018 (unless stated otherwise)	FRS CR	Fire Rescue Service of the Czech Republic
PSAP	Public Safety Answering Point	VFU	Voluntary Fire Units
MoD	Ministry of Defence of the Czech Republic	IRS	Integrated Rescue System

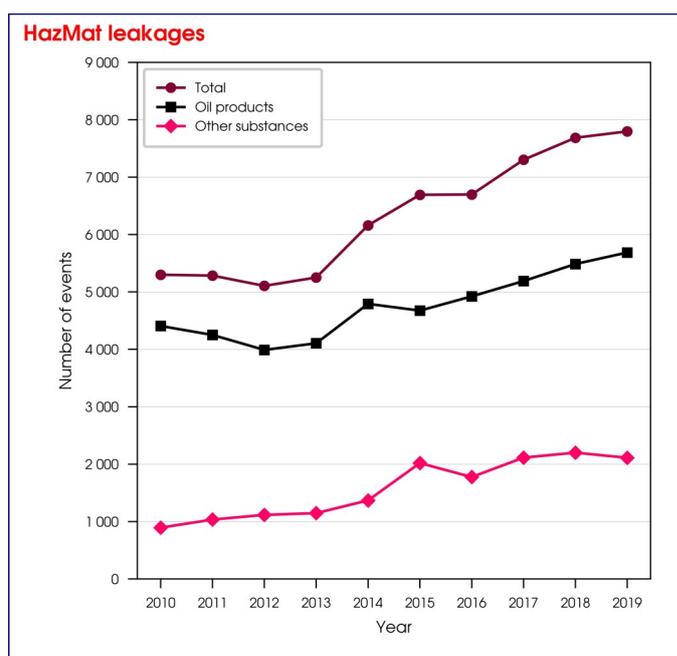
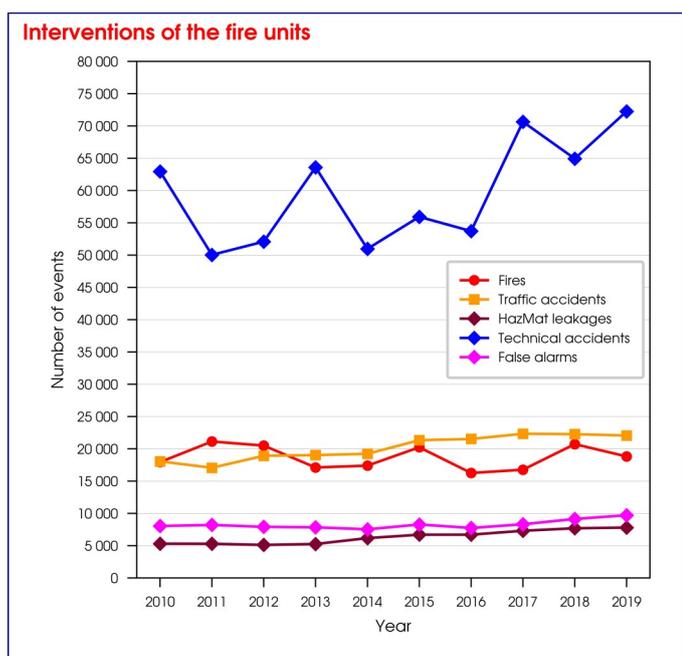
Unless otherwise noted, data in tables and graphs for 2019

# Fire units' activities

## Number of particular types of incidents with fire units' intervention

Type of incident	Number of incidents					Share in % in total number	Index %
	2015	2016	2017	2018	2019		
Fires	19 685	15 730	16 249	20 277	18 361	14,1	91
Traffic accidents	21 330	21 521	22 329	22 265	22 051	16,9	99
HazMat leakages	6 693	6 698	7 304	7 687	7 798	6,0	101
there of oil products	4 675	4 923	5 190	5 487	5 687	4,4	104
Technical accidents - total number	55 928	53 714	70 647	64 936	72 268	55,5	111
there of technical accidents	7	6	7	7	1	0,0	14
technical assistances	49 525	47 845	63 550	57 401	63 866	49,0	111
technological assistances	747	427	515	466	367	0,3	79
other assistances	5 649	5 436	6 575	7 062	8 034	6,2	114
Radiation accidents	0	0	1	1	4	0,0	400
Other emergencies	75	92	1 134	91	40	0,0	44
False alarms	8 273	7 735	8 310	9 131	9 707	7,5	106
<b>Total</b>	<b>111 984</b>	<b>105 490</b>	<b>125 974</b>	<b>124 388</b>	<b>130 229</b>	<b>100,0</b>	<b>105</b>

Note: The total number includes 40 incidents (there of 27 fires), that took place abroad with intervention of fire units from the CR or the intervention took place on both sides of the border. The total number includes also provided humanitarian assistances of the CR abroad (Iran and Greece).



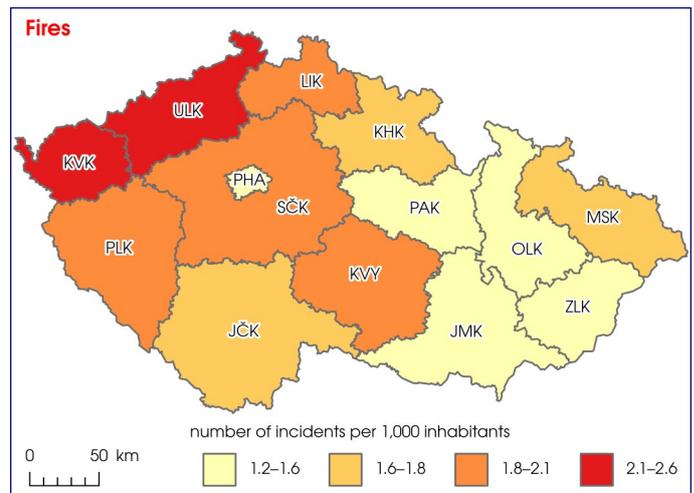
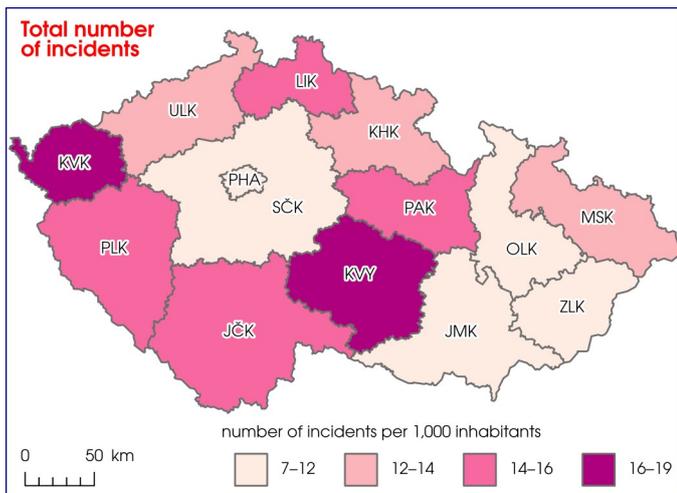
29,910 persons were rescued and 45,816 persons were evacuated by fire units during the interventions in 2019.

## Interventions in natural disasters

Type of intervention	2015	2016	2017	2018	2019
Fires	208	110	173	255	231
Traffic accidents	613	361	896	568	519
HazMat leakages	4	6	10	10	20
Technical accidents and others	12 885	11 707	30 881	14 895	23 421
<b>Total</b>	<b>13 710</b>	<b>12 184</b>	<b>31 960</b>	<b>15 728</b>	<b>24 191</b>

## Summary information about incidents in the regions

Type of incident	Capital of Prague	Central Bohemia	South Bohemia	Plzeň	Karlovy Vary	Ústí nad Labem
Fires	1 962	2 809	1 126	1 052	689	2 099
Traffic accidents	1 076	3 909	1 459	1 490	692	1 370
HazMat leakages	1 004	1 043	366	597	388	777
there of oil products	804	763	332	456	316	637
Technical accidents - total number	4 771	7 300	5 661	5 209	2 685	5 143
there of technical accidents	0	0	0	0	0	0
technical assistances	4 569	6 689	4 781	4 362	2 340	4 444
technological assistances	17	8	7	12	109	89
other assistances	185	603	873	835	236	610
Radiation accidents	0	0	0	0	0	0
Other emergencies	32	0	0	0	0	1
False alarms	1 282	942	592	631	317	889
<b>Total</b>	<b>10 127</b>	<b>16 003</b>	<b>9 204</b>	<b>8 979</b>	<b>4 771</b>	<b>10 279</b>
<b>Index %</b>	<b>99</b>	<b>107</b>	<b>107</b>	<b>105</b>	<b>102</b>	<b>105</b>



## Number of interventions (including multiple interventions) in particular types of incidents by type of fire unit

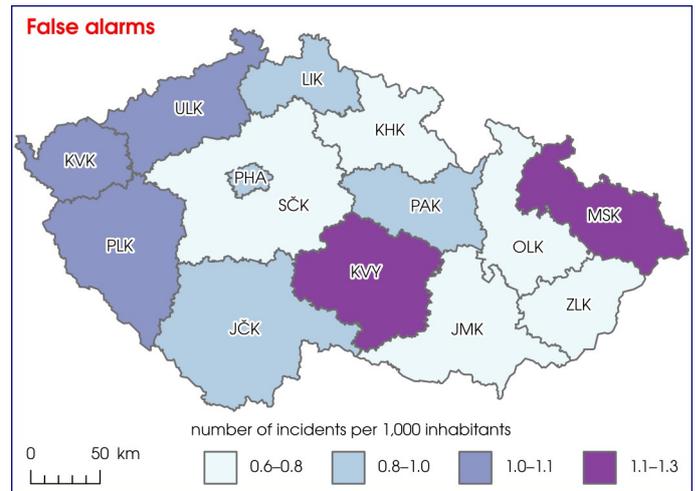
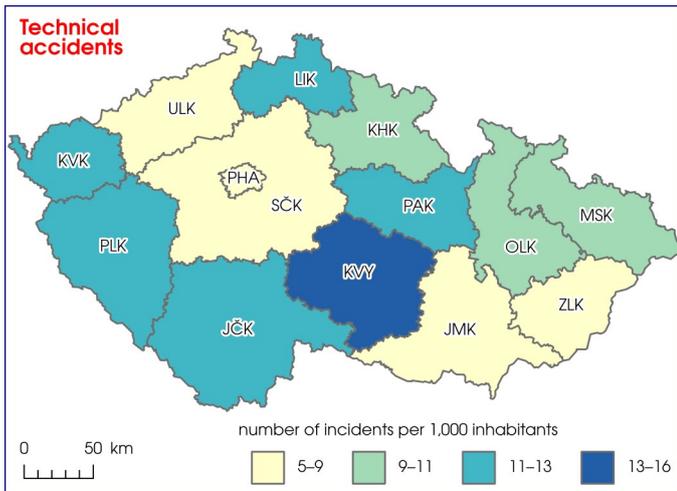
Type of incident	FRS CR			Municipal VFU		
	2018	2019	Index %	2018	2019	Index %
Fires	23 759	21 229	89	22 671	20 112	89
Traffic accidents	25 102	24 700	98	5 840	5 890	101
HazMat leakages	7 377	7 362	100	1 708	1 686	99
there of oil products	4 721	4 913	104	1 287	1 317	102
Technical accidents - total number	51 573	54 451	106	21 839	27 586	126
there of technical accidents	21	1	5	6	1	17
technical assistances	45 534	47 830	105	19 907	25 331	127
technological assistances	235	148	63	73	52	71
other assistances	5 783	6 472	112	1 853	2 202	119
Radiation accidents	2	13	650	0	1	x
Other emergencies	176	103	59	1	4	400
False alarms	8 217	8 613	105	3 234	3 313	102
<b>Total</b>	<b>116 206</b>	<b>116 471</b>	<b>100</b>	<b>55 293</b>	<b>58 592</b>	<b>106</b>

## Basic information on fire units

Basic information	Fires					
	2015	2016	2017	2018	2019	Index %
Number of intervention	43 943	33 707	36 603	48 160	42 759	89
Number of incidents with multiple interventions	x	x	x	x	x	x
Total number of multiple interventions	x	x	x	x	x	x
Number of incidents in the 3rd and special stage of alert	49	24	38	66	37	56
Number of intervening firefighters	236 877	182 442	197 188	256 058	227 596	89
Average number of firefighters per intervention	5,39	5,41	5,39	5,32	5,32	100
Average distance to incident in kilometres	8,33	7,64	8,13	8,67	8,32	96
Average intervention time in minutes	133	112	117	134	119	88
Number of incidents with use of protective equipment	4 030	3 750	3 851	4 505	4 314	96
Number of incidents with use of heat protective clothing	1	3	0	3	2	67
with chemical clothing	0	6	10	6	5	83
with air breathing apparatus	6 164	6 545	6 099	7 509	6 998	93
with oxygen breathing apparatus	7	3	13	3	8	267

Liberec	Hradec Králové	Pardubice	Vysočina	South Moravian	Olomouc	Zlín	Moravian-Silesian	CR
899	916	738	932	1 551	953	688	1 947	18 361
1 206	1 668	1 455	1 181	2 411	1 268	936	1 930	22 051
509	420	362	409	600	311	278	734	7 798
402	333	256	314	309	203	186	376	5 687
3 203	3 787	4 588	6 456	6 656	4 271	3 353	9 185	72 268
0	1	0	0	0	0	0	0	1
3 020	3 436	3 813	5 983	5 839	3 966	2 840	7 784	63 866
0	0	3	90	3	3	1	25	367
183	350	772	383	814	302	512	1 376	8 034
0	0	0	0	3	0	1	0	4
0	3	0	0	2	0	0	0	38
380	419	443	597	844	391	446	1 534	9 707
<b>6 197</b>	<b>7 213</b>	<b>7 586</b>	<b>9 575</b>	<b>12 067</b>	<b>7 194</b>	<b>5 702</b>	<b>15 330</b>	<b>130 227</b>
<b>108</b>	<b>96</b>	<b>109</b>	<b>99</b>	<b>102</b>	<b>109</b>	<b>112</b>	<b>109</b>	<b>105</b>

Note: The total number does not include humanitarian assistance provided from the CR abroad.



Enterprises FRS			Enterprises VFU			Other unit			Total		
2018	2019	Index %	2018	2019	Index %	2018	2019	Index %	2018	2019	Index %
1 593	1 305	82	110	100	91	27	13	48	48 160	42 759	89
1 420	1 451	102	6	6	100	6	4	67	32 374	32 051	99
629	674	107	55	47	85	2	0	0	9 771	9 769	100
511	527	103	52	40	77	1	0	0	6 572	6 797	103
3 677	4 651	126	352	304	86	29	17	59	77 470	87 009	112
0	0	x	0	0	x	0	0	x	27	1	4
2 961	3 860	130	224	225	100	23	16	70	68 649	77 262	113
103	130	126	122	77	63	0	0	x	533	407	76
613	661	108	6	2	33	6	1	17	8 261	9 338	113
0	0	x	0	0	x	0	0	x	2	14	700
6	3	50	0	0	x	0	0	x	183	110	60
1 769	2 008	114	569	405	71	4	1	25	13 793	14 340	104
<b>9 094</b>	<b>10 092</b>	<b>111</b>	<b>1 092</b>	<b>862</b>	<b>79</b>	<b>68</b>	<b>35</b>	<b>51</b>	<b>181 753</b>	<b>186 052</b>	<b>102</b>

Technical intervention						False alarms					
2015	2016	2017	2018	2019	Index %	2015	2016	2017	2018	2019	Index %
104 334	103 522	129 244	119 800	128 953	108	12 207	11 634	12 042	13 793	14 340	104
349	375	1 370	736	1 056	143	36	41	40	43	39	91
1 430	1 819	5 815	2 354	3 631	154	615	485	600	561	448	80
1	0	0	1	6	600	0	0	0	0	0	x
454 361	447 335	565 214	529 241	570 600	108	58 126	57 117	60 745	68 889	72 928	106
4,42	4,40	4,37	4,42	4,42	100	5,01	5,12	5,04	4,99	5,08	102
7,56	7,49	7,35	7,50	7,51	100	5,10	4,96	4,96	5,33	5,23	98
85	70	71	65	69	107	14	28	28	31	29	91
522	458	603	601	572	95	43	27	31	56	58	104
2	1	1	0	0	x	0	0	0	0	0	x
53	44	54	48	29	60	0	0	0	0	0	x
545	502	637	653	611	94	43	27	32	59	60	102
4	2	3	3	0	0	0	0	0	0	0	x

Summary - fire units' interventions in districts and regions

District (region)	Interventions in total		FRS CR interventions			Municipal VFU interventions			Enterprises FRS interventions			Other units interventions	
	Number	Ind.%	Number	Ind.%	% in total	Number	Ind.%	% in total	Number	Ind.%	% in total	Number	% in total
<b>Capital of Prague</b>	<b>13 156</b>	<b>95</b>	<b>10 821</b>	<b>103</b>	<b>82,3</b>	<b>718</b>	<b>72</b>	<b>5,5</b>	<b>1 615</b>	<b>108</b>	<b>12,3</b>	<b>2</b>	<b>0,0</b>
Benešov	2 692	124	1 444	117	53,6	1 199	134	44,5	49	144	1,8	0	0,0
Beroun	1 959	100	1 220	104	62,3	688	95	35,1	51	106	2,6	0	0,0
Kladno	2 175	93	1 600	102	73,6	533	74	24,5	42	89	1,9	0	0,0
Kolín	1 611	95	1 095	100	68,0	424	87	26,3	92	91	5,7	0	0,0
Kutná Hora	1 393	103	960	108	68,9	356	90	25,6	76	112	5,5	1	0,1
Mělník	1 882	90	1 121	92	59,6	548	89	29,1	213	86	11,3	0	0,0
Mladá Boleslav	2 290	100	1 535	99	67,0	600	102	26,2	153	113	6,7	2	0,1
Nymburk	1 889	111	1 151	111	60,9	634	113	33,6	104	108	5,5	0	0,0
Praha - východ	3 435	93	2 058	97	59,9	1 203	86	35,0	174	107	5,1	0	0,0
Praha - západ	2 878	102	1 672	100	58,1	1 121	105	39,0	84	109	2,9	1	0,0
Příbram	2 366	106	1 345	107	56,8	998	107	42,2	22	96	0,9	1	0,0
Rakovník	1 366	104	686	104	50,2	647	103	47,4	33	150	2,4	0	0,0
<b>Central Bohemia</b>	<b>25 936</b>	<b>101</b>	<b>15 887</b>	<b>103</b>	<b>61,3</b>	<b>8 951</b>	<b>99</b>	<b>34,5</b>	<b>1 093</b>	<b>103</b>	<b>4,2</b>	<b>5</b>	<b>0,0</b>
České Budějovice	2 566	99	1 920	96	74,8	552	111	21,5	94	98	3,7	0	0,0
Český Krumlov	1 483	105	922	99	62,2	478	129	32,2	76	79	5,1	7	0,5
Jindřichův Hradec	1 809	114	941	104	52,0	817	125	45,2	51	176	2,8	0	0,0
Písek	1 334	109	780	103	58,5	522	120	39,1	30	100	2,2	2	0,1
Prachatice	1 201	115	597	110	49,7	572	121	47,6	25	93	2,1	7	0,6
Strakonice	1 309	108	814	100	62,2	408	113	31,2	84	227	6,4	3	0,2
Tábor	1 467	96	910	94	62,0	513	97	35,0	44	129	3,0	0	0,0
<b>South Bohemia</b>	<b>11 169</b>	<b>105</b>	<b>6 884</b>	<b>100</b>	<b>61,6</b>	<b>3 862</b>	<b>117</b>	<b>34,6</b>	<b>404</b>	<b>116</b>	<b>3,6</b>	<b>19</b>	<b>0,2</b>
Domažlice	1 369	94	704	90	51,4	639	99	46,7	23	82	1,7	3	0,2
Klatovy	2 374	106	1 464	100	61,7	882	120	37,2	23	100	1,0	5	0,2
Plzeň - jih	1 265	97	755	96	59,7	487	100	38,5	23	115	1,8	0	0,0
Plzeň - město	2 888	111	2 410	108	83,4	406	147	14,1	72	106	2,5	0	0,0
Plzeň - sever	1 602	106	911	102	56,9	661	111	41,3	25	227	1,6	5	0,3
Rokycany	1 101	102	678	99	61,6	407	107	37,0	16	100	1,5	0	0,0
Tachov	1 579	102	852	94	54,0	686	111	43,4	40	160	2,5	1	0,1
<b>Plzeň</b>	<b>12 178</b>	<b>104</b>	<b>7 774</b>	<b>100</b>	<b>63,8</b>	<b>4 168</b>	<b>111</b>	<b>34,2</b>	<b>222</b>	<b>116</b>	<b>1,8</b>	<b>14</b>	<b>0,1</b>
Cheb	1 993	94	1 252	102	62,8	607	85	30,5	134	76	6,7	0	0,0
Karlovy Vary	3 012	115	1 159	102	38,5	1 673	121	55,5	172	167	5,7	8	0,3
Sokolov	2 076	94	1 088	88	52,4	903	105	43,5	85	87	4,1	0	0,0
<b>Karlovy Vary</b>	<b>7 081</b>	<b>102</b>	<b>3 499</b>	<b>97</b>	<b>49,4</b>	<b>3 183</b>	<b>108</b>	<b>45,0</b>	<b>391</b>	<b>104</b>	<b>5,5</b>	<b>8</b>	<b>0,1</b>
Děčín	2 940	105	1 442	100	49,0	1 382	106	47,0	115	164	3,9	1	0,0
Chomutov	1 891	95	884	93	46,7	759	93	40,1	247	111	13,1	1	0,1
Litoměřice	1 743	106	1 116	103	64,0	523	116	30,0	104	96	6,0	0	0,0
Louny	1 478	101	941	103	63,7	470	92	31,8	67	168	4,5	0	0,0
Most	1 676	97	947	98	56,5	223	78	13,3	506	110	30,2	0	0,0
Teplíce	1 829	102	1 094	99	59,8	567	101	31,0	158	131	8,6	10	0,5
Ústí nad Labem	1 785	106	1 189	106	66,6	392	130	22,0	204	78	11,4	0	0,0
<b>Ústí nad Labem</b>	<b>13 342</b>	<b>102</b>	<b>7 613</b>	<b>100</b>	<b>57,1</b>	<b>4 316</b>	<b>102</b>	<b>32,3</b>	<b>1 401</b>	<b>109</b>	<b>10,5</b>	<b>12</b>	<b>0,1</b>
Česká Lípa	3 153	98	1 540	102	48,8	1 519	95	48,2	92	99	2,9	2	0,1
Jablonec nad Nisou	1 803	115	1 045	108	58,0	672	123	37,3	86	141	4,8	0	0,0
Liberec	3 719	101	1 978	101	53,2	1 430	98	38,5	311	117	8,4	0	0,0
Semily	1 957	112	1 053	111	53,8	861	112	44,0	43	130	2,2	0	0,0
<b>Liberec</b>	<b>10 632</b>	<b>104</b>	<b>5 616</b>	<b>104</b>	<b>52,8</b>	<b>4 482</b>	<b>103</b>	<b>42,2</b>	<b>532</b>	<b>117</b>	<b>5,0</b>	<b>2</b>	<b>0,0</b>
Hradec Králové	2 807	99	1 900	98	67,7	848	104	30,2	52	87	1,9	7	0,2
Jičín	1 524	96	932	94	61,2	525	101	34,4	67	100	4,4	0	0,0
Náchod	2 492	98	1 453	99	58,3	1 011	97	40,6	19	83	0,8	9	0,4
Rychnov nad Kněžnou	1 988	92	1 031	95	51,9	750	90	37,7	207	92	10,4	0	0,0
Trutnov	2 499	104	1 359	104	54,4	1 102	104	44,1	37	148	1,5	1	0,0
<b>Hradec Králové</b>	<b>11 310</b>	<b>98</b>	<b>6 675</b>	<b>98</b>	<b>59,0</b>	<b>4 236</b>	<b>99</b>	<b>37,5</b>	<b>382</b>	<b>96</b>	<b>3,4</b>	<b>17</b>	<b>0,2</b>
Chrudim	2 342	99	1 411	99	60,2	905	97	38,6	22	129	0,9	4	0,2
Pardubice	2 552	98	1 756	101	68,8	623	93	24,4	173	87	6,8	0	0,0
Svitavy	2 055	105	1 455	104	70,8	570	111	27,7	30	64	1,5	0	0,0
Ústí nad Orlicí	3 236	122	1 986	118	61,4	988	136	30,5	259	106	8,0	3	0,1
<b>Pardubice</b>	<b>10 185</b>	<b>106</b>	<b>6 608</b>	<b>106</b>	<b>64,9</b>	<b>3 086</b>	<b>109</b>	<b>30,3</b>	<b>484</b>	<b>95</b>	<b>4,8</b>	<b>7</b>	<b>0,1</b>
Havlíčkův Brod	2 311	87	1 510	83	65,3	686	95	29,7	111	114	4,8	4	0,2
Jihlava	2 447	94	1 487	88	60,8	555	121	22,7	220	92	9,0	185	7,6
Pelhřimov	2 069	106	1 169	98	56,5	864	122	41,8	20	133	1,0	16	0,8
Třebíč	2 088	106	1 347	97	64,5	465	119	22,3	275	152	13,2	1	0,0
Žďár nad Sázavou	2 873	107	1 583	98	55,1	1 115	136	38,8	35	175	1,2	140	4,9
<b>Vysočina</b>	<b>11 788</b>	<b>100</b>	<b>7 096</b>	<b>92</b>	<b>60,2</b>	<b>3 685</b>	<b>119</b>	<b>31,3</b>	<b>661</b>	<b>120</b>	<b>5,6</b>	<b>346</b>	<b>2,9</b>

District (region)	Interventions in total		FRS CR interventions			Municipal VFU interventions			Enterprises FRS interventions			Other units interventions	
	Number	Ind.%	Number	Ind.%	% in total	Number	Ind.%	% in total	Number	Ind.%	% in total	Number	% in total
Blansko	2 063	100	1 147	99	55,6	884	101	42,9	32	139	1,6	0	0,0
Brno - město	4 886	98	4 337	97	88,8	456	116	9,3	93	112	1,9	0	0,0
Brno - venkov	4 296	101	3 048	102	70,9	1 161	99	27,0	87	100	2,0	0	0,0
Břeclav	1 790	97	1 144	97	63,9	608	96	34,0	37	142	2,1	1	0,1
Hodonín	1 730	90	1 087	97	62,8	618	81	35,7	25	96	1,4	0	0,0
Vyškov	1 676	104	1 113	97	66,4	507	121	30,3	56	255	3,3	0	0,0
Znojmo	1 830	91	1 184	97	64,7	623	82	34,0	23	135	1,3	0	0,0
<b>South Moravia</b>	<b>18 271</b>	<b>98</b>	<b>13 060</b>	<b>98</b>	<b>71,5</b>	<b>4 857</b>	<b>97</b>	<b>26,6</b>	<b>353</b>	<b>124</b>	<b>1,9</b>	<b>1</b>	<b>0,0</b>
Jeseník	960	110	547	115	57,0	394	103	41,0	11	183	1,1	8	0,8
Olomouc	3 693	106	2 427	106	65,7	1 149	102	31,1	110	124	3,0	7	0,2
Prostějov	1 833	111	1 022	103	55,8	780	122	42,6	31	135	1,7	0	0,0
Přerov	1 908	96	1 290	98	67,6	517	91	27,1	101	103	5,3	0	0,0
Šumperk	2 316	110	1 190	101	51,4	1 071	120	46,2	54	159	2,3	1	0,0
<b>Olomouc</b>	<b>10 710</b>	<b>106</b>	<b>6 476</b>	<b>104</b>	<b>60,5</b>	<b>3 911</b>	<b>109</b>	<b>36,5</b>	<b>307</b>	<b>123</b>	<b>2,9</b>	<b>16</b>	<b>0,1</b>
Kroměříž	1 379	107	896	100	65,0	444	124	32,2	38	100	2,8	1	0,1
Uherské Hradiště	1 672	101	1 023	114	61,2	426	86	25,5	17	121	1,0	206	12,3
Vsetín	2 562	116	1 102	110	43,0	1 179	137	46,0	65	94	2,5	216	8,4
Zlín	2 608	113	1 690	106	64,8	779	139	29,9	130	101	5,0	9	0,3
<b>Zlín</b>	<b>8 221</b>	<b>110</b>	<b>4 711</b>	<b>107</b>	<b>57,3</b>	<b>2 828</b>	<b>124</b>	<b>34,4</b>	<b>250</b>	<b>100</b>	<b>3,0</b>	<b>432</b>	<b>5,3</b>
Bruntál	2 274	105	1 217	101	53,5	1 014	111	44,6	32	103	1,4	11	0,5
Frýdek - Místek	4 228	107	2 131	102	50,4	1 672	122	39,5	425	89	10,1	0	0,0
Karviná	3 366	103	2 546	104	75,6	701	99	20,8	119	106	3,5	0	0,0
Nový Jičín	2 745	108	1 341	107	48,9	1 181	106	43,0	223	137	8,1	0	0,0
Opava	2 758	110	1 513	104	54,9	1 070	120	38,8	175	107	6,3	0	0,0
Ostrava	6 616	113	4 964	107	75,0	626	120	9,5	1 023	147	15,5	3	0,0
<b>Moravian-Silesian</b>	<b>21 987</b>	<b>108</b>	<b>13 712</b>	<b>105</b>	<b>62,4</b>	<b>6 264</b>	<b>113</b>	<b>28,5</b>	<b>1 997</b>	<b>121</b>	<b>9,1</b>	<b>14</b>	<b>0,1</b>

#### Proportion of types of fire units in the total number of interventions

<b>FRS CR</b>	<b>62.6 % of all interventions</b> Total number of 245 fire units registered (as of December 31, 2019).
<b>Municipality VFU</b>	<b>31.5 % of all interventions</b> Total number of 6 698 fire units (as of December 31, 2019), from which 237 fire units category II, 1 356 fire units category III, 5 105 fire units category V. From the total number as many as 766 (11.4%) fire units operated in only one intervention and 2 679 (40.0 %) fire units didn't operated at all. The main types of interventions were fires, technical assistances and traffic accidents.
<b>Enterprises FRS</b>	<b>5.4 % of all interventions</b> Total of 96 fire units (as of December 31, 2019), from those 16 military fire units. The main types of interventions were technical and technological assistances and false alarms.
<b>Enterprises VFU</b>	<b>0.5 % of all interventions</b> Total of 136 fire units (as of December 31, 2019). The main types of interventions were fires and false alarms.

#### Number of firefighter's fatalities and injuries in interventions

Category	2015		2016		2017		2018		2019		Index %	
	F	I	F	I	F	I	F	I	F	I	F	I
Professional firefighters	0	324	0	283	1	236	1	251	1	260	100	104
Voluntary firefighters	0	137	0	123	1	209	0	173	1	170	x	98
<b>Total</b>	<b>0</b>	<b>461</b>	<b>0</b>	<b>406</b>	<b>2</b>	<b>445</b>	<b>1</b>	<b>424</b>	<b>2</b>	<b>430</b>	<b>200</b>	<b>101</b>

On the 10th March 2019 voluntary firefighter died from heart failure during removing of fallen tree across the railway near town Kosova Hora.

On the 5th November 2019 professional firefighter died after fall from height during intervention - fire of production hall in Petrovice by Karviná.

**Number of particular fire units' activities**

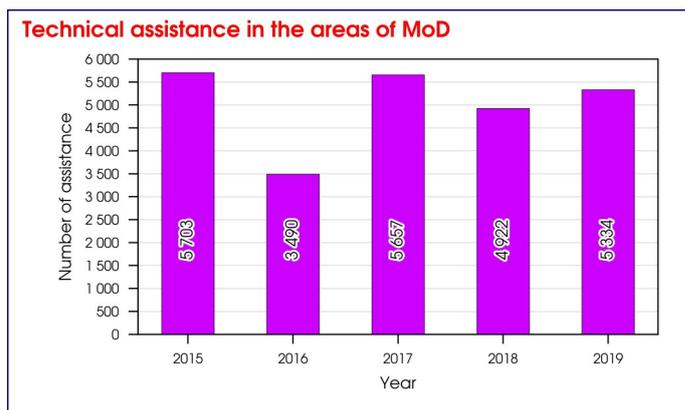
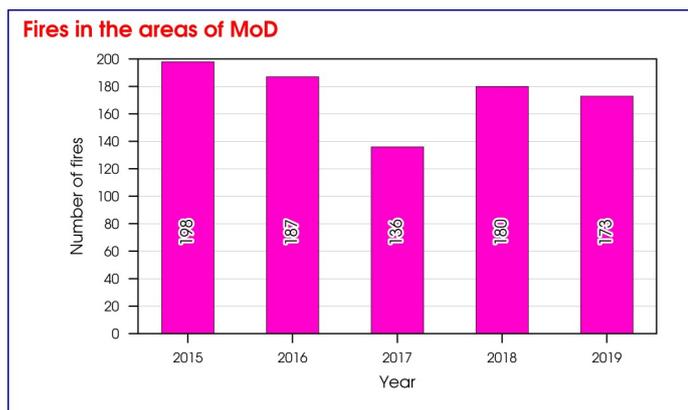
Activity type	FRS CR		Municipal VFU		Enterprises FRS		Enterprises VFU and others	Total	
	Number	Index %	Number	Index %	Number	Index %		Number	Index %
fire assistance	188	69	761	101	74	148	9	1 032	94
assistance on searching or elimination of explosives	117	121	14	127	5	83	0	136	119
reconnaissance	107 549	100	46 473	106	8 920	112	534	163 476	102
use of fire extinguisher	397	96	300	111	82	115	17	796	102
use of simple fire extinguisher	1 714	88	1 307	87	144	79	7	3 172	87
D water stream	581	127	769	117	68	105	77	1 495	120
C water stream	4 573	89	5 469	85	396	93	87	10 525	87
B water stream	193	102	323	79	18	75	0	534	85
water foam monitor stream water	450	80	625	83	56	65	43	1 174	83
high - pressure water	6 679	88	2 783	89	311	94	11	9 784	88
use of high-pressure water fog	127	102	12	86	0	0	0	139	97
light expansion foam	0	0	3	75	0	0	0	3	33
medium expansion foam	120	77	27	53	9	69	2	158	72
low expansion foam	96	75	18	46	13	65	4	131	69
soaking agent	455	82	310	88	15	79	2	782	84
powder from mobile equipment	3	43	1	50	6	200	0	10	83
inert gasses from mobile equipment	30	143	1	x	9	150	0	40	148
special technical equipment and extinguishing agents	237	87	92	108	8	80	1	338	92
water pumping	1 030	114	1 765	136	177	101	33	3 005	125
long-distance water supply with hoses	77	115	194	89	2	100	4	277	95
shuttle water supply	510	83	1 731	80	51	84	6	2 298	80
water refill	1 451	83	3 450	86	156	82	8	5 065	85
cooling	773	81	368	82	99	98	44	1 284	83
natural ventilation	3 684	93	945	90	231	99	57	4 917	92
forced ventilation	1 370	92	499	90	74	85	6	1 949	91
insulation, separation of substances	66	80	8	44	9	180	3	86	81
neutralisation	42	84	5	83	12	171	0	59	92
dilution	56	98	16	52	20	125	1	93	88
substances pump - over	256	84	29	88	20	87	7	312	85
bordering and obstructing after leaked substance	1 171	98	238	100	82	111	12	1 503	98
collecting of leaked substance (excl. oil substances)	292	75	57	104	58	129	8	415	84
identification of leaked substance	817	125	53	77	46	88	4	920	118
sampling	227	80	10	63	5	167	0	242	80
gas concentration measurement	3 175	93	117	96	200	127	0	3 492	94
securing of place of accident	12 745	94	3 335	101	721	108	10	16 811	96
securing of place of air equipment landing	772	94	310	96	9	180	0	1 091	95
removing of after-effect traffic accident	8 826	95	2 053	98	610	108	1	11 490	96
traffic control	7 705	97	5 572	114	231	110	3	13 511	104
removing of obstacles from roads and other areas	17 722	109	12 943	138	1 998	129	29	32 692	120
cleaning-up of oil products (vehicle's filling)	11 665	99	2 522	100	435	98	35	14 657	99
fire protection measures	12 785	98	3 033	100	260	120	32	16 110	98
surroundings securing	1 081	91	740	84	35	73	2	1 858	88
lighting the place of intervention	2 707	100	2 088	106	274	117	1	5 070	103
water surface intervention	345	107	143	113	5	38	3	496	104
intervention on and under water surface	211	101	90	106	1	33	2	304	102
operating the dangerous equipment	103	107	40	111	3	60	0	146	107
provisional repair	1 527	101	425	100	127	98	8	2 087	101
construction dismantling	2 493	87	2 167	87	101	86	22	4 783	87
water ray cutting	35	92	0	0	0	0	0	35	85
water, gas, electricity etc. closing	2 530	92	441	85	58	109	8	3 037	91
breaking into closed space	13 365	99	1 361	101	80	114	5	14 811	99
snow and ice removing	578	732	130	351	56	207	2	766	525
intervention at height using climbing equipment	280	50	186	198	56	170	13	535	78
intervention at height and depth	4 553	102	931	102	137	144	12	5 633	102
persons searching	426	97	503	101	48	114	1	978	99
searching persons in rubbles	26	49	12	55	0	x	0	38	51
searching and rescue of persons from water	142	107	73	130	0	0	6	221	115
extrication of persons from depth	129	85	40	98	3	60	1	173	88
extrication of persons at heights	109	117	18	129	1	13	0	128	109
extrication of persons from crashed vehicles	1 250	95	280	87	43	139	2	1 575	94
extrication of persons from lifts	1 222	97	57	86	95	78	8	1 382	95
extrication of persons from collapsed buildings	10	59	4	67	0	0	0	14	58
transport of patients	8 955	107	2 453	115	518	102	49	11 975	108
rescue of persons - another	4 031	103	492	110	74	151	3	4 600	104
pre-medical treatment	5 511	104	1 766	100	531	116	70	7 878	103

Activity type	FRS CR		Municipal VFU		Enterprises FRS		Enterprises VFU and others	Total	
	Number	Index %	Number	Index %	Number	Index %		Number	Index %
use of defibrillator (AED)	266	118	251	122	10	x	0	527	123
cooperation in medical treatment of patient	4 493	98	1 206	110	89	113	4	5 792	100
extrication of material	492	90	207	99	36	150	2	737	94
capture of animals including searching	1 011	100	344	114	59	120	3	1 417	104
capture and elimination of insects	2 705	78	2 092	86	106	88	13	4 916	81
evacuation of inhabitants from objects	472	109	225	155	201	118	1	899	120
evacuation of inhabitants - areal	31	79	48	300	26	124	1	106	138
evacuation of material	203	79	212	75	7	233	2	424	78
evacuation of animals, rescue of animals	619	95	283	111	15	94	1	918	99
establishment and providing operation in evacuation center	4	80	12	x	0	x	0	16	320
marking of dangerous areas	497	99	211	101	21	150	3	732	101
decontamination of persons, incl. firefighters	27	34	3	43	7	140	0	37	40
decontamination of equipment	23	32	8	267	13	217	1	45	56
floods - preparedness measures	35	233	111	168	1	100	0	147	179
floods - elimination of after-effect	119	180	441	185	3	75	0	563	183
getting cover into work	0	x	1	50	0	x	0	1	50
transport of drinking water, food and articles for survival	37	71	50	68	5	100	0	92	70
dispensing and distribution of drinking water and food	89	83	49	74	15	300	0	153	86
providing of technical equipment for IRS bodies	339	98	63	88	8	53	0	410	94
logistics	191	85	171	96	4	100	0	366	90
water streams monitoring	175	116	204	182	6	100	1	386	143
waiting for special services	1 650	95	316	89	212	110	2	2 180	95
taking pictures, videos	23 078	103	3 322	109	2 945	119	6	29 351	105
use of thermal imaging camera	6 570	103	1 050	140	443	155	1	8 064	109
standby on the place of intervention	2 326	95	5 363	90	204	85	11	7 904	91
standby on own fire station	12	40	908	82	1	25	1	922	81
standby on the fire station	322	95	810	69	1	33	2	1 135	75
others	5 079	94	1 829	101	810	126	13	7 731	98
fire unit didn't intervene (call off on the way to accident)	4 130	105	2 501	116	222	121	4	6 857	109
<b>Total</b>	<b>317 340</b>	<b>99</b>	<b>135 272</b>	<b>103</b>	<b>23 356</b>	<b>112</b>	<b>1 387</b>	<b>477 355</b>	<b>101</b>

#### Incidents with intervention of military fire units

	2015	2016	2017	2018	2019	Index %
Fires under MoD area	198	187	136	180	173	96
losses (thousands CZK)	2 794,0	1 410,0	300,0	2 973,8	19 825,3	667
salvaged values (thousands CZK)	125 429,0	39 960,0	10 092,0	46 574,6	102 444,2	220
Fires outside the MoD area	19	29	14	34	17	50
Technical assistances under MoD area	5 703	3 490	5 657	4 922	5 334	108
Technical assistances outside the area of MoD	18	10	28	51	40	78

Under the Act No. 133/1985 Coll. on fire protection, as amended, fire supervision under the MoD area of responsibility is provided by fire protection bodies of the MoD in accordance with § 85a. Military Fire Supervision body provides fire supervision of military objects, units and in institutions established by legal entities or by MoD in extent of § 31 (The act No. 133/1985 Coll. on Fire Protection, as amended). Military Fire Supervision body has 6 employees. Military fire units operate as enterprises FRS units according to § 65 a No. 133/1985 Coll. on Fire Protection, as amended. The number of military fire units station in the Czech Army is in total 16 with 24 hours/day duty. Three Military fire units with 8hours shift can be used for assistance in emergencies to support Integrated Rescue System. The number of firefighters in military fire units is in total 578.



**Selected fires with loss of 10 million CZK and higher, selected emergencies in the 3<sup>rd</sup> stage and special stage of alert**

Region	Date	Description (type of the event, place and detailed information)
Capital of Prague	25. 2.	fire of industrial storage hall, Praha-Michle, area of 2 000 m <sup>2</sup> , taking down the constructions, intervention of chemical service unit, intervention at height and depths, use of high-pressure water fog, water ray cutting, shuttle water transport, use of material assistance of Czech Red Cross
	10. 4.	fire of sports hall, Praha-Smíchov, spreading of fire in the ceiling, taking down the constructions, use of fire extinguishers, use of high-pressure water fog, extinguishing by special technical means and extinguishers, intervention of chemical service unit
Central Bohemia	22. 3.	fire of family house, Zápy, Praha-East, taking down the constructions, hidden fire sources, intervention at height and depths, shuttle water transport
	19. 4.	grass fire, Libčice nad Vltavou, Praha-West, inaccessible terrain, area of 10 hectares, intervention was complicated due to strong wind, use of simple extinguishing means, extinguishing by special technical means and extinguishers, means and forces of FRS of Capital of Prague, aerial extinguishing, intervention at height with climbing equipment, intervention at height and depths, shuttle water transport, 1 firefighter injured, 7 days long intervention
	20. 4.	fire of kindergarden and shopping centre, Říčany, Prague-East, presence of solar panels, taking down the constructions, hidden fire sources, collapse of ceiling, intervention at height and depths, 1 firefighter injured
	25. 4.	fire of family house, Poděbrady-Nymburk, fire spread on neighbouring restaurant and pension, non-functional hydrant's network, taking down the constructions, hidden fire sources, shuttle water transport
	18. 6.	fire of pallets storage, Mladá Boleslav-Bezděčín, taking down the constructions, use of medium and low expansion foam, shuttle water transport, 1 firefighter injured
	27. 6.	fire of the storage with floor covering, Kostomlaty nad Labem-Nymburk, taking down the constructions, shuttle water transport, preventive measure - lower speed on the neighbouring railway
	16. 7.	fire of storage hall of electrowaste, Tursko, Praha-West, explosion of accumulators, taking down the constructions, means and forces of Emergency unit of FRS CR and FRS of Capital of Prague, intervention of chemical laboratory Kamenice, extinguishing by special technical means, use of soaking agent, intervention at height and depths, water shuttle transport, 1 firefighter injured, 1 policeman injured, use of material assistance of Czech Red Cross
	26. 7.	fire of field, Vlačice-Kutná Hora, area of 52 hectares, intervention was complicated due to strong wind, use of simple extinguishing means, means and forces of FRS Pardubice region and FRS of Vysočina region, extinguishing with specific technical means and extinguishers, shuttle water transport
	20. 8.	fire of family house, Černošice, Praha-West, inappropriate boarding area, fumed area and toxic gaseous substances present, taking down the constructions, means and forces of FRS of Capital of Prague, shuttle water transport, use of material assistance of Czech Red Cross
	South Bohemia	26. 4.
11. 5.		fire of community centre, Budeš-Jindřichův Hradec, fumed area and toxic gaseous substances present, cylinders present, taking down the constructions, means and forces of Emergency unit of FRS CR for removing the dangerous condition of the building, means and forces of FRS of Vysočina region, intervention at height and depths, use of soaking agent, shuttle water transport, 2 days long intervention, finding out of shortage in fire documentation
29. 5.		fire of four lorries and production hall, Planá nad Lužnicí-Tábor, forced entry into the compound of the firm, cylinders present, explosion of car tyres affected by fire, hidden fire sources, use of low expansion foam, shuttle water transport
3. 10.		fire of block of flats, Lenora-Prachatice, gas explosion, danger of explosion or destruction, fumed area and toxic gaseous substances present, multiple fire source, taking down of constructions, cylinders present, means and forces of Emergency unit of FRS CR, use of soaking agent, intervention at height and depths, intervention at height with climbing equipment, extrication of persons from heights, searching for persons in the rubbles, shuttle water transport
11. 11.		fire of manufacturing machine, Větřní-Český Krumlov, employees tried to extinguish the fire before fire units arrived, fumed area and toxic gaseous substances present, use of low expansion foam
Plzeň	22. 4.	fire of family house, Hlavňovice-Horní Staňkov, Klatovy, fumed area and toxic gaseous substances present, intervention was complicated due to strong wind, fire spread on neighbouring family house and trees in the garden, taking down the constructions, hidden fire sources, intervention at height and depths, shuttle water transport
	22. 4.	forest fire, Chotíkov-Plzeň-North, area of 5 hectares, inaccessible terrain, multiple fire source, use of simple extinguishing means, hidden fire sources, means and forces of FRS of Capital of Prague, aerial extinguishing, Municipal Police and Police of the Czech Republic had to regulate undisciplined drivers and people that complicated work of helicopter bucket, use of soaking agent, shuttle water transport, 1 firefighter injured, 3 days long intervention
	12. 6.	fire of two barns, Chanovice-Dobrotice, Klatovy, fumed area and toxic gaseous substances present, cylinders present, farm animals in affected object, taking down the constructions, hidden fire sources, means and forces of FRS South Bohemia region, use of simple extinguishing means, protection of neighbouring objects, use of soaking agent, use of medium expansion foam, intervention at height and depths
	14. 8.	fire of two tractors and harvester, Měčín-Klatovy, fumed area and toxic gaseous substances present, taking down the constructions, use of medium and low expansion foam, protection of neighbouring objects, intervention at height and depths
	12. 10.	leakage of toxic substance into river, Plzeň-Doudlevice, coordination of process of IRS bodies and state authorities, leakage of stain with herbicides on fungus into river Úhlava, water supplying for sewage disposal plant and water treatment plant, means and forces of Emergency unit of FRS CR, monitoring of water stream, water pumping, shuttle water transport, 3 days long intervention
	14. 11.	fire of storage hall and stack of straw, Tymákov-Plzeň town, taking down the constructions, shuttle water transport, 6 days long intervention, fin-
Karlovy Vary	6. 4.	forest fire, Žlutice-Karlovy Vary, area of 3 hectares, use of simple extinguishing means, extinguishing by special technical means and extinguishers,
Ústí nad Labem	19. 1.	fire of truck in tunnel, Petrovice-Ústí nad Labem, affected also trailer truck and semi trailer, intervention at height and depths, use of low expansion foam
	9. 2.	fire of boiler room in glassworks, Bílina-Chudeřice, Teplice, explosion of cylinders with nitrogen, fuel oil leakage, presence of containers with oil, use of soaking agent and low expansion foam
	27. 3.	fire of industrial equipment, Chomutov, radiant heat, melting of flammable substances, danger of explosion or destruction, non-functional underground hydrant, poor cooperation with equipment staff, use of extinguishers, use of medium expansion foam, shuttle water transport, 1 firefighter injured, finding out of shortage in fire documentation

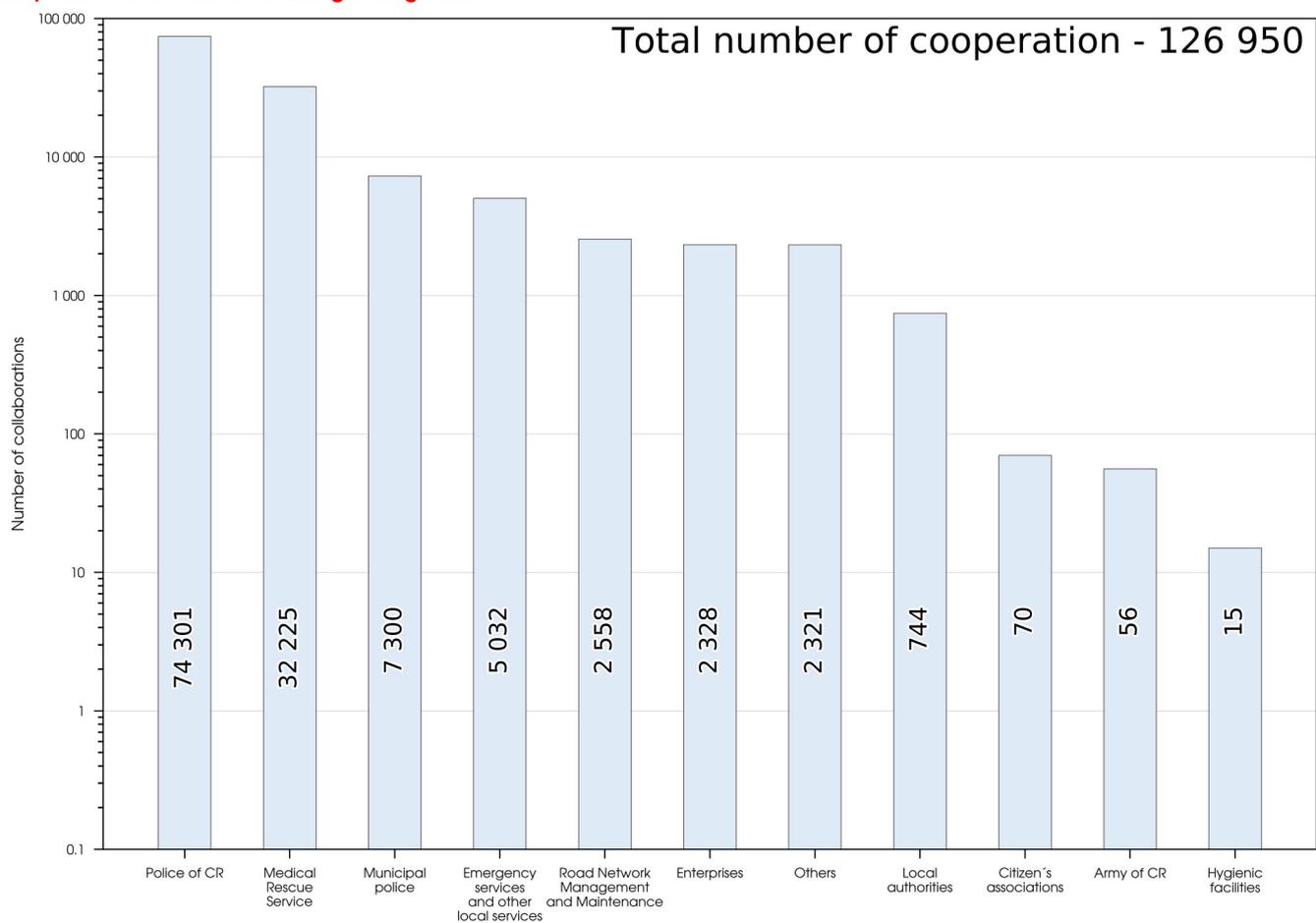
Cause	Number of fatalities	Number of injuries	Number of rescued or evacuated person	Loss (in million CZK)	Salvaged values (in million CZK)	Number of fire units	Stage of alert
deliberate ignition				100,0	50,0	37	3.
under investigation				15,0	10,0	9	2.
technical failure of wiring				22,0	0,3	7	2.
technical failure, fly off of spark		1				24	3.
technical failure of wiring		1		12,0	100,0	14	2.
unproven fault			4	12,5	17,0	10	2.
negligence, smoking		1		10,0	20,0	10	2.
under investigation				10,0	2,0	13	2.
technical failure, short circuit of accumulator		2		5,5	60,0	27	3.
unproven fault				2,5	0,8	18	3.
unproven fault				20,0	5,0	14	2.
technical failure, mechanical spark		1		30,0	20,0	9	3.
negligence, negligence of security guidelines				10,0	10,0	12	3.
deliberate ignition				15,0	100,0	4	1.
deliberate ignition	1	9	47	12,0	0,5	9	3.
technical failure, friction and overheating				10,0	15,0	4	1.
false construction of chimney				1,1	1,0	11	3.
unproven fault		1		0,9	1,5	23	3.
negligence, children game				3,0	1,0	17	special
technical failure of catalytic converter				10,8	15,0	4	1.
						26	special
self ignitions, agriculture crops				2,0	20,0	18	3.
negligence, negligence of security guidelines						13	3.
technical failure of engine				19,0	100,0	2	1.
technical failure of electroengine pump				25,5	2 689,0	4	1.
technical failure of heater of production unit		1		11,0	3,0	4	1.

**Selected fires with loss of 10 million CZK and higher, selected emergencies in the 3<sup>rd</sup> stage and special stage of alert**

Region	Date	Description (type of the event, place and detailed information)
Ústí nad Labem	16. 4.	forest fire, Krupka-Teplice, area of 4.5 hectares, use of simple extinguishing means, hidden fire sources, use of soaking agent, shuttle water transport
	22. 6.	fire of smelting furnace, Louka u Litvínova-Most, pouring of magnesium alloy, employees tried to extinguish the fire before fire units arrived, taking down the constructions, use of simple extinguishing means, 3 days long intervention
	5. 7.	field fire, Lipno-Lipenec, Louny, area of 200 hectares, multiple fire source, use of simple extinguishing means, means and forces of FRS Central Bohemia region, monitoring from helicopter, use of soaking agent, shuttle water transport
	29. 8.	fire of storage hall of polyamide fibres, Lovosice-Litoměřice, fumed area and toxic gaseous substances present, lacking hydrant net, radiant heat and melting of flammable substances, danger of explosion or destruction, taking down the constructions, use of low expansion foam, intervention at height and depths, shuttle water transport, 6 firefighters injured, finding out of shortage in fire documentation
	1. 12.	fire of dump waste, Čížkovice-Želechovice, Litoměřice, area of 50x50 m in the depth of 20 m, fumed area and toxic gaseous substances present, spreading of waste and water pouring, hidden fire sources, means and forces of Emergency unit of FRS CR, intervention of chemical laboratory Třemošná, shuttle water transport, 1 firefighter injured, 3 days long intervention
Liberec	8. 5.	forest fire, Tanvald-Jablonec nad Nisou, inaccessible terrain, intervention was complicated due to strong wind, use of simple extinguishing means, hidden fire sources, shuttle water transport
	29. 6.	fire of dump, Frýdlant-Větrov, Liberec, forced entry into company, hidden fire sources, means and forces of FRS Central Bohemia region, intervention of chemical laboratory Kamenice, use of soaking agent, shuttle water transport, intervention of fire unit from Poland
	30. 8.	forest fire, Noviny pod Ralskem-Česká Lípa, inaccessible rocky terrain by the castle Ralsko, intervention interrupted overnight, water shortage, intervention was complicated due to high temperature, use of simple extinguishing means, means and forces of FRS of Capital of Prague, aerial extinguishing, intervention at height with climbing equipment, shuttle water transport
	19. 9.	fire of waste dump, Liberec-Horní Růžodol, improper departure area, fumed area and toxic gaseous substances present, improper intervention or evacuation ways, lack of special firefighting equipment, taking down the constructions, use of CCS Cobra, means and forces of Emergency unit of FRS CR, means and forces of FRS Central Bohemia region, intervention of chemical laboratory Kamenice, use of soaking agent, shuttle water transport
Pardubice	3. 6.	fire of high-rise block, Česká Třebová-Ústí nad Orlicí, intervention was complicated due to strong wind, radiant heat and melting of flammable material, multiple fire source, fumed area and toxic gaseous substances present, physically hard climbing on the roof, taking down the constructions, use of simple extinguishing means, intervention at height and depths, use of low expansion foam, 2 firefighters injured, finding out of shortage in fire documentation
	22. 6.	fire of hay pile, Rohovládova Bělá-Pardubice, means and forces of FRS Hradec Králové region, use of soaking agent, shuttle water transport, controlled burning down, 3 days long intervention, finding out of shortage in fire documentation, use of personal assistance
	25. 7.	forest fire, Dolní Morava-Horní Morava, Ústí nad Orlicí, inaccessible terrain, undisciplined tourists drove with cars into fire place, means and forces of FRS South Moravian region, aerial extinguishing, extinguishing by special technical means, use of soaking agent, intervention of two fire units from Poland, shuttle water transport, 1 firefighter injured
South Moravian	1. 4.	forest fire, Blansko-Žilavice, area of 2 hectares, use of simple extinguishing means, use of soaking agent, shuttle water transport
	27. 10.	fire of storage hall, Ivančice, Brno-country, locked gate and unavailability of security staff of area, fire spread on neighbouring objects and buses, taking down the constructions, use of CCS Cobra, use of simple extinguishing means, means and forces of Emergency unit of FRS CR, intervention of chemical laboratory Tišnov, mobile operational container placed on site, use of soaking agent, use of medium expansion foam, intervention at height and depths, shuttle water transport
Olomouc	13. 3.	fire of technology for medicaments production, Olomouc-Holice, employee tried to extinguish the fire before fire units arrived, use of foam, use of over pressure ventilation, presence of barrels with cyclohexane
	2. 4.	forest fire, Potštát-Lipná, Přerov, area of 2 hectares, intervention was complicated due to strong wind, means and forces of FRS of Moravian-Silesian region, use of simple extinguishing means, aerial extinguishing, extinguishing by special technical means and extinguishers, use of soaking agent, shuttle water transport
	6. 4.	fire of assembly hall, Přerov, explosion of cylinders, disruption of object static, taking down the constructions, hidden fire sources, means and forces of Emergency unit of FRS CR, protection of neighbouring objects, intervention at height and depths, shuttle water transport
	15. 6.	forest fire, Libavá-Olomouc, army area, area of 9 hectares, inaccessible terrain, multiple fire source, use of simple extinguishing means, use of soaking agent, shuttle water transport, 2 days long intervention
Zlín	6. 3.	forest fire, Podolí-Vsetín, area of 9 hectares, inaccessible terrain, intervention was complicated due to strong wind, multiple fire source, use of simple extinguishing means, shuttle water transport, 1 firefighter injured, finding out of shortage in fire documentation
	29. 3.	forest fire, Rudimov-Zlín, inaccessible terrain, fumed area and toxic gaseous substances present, means and forces of Emergency unit of FRS CR, use of simple extinguishing means, means and forces of FRS of Moravian-Silesian region, aerial extinguishing, shuttle water transport, finding out of shortage in fire documentation
	14. 11.	fire of storage and production hall, Kunovice-Uherské Hradiště, production of fibreglass, presence of resin, peroxides and cork, taking down the constructions, hidden fire sources, flashover, use of extinguishers, use of low expansion foam, shuttle water transport
Moravian-Silesian	7. 6.	fire of workshop with four tractors, forklift trucks and spreader machine, Holasovice-Loděnice, Opava, cylinders present and oil farm, hidden
	13. 4.	fire of guesthouse, Písek, Frýdek-Místek, taking down the constructions, cylinders present, stabilisation of disrupted construction of the building, use of low expansion foam, intervention at height and depths, shuttle water transport, use of personal assistance
	15. 6.	fire of eight buses, Ostrava-Slezská Ostrava, buses with Compressed Natural Gas drive, cylinders present, 1 firefighter injured
	17. 6.	fire of furniture manufacturing, Milíkov, Frýdek-Místek, taking down the constructions, intervention at height and depths, shuttle water transport, reburning
	19. 8.	fire of five lorries, Staříč-Frýdek-Místek, explosion of tires, tanks and pressure containers, protection of neighbouring objects, use of low expansion foam, shuttle water transport

Cause	Number of fatalities	Number of injuries	Number of rescued or evacuated person	Loss (in milion CZK)	Salvaged values (in million CZK)	Number of fire units	Stage of alert
deliberate ignition				0,2	0,1	18	special
technical failure, burning materials and products				26,0	52,0	5	1.
technical failure of harvester				0,6	1,0	19	3.
technical failure of wiring		7	1	34,1	150,0	14	3.
self ignitions, chemical products	1					43	3.
deliberate ignition				0,5	0,5	17	special
unproven fault					0,5	10	3
unproven fault					0,5	20	special
unclear					15,0	13	3.
negligence, welding and cutting		2	42	3,0	10,0	19	3.
negligence, negligence of security guidelines				1,0	1,5	11	3.
negligence, smoking		1		0,1	10,0	17	3.
unclear				0,1	1,0	10	3.
negligence, negligence of security guidelines				4,6	8,4	29	3.
technical failure, discharge of static electricity				24,0	84,0	1	1.
negligence, setting fires in the nature				0,5	1,5	18	3.
technical failure				11,2	5,0	9	2.
unexamined						29	3.
negligence, negligence of security guidelines		1		0,1	0,5	22	special
negligence, setting fires in the nature				0,3	10,0	22	3.
negligence, welding and cutting				50,0	100,0	9	2.
technical failure of accumulator				16,0	4,0	10	2.
unclear				27,0	2,0	13	2.
under investigation		1		26,8	17,8	7	2.
bad condition of chimney, sparks and soot ignition				21,0	5,0	12	1.
technical failure				14,0	20,0	6	1.

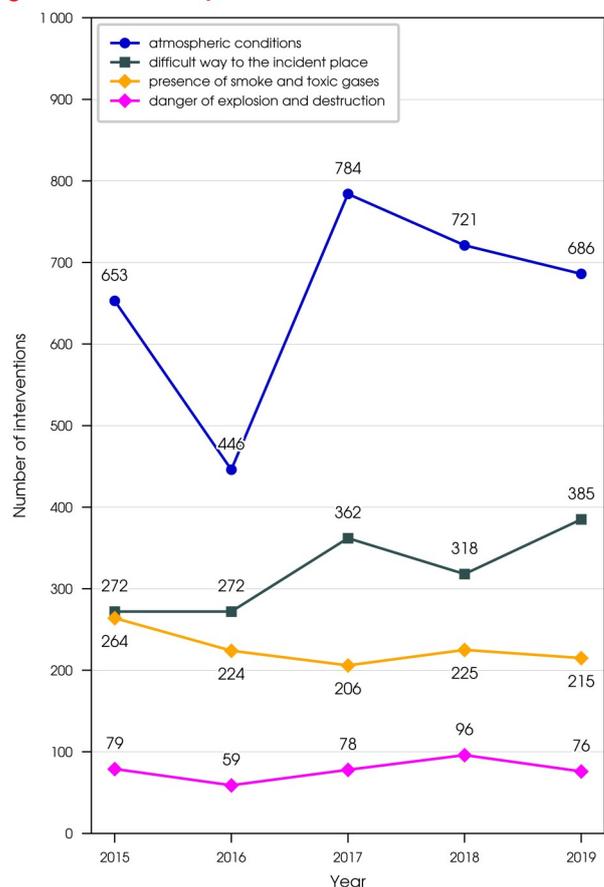
## Cooperation of the fire units during emergencies



## Negative influences by the interventions

Type	Number	Index %
<b>Late arrival of fire units</b>		
malfunction of fire report office	8	100
failure of communication means	143	105
late reporting after noticing	6	50
late alarm declaring after reporting	14	200
late departure/response after alarm declaring	61	73
difficult road access to the spot of intervention	385	121
vehicle malfunction on the road	11	110
requested local fire unit did not depart to fire	71	91
late request of auxiliary fire units	3	150
others	46	115
<b>Firefighting conditions</b>		
lack of resources	10	250
lack of basic firefighting equipment	5	50
lack of special firefighting equipment	6	46
lack of water	15	63
lack of other firefighting means/agens	3	150
lack of protective equipment	7	117
firefighting equipment failure	74	121
incorrect deployment of firefighting forces and means	5	500
inaccurate cooperation with owner/user	40	143
others	8	200
<b>Intervention impeding circumstances</b>		
fume and presence of gaseous toxic substances	215	96
radiant heat, melting of flammable substances	49	111
electric current turned on	26	90
explosion or destruction danger	76	79
improper departure area	34	85
improper intervention or evacuation ways	51	78
temperature below -10 °C	21	21
other influences of atmospheric conditions	665	107
negative influence of technological disposition	6	100
others	32	73

## Negative influences by the interventions



## Selected exercises of the IRS bodies in 2019

### **Tactical exercise of IRS components with the theme of train fire in the railway tunnel, Votice, Central Bohemian Region, 24 September 2019**

The theme of the exercise was a train accident with the subsequent fire of the engine part of the train in the Votice tunnel. At the time of the accident, there were 51 passengers inside the train.

From the basic components of the IRS, that participated in the exercise, were FRS units from Benešov, Sedlčany, Railway firefighters of the Capital of Prague, voluntary units from Votice, Olbramovice, Vrchotovy Janovice, Bystřice, Jankov, Neveklov, Čerčany and Miličín with 62 professional and volunteer firefighters. In total 28 persons were deployed from the Police of the Czech Republic, Medical Rescue Service, Municipal Police of Votice and the municipality of Votice. 51 civil persons and 90 interveners participated in the exercise. The exercise took place during the night when there was no traffic on the railway line between České Budějovice – Prague. Despite the difficult conditions of the tunnel intervention, the exercise was evaluated as successful and all tasks were fulfilled.

### **Tactical exercise of IRS components “Rock concert 2019”, Brno, South Moravian Region, 2 April 2019**

In cooperation with the basic IRS components and other entities, a tactical IRS exercise called "Rock Concert 2019" was held at the Brno Exhibition Centre on 2 April, from 7:00 p.m. to midnight. The aim of the exercise was to unify the activities of IRS bodies and involved entities during the rescue works during the cultural event with a larger number of visitors. In order to have the conditions as close as possible to the real situation, a real rock band performed and 800 visitors participated. The main source of danger was fire that caused a panic in the audience and 35 people were injured. The tactical exercise practiced procedures of rescue activities during the emergency with large number of people and subsequently their evacuation. Tasks set out according to the plan of tactical exercise of the IRS were fulfilled. 49 firefighters, 78 members of the Police of the Czech Republic, 35 members of Medical Rescue Service of the South Moravian Region, 8 police officers of the Brno City Police and 130 employees of St. Anne's University Hospital in Brno, where the injured people were transported, were involved in the exercise.

### **Tactical exercise of IRS components “Jail Liberec 2019”, Rynoltice, Liberec Region, 12 April 2019**

The theme of the exercise was a car accident involving an escort bus with prisoners and its subsequent fire. Parking lot along the road I/13 from Rynoltice to Bílý Kostel was chosen as a place of the exercise. In the simulated accident, prisoners were injured. The main task was to provide immediate first aid, extrication of stuck persons from the bus, triage of injured people according to the seriousness of their health condition

and subsequent transport to the Regional Hospital in Liberec. Because of the situation, 6 prisoners escaped. The intervention of the IRS components was coordinated in several sections. The Police ensured the closure of the road and traffic control in the adjacent I/13 lane, coordination of the IRS vehicles arriving on the place of the accident and departure of the Medical Rescue Service vehicles of the Liberec Region in the direction of Liberec. The Medical Rescue Service of the Liberec region set up a place for triage of injured people and subsequently their transport to the Liberec Regional Hospital. Fire Rescue units carried out extinguishing and subsequent rescue of persons from the bus. Armed patrols of the Police of the Czech Republic, the Prison Service of the Czech Republic and dog handlers carried out searching and detention of escaped prisoners in the nearby forest. The tactical exercise was finished after the transport of all participants of the traffic accident to the Regional Hospital in Liberec.

### **Tactical exercise of IRS components “a highly contagious disease of the MERS type”, Kostelany nad Moravou, Zlín region, 25 June 2019**

The theme of the exercise was arrival of a woman with symptoms of a highly contagious disease in the general practitioner's office. The aim of the exercise was to verify the procedure and tactics of the IRS components and the Regional Hygiene Station in a joint intervention, to determine the extent and level of cooperation of all participants and to verify the activities of the intervention commander staff. Another important objective was to verify the equipment of the IRS components with personal protective equipment and the possibility of decontamination of persons who met the infected person. The guideline for the preparation and execution of the exercise was the Set of Standards - Type Activity of IRS Components during Joint Intervention. Particularly 16A / IRS – “An extraordinary event with a suspicion of the occurrence of a highly contagious disease in a medical facility or other premises”. In this exercise participated units of the Fire Rescue Service of the Zlín Region, Biohazard team of the Medical Rescue Service of the Zlín Region, the Police of the Czech Republic and the Customs Office of the Zlín Region. The main task was to set up a decontamination station and assistance with the transportation of the bio-bag to the ambulance, followed by transport to a medical facility. The exercise proved that IRS components are able to cooperate effectively in dealing with such a serious emergency. However, it was shown that joint training is also needed. It was proposed to make the intervention more effective, in particular by acquiring more modern means for decontamination and expanding the filter-ventilation systems to more number of Fire and Rescue units in Zlín Region. In the last phase of the exercise was discussed, how to communicate with patients in this situation and prevent panic and unexpected behaviour.

## International exercises of the IRS bodies in 2019

The MoI-DG FRS CR focuses on the practical international cooperation of experts from the FRS CR and the rescue teams of the FRS CR, which are predetermined for the dealing with the emergencies and disasters in the international environment.

In this area, the international exercises in the framework of the EU Civil Protection Mechanism and United Nations are the most used for the training of its members and further exercises co-funded by Regional Authority projects.

Under the auspices of the MoI-DG FRS CR, 6 members of the FRS CR participated in a total of 8 international EU exercises in the role of expert teams, observers or organ-

izers of the exercises in 2019.

In addition to the above-mentioned experts, the MoI-DG FRS CR has deployed 3 rescue teams to 3 international tactical exercises and 12 members of the teams were deployed to 5 command post exercises.

The United Nations, the Secretariat for the Coordination of Humanitarian Affairs and its International Search and Rescue Advisory Group (INSARAG) is important partner for the cooperation and enhancement of the preparedness of experts of the FRS CR. Within this cooperation, 10 members of the FRS CR participated in international exercises.

## Selected international exercises of the IRS bodies

### Exercise EU MODEX 2019, Italy, Poggioreale

The EU MODEX Italy 2019 exercise was held in central part of Sicily, Italy, from 16 to 19 July, in the same location where a real earthquake was in the past.

The Mol-DG FRS CR dispatched medium USAR team consisting of members of the FRS of the Capital of Prague, accompanied by a member of the FRS of the Moravian-Silesian region, dog handlers of the FRS CR, doctors from Trauma Hospital Brno and others IRS units. Transportation was ensured by air to the area of the exercise. The exercise scenario took place in the real earthquake-affected buildings, which have remained there as a memento of a real earthquake.

Teams from Great Britain, France, Morocco, Israel and Italy also participated in the exercise.

### Exercise WASAR 2019, Jastrzebie, Poland

An international exercise was held in Jastrzebie, Poland, from 15 to 18 April 2019 and it was focused on rescuing people during floods. The team for the search and rescue of persons from the water surface (WASAR), consisting of members of the FRS of the Moravian-Silesian Region participated in this exercise. The team exercised searching and rescuing of people on a calm and wild water surface, as well as evacuation of endangered people or towing broken boats. The Polish professional firefighters, dog handlers with specially trained dogs and the Polish army intensively participated in this exercise. During this exercise, the team rescued about 100 people.

### Exercise „Orkán 2019”, Olomouc, Czech Republic

An international exercise in the frame of transboundary cooperation with Poland, took place in Jeseník region from 10

to 12 June. The theme of the exercise was a situation when strong winds in the northern part of the Olomouc Region caused a lot of damage in a forest and also in a populated area. At the same time, strong winds were accompanied by torrential rainfall, which caused local floods and on some of the reporting profiles, the third level of flood activity was exceeded. During the first day, the crisis management bodies exercised at the level of the permanent working groups of the Crisis Staff of Olomouc Region, Jeseník district and FRS of the Olomouc Region.

During the second day, activities of the Fire Rescue Service of the Olomouc Region and the Commander of the intervention were focused on rescuing a person from the water-course, removing of consequences of strong winds, setting up an evacuation centre and preparing emergency water supplies.

The last day of the exercise, a tactical international exercise of IRS components was held. A training of activities to save missing persons was its first part. The searching activities took place on the state border with Poland. In the second part of the exercise, which took place in the village Ondřejovice, stabilization of the damaged building in cooperation with the USAR team of the FRS of the Moravian-Silesian Region and rescue of a buried person under the rubbles by a suction dredger was carried out. In the last part of the exercise, which took place in the former gold mine, rescue of people from underground area was carried out in cooperation with the Main Mining Rescue Station and the Mountain Rescue Service of the Jeseníky. In the Exercise Orkán 2019 260 persons, 80 fire engines and 40 other subjects participated.

## Emergency calls

Emergency call is the most frequent way how to call for assistance or how to notify about information important for public safety. Emergency call works:

- continuously,
- for all citizens,
- throughout the territory,
- free of charge,
- in all telephone networks,
- and from any voice terminal equipment of telephone networks.

Citizens are used to this kind of call for help, and with the development of mobile telephony, emergency call has become constantly available. Emergency call is a service of the state, which provides protection of basic human rights – to protect life, health and property. Pursuant to information from an emergency call, the IRS bodies begin its activities; especially they deploy units to the spot of reported emergency situation.

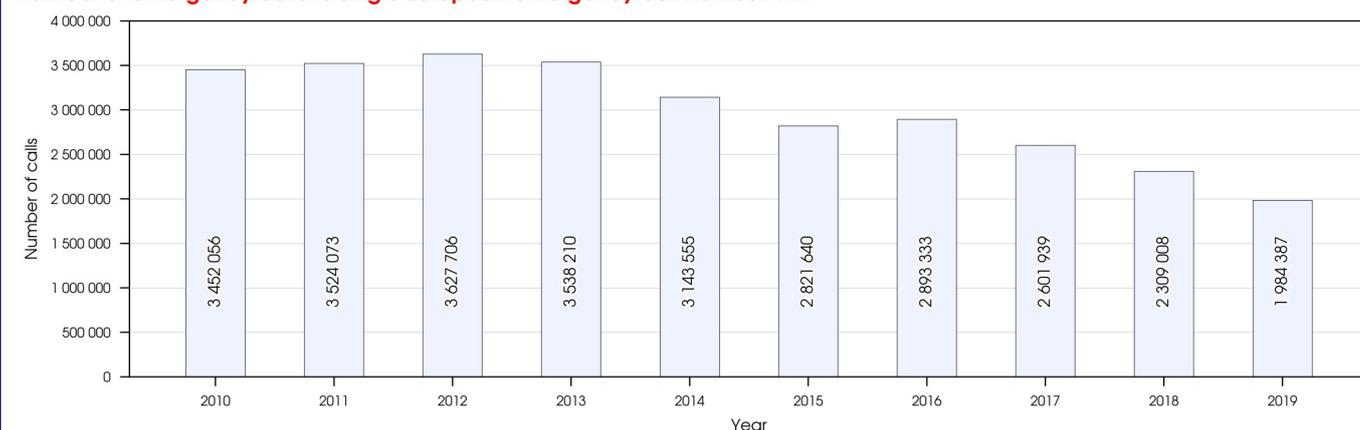
This information is transmitted electronically as „data messages“ to the operational centres of the IRS bodies.

FRS CR receives emergency calls to national emergency call number 150 and to single European emergency call number 112. FRS CR operates advanced nationwide telecommunications technology dislocated in 14 regional call centres to receive emergency calls.

Single European emergency call number 112 can be reached free of charge with fixed and mobile devices in all EU Member States and also in several non-EU states - Montenegro, Norway, Liechtenstein, Island and Turkey. In the Czech Republic, 112 emergency number is operated alongside with national emergency call numbers.

In 2019, the total number of 2 298 681 calls were received by FRS CR, from which 1 984 387 calls to single European number 112 and 314 294 calls to national number 150.

Number of emergency calls to single European emergency call number 112



# Fires

## Basic indicators

Indicator	Value
Number of fires	18 813
Losses (CZK)	2 216 302 200
Salvaged values (CZK)	12 352 214 400
Fatalities in direct context	94
Total fatalities	128
Injuries	1 388

Firefighters rescued 1,338 persons in fire intervention and 8,511 persons were evacuated.

Number of fatalities includes persons who were found death on place of fire and who didn't die as a consequence of fire, it was in total 34 people.

The summary shows, that 52 fires per day with losses of 6.1 million CZK occurred in average in the Czech Republic in 2019. Early intervention has salvaged values of 33.8 million CZK per day.

Salvaged values were 5.6 times higher than direct losses (by early intervention of fire units).

*Remark: Total number of fires includes 27 fires abroad (grass and forest cover, fields, family houses and agricultural objects).*

In 2019, in comparison to 2018, number of fires decreased by 9.2 %, losses decreased by 22.8 %. Total of 406 major fires (with losses over 1 million CZK), i.e. 2.2 % of all fires caused 69.1 % of overall losses. Number of fatalities increased by 28 % and number of injuries increased by 5.3 %.

## Fires - summary

Year	Number of fires	Losses in CZK	Salvaged values in CZK	Fatalities	Injuries
1996	21 539	1 345 497 700	8 418 267 000	118	1 037
1997	21 540	1 229 951 200	6 393 776 000	135	1 026
1998	24 041	1 902 566 000	6 925 493 000	96	1 123
1999	20 857	2 088 610 700	8 907 455 000	105	934
2000	20 919	1 426 340 200	6 584 192 000	100	975
<b>1996-2000</b>	<b>108 896</b>	<b>7 992 965 800</b>	<b>37 229 183 000</b>	<b>554</b>	<b>5 095</b>
2001	17 285	2 054 670 000	6 230 121 000	99	881
2002	19 132	3 731 915 000	6 251 751 000	109	942
2003	28 937	1 836 614 900	7 646 975 000	141	1 112
2004	21 191	1 669 305 100	6 977 363 000	126	918
2005	20 183	1 634 371 000	7 110 116 000	139	914
<b>2001-2005</b>	<b>106 728</b>	<b>10 926 876 000</b>	<b>34 216 326 000</b>	<b>614</b>	<b>4 767</b>
2006	20 262	1 933 991 700	9 182 541 000	144	919
2007	22 394	2 158 494 200	8 974 428 000	130	1 023
2008	20 946	3 277 297 400	14 545 693 000	142	1 109
2009	20 177	2 169 150 200	9 074 906 000	117	980
2010	17 937	1 956 159 200	11 115 762 000	131	1 060
<b>2006-2010</b>	<b>101 716</b>	<b>11 495 092 700</b>	<b>52 893 330 000</b>	<b>664</b>	<b>5 091</b>
2011	21 125	2 241 800 100	8 078 932 000	129	1 152
2012	20 492	2 861 527 700	10 637 936 000	125	1 286
2013	17 105	2 402 562 900	13 342 294 000	111	1 189
2014	17 388	2 198 327 400	11 533 643 000	114	1 179
2015	20 232	2 495 902 900	11 093 236 000	115	1 449
<b>2011-2015</b>	<b>96 342</b>	<b>12 200 121 000</b>	<b>54 686 041 000</b>	<b>594</b>	<b>6 255</b>
2016	16 253	3 378 246 000	11 654 305 900	124	1 291
2017	16 757	3 653 115 100	9 674 378 000	92	1 392
2018	20 720	2 870 476 400	10 865 969 600	100	1 466
2019	18 813	2 216 302 200	12 352 214 400	128	1 388

## Number of fires with loss 1 million CZK and higher

Year	Number			Loss in thousands CZK		
	Total in CR	Major fires	Share in %	Total in CR	Major fires	Share in %
2015	20 232	376	1,9	2 495 902,90	1 840 333,00	73,7
2016	16 253	332	2,0	3 378 246,00	2 801 118,90	82,9
2017	16 757	404	2,4	3 653 115,10	3 037 810,60	83,2
2018	20 720	450	2,2	2 870 476,40	2 189 795,00	76,3
2019	18 813	406	2,2	2 216 302,20	1 530 679,10	69,1

## Fatalities and injuries in fires

Category	2015		2016		2017		2018		2019		Index %	
	F	I	F <sup>1)</sup>	I	F <sup>2)</sup>	I						
Children under 15 years	4	98	2/3	103	2/3	95	4/5	103	4/4	99	80	96
Persons from 15 to 60 years	84	937	46/78	876	38/66	970	39/70	955	55/82	912	117	95
Persons over 60 years	27	172	36/43	130	17/22	140	20/25	155	35/41	160	164	103
Professional firefighters	0	153	0	106	1	111	0	129	1	109	x	84
Voluntary firefighters	0	89	0	76	0	76	0	124	0	108	x	87
<b>Total</b>	<b>115</b>	<b>1 449</b>	<b>84/124</b>	<b>1 291</b>	<b>57/92</b>	<b>1 392</b>	<b>63/100</b>	<b>1 466</b>	<b>94 / 128</b>	<b>1 388</b>	<b>139</b>	<b>95</b>

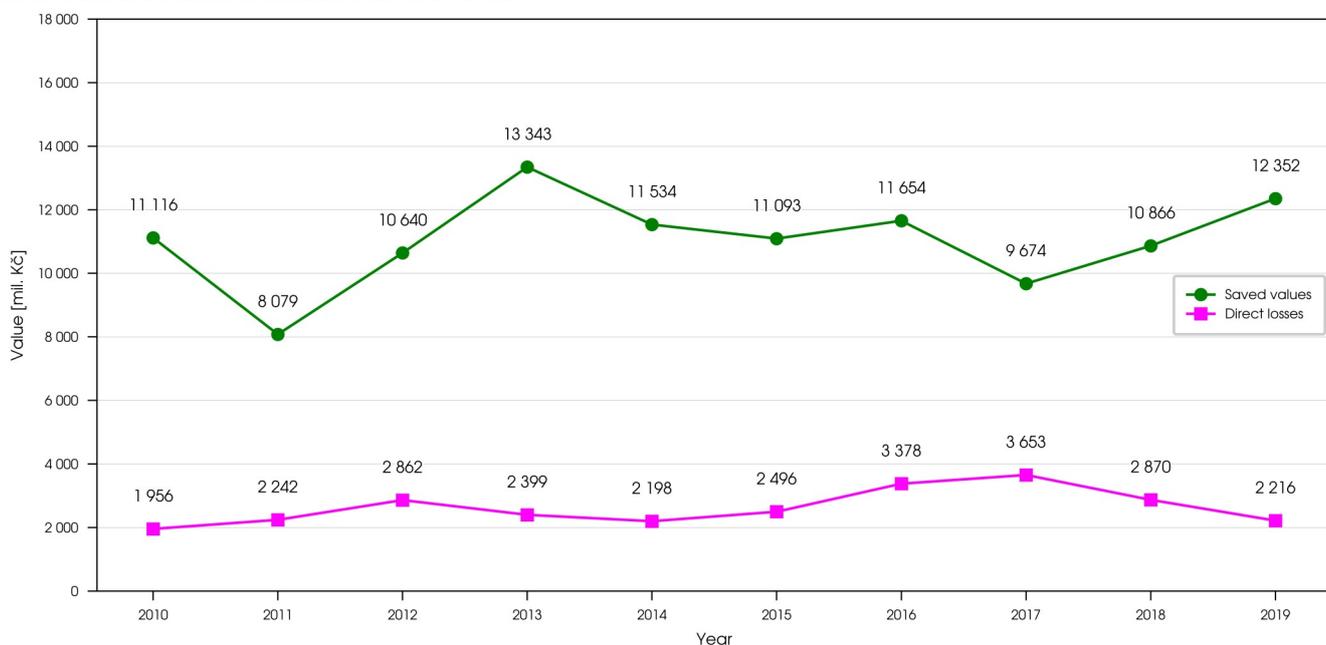
<sup>1)</sup> fatalities in direct context / total fatalities

<sup>2)</sup> from total number of fatalities

## Fires and losses by place of origin

Building, object	Number	Index %	Losses in mill. CZK	Index %	Salvaged values in mill. CZK	Fatalities		Injuries
						in direct context	total	
Civil buildings, incl. buildings for transport and lines	694	96	281,61	68	844,28	18	19	136
Housing funds	1 545	99	169,27	137	913,52	12	16	435
Family houses and other buildings for housing	1 606	91	341,03	111	1 247,20	29	31	291
Buildings and halls for production and services	342	95	317,68	52	3 298,09	1	2	56
Energetic production buildings	86	102	85,28	81	2 796,27	0	0	3
Buildings and objects for parking	124	97	74,42	62	202,99	2	2	23
Buildings for storage (excl. agricultural)	52	87	158,29	69	204,19	0	0	7
Buildings for storage of agricultural products	35	58	40,54	22	121,79	0	0	6
Buildings for arable and animal farming	36	72	16,65	37	100,49	1	1	4
Agricultural objects	8	67	7,56	82	7,03	0	0	6
Objects outside the buildings (excl. agricultural)	182	96	8,51	10	78,58	0	0	7
Objects under construction and reconstructions	41	132	18,32	440	44,61	1	1	7
Provisional and purpose objects at buildings	548	102	54,22	84	243,29	7	9	46
Means of transport and working machineries	2 206	98	518,06	112	1 111,89	6	29	205
Agricultural areas and natural environment	608	94	37,28	103	217,73	0	0	14
Forests	1 963	97	17,41	116	319,51	0	0	31
Open storage areas	2 954	78	17,65	130	105,34	4	4	28
Demolition and dumps	4 515	90	29,06	84	201,46	4	4	31
Others	1 268	90	23,47	255	293,97	9	10	52

## Direct losses and saved values connected with fires



## Fires - summary in branches

Economy branch	Number of fires	Share in %	Index %	Losses in thousands CZK	Share in %	Index %	Fatalities		Injuries
							in direct context	total	
Agriculture	2 440	12,97	79	182 555,50	8,24	66	2	2	50
Forestry	2 218	11,79	100	44 549,60	2,01	121	0	0	32
Mining of mineral	32	0,17	97	7 140,00	0,32	205	0	0	1
Manufacturing industry	739	3,93	89	487 941,30	22,02	64	1	2	70
Electricity and gas production and distribution	205	1,09	86	60 204,30	2,72	65	0	0	4
Building industry	109	0,58	83	17 209,80	0,78	118	1	1	11
Commerce, goods repair	148	0,79	81	150 662,80	6,80	121	0	0	14
Hospitality industry and accommodation	385	2,05	86	90 687,90	4,09	39	4	5	103
Transport	2 011	10,69	93	328 291,30	14,81	77	6	24	177
Post offices and telecommunications	14	0,07	70	100,00	0,00	0	0	0	1
Financial and insurance industry	3	0,02	50	53,00	0,00	12	0	0	0
Research, company services, real estates	281	1,49	69	50 074,80	2,26	78	0	0	54
Public administration, security	57	0,30	71	2 044,80	0,09	269	0	0	0
Education	49	0,26	140	14 289,30	0,64	812	0	0	8
Health care, social activity	55	0,29	90	9 627,70	0,43	138	1	1	6
Others public and personal services	4 300	22,86	91	101 057,50	4,56	46	8	8	51
Private households	5 046	26,82	94	622 839,90	28,10	114	66	76	778
Others and unclassified	721	3,83	102	46 972,70	2,12	447	5	9	28

## Fires causes and activities by the origin

Cause	Number of fires	Share in %	Index %	Direct losses in thousands CZK	Share in %	Fatalities		Injuries
						in direct context	total	
<b>deliberate ignition</b>	<b>1 069</b>	<b>5,68</b>	<b>93</b>	<b>234 256,40</b>	<b>10,57</b>	<b>2</b>	<b>4</b>	<b>80</b>
<b>suicidal intention</b>	<b>21</b>	<b>0,11</b>	<b>124</b>	<b>1 232,00</b>	<b>0,06</b>	<b>6</b>	<b>8</b>	<b>5</b>
<b>children up to 15 years</b>	<b>145</b>	<b>0,77</b>	<b>86</b>	<b>19 826,30</b>	<b>0,89</b>	<b>1</b>	<b>1</b>	<b>19</b>
<b>unproven fault</b>	<b>4 664</b>	<b>24,79</b>	<b>80</b>	<b>82 427,00</b>	<b>3,72</b>	<b>7</b>	<b>8</b>	<b>58</b>
smoking	1 402	7,45	82	60 786,60	2,74	15	15	103
setting a fire, burning off	1 968	10,46	114	9 980,90	0,45	2	2	24
incorrect heater operation	124	0,66	84	14 813,40	0,67	7	7	44
flammable substances near the heater	45	0,24	98	7 380,00	0,33	1	1	16
use of flammable liquids and gasses	58	0,31	84	5 639,20	0,25	2	2	50
use of open fire	256	1,36	104	33 191,40	1,50	8	8	76
manipulation with burning ashes	408	2,17	92	32 532,00	1,47	0	0	23
welding, cutting, defreezing	144	0,77	73	67 167,90	3,03	0	0	17
ignition of food by cooking	643	3,42	95	18 008,00	0,81	0	1	113
negligence of safety instructions	486	2,58	103	95 545,70	4,31	5	6	116
negligence, mistake, incorrect handling, unclassified negligence	411	2,18	118	30 278,10	1,37	11	12	36
<b>negligence - total</b>	<b>5 945</b>	<b>31,60</b>	<b>98</b>	<b>375 323,20</b>	<b>16,93</b>	<b>51</b>	<b>54</b>	<b>618</b>
improper constructure of the chimney	64	0,34	75	11 707,00	0,53	0	0	6
walled beam in the chimney	35	0,19	103	13 390,00	0,60	0	0	8
joints in the chimney	34	0,18	189	17 073,00	0,77	0	0	7
sparks from the chimney, soot ignition	878	4,67	94	42 738,80	1,93	0	0	18
<b>chimneys - total</b>	<b>1 011</b>	<b>5,37</b>	<b>94</b>	<b>84 908,80</b>	<b>3,83</b>	<b>0</b>	<b>0</b>	<b>39</b>
technical failure in heater	32	0,17	67	8 442,00	0,38	1	1	6
bad condition of heater or flue	15	0,08	63	911,00	0,04	0	0	3
improper placement or instalation of heater	50	0,27	83	23 341,00	1,05	0	0	5
other heater failure	11	0,06	110	5 902,00	0,27	0	0	0
<b>heaters - total</b>	<b>108</b>	<b>0,57</b>	<b>76</b>	<b>38 596,00</b>	<b>1,74</b>	<b>1</b>	<b>1</b>	<b>14</b>
technical failure	2 520	13,39	96	750 314,60	33,85	3	3	204
incorrect instalation	9	0,05	82	2 659,00	0,12	2	2	1
improper service	11	0,06	157	1 653,00	0,07	0	0	3
burning materials, products	36	0,19	73	32 045,80	1,45	0	0	0
foreign object in the machine	181	0,96	92	26 622,40	1,20	0	0	19
electricity static charge	9	0,05	75	26 900,00	1,21	0	0	0
sparks from the exhaust, brakes	116	0,62	66	1 557,10	0,07	0	0	7
rubbing, overheating	158	0,84	98	37 832,80	1,71	0	0	12
other changes in operational parameters	764	4,06	91	202 808,90	9,15	0	1	67
<b>technical failures - total</b>	<b>3 804</b>	<b>20,22</b>	<b>93</b>	<b>1 082 393,60</b>	<b>48,84</b>	<b>5</b>	<b>6</b>	<b>313</b>
self ignition of agricultural crops	140	0,74	98	11 949,10	0,54	0	0	5
self ignition of coal	27	0,14	104	707,00	0,03	0	0	3
self ignition of oils	7	0,04	78	649,20	0,03	0	0	2
self ignition of chemical substances	20	0,11	133	3 255,00	0,15	0	0	0
self ignition of chemical products	11	0,06	42	4 811,00	0,22	0	0	1
other self ignition (e.g. waste)	157	0,83	133	11 017,50	0,50	0	0	4
<b>self ignitions - total</b>	<b>362</b>	<b>1,92</b>	<b>107</b>	<b>32 388,80</b>	<b>1,46</b>	<b>0</b>	<b>0</b>	<b>15</b>
gas explosion	5	0,03	250	7 280,00	0,33	0	0	11
flammable liquids explosion	2	0,01	200	3 020,00	0,14	0	0	2
dust explosion	0	0,00	0	0,00	0,00	0	0	0
explosive detonation	3	0,02	x	200,00	0,01	0	0	1
cylinders, boilers explosion	1	0,01	x	50,00	0,00	0	0	0
<b>explosions - total</b>	<b>11</b>	<b>0,06</b>	<b>275</b>	<b>10 550,00</b>	<b>0,48</b>	<b>0</b>	<b>0</b>	<b>14</b>
<b>handling of flammable substances</b>	<b>4</b>	<b>0,02</b>	<b>31</b>	<b>530,00</b>	<b>0,02</b>	<b>0</b>	<b>0</b>	<b>1</b>
lightning - objects with conductor	4	0,02	100	1 985,00	0,09	0	0	1
lightning - objects without conductor	29	0,15	138	4 365,00	0,20	0	0	2
lightning - others	58	0,31	75	981,50	0,04	0	0	1
natural disaster	29	0,15	121	227,00	0,01	0	0	0
traffic accident	122	0,65	87	12 217,00	0,55	3	25	129
military exercise, fireworks	59	0,31	123	1 376,80	0,06	0	0	1
<b>special causes - total</b>	<b>301</b>	<b>1,60</b>	<b>96</b>	<b>21 152,30</b>	<b>0,95</b>	<b>3</b>	<b>25</b>	<b>134</b>
<b>unclear</b>	<b>1 094</b>	<b>5,82</b>	<b>91</b>	<b>76 833,80</b>	<b>3,47</b>	<b>2</b>	<b>3</b>	<b>36</b>
<b>under investigation</b>	<b>176</b>	<b>0,94</b>	<b>99</b>	<b>139 599,00</b>	<b>6,30</b>	<b>16</b>	<b>16</b>	<b>36</b>
<b>unexamined</b>	<b>98</b>	<b>0,52</b>	<b>82</b>	<b>16 285,00</b>	<b>0,73</b>	<b>0</b>	<b>2</b>	<b>6</b>
<b>causes - total</b>	<b>18 813</b>	<b>100,00</b>	<b>91</b>	<b>2 216 302,20</b>	<b>100,00</b>	<b>94</b>	<b>128</b>	<b>1 388</b>

# Prevention

## Survey of fire prevention of FRS CR

		2015	2016	2017	2018	2019	
Fire risk assessment	submitted	121	74	75	67	65	
	approved	78	50	56	54	47	
	all approved	689	713	656	702	711	
Acts preceding inspection		number	2 148	2 449	2 370	1 739	1 876
Inspection	legal entities and trading natural person	complex inspections	885	874	829	775	703
		thematic inspections	9 688	9 417	9 051	8 749	8 103
		control inspections	147	17	133	12	155
	natural person	complex inspections	0	0	0	0	0
		thematic inspections	10	6	3	22	7
		control inspections	1	0	0	0	0
	municipalities	inspections	371	574	578	454	482
in inspection group of other authority	inspections	24	18	23	45	91	
Administrative decision	on object exclusion of usage	number	18	22	11	23	13
	on business ban	number	24	28	19	16	15
	on shutdown	number	0	0	0	0	1
	on proper categorization	number	0	0	0	0	0
	on range and administration of documentation on fire protection	number	0	0	1	0	0
	on evaluation of fire risk	number	75	57	66	50	56
	other decisions	number	7	19	569	1 484	1 924
Structural prevention	issued statements	number	78 449	87 489	90 111	63 820	59 180
	territorial and structural management	number of invitation	19 964	20 830	19 540	16 501	9 758
		number of attendance	1 653	1 504	1 509	1 036	878
	instalattion building into the use	number of invitation	36 200	36 279	37 716	30 381	28 931
		number of attendance	31 844	32 112	33 786	26 405	25 720
cooperation out of range of fire supervision	number of disposed requests	804	969	1 369	2 187	2 577	
Other activities	disposed requests	number	11 299	18 954	13 439	13 490	10 280
Investigation of fire causes	fire documentation	number	9 499	8 227	7 939	8 869	8 700
	fire-technical expertise	number	521	537	476	469	451

Note: Differences between the sum of approved fire-risk evaluations and the item "All approved" is caused by the sequential revision fire-risk evaluations approved before the year 2001 and cancelling of fire-risk evaluations due to changes of company activity.

## Fires - the way of conclusion

	2015	2016	2017	2018	2019
unclassified, wasn't monitored	10 057	6 668	6 969	9 245	7 937
concluded by FRS region	1 193	1 281	1 439	1 935	1 671
discussed on the place of fire	1 374	1 355	1 203	818	1 136
postponed, stopped, another way of FRS region, Police of CR	5 370	4 845	4 955	5 706	5 083
postponed by Police of CR	628	572	616	853	808
concluded by the court	16	11	9	15	14
announced to others administration authorities	20	18	18	19	30
object exclusion of usage, business ban, shutdown	9	18	17	33	24
in investigation of Police of CR	1 565	1 485	1 531	2 096	2 110
<b>Total</b>	<b>20 232</b>	<b>16 253</b>	<b>16 757</b>	<b>20 720</b>	<b>18 813</b>

# International cooperation

## Humanitarian aid

Humanitarian in the Czech Republic aid is governed by Act No. 151/2010 Coll. on international development cooperation and humanitarian assistance abroad. Humanitarian assistance abroad is the set of activities financed from the national budget in order to prevent loss of life and injury, to alleviate suffering and to restore basic living conditions after an emergency and to mitigate long-lasting consequences of emergencies and to prevent their occurrence and negative consequences.

Humanitarian aid includes both ad hoc response to natural or man-made disasters, and aid in long-term (complex) humanitarian crises and disaster prevention.

State humanitarian aid to foreign countries is financed from funds allocated in the budget of the Ministry of Foreign Affairs.

Humanitarian aid provided abroad can be financed from this budget in particular: material, financial, advisory or combined.

According to Article 9 of Act No. 151/2010 Coll., on international development cooperation and humanitarian assistance abroad, the Ministry of the Interior provides humanitarian aid to EU member states and other states of the European Economic Area and decides on its scope and form.

In 2019, the sum of 218 million CZK was originally allocated to humanitarian assistance, during the year the budget was increased by another 28 million CZK for assistance to Syria and for the realization of the MEDEVAC programme at the Czech Embassies abroad. During the year 2019, 56 humanitarian activities in 26 countries were supported in the total amount of 245,28 million CZK.

As in previous years, the biggest part of the humanitarian budget (80%) was allocated for the needs of forced displaced people (both internally and in the third countries) mainly as a result of conflicts, including support to host communities; remaining 20% was allocated to immediate relief and disaster recovery.

In 2019, the Czech Republic provided humanitarian assistance to following countries: Afghanistan, Bosnia and Herzegovina, Ethiopia, Philippines, Indonesia, Iran, Pakistan, Yemen, South Sudan, Jordan, Cambodia, Lebanon, Mexico, Mozambique, Myanmar, Bangladesh, Greece, Sahel (Mali, Niger), Syria, Ukraine, Venezuela, Zambia, Iraq, Palestinian Autonomous Territories / Gaza.

In 2019, material assistance was provided to Iran and Greece, and an expert of the Fire Rescue Service of the Czech Republic was included in the

European Union Civil Protection Team, which was sent to Georgia.

Detailed information about humanitarian aid, not only in 2019 can be found on [www.usar.cz](http://www.usar.cz).

The allocated budget for humanitarian aid abroad is 220 million CZK for the year 2020.

## Iran

In March 2019, Republic of Iran was hit by massive floods affecting more than 12 million people. In April 2019, based on the request of the Iranian authorities, the Union Civil Protection Mechanism was activated. The Czech Republic offered in-kind assistance to Iran, included power generators, sewage pumps, blankets, sleeping bags and tents. All material was set aside from the Warehousing and Repair Facility of the Fire Rescue Service of the Czech Republic. In cooperation with the 24<sup>th</sup> Air Force Base in Prague-Kbely was planned to transport this material by using the aircraft CASA C-295 M. Two liaison officers were designated to accompany material assistance - Petr Ošlejšek from the Fire Rescue Brigade of the Olomouc Region and Petr Vodička from the Fire Rescue Brigade of the Capital of Prague. The flight itself took place on 17 April 2019 and on the same day the material assistance was handed over at the airport in Tehran to representatives of the Iranian Red Crescent Community in the presence of the Head of the Czech Embassy in Tehran Mr. Svatopluk Čumba. The aid subsequently went to the affected provinces of Lorestan and Khuzestan. The total cost of humanitarian aid was 2 million CZK.

## Greece

In September 2018, the Greece was affected by extensive fires that hit particularly south areas of Greece. At the beginning of September 2018, the Ministry of Foreign Affairs approached the Fire Rescue Service of the Czech Republic with a proposal to provide humanitarian aid to Greece due to the recovery of material after devastating fires. The Embassy of the Czech Republic in Athens, in cooperation with the Greek Fire Rescue Service, identified the Fire Rescue Service in Megara suitable for assistance.

After consulting, vehicles (Pick-Up 4x4 and minibus Van) and other equipment needed to perform firefighting tasks in Megara, such as sludge pumps, flashlights to explosive environment, air compressors, pressure cleaners, footwear and other equipment for firefighters was gradually purchased in 2019. The humanitarian aid convoy set off from the Czech Republic on 22 May and on May 25,

2019, was officially handed over to Megara firefighters with the participation of the Czech Ambassador in Greece Mr. Jan Bondy and the Deputy Chief of the Fire Rescue Service of Greece Mr. Stefanos Kolokouris. The total amount of the assistance was 5 million CZK.

## Georgia

From 10 to 22 March 2019, liaison officer of the Fire Rescue Service of the Czech Republic, col. Jan Hora participated as a member of EUCP team

(European Union Civil Protection Team) in advisory mission to Georgia.

On 12 February 2019, Georgia submitted a request to the Union Civil Protection Mechanism for experts to advisory mission. The mission was aimed to provide an assessment of the current situation and detailed guidance on setting up a training center for firefighters and rescuers. The aim was to make a suggestion of the training center based on education system at EU level standards.

Year	2015	2016	2017	2018	2019
Number of cases	43	35	48	51	56
Number of countries	26	25	29	24	26
Sum in millions of CZK	89,9	101,2	158,9	212,8	245,3

## Economic indicators

Fire Rescue Service of the Czech Republic fulfils the tasks in the scope and under conditions of Act on Fire Rescue Service of the Czech Republic, Act on Fire Protection, Act on Integrated Rescue System and Act on Crisis Management. FRS CR also fulfils duties of fire units through its 245 stations. Fire units fulfil the tasks in the area of fire protection, Integrated Rescue System and civil protection.

The efficiency is revealed by the relationship between state budget expenditures to FRS CR and VFU activities, losses and salvaged values in fires that are presented in the table below.

Compared with other countries, losses are among the lowest in relation to GDP in the Czech Republic. This effect attributes to the fact that in more than 70% cases the dislocation of closest unit is less than 5 km from the spot of emergency.

Salvaged values during interventions of fire units in other types of emergencies are not included in the table, as there is no reliable methodology to assess the effects of these other interventions.

Economic indicators		2015	2016	2017	2018	2019
GDP in current prices <sup>1)</sup>	bill. CZK	4 595,8	4 768,0	5 045,2	5 193,6	5 619,3
Real expenditures of FRS CR <sup>2)</sup>	bill. CZK	8,049	8,651	9,365	11,455	12,353
Non-investment subsidies from state budget for ensuring municipal VFU activity	bill. CZK	0,061	0,061	0,100	0,119	0,100
Investment subsidies from state budget for ensuring municipal VFU activity <sup>3)</sup>	bill. CZK	0,063	0,238	0,352	0,381	0,341
Share of real expenditures of FRS CR due to GDP	%	0,18	0,18	0,19	0,22	0,22
Direct losses caused by the fire	bill. CZK	2,496	3,378	3,653	2,870	2,213
Direct losses compared to GDP	%	0,05	0,07	0,07	0,06	0,04
Salvaged values in fires	bill. CZK	11,093	11,654	9,674	10,866	12,352
Salvage values due to GDP	%	0,24	0,24	0,19	0,21	0,22

<sup>1)</sup> GDP for 2019 is defined by the Czech Statistical Office

<sup>2)</sup> Real expenditures including gain of all budget sources and also extra-budgetary sources of FRS CR activity

<sup>3)</sup> Including financial means from Fund for preventing damages through the budget of FRS CR

# Types of incidents with interventions of fire units

**Fire** – intervention to any undesirable combustion, which causes fatality or injury of persons or animals, or damage of property or environment. Undesirable combustion in which people, animals, property or environment are in imminent danger is also considered as a fire.

**Traffic accident** – intervention related to collision of transport means, in which the person was killed or injured or there is damage on property. Traffic accident followed by fire is always considered as a fire. A traffic accident is also considered as a case in which the fire units eliminated only the minor consequences of an accident (cleaning of roads or removing leakages of substances - vehicle operational filling, etc.), if this was the result of a traffic accident of the above mentioned definition.

**HazMat leakage** – intervention in emergencies associated with undesirable leakage of HazMat, including oil products (during production, transport or handling), and other substances. Intervention is aimed to limit or reduce the risk of uncontrolled release of flammable, explosive, corrosive, toxic, harmful, radioactive and other hazardous substances, oil products or other substances into the environment (natural gas, acids and their salts, alkalis, ammonia, etc.), including serious accidents, according to Article 2 of the Act No. 224/2015 Coll., on Prevention of serious accidents.

**Leakage of oil products** – intervention mainly to prevent leakage and to limit its range of oil (gasoline, diesel or oil). Leakage of these substances from vehicle operational fillings due to traffic accidents are classified as “traffic accident”.

**Technical accident** – intervention to eliminate hazards or hazardous conditions

**Technical assistance** – intervention to eliminate hazards or hazardous conditions of smaller scale besides technological assistance and traffic accident, for example:

- rescue of persons from the lift,
- emergency opening of the apartment,
- removing obstacles from roads and other areas,
- opening locked areas,
- disposal of fallen trees, electrical wires, etc.,
- ventilation,
- rescue of people and animals,
- pumping, water closing and water supply,
- assistance in explosives finding,
- provisional or other repairs,
- extrication of objects, persons,
- measurement of concentrations or radiation.

**Technological assistance** – intervention to eliminate hazards or hazardous conditions in the technological operations of companies.

**Other assistance** – intervention, which can't be defined as a technical accident, technical or technological assistance; such as transport of patient, searching for missing persons, monitoring water streams, road accessibility control etc. and other on-demand services (both directly and indirectly provided assistance).

**Radiation accident** – intervention in incidents related to the improper release of radioactive substances or ionizing radiation.

**Other emergency** – intervention in other emergencies such as epidemics or infection, ensuring suspicious shipments and also interventions for events that can't be classified under above mentioned types.

**False alarm** – intervention after reporting a fire or other emergency, which wasn't confirmed.

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**Natural disaster, weather influence** – intervention in an emergency caused by harmfully acting forces and phenomena caused generally or locally by natural influences that threaten lives, health, property or the environment - floods, flooding, rain, snow, ice, windstorms, landslides, earthquakes, etc. in which fire units carried out the rescue and liquidation work. Natural disasters are registered always with index associated with the type of disaster.

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