



The Global Fire Monitoring Center (GFMC)

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12th Annual Global Wildland Fire Fatalities and Damages Report – 2019

The preliminary evaluation of fatalities caused by wildland fires in 2019 at global level revealed that 253 people were killed and 262,628 injuries worldwide – compared to 354 fatalities and 1,281 injuries in 2018; 303 fatalities and 1,887 injuries in 2017; 127 fatalities and 568,244 injuries in 2016; and 198 fatalities and 650,302 injuries in 2015.



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12th Annual Global Landscape Fire Fatalities and Damages Report – 2019 ¹

The Global Landscape Fire Network Bulletin is published by the Global Fire Monitoring Center (GFMC)², the former International Forest Fire News (IFFN)³, the International Wildfire Preparedness Mechanism (IWPM)⁴ and the Global Wildland Fire Network. GFMC and GWFN are serving the United Nations International Strategy for Disaster Reduction (UNISDR) / UN Office for Disaster Risk Reduction (UNDRR) in the frame of the Science & Technology Partnership⁵ and a Voluntary Commitment to the implementation of the Sendai Framework.⁶

This 26th Issue of the Global Landscape Fire Network Bulletin (former *Global Wildland Fire Network Bulletin*) provides the final draft of the *12th Annual Global Landscape Fire Fatalities and Damages Report*, covering the year 2019. This report is based on the evaluation of media (newspaper, radio and TV broadcasts) published on the internet, as well as agency reports and correspondents of the Global Wildland Fire Network from throughout the world.

The designation of this report series is renamed since 2016, since GFMC has now included other damages and consequences of wildfires, particularly those that are affecting people, property, infrastructures and livelihood of people, including damages to agricultural products and livestock. Since only a small fraction of wildfire-related accidents is reported through those media that are published on the web, we presume that our attempt to compile a global statistical database is still very incomplete and may only scratch the surface, on a global level. However, among countries that do regularly report the negative impacts of wildfires (e.g. injuries and property damages), the data collected by the GFMC can be considered reliable and consistent with many official estimates. Unlike the World Almanac and other databases such as the International Disaster Database of the Centre for Research on the Epidemiology of Disasters (CRED)⁷, GFMC aims at identifying all individual incidents that have been reported.

¹ Data included in this report is often cross-referenced to other annual regional or national reports, some of which have yet to be released. This report will be updated with any new data at a later date.

² <http://www.gfmc.online/> Note: IFFN production has been phased out in 2015.

³ <http://www.gfmc.online/iffn/iffn.htm>

⁴ <http://www.gfmc.online/iwpm/index.htm>

⁵ <http://www.gfmc.online/GlobalNetworks/globalNet.html>

⁶ https://sendaicommitments.unisdr.org/commitments/20190222_001

⁷ www.cred.be - Note: the CRED defines a disaster as “a situation or event, which overwhelms local capacity, necessitating a request to a national or international level for external assistance; an unforeseen and often sudden event that causes great damage, destruction and human suffering”. For a disaster to be considered, at least one of the following criteria must be met: (a) 10 or more people reported killed; (b) 100 or more people reported affected, (c) declaration of a state of emergency, or (d) call for international assistance. The GFMC does not follow these criteria as fatalities or injuries caused by wildfires are usually below these thresholds, and the high number of incidents would otherwise not be recorded at all. The CRED reports do not provide explicit data on wildfire-related incidents.

At the end of this report, web links are provided to publications / reports reporting injuries and fatalities. The short incident notes (by country, in alphabetic order) are taken from

- Detailed reports that have been published on the dedicated GFMC web page “Recent Media Highlights on Fire, Policies, and Politics – Section 4 Current News Regularly selected by GFMC” between January and December 2019 (<https://gfmc.online/media-highlights-on-fire-policies-and-politics.html>) and
- Other reports, which have been stored in the GFMC database but were not published online. Links or detailed information on any event included in this report can be provided upon request.

Note: Due to copyright restrictions, the GFMC is not entitled to publish / mirror all incidence reports freely accessible on the GFMC website. Institutions or individuals interested to work with GFMC in the scientific evaluation of data may request password-protected access to the files published on the web page “Recent Media Highlights on Fire, Policies, and Politics – Section 4 Current News Regularly selected by GFMC” (since 1999): <https://gfmc.online/media-highlights-on-fire-policies-and-politics.html>.

Freiburg, Germany, 15 September 2020

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Summary

The 12th Annual Global Landscape Fire report contains the summary of fatalities, all the structural and agricultural losses, evacuation cases, protected areas affected by wildland fires and economic impact for the year of 2019. However, the detailed numbers cannot be precise due to the fact that some media reports did not state the exact numbers of the above-mentioned losses as well as the injured people.

The fatalities report details that, globally 253 people lost their precious lives, 262,628 people were injured and total of 262,881 people from 38 countries were affected by the wildfire in 2019. The causes of the deaths of the citizens and the firefighters include aircraft, vehicle, and heat related, burning, medical emergency, smoke inhalation, fall, struck by tree, and unspecified/unknown. The causes of injuries are aircraft, vehicle, smoke, and heat related, burning, body injury, struck by natural hazards (falling trees, rocks etc.), unspecified/unknown, attacked while firefighting, and other.

In total, more than 4,045 private homes were destroyed and 590 homes in 32 countries were damaged by wildfires in 2019. Additionally, more than 8,284 outbuildings, and approximately 4,194 outbuildings were destroyed, and 93 outbuildings were damaged. More details can be seen in Table 6.

There are 975 vehicles destroyed and 74 vehicles damaged. As well as 273 tractor/farm equipment destroyed. There are 6 helicopters, 1 air tanker destroyed and 1 helicopter reported as damaged. More details are illustrated in Table 7.

More than 65,304 livestock/pets/animals killed, and 160 beehives destroyed in 8 countries. 71,423 ha of forest plantation and 13,490 ha of crops destroyed. More detailed information is showed in Table 8.

There were in a total of 609 and 139 unknown evacuation cases reported in 43 countries. There were more than 584,163 people had to be evacuated, 720 families and 4,722 residences were evacuated. Detailed number of other evacuations is formulated in table 5.

98 cases of protected areas affected by wildfires worldwide. In total, 603,921 ha of area affected by the wildfires globally in 2019.

The known economic impacts of wildfires in 13 countries were estimated over USD \$400 million. The suppression cost estimated nearly USD \$29 million while direct damages cost over USD \$20 million. Recovery cost and mitigation/prevention cost resulted in USD \$ 1.8 million and over USD \$335 million respectively. Insured cost is estimated at USD \$20 million in South Africa.

Overview of fatalities

Detailed numbers of all killed and injured people as a result of wildland fires in 2019 by countries, regions and continents are illustrated in this section.

Table 1 Summary of global wildland fire fatalities report 2019: All people killed and injured due to wildfire.

Regions	Killed	injured	total
Africa	74	116	190
Asia	71	261,769	261,840
Australia	22	169	191
Europe	9	126	135
Middle East	19	180	199
North America	50	108	158
South America	8	160	168
Worldwide	253	262,628	262,881

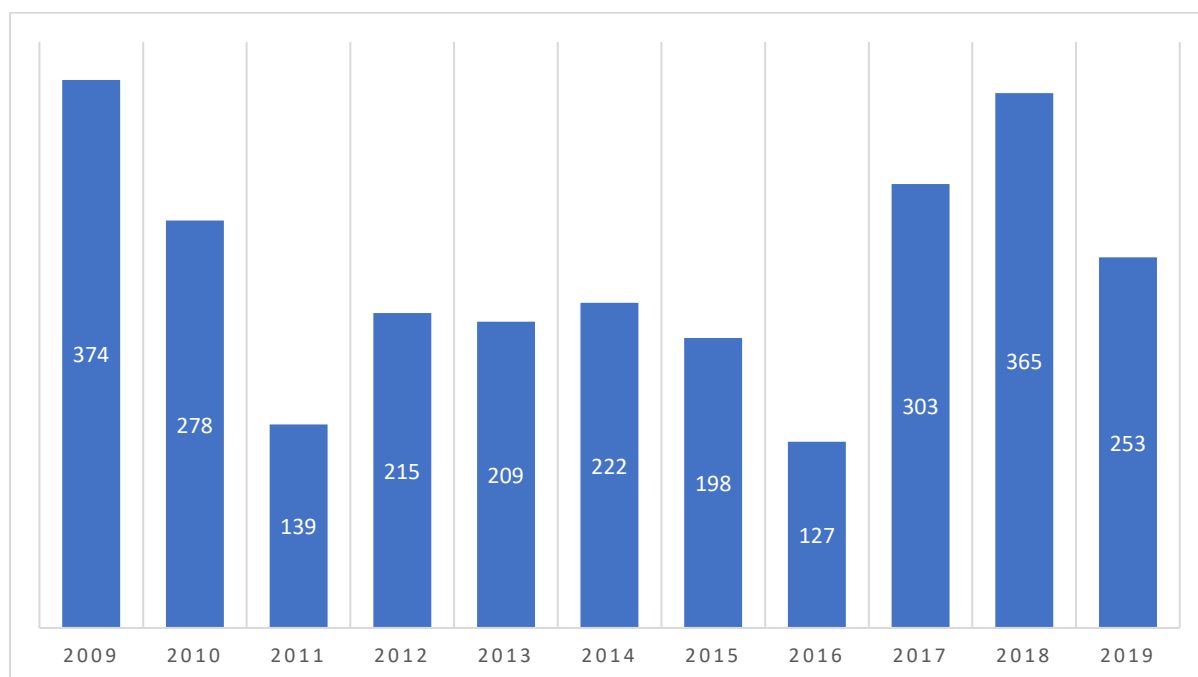


Figure 1 Worldwide deaths caused by wildfires (2009-2019)

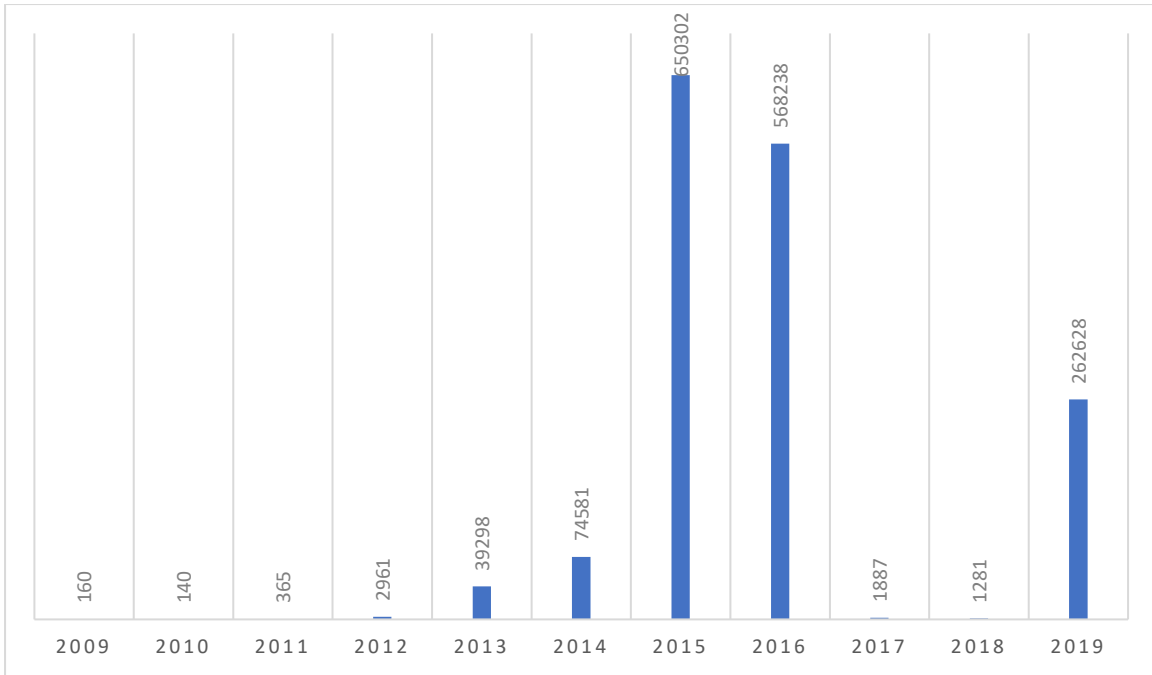


Figure 2 Worldwide injuries caused by wildfires (2009-2019)

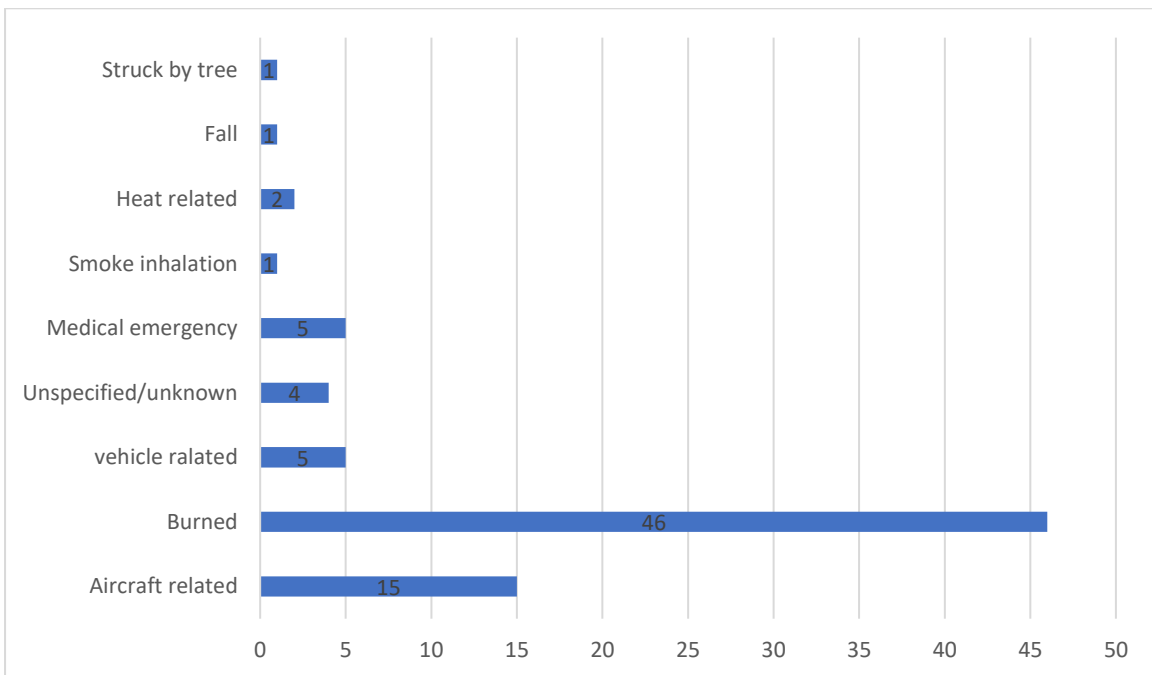


Figure 3 Number of worldwide line-of-duty firefighter deaths in 2019 by category*

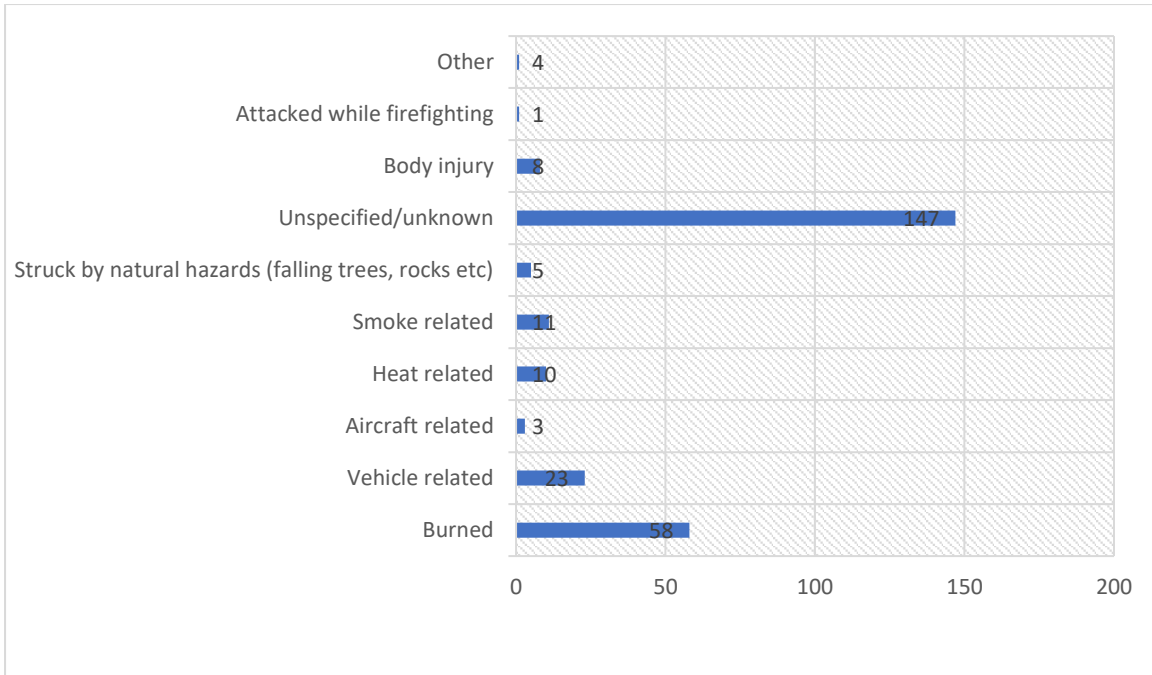


Figure 4 Number of worldwide line-of-duty firefighter injuries in 2019 by category*

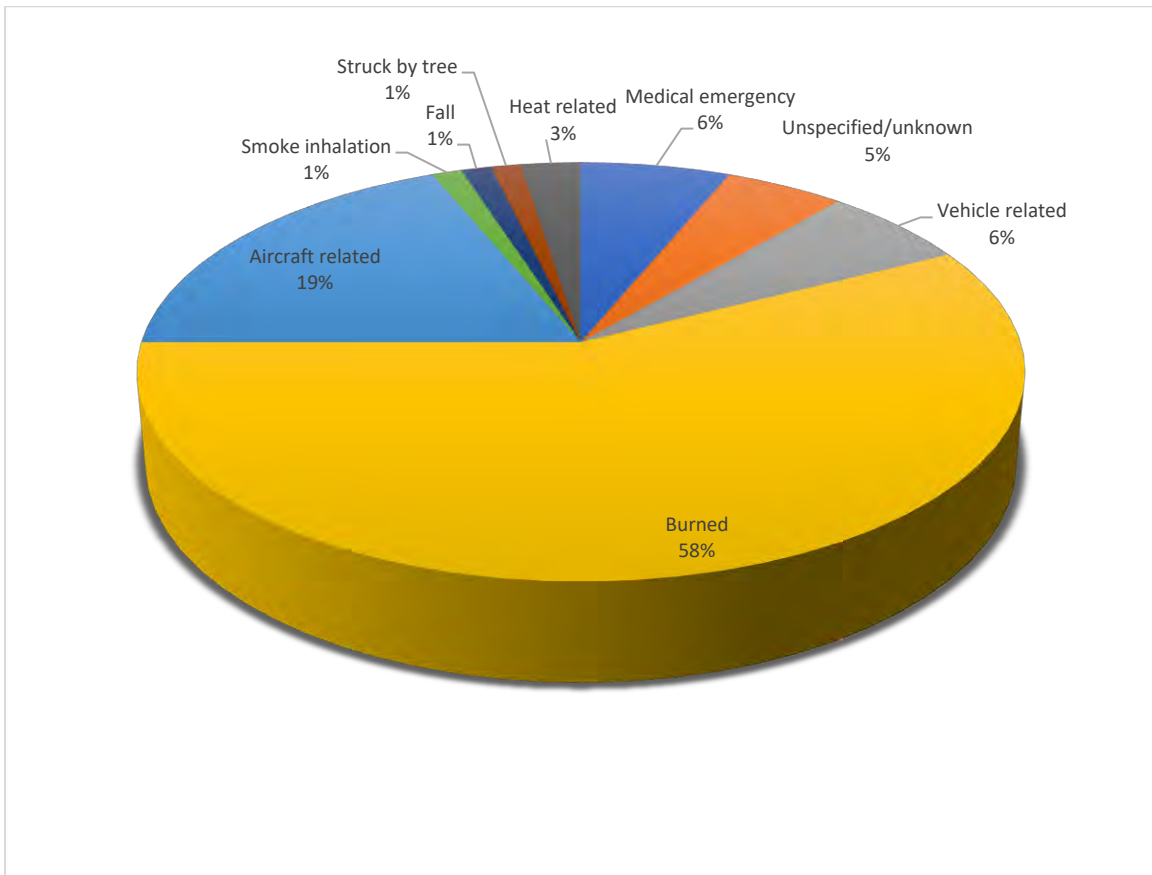


Figure 5 Percentage of worldwide line-of-duty firefighter deaths in 2019 by category*

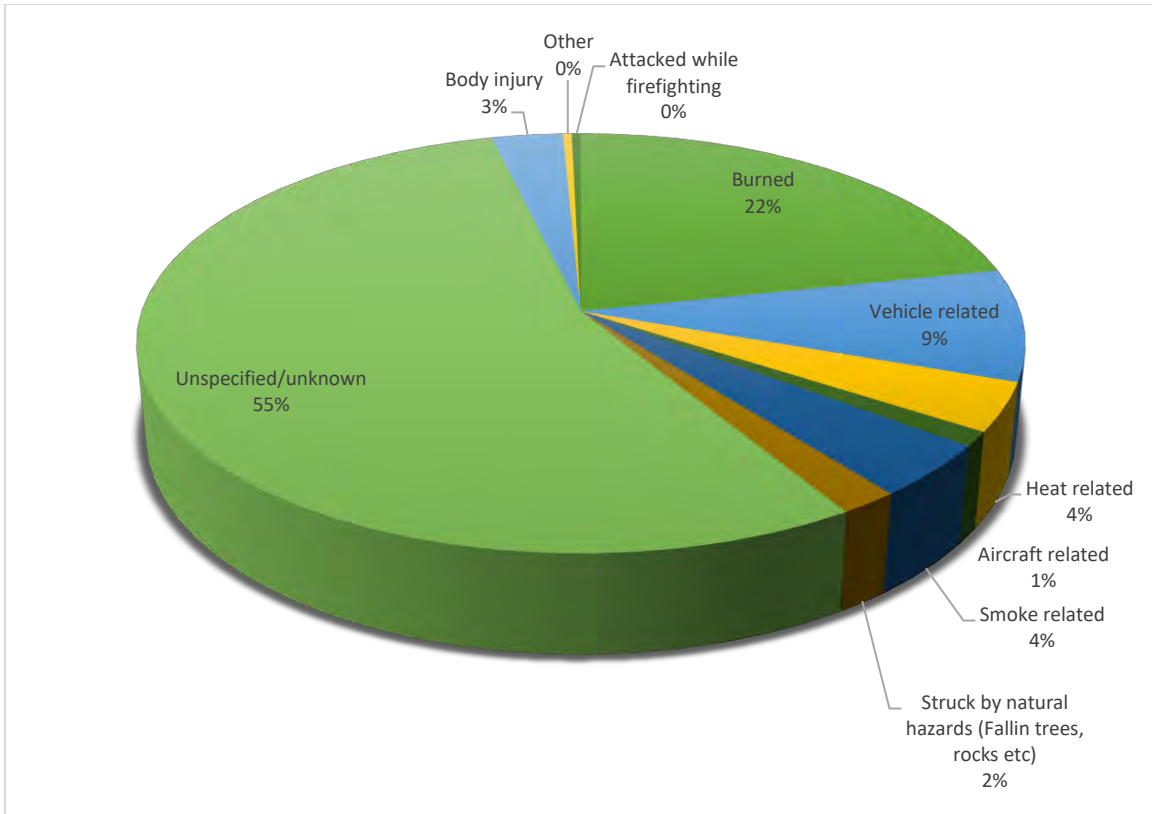


Figure 6 Percentage of worldwide line-of-duty firefighter injuries in 2019 by category*

* Line-of-duty deaths and injuries of all firefighters (regardless of type of fire department / agency) as a result of active duty in connection with landscape fires including responding to or returning from, or, as a result of overexertion in connection with training or suppression activities.

Table 2 Summary of firefighters and aircraft personnel killed and injured in 2019 by country

Country	Firefighters killed	Firefighters injured	Total
Argentina	-	1	1
Australia	3	113	116
Canada	1	-	1
Chile	1	19	20
China	33	1	34
France	1	-	1
Germany	-	7	7
Greece	1	4	5
Guatemala	2	-	2
India	1	4	5
Indonesia	1	-	1
Iraq	5	20	25
Lebanon	1	5	6
Mexico	14	3	17
Nepal	-	1	1
New Zealand		1	1
Nicaragua	2	-	2
Portugal	-	8	8
Russia	2	-	2
South Africa	1	7	8
Syria	3	-	3
Ukraine	-	1	1
USA	8	72	80
Total	80	267	347

Table 3 Summary of all people killed and injured by wildland fires in 2019 by continents and countries.

Africa	Killed	Injured	Total
Algeria	-	2	2
Gambia	1	-	1
South Africa	16	54	70
South Sudan	54	60	114
Zambia	3	-	3
Total	74	116	190

Asia	Killed	Injured	Total
China	43	1	44
India	1	4	5
Indonesia	13	4480	4493
Iraq	7	32	39
Israel	-	29	29
Lebanon	2	111	113
Nepal	3	3	6
Pakistan	2	27	29
Philippines	6	-	6
South Korea	2	35	37
Syria	10	8	18
Thailand	1	257,219	257,220
Total	90	261,949	262,039

Australia	Killed	Injured	Total
Australia	22	165	187
New Zealand	-	4	4
Total	22	169	191

Europe	Killed	Injured	Total
France	1	1	2
Germany	-	7	7
Greece	1	4	5
Italy	-	3	3
Portugal	-	73	41
Russia	4	34	35
Spain	3	2	2
UK (Wales)	-	1	1
Ukraine	-	1	1
Total	9	126	135

North America	Killed	Injured	Total
Canada	4	3	7
Guatemala	2	-	2
Mexico	26	9	35
Nicaragua	2	-	2
USA	16	96	112
Total	50	108	158

South America	Killed	Injured	Total
Argentina	-	1	1
Bolivia	-	5	5
Chile	4	150	154
Colombia	3	-	2
Trinidad and Tobago	1	4	5
Total	8	160	168

Evacuations

Table 4 Summary of evacuation cases by country.

Category Country	Number of cases	Unknown evacuations	No. of People (or unknown)	No. of Families	No. of Residence	Hotel /resort	Road / Lane Closure	Highway Closure	Train services disrupted	Homes w/out Power
Algeria	1							1		
Argentina	1									58,000
Australia	75	25	95,767		70		116	33	5	12,266
Botswana	1	1				1				
Canada	26	2	11,684		238		3	8	1	
Chile	13	2	1,432		14		1	1		163,500
China	3		3,832							
Colombia	1									
Croatia	3	1	10,000					1		
France	7	1	2,,580		432			2	1	
Germany	3		970				1			
Greece	7	3				1	4			
Honduras	5	1		15						
India	3									
Indonesia	3		7							
Iran	1		5							
Ireland	2	1	3,000							
Israel	6	2	3,515		244		3	2		
Italy	21	7	695		95	4	8	6		

Jordan	1						3			
Kenya	2	1		300						
Lebanon	1	1	300							
Malaysia	1									
Mexico	25		12,521	400			1	6		
N. Macedonia	1									
New Zealand	6	1	2,500		110		1	1		
Norway	1				148					
Philippines	2									
Portugal	3	1	50				2			
Puerto Rico	2		24							
Russia	4	1	50,728							
S. Africa	7	5	670		3	2	7	3		
S. Korea			297							
Spain	30	3	12,572		41	3	12	10	1	
St Maarten	1				10					
Sweden	2				47			1		
Thailand	1									
Trinidad and Tobago	4	2	936							
Turkey	3	2				2	4			
UK	4				32		1	1		
USA	322	75	370,075	5	3238	8	150	115	18	1,341,748
Venezuela	2									
Vietnam	1									
TOTAL	609	139	584,163	720	4,722	21	317	191	26	1,575,514

Table 5 Other evacuations.

Country	Part of City / Town	Neighborhood / Village	University / School / Daycare / Senior Home (specify)	Business / Commercial Facility (specify)	Airport / Flights Disrupted (specify)	Park / Outdoor Camp	Livestock	Other Evacuation (specify)
Australia		1 neighbourhood	less than 200 schools 37 day-cares, 1 uni, 7 training centres closed			6 National parks, 2 recreational sites, and camping areas closed		Tree sitters evacuated, shopping complex evacuated, vineyard damaged
Canada	2 towns	1 village				campground		2 oil and gas plants closed/evacuated
Chile	town, communities		Around 10 schools					zoo evacuated several schools shut down
China				9 coal mines idled				
Croatia								music festival
France						campground		
Germany	2 towns	1 village						

Greece		9 villages				children's camp		monastery
India								tourist centres closed
Indonesia			Many schools					
Ireland		1 neighbourhood						
Israel	several towns	1 village	1 university					apartment complex and army base
Italy			4 schools and 1 day-care			3 campground and beach		equestrian center, 3 tourist attractions and a colony of Salesians
Malaysia			636 schools closed (445,249 students)					
Mexico	2 towns		135 basic schools shut + 189 suspended Physical education				1	135 basics schools shut + 189 suspended Physical education
N. Macedonia		several villages						
Philippines						trails closed		

Portugal		several villages	2 schools					beaches evacuated
Puerto Rico			elder asylum, Senior home					
Russia	15 towns	1 village		several oil drilling ops suspended				
S. Africa	several towns		2 universities				200 penguins	animal shelter, life sanctuary
Spain		4 villages	2 schools					railroad closed
Thailand					unk x 2			
Trinidad and Tobago			3 schools					
UK	small town							
USA	small town, 2 communities, part of the city	Around 10 neighbourhoods	95 schools, 6 colleges, 1 university closed	2, business complex, several restaurants	2 airports shut down	5 campgrounds, 2 theme parks, 1 park, trails closed	200 pets, 54 livestock	2 amusement parks, nuclear facility, apartment complex, dam and power plant, campers evacuated, 3 million people without power

Venezuela												80% of country pop ~25,600,000 people w/out power; water and communications affected too; event lasted 3 days
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Damages

Table 6 Summary of structural losses

Country	Residence Destroyed	Residence Damaged	Vacant Residence Damaged/Destroyed	2nd Home or Cabin Damaged / Destroyed	Commerical Building / Business Destroyed	Commerical Building / Business Damaged	Outbuilding Destroyed	Outbuilding Damaged	Shed / Storage / Barn	Fence (distance)	Power Poles	Other Structure (+details)
Algeria	3											
Argentina												Power shortage (3 cities)
Australia	2375	453			69		3764	71	15	unknown	unknown	bridge, town mostly, shooting range, lodge, school, home/retreat center and 29 other structures destroyed. Timber mill, lumber mill, and community center damaged.
Botswana												luxury logde destroyed
Brunei	1											

Canada	21	4		1			2	1	1		historic building bridge, structure and broadcasting equipment destroyed
Chile	341	28			1						school destroyed
Colombia										unknown	cables damaged, Power shortage (poles and cables)
France	5	5							1		
Ghana										150	
Iraq	1										farms destroyed in several villages
Israel	65										1 village
Italy	3	4									public infrastructure destroyed
Latvia											1
Lebanon	4										
Mexico	15					1					factory damaged
N. Macedonia											graveyard and church damaged
Nepal	6								4		
New Zealand											2 structures
Nicaragua	2							1			2 structures
Russia	123						270				
S. Africa	195	28			5						community hall, school hostel, a restaurant, shopping centre and the church minister's parsonage

S. Korea	470											920 livestock facilities, 200 warehouses and 100 other structures destroyed
S. Sudan	138											4 entire villages destroyed
Spain						1		1				
Syria	1											gas station destroyed
Trinidad and Tobago	4											
Tunisia												
Turkey	1								2			
UK		1										
USA	271	67	5	4	5	2	158	2	70	unknown	More than 36	37 structures, 7 apartments, garage, 3 historic buildings, 14 shopping containers with construction & emergency supplies, 50 homeless shelters, landmark hotel, 374 homes, businesses & other structures destroyed. Golf course, 2 hotels, electrical grid, control tower & 59 structures damaged.
Venezuela										unknown		fiber optic cables, Optical fiber cables damaged.
TOTAL	4045	590	5	5	80	4	4194	76	93			

Table 7 Summary of vehicle losses.

Country	Car / Truck Destroyed	Car / Truck Damaged	RV / Travel Trailer	Commercial Truck	Fire Truck / Vehicle	Boat	ATV / Motorcycle	Utility Trailer	Tractor / Farm Equipment	Airplane / Helicopter
Australia	261		1		3			1	4	2
Bolivia	3	6								
Chile	1									
Columbia	90			1						
France	3			1						air tanker
Germany					1					
Guatemala	11									
India	300									
Iraq									1	
Israel	4									
Italy								1		
Lebanon	12									
Mexico	7									3
New Zealand										Helicopter damaged
Portugal										firefighting plane
Russia									22	
S.Africa	6				2			1		
S.Korea	15								241	
Syria	3						4			
Thailand										

Trinidad and Tobago	2								
Turkey								1	1
UK	1								
USA	256	68	9		1	1		5	4
TOTAL	975	74	10	2	7	1	4	9	273

Table 8 Summary of agricultural losses

Country	Livestock Killed	Hay Bales / Rounds	Forest Plantation (ha)	Agricultural Crops (ha)	Other
Algeria					10 ha olive grove
Australia	2 horses and 4 sheep, unknown	700	70000		production forest damaged/ destroyed. Vineyard, 85ha bluegum
Cambodia					30 ha rice, 30 ha cashew plantation destroyed
India					500 mango trees, sandal wood trees burned
Iraq				13382	dozens of farms destroyed; hundreds of ha of crops destroyed; 3 ha barely, 500 ha wheat, a dozen wheat and barley farms destroyed; many agricultural damages; 25 ha wheat and barley destroyed; crops destroyed wheat and barley crops destroyed.
Italy					olive grove destroyed; nursery damaged; cork plantation destroyed
Jamaica					unknown. Crops destroyed

Latvia		unknown			
Malaysia					oil palm and rubber estates destroyed
Myanmar					40 ha rubber and bamboo plantation destroyed
N.Macedonia					vineyards damaged
New Zealand	60 sheep				
Pakistan			1423		
Portugal	100 beehives				
Russia	1,277 cattle, 489 horses, 10,000 sheep, 120 pigs and 1,800 farm birds killed				two grain storage sites, 320 tons of bulk feed
S.Africa					2 mango farms damaged / crops destroyed
S.Korea	41000				
S.Sudan	10000 cattle				
St. Thomas (US-VI)					coffee, plantation and banana crops destroyed on 70 farms
Syria				18	dozens of farms destroyed; hundreds of ha of crops destroyed, crops destroyed
Thailand					oil palm destroyed
Tunisia				90	
Turkey					olive orchards damaged; 85 olive trees destroyed; olive orchards damaged
UK					
USA	2 chickens, 60 beehives				.5 ha orange and avocado groves burned; 80,000 pallets destroyed
TOTAL	64,754		71,423	13,490	

Table 9 Summary of protected areas affected by wildfires

Country	Burned Area (ha)	Park / Site (name)	Type
Australia	2	Abercrombie River	National Park
	28000	Franklin-Gordon Wild Rivers	National Park
	78	Bendick Murrell	National Park
	9000	Cape Arid	National Park
	95'430	Tasmanian Wilderness World Heritage Area	UNESCO
	56000	Soutwest	National Park
	1500	Drovers Cave	National Park
	1500	Uluru	National Park
	211000	West MacDonnell	National Park
	3400	Bunyip	State Park
	10000	Tjoritja	National Park
	60	Black Hill Conservation Park	Reserve
	223	Jerrawangala	National Park
	53000	Bimberamala and Murramarang	National Park
Canada	40	Cranberry Flats conservation area	Reserve
Chile	20	Chiloé	National Park
	4	Lago Peñuelas	National Reserve
	3.8	Peñuelas National Reserve	
Colombia	1700	Los Katíos	National Park
	1'700	Los katíos Natural Park	
		Parque Nacional Natural Los Nevados	
		Los NEvados National Natural Park	
Costa Rica	4	Caño Negro & Border Corridor	Wildlife Reserve

Ethiopia	683	Semien	National Park
France	4	Verdon Natural	Regional Park
Greece	200	Strofylia	National Park
Guatamala	?	Laguna del Tigre	National Park
India	16'187	Bandipur Tiger	Reserve
	50	Mudumalai Tiger	Reserve
	40	Kudremukh	National Park
	121	Sathyamangalam Tiger	Reserve
Iran	400	Various areas	Various categories
Italy	30	Punta Pizzo	Regional Park
	6	Circeo	National Park
Kenya	18000	Mount Kenya	National Park
	41	Mount Kenya	National Park
Malaysia	2	Similajau	National Park
Mexico	100	El Triunfo	Reserve
	300	Los Petenes	Biosphere Reserve
	77	La Malinche	National Park
	864	Hildago	National Park
	10	Los Nevados	National Park
	472	Uruapan	National Park
	15	Barranca de Cupatitzio	National Park
	3000	Sian Ka'an Biosphere Reserve	UNESCO
	815	Área Natural Protegida San Juan del Monte	
	shut	Bahía Junquillal wilderness refuge	
	100	El Triunfo Reserve	
		Balamkú Natural Reserve	

		Malinche National Park	
	300	Reserva de la Biósfera de Los Petenes	
		Malinche National Park	
		El Cabildo Ecological Reserve	
		El veladero National Park	
		Los Mármolos National Park	
		Uruapán National Park	
		Barranca de Cupatitzio National Park	
		Los Dínamos ecological reserve	
		Tepoztlan archeological site	
N. Macedonia	70	Galicia	National Park
Netherlands	4	De Soester Duinen	Reserve
Nicaragua	8755	Volcán Cosigüina	Reserve
	8755	Reserva Volcán Cosigüina	
		Nicaragua Natural Reserve	
Pakistan	2000	Murree and Margalla Hills	National Park
Philippines	50	San Cristobal Protected Landscap	IUCN III
Spain	40	Xurés	National Park
	15	Teide	National Park
		Sierra Calderona Natural Park	
	40	Parque Natural del Xurés	
		Doñana Natural Park (UNESCO)	
		Teide National Park (UNESCO)	
Thailand	10	Thai Muang	National Park
USA	4	George LeStrange	Preserve
	2	Highland Scrub	Preserve

	97	Everglades	National Park
	20	Deer Grove East	Preserve
	75	Okefenokee National	Wildlife Reserve
	324	Big Bend	National Park
	8	Booker	Wildlife Reserve
	650	Yolla Bolly	Wildlerness (Preser)
	36	Trinity Alps	Preserve
	16997	Everglades	National Park
	89	Sycamore Canyon	Wildlerness (Preser)
	8	Booker Creek	Preserve
	31161	Kenai	Wildlife Reserve
	12	Modoc	Wildlife Reserve
	2	Wrangell-St. Elias	National Park
	16'997	Hanford Reach	National Monument
	40	Las Palomas	Wildlife Reserve
	688	Loxahatchee	Preserve
	1821	Gold Butte	National Monument
	607	Lucky Peak	State Park
	12	Yellowstone	National Park
Venezuela		El Avila National Park	
	50	Waraira Repano National Park	
		Macarao National Park	
TOTAL	603,921	Waraira Repano National Park	

Table 10 Summary of reported economic losses in USD

Country	Date	Suppression Cost	Damages in USD \$	Recovery Cost	Mitigation / Prevention Cost	Revenue Losses (tourism, etc.)	Insured Loss / Claim	Comments / Other
Ghana	14.02.19		22123					in power infrastructure
Australia	16.02.19		500000					vineyard damaged
India	18.02.19		275458					
S. Africa	24.02.19							
Australia	26.03.19						20000000	
USA	02.04.19	332000						
USA	12.04.19	2500000						
Russia	22.04.19		\$4'400'000					
Czech Republic	23.04.19		43555					
UK	24.04.19	64607	103371	465169				
Thailand	24.04.19	\$137'606						
Russia	24.04.19		9400000					
USA	13.05.19		75000					
USA	22.05.19		1000000					
India	12.06.19	1200						
Pakistan	18.06.19		171233					in production forest
USA	25.06.19		2100000					
Australia	26.06.19				64000000			prevention
India	27.06.19				22000000			prevention
USA	28.06.19				225800000			
Poland	27.06.19	134580						estimated cost of aerial resources
Australia	02.07.19			1100000				grants awarded for community

							recovery and resilience projects.
Australia	11.07.19				320000		
Zimbabwe	12.07.19		358500				
USA	12.07.19				150000		
Australia	18.07.19	12000000					
USA	15.07.19			238500			for 2018
Spain	17.07.19						\$334584 in biodiversity losses
USA	24.07.19				23000000		
USA	03.08.19	13000000					
USA	05.08.19				100000		prevention
USA	06.08.19		1725000				damages
USA	07.08.19				200000		prevention
S. Africa	05.10.19		50000				
TOTAL		28169993	20224240	1803669	335570000		20000000

Annex I: People killed and injured by wildland fires – Overview by countries

Country	Date	Civilian Death	Civilian Injury	Firefighter Death	Firefighter Injury	Aviation Death	Aviation Injury	Indirect Death	Indirect Injury	Link	Cause	Comments
USA	02.01.19		1							https://www.fox21news.com/news/local/1-person-injured-in-southern-colorado-springs-homeless-camp-fire/	smoke inhalation	
S. Africa	03.01.19	1	2							https://citizen.co.za/news/south-africa/disasters/2056969/one-killed-two-injured-in-bettys-bay-pringle-bay-fires/	unknown	likely burned
Chile	05.01.19		6							https://www.latercera.com/nacional/noticia/reporteronemi-8-incendios-forestales-activos-14-controlados-tres-alertas-rojas/472330/	unknown	
Australia	18.01.19				2					https://www.bendigoadvertiser.com.au/story/5850248/fire-truck-run-off-road-on-way-to-fire-driver-fatigue-highlighted/	vehicle-related	2 FF hospitalized w/ minor injuries
Australia	20.01.19				4					https://www.9news.com.au/national/wa-news-bushfire-threatens-town-	heat-related	4 FF hospitalized for heat-related injuries

S. Africa	21.01.19			1					https://www.news24.com/SouthAfrica/News/firefighter-injured-2-houses-destroyed-in-mossel-bay-blaze-20190121	unknown	
USA	26.01.19	1							https://www.gainesvilletimes.com/news/man-dead-after-burns-backyard/	burned	debris burn accident
S. Africa	29.01.19		1						https://www.iol.co.za/mercury/news/man-caught-in-wildfire-badly-burned-19021660	burned	in critical condition
Canada	30.01.19		1						https://www.bccolocalnews.com/news/man-sent-to-hospital-after-brush-fire-in-west-kelowna/	burned	hospitalized
Australia	01.02.19			3					https://www.abc.net.au/news/2019-02-01/tasmania-bushfire-threat-continues-damage-revealed/10768266	2 vehicle-related, 1 natural hazard	2 FF in water truck rollover; 1 FF struck by tree limb
Chile	03.02.19	2							https://www.biobiochile.cl/noticias/nacional/region-de-la-araucania/2019/02/03/declaracion-alerta-roja-por-incendios-en-la-araucania-y-los-rios-un-adulto-	burned	

Chile	05.02.19		123						mayor-murio-calcinado.shtml https://santiagotimes.cl/2019/02/05/la-araucania-chiles-president-pinera-visits-areas-affected-by-forest-fires-in-southern-chile/ https://www.ajc.com/news/man-body-found-behind-marietta-motel-after-fire/PYxfi4WZsmWzXtkl4CDyO/ https://www.biobiochile.cl/noticias/nacional/region-de-la-araucania/2019/02/11/conaf-presentara-querella-criminal-por-ataque-a-brigadista-que-apagaba-incendio-en-temuco.shtml https://www.publimetro.cl/cl/noticias/2019/02/12/nicolas-soto-murio-bombero-golpeado-balde-helicoptero-combatiendo-incendios-la-araucania.html https://www.biobiochile.cl/noticias/nacional/region-del-bio-bio/2019/02/14/cuatro-bomberos-lesionados-y-un-	unknown	unknown
USA	11.02.19	1								burned	accidental death of homeless man
Chile	11.02.19			1						attacked while firefighting	hospitalized
Chile	12.02.19			1						aircraft-related	struck by bambi bucket Feb 3rd – died after 10-day coma
Chile	14.02.19			4						burned	Hospitalized with minor burns

New Zealand	17.02.19								carro-bomba-quemado-por-incendio-forestal-en-nacimiento.shtml https://www.stuff.co.nz/national/110656487/nelson-bush-fire-helicopter-crashes-fighting-fires-in-tasman-district https://www.biobiochile.cl/noticias/nacional/chile/2019/02/15/incendios-forestales-dejan-a-tres-personas-fallecidas-y-mas-de-50-mil-hectareas-consumidas.shtml	aircraft-related	helicopter crash, hospitalized with minor injuries
Chile	15.02.19	1							http://patratora.gob.cl/archivos/229654	burned	
Greece	16.02.19			2					https://www.gmanetwork.com/news/news/regions/685651/forest-fire-kills-at-least-5-in-itogon-benguet/story/ https://www.straitstimes.com/asia/se-asia/indonesia-braces-for-wildfires-ahead-of-el-nino	unknown	minor, hospitalized
Philippines	21.02.19	5							https://en.tempo.co/read/1179315/ruptat-island-people-suffers-disease-due-to-forest-fire?https://en.te	burned	employees of mining company trying to extinguish flames
Indonesia	25.02.19		1753							smoke inhalation	treated cases
Indonesia	25.02.19		5							smoke inhalation	treated cases

France	24.02.19	1						mpo.co/index&campaign=https://en.tempo.co/index_Click_1 https://www.corsematin.com/article/sampolo/incendie-de-sampolo-le-point-sur-la-situation https://en.antaraneews.com/news/122443/thousand-of-riau-residents-suffer-respiratory-problems-due-to-haze	unknown	upper respiratory tract infection: 2488; Pneumonia: 11; asthma: 71; eye irritation: 91; skin irritation: 57 hospitalized, unknown Extent of injuries from being trapped in a tractor by fire
Indonesia	24.02.19	2717							smoke related	
UK (wales)	28.02.19	1						https://www.bbc.com/news/uk-wales-47379018 https://greece.greekreporter.com/2019/03/01/greek-fire-fighter-dies-in-thessaloniki-blaze/ https://www.diariosvasco.com/sociedad/joven-anos-fallece-20190303232456-nt.html	vehicle-related	1 FF dead (collapsed in smoke), 1 FF injured (hospitalized for smoke inhalation)
Greece	01.03.19		1	1				https://www.diariosvasco.com/sociedad/joven-anos-fallece-20190303232456-nt.html https://www.southburnettimes.com.au/news/man-hospitalised-after-kingaroy-blaze/3662867/ https://www.biobiochile.cl/noticias/nacional/region-de-la-araucania/2019/03/03/ejercito-	smoke inhalation	
Spain	03.03.19	1							burned	
Australia	04.03.19	1							burned	hospitalized with burns to foot
Chile	03.03.19						2		troops attacked while patrolling	hospitalized with minor injuries

Mexico	04.03.19	1						asegura-que-continuaran-patrullando-pese-a-ataque-sufrido-en-collipulli.shtml https://tribunanoticias.mx/2019/03/04/muere-joven-que-sufrio-quemaduras-en-incendio-forestal-en-la-san-miguel-zautla/	burned	documented cases of individuals who sought medical treatment for respiratory and cardiovascular ailments due to smoke pollution from fires and crop burning
Thailand	04.03.19	248618						https://www.nationthailand.com/detail/national/30365148	smoke related	
New Zealand	06.03.19	3						https://www.nzherald.co.nz/fires/news/article.cfm?c_id=202&objectid=12209750	2 smoke-inhalation; 1 puncture wound	2 hospitalized (smoke)
Australia	12.03.19	1						https://www.news.com.au/south-australia/a-mandies-after-medical-episode-while-defending-his-home-from-grass-fire-near-mount-compass/news-story/9e947d20afa1c8d3ed0ff047b751a73d	medical emergency	while defending home from grass fire
Australia	13.03.19	1						https://au.news.yahoo.com/rider-34-battling-life-freak-accident-	heat trauma (in coma)	sustained while evacuating livestock

Colombia	04.03.19	1							https://www.elheraldo.co/la-guajira/muere-nino-kogui-en-incendio-de-la-sierra-nevada-603772 http://www.elinformador.com.co/index.php/judiciales/71-judiciales-local/198050-fallece-vigilante-de-una-finca-tras-inhalar-humo-en-un-incendio-forestal	burned	
Colombia	05.03.19	1							https://www.philstar.com/nation/2019/03/08/1899759/bfp-140k-hectares-forest-cordillera-damaged-fires-january https://www.eluniversal.com.mx/estados/muere-brigadista-al-combatir-incendio-forestal-en-veracruz	smoke inhalation	
Philippines	08.03.19	1							http://caracol.com.co/emisora/2019/03/15/santa_marta/1552649676_772166.html https://news.cgtn.com/news/3d3d414d7a677a4d33457a6333566d54/index.html	burned	
Mexico	14.03.19		1						http://caracol.com.co/emisora/2019/03/15/santa_marta/1552649676_772166.html https://news.cgtn.com/news/3d3d414d7a677a4d33457a6333566d54/index.html	burned	
Colombia	15.03.19	1							https://news.cgtn.com/news/3d3d414d7a677a4d33457a6333566d54/index.html		
China	15.03.19		6	1					https://news.cgtn.com/news/3d3d414d7a677a4d33457a6333566d54/index.html	burned	entrapment during wind shift

India	23.02.19		1	3				https://www.cnraveller.in/story/bandipur-forest-fire-just-bad-greater-than-30-properties-confirmed-destroyed-by-victorian-bushfires	burned	1 forest guard killed and 3 others injured, all burned
Canada	16.03.19		1					https://www.kait8.com/2019/03/22/brush-fire-injures-traffic-stopped-hwy/	burned	Hospitalized with minor burns
USA	22.03.19		1					https://www.wkrq.com/baldwin-county/one-person-burned-in-foley-grass-fire/	unknown	
USA	20.03.19		1					https://www.kiro7.com/news/local/large-fire-breaks-out-in-field-filled-with-tires-behind-white-center-apartment-building/932469244	unknown	hospitalized
USA	21.03.19			3				https://lex18.com/news/covering-kentucky/2019/03/20/60-acre-wildfire-leads-to-body-being-discovered-in-truck/	unknown	2 FF hospitalized
USA	20.03.19	1						https://www.biobiochile.cl/noticias/nacional/region-de-la-araucania/2019/03/21/bombera-resulta-lesionada-mientras-combatia-	burned	found burned in his truck
Chile	25.03.19			1					Fall (broken ankle)	

Nepal	25.03.19			1					incendio-forestal-en-angol.shtml https://thehimalayantimes.com/nepal/forest-ranger-injured-in-udayapur-wildfire/ https://radiohrn.hn/2019/04/19/bombero-voluntario-muere-cuando-se-dirigia-a-apagar-un-incendio-en-nicaragua/	eye injury	
Nicaragua	25.03.19		1						https://www.biobiochile.cl/noticias/nacional/region-de-la-araucania/2019/03/21/bombera-resulta-lesionada-mientras-combatia-incendio-forestal-en-angol.shtml	car accident	
Chile	21.03.19			1					https://www.iconanews.it/italia/cronaca/genova-incendio-cogoleto/	broken ankle	sustain in a fall
Italy	26.03.19	3							https://wildfiretoday.com/2019/03/27/texas-firefighter-killed-in-helicopter-crash/	unknown	hospitalized
USA	27.03.19				1	2			https://www.9news.com.au/videos/bunkers-hill-residents-return-to-their-homes-after-bushfire/cjtv6gjt2001i0gruu01per94	aircraft-related	Helicopter crash during Rx Ops
Australia	30.03.19		1							medical emergency	heart attack while evacuating

Australia	30.03.19		3	2					https://www.abc.net.au/news/2019-03-30/ballarat-grass-fire-damage-three-homes-destroyed/10955758	1 FF smoke-related, 1 FF severe cut to hand; 3 people treated for smoke	
USA	27.03.19		2						https://www.kfdi.com/2019/03/27/two-injured-after-grass-fire-breaks-out-in-harvey-county/ https://www.bloomberg.com/news/articles/2019-04-01/urgent-china-military-says-24-killed-fighting-mountain-forest-fire	burned	minor burns
China	01.04.19	4		27					https://www.wcvb.com/article/man-with-mobility-issues-suffers-significant-burns-in-marlborough-fire-officials-say/27022270	burned	entrapment during flashover
USA	02.04.19		1						https://www.mysuncoast.com/2019/04/03/update-two-alarm-brush-fire-englewood-one-homeless-woman-taken-hospital-2/	burned	disabled person
USA	03.04.19		1						https://www.bangkokpost.com/thailand/general/1658244/haze-causes-thousands-to-fall-ill-in-north	smoke inhalation	hospitalized
Thailand	08.04.19		8601						https://www.scmp.com/news/china	smoke inhalation	treated cases from crop burning and smog
China	08.04.19	6							https://www.scmp.com/news/china	burned	in connection to fires set for festival

S. Korea	06.04.19	2	35						a/society/article/3005197/six-chinese-people-killed-fires-ching-ming-festival-sees-spike https://gulfnews.com/world/asia/seoul-declares-national-disaster-as-winds-fan-giant-forest-fire-1.1554523904720 https://7news.com.au/news/tas/homes-at-risk-from-fire-on-tasmanias-east-c-51742	1 burned; 1 struck by debris	no details on injuries, presumed burned
Australia	10.04.19			1					https://www.kob.com/new-mexico-news/crews-attacking-grass-fire-near-portales/5312004/	unknown	
USA	11.04.19		1		1				http://www.guardian.co.tt/news/residents-evacuate-6.2.825503.f12763d710	unknown	
Trinidad and Tobago	15.04.19		4						https://www.dailymail.co.uk/wires/aap/article-6929803/Suspicious-grassfire-damages-homes-SA.html	smoke inhalation	
Australia	16.04.19		4						https://www.newscenter1.tv/volunteer-firefighter-passes-away-while-en-route-to-jewel-cave-wildfire/	smoke inhalation	hospitalized
USA	18.04.19			1						medical emergency	while responding to wildfire

Thailand	22.04.19	1							https://www.nationthailand.com/detail/breakingnews/30368107 https://www.themoscowtimes.com/2019/04/22/russias-far-east-braces-for-fresh-wildfires-a65327 https://www.greennpeace.org/international/story/21995/wildfires-in-siberia-what-we-can-do-to-prevent-new-victims/	burned	likely first collapsed from smoke inhalation from escaped grass fire
Russia	22.04.19	1	34						https://radiohrn.hn/2019/04/19/bo-mbero-voluntario-muere-cuando-se-dirigia-a-apagar-un-incendio-en-nicaragua/ https://www.jornada.com.mx/ultimas/2019/04/23/guerrero-mueren-dos-personas-al-sofocar-incendio-forestal-2071.html http://legadodetlapa.com/guerrero/mueren-dos-campesinos-al-tratar-combatir-incendio-en-xochipala-guerrero https://www.periodicocentral.mx/2019/pagina-negra/tragedias/item/9191-por-	burned	4 in critical condition, 4 in serious condition
Nicaragua	19.04.19			1					https://www.jornada.com.mx/ultimas/2019/04/23/guerrero-mueren-dos-personas-al-sofocar-incendio-forestal-2071.html	vehicle-related	rollover while responding to ag fire
Mexico	23.04.19	2							http://legadodetlapa.com/guerrero/mueren-dos-campesinos-al-tratar-combatir-incendio-en-xochipala-guerrero https://www.periodicocentral.mx/2019/pagina-negra/tragedias/item/9191-por-	burned	
Mexico	24.04.19	2							https://www.periodicocentral.mx/2019/pagina-negra/tragedias/item/9191-por-	burned	while fighting fire
Mexico	21.04.19							1	https://www.periodicocentral.mx/2019/pagina-negra/tragedias/item/9191-por-	smoke related accident	

Trinidad and Tobago	30.04.19	1							incendio-forestal-tractocamion-vuelca-en-la-puebla-orizaba http://www.guardian.co.tt/news/bush-fire-claims-life-6.2.835659.082243662b	burned	burned while asleep at home by a bush fire that burned house
USA	30.04.19		1						https://wildfiretoday.com/2019/04/30/arkansas-firefighter-who-had-heart-attack-while-responding-passes-away/ https://eu.redding.com/story/news/local/2019/05/01/truck-forest-service-firefighters-involved-crash-near-burney/3638806002/	medical emergency	while responding to wildfire
USA	01.05.19			10					https://www.znak.com/2019-05-05/pensionerka_pogibla_iz_za_prirodnogo_pozhara_v_kurganskoy_oblasti https://wjon.com/former-michaels-restaurant-owner-dies-after-grass-fire/	vehicle-related	head-on collision, buggy rollover, 2 with serious injuries, 8 minor
Russia	05.05.19	1	11								
USA	06.05.19	1								burned	died from burns from grass fire

S. Sudan	07.05.19	54	60						https://www.aljazeera.com/news/2019/05/south-sudan-bush-fire-kills-dozens-people-190507075855917.html https://www.iol.co.za/news/africa/wildfire-kills-54-people-in-south-sudan-22768009 https://www.periodicodeibiza.es/pi-tiusas/local/2019/04/26/1075587/dos-intoxicados-por-humo-incendio-santaularia-por-quema-descontrolada.html	burned	60 critically injured
Mexico	26.04.19		1	1					https://www.laregion.es/articulo/baixa-limia/fallece-bande-incendio-forestal/20190429183028868806.html https://reporteroshoy.mx/noticias/viejito-muere-quemado-en-incendio-de-montes-de-kinchil/ https://sanluispotosi.quadratin.com.mx/municipios/regiones/muere-comisariado-ajidal-mientras-combatia-incendio/	smoke inhalation	1 bystander, 1 police officer engaged in firefighting
Spain	29.04.19	1							https://reporteroshoy.mx/noticias/viejito-muere-quemado-en-incendio-de-montes-de-kinchil/	burned	escaped ag fire
Mexico	30.04.19	1							https://sanluispotosi.quadratin.com.mx/municipios/regiones/muere-comisariado-ajidal-mientras-combatia-incendio/	burned	
Mexico	01.05.19	1							https://sanluispotosi.quadratin.com.mx/municipios/regiones/muere-comisariado-ajidal-mientras-combatia-incendio/	medical emergency	while fighting fire

Nepal	12.05.19	1	2					https://kathmandupost.com/news/2019-05-12/woman-dies-two-others-hurt-while-trying-to-control-forest-fire-in-salyan.html https://www.periodicodeibiza.es/pi-tiusas/local/2019/04/26/1075587/dos-intoxicados-por-humo-incendio-santa-eularia-por-quema-descontrolada.html	burned	while fighting fire; 2 injured burned seriously - 1 critical
Spain	07.05.19		2					https://www.laregion.es/articulo/baixa-limia/fallece-bande-incendio-forestal/20190429183028868806.html	intoxication	
Spain	07.05.19	1						https://reporteroshoy.mx/noticias/viejito-muere-quemado-en-incendio-de-montes-de-kinchil/	burned	
Mexico	07.05.19								burned	
Mexico	07.05.19	1						https://sanluispotosi.quadratin.com.mx/municipios/regiones/muere-comisariado-ejidal-mientras-combatia-incendio/ https://www.24horas.mx/2019/05/07/muere-brigadista-en-incendio-forestal-de-tixtla-guerrero/		
Mexico	07.05.19			1				https://www.prensalibre.com/ciudades/bombero-muere-en-	fall	50m fall down ravine
Guatemala	13.05.19			1				muere-en-	heat-related	died of heat stroke

Guatemala	16.05.19			1					incendio-forestal-en-peten/ https://www.prensasalibre.com/ciudades/bombero-muere-en-incendio-forestal-en-peten/	Heat stroke	
S. Africa	19.05.19						4	20	https://www.news24.com/SouthAfrica/News/vehicles-scattered-along-the-road-4-killed-in-n1-accident-outside-joburg-20190519	smoke related accident	smoke caused pileup and MCI: 4 dead, 20 injured, some critical
USA	23.05.19	1							https://www.thestate.com/news/local/military/article230748869.html	Unknown	in connection with prescribed fire
Israel	23.05.19		22						https://www.timesofisrael.com/fires-rage-across-israel-amid-heat-wave-homes-evacuated-roads-closed/	1 medical emergency; 21 smoke related	1 stroke, 21 smoke inhalation – all hospitalized
Mexico	24.05.19							6	https://www.cooperativa.cl/noticias/mundo/mexico/helicoptero-que-combatia-un-incendio-forestal-sufrio-un-accidente-en/2019-05-24/221257.html	helicopter accident	
Mexico	26.05.19							6	https://thedefensepost.com/2019/05/26/mexico-navy-mi-17-helicopter-crash-forest-fire/	aviation related	helicopter crash: 1 pilot and 5 soldiers (FF) fighting fire
Mexico	27.05.19				1				https://www.multimedios.com/en-alerta/rescatista-	Heat stroke	

S. Africa	27.05.19								10	20	https://www.news24.com/SouthAfrica/News/9-dead-in-gauteng-horror-crash-20190527 https://www.algoafm.co.za/article/domestic/100558/government-department-laments-road-fatalities https://kathmandupost.com/news/2019-05-26/concerns-over-meagre-financial-support-to-wildfire-victims.html https://steinbachonline.com/local/one-taken-to-hospital-following-smoke-inhalation-at-grass-fire https://www.multimedios.com/en-alerta/rescatista-sufre-golpe-de-calor-mientras-combatia-incendio-forestal-en-santa-catarina	smoke related accident	
Nepal	26.05.19	2									burned	1 new, 1 previously unreported	
USA	01.06.19		1								smoke inhalation	hospitalized	
Mexico	22.05.19				1						heat stroke		
Germany	04.06.19				2						unknown		

Germany	08.06.19			4				Center - vom 04.06.2019 https://www.morgenpost.de/berlin/article225919373/Waldbrand-Brandenburg-Feuer-Jueterbog-Feuerwehr-Rauch-Loescharbeiten-Loeschflugzeuge-Katastrophenfall.html	vehicle-related	fire truck rollover
Australia	07.06.19		1					https://www.9news.com.au/national/wa-news-baldivis-high-school-bushfire-parents-angry-over-children-not-evacuated/03b2178e-5c97-40fb-be66-31aa80589e25	smoke inhalation	
Indonesia	11.06.19			5				https://www.thehindu.com/news/cities/chennai/fire-near-school-triggers-panic-among-students/article7767570.ece	smoke related	fire near classroom impacted students and teachers with eye irritation and breathing problems (probably many more than 5)
Iraq	03.06.19		10					https://www.bellingcat.com/news/mena/2019/06/03/torching-and-extortion-osint-analysis-of-burning-agriculture-in-iraq/	burned	
Iraq	23.05.19		2					https://www.shafaq.com/ar/امن-صباية-شقيقتين-كالكائنين-بانفجار-ناسفة-اثناء-محاولتهما-اطفاء-	other	seriously injured (UXO) while putting out fire

USA	11.06.19			1				الحرائق جنوب-كركوك/ https://www.mercurynews.com/2019/06/11/three-alarm-fire-burns-homes-vegetation-in-san-jose/ https://timesofindia.indiatimes.com/city/dehradun/nepalese-labourer-severely-injured-in-forest-fire/articleshow/69762461.cms	heat-related	dehydration
India	14.06.19			1				https://www.frimedia.org/14-june-main.html	burned	seriously burned
S. Africa	14.06.19		1						unknown	occurred during fire suppression at night
Syria	16.06.19	7		3				https://www.kurdistan24.net/en/news/a09d1cbd-d205-4fed-a30d-befafee41cd8 https://syrianobserver.com/EN/news/51116/ammunition-depot-explosion-rocks-syrian-capital.html	burned	3 FF (civil defence), 7 citizens killed during firefighting efforts
Syria	17.06.19		8					https://www.kurdistan24.net/en/news/ed1803d2-aa52-4e24-b662-09f2fadec6b0	other	8 soldiers injured (some critically) in explosion linked to a wildfire which encroached upon a munition's facility
Iraq	15.06.19	2		5	20			https://www.adelaidenow.com.au/news/south-australia/man-burnt-in-grass-fire-at-two-wells/news-story/306ca5dba5	burned	5 FF (defence forces), 2 civilians dead, 20 injured during firefighting efforts
Australia	16.06.19		1						burned	critically burned (burn ops)

Bolivia	12.06.19								5	9d730889913d9d0a810ef0 https://correodelsur.com/sociedad/20190612_humareda-de-un-incendio-forestal-provoca-colision-multiple-con-heridos.html	smoke related accident	fire on the roadway
Pakistan	24.06.19		25							https://nation.com.pk/24-Jun-2019/forest-fires-affect-billion-tree-tsunami-project	unknown	injured during the fire eruption
Portugal	24.06.19		32							https://www.milenio.com/internacional/europa/en-portugal-bomberos-combaten-incendio-forestal	not specified	
Germany	26.06.19							1		Täglicher Lagebericht des Gemeinsamen Melde- und Lagezentrums von Bund und Ländern (GMLZ) - Zeitraum: 261300Jun19 bis 271300Jun19 MESZ · Bearbeitet von: Frederik Dürholt	unknown	minor
Gambia	03.07.19	1								https://zambiareports.com/2019/07/03/bush-fire-kills-woman-milenge-district/	burned	
USA	02.07.19							1		https://www.newschannel5.com/news/firefighter-taken-to-hospital-after-	unknown	hospitalized

Pakistan	06.07.19	2	2						murfreesboro-brush-fire https://www.dawn.com/news/1492389/two-women-die-fighting-wildfire-in-buner	burned	
Ukraine	04.07.19			1					https://www.kyivpost.com/ukraine-politics/wildfire-reported-in-forest-with-landmines-near-stanytsia-luhanska-1-person-injured.html	other	arm injured, shell-shocked when tractor involved in suppression set off a landmine)
Zambia	08.07.19	1							https://zambiareports.com/2019/07/08/bush-fire-kills-75-year-old-mushindano-woman/	burned	
USA	10.07.19		9						https://www.foxla.com/news/six-flags-magic-mountain-evacuated-as-crews-battle-nearby-two-alarm-brush-fire	smoke inhalation	all hospitalized
Canada	10.07.19						3	1	https://www.greentime.com/news/article/Fire-smoke-cut-visibility-during-fatal-Alaska-14090153.php	smoke related accident	private plane crashed due to smoke

USA	15.07.19			1					https://www.firehouse.com/lodds/news/21088459/fort-jackson-columbia-sc-wildland-firefighter-biologist-dies-in-may-prescribed-burn https://apps.usfa.fema.gov/firefighter-fatalities/fatalityData/detail?fatalityId=4841	unknown	sustained fatal injuries while performing ignitions from an ATV on a prescribed fire (on May 22, 2019)
Russia	16.07.19			1							
USA	17.07.19				2				https://www.nbcsandiego.com/news/local/Cal-Fire-Fighting-Brush-Fire-in-Dehesa-512862151.html https://www.timesofisrael.com/brush-fires-rage-throughout-country-forcing-residents-from-their-homes/ https://www.haaretz.com/israel-news/hundreds-evacuated-after-fires-break-out-across-israel-amid-scorching-heatwave-1.7534939	unknown	
Israel	17.07.19		7						https://zambiareports.com/2019/07/19/2-kasempa-juveniles-die-bushfire-mouse-	smoke inhalation	other minor injuries
Zambia	19.07.19	2								burned	2 toddlers trapped by fire set for rat hunting

Portugal	21.07.19	33	8					https://www.reuters.com/article/us-portugal-wildfires/one-wildfire-remains-active-in-central-portugal-800-firefighters-mobilized-idUSKCN1UG00Z https://idahonews.com/news/nation-world/firefighters-battle-wildfire-in-portugal-32-people-hurt	17 burned?	25 lightly injured, 17 seriously injured
Australia	19.07.19						3	https://www.portnews.com.au/story/6283050/three-injured-in-oxley-highway-multi-car-crash/ https://www.yaktinews.com/news/highway-395-partly-shutdown-in-hermiston-as-crews-battle-flames/1100527417	smoke related accident	fire near roadway
USA	27.07.19	2						https://www.kdrv.com/content/news/Firefighter-injured-while-battling-Milepost-97-fire-513335331.html https://www.kdrv.com/content/news/9-firefighters-injured-in-Milepost-97-Fire-	unknown	
USA	29.07.19		9					https://www.kdrv.com/content/news/9-firefighters-injured-in-Milepost-97-Fire-	1 struck by rock, 2 unknown	1 hospitalized

										so-far-513477991.html		
USA	27.07.19		1							https://www.mercurynews.com/2019/07/27/house-fire-spreading-into-nearby-vegetation-near-morgan-hill/	smoke inhalation	
USA	01.08.19			2						https://www.wyodaily.com/story/2019/08/01/news/lightning-ignites-new-fires-on-bighorn-forest/9438.html	unknown	hospitalized
Algeria	02.08.19		2							https://fr.sputniknews.com/afrique/201908021041851753-des-feux-foret-apocalyptiques-embrasent-algerie-videos/	burned	
France	02.08.19							1		https://www.aerotime.aero/clement.charpentreau/23781-french-waterbomber-crashes-during-forest-fire-one-pilot-dead	aviation related	water bomber crashed
USA	29.07.19								1	https://patch.com/california/san-diego/cal-fire-san-diego-firefighter-dies-after-	medical emergency	collapsed during PT

Canada	05.08.19		1					medical-emergency https://ottawacitizen.com/news/local-news/forest-fire-near-maniwaki-contained	medical emergency	collapsed during firefighting
USA	05.08.19			1				https://www.mercurynews.com/2019/08/05/marsh-complex-wildfires-holding-strong-more-than-750-acres-burned/	heat-related	hospitalized
USA	03.08.19			1				https://mailtribune.com/news/crime-courts-emergencies/east-evans-fire-70-percent-lined	unknown	life-flighted
USA	08.08.19			1				https://www.usnews.com/news/best-states/nevada/articles/2019-08-08/injured-nevada-wildland-firefighter-released-from-hospital	unknown	hospitalized
Greece	13.08.19				1			https://www.citynews1130.com/2019/08/13/fire-burns-through-greek-pine-forest-on-island-near-capital/	burned	volunteer FF
Russia	14.08.19		1					https://sanfrancisco.cbslocal.com/2019/08/15/car-crash-into-power-pole-sparks-	heat-related	hospitalized
USA	15.08.19			1						

S. Africa	23.08.19		1						brush-fire-in-south-san-jose/ https://www.frimedia.org/23-august-marabastadfire.html https://sacramento.cbslocal.com/2019/08/23/7-buildings-destroyed-shasta-county-redding-bella-vista-mountain-fire-friday-updates/ https://www.latimes.com/california/story/2019-08-27/injured-firefighter-released-from-hospital-as-crews-make-progress-in-eagle-rock-brush-fire	smoke inhalation	hospitalized
USA	23.08.19		2						https://www.firefighterclosecalls.com/352106-2/ https://www.youtube.com/watch?v=wnGB5elpWsk https://www.sacbee.com/news/california/fires/article234693492.html	unknown	
USA	27.08.19				1				https://www.smh.com.au/national/nsw/four-homes-lost-one-firefighter-critical-as-unprecedented-fires-blaze-across-nsw-20190907-p52oyw.html	back injury	hospitalized
USA	02.09.19					3				burned	hospitalized
USA	03.09.19					1				burned	hospitalized
USA	04.09.19					2				burned	hospitalized; fire truck overrun by fire
Australia	07.09.19					1				burned	in critical condition

USA	13.09.19			1					https://komonews.com/news/local/firefighter-severely-burned-in-eastern-wash-wildfire-faces-long-recovery-doctor-says https://www.spokesman.com/stories/2019/oct/03/ok-anogan-firefighters-dies-from-injuries-sustained/ https://www.channelnewsasia.com/news/asia/death-toll-rises-as-millions-in-indonesia-suffer-from-raging-11902862 https://www.straitstimes.com/asia/se-asia/baby-girl-and-elderly-man-reported-to-have-died-because-of-haze-in-sumatra https://en.mercurypress.com/2019/09/19/argentine-firefighter-hospitalised-in-bolivia-for-smoke-poisoning https://wildfiretoday.com/2019/09/09/coast-guard-helicopter-uses-hoist-for-night-rescue-of-injured-firefighters/	burned	critically burned (50%+)
Indonesia	13.09.19	10		1						9 burned; 1 FF struck by tree	
Indonesia	17.09.19	2								smoke inhalation	severe haze caused respiratory failure in an infant and older man
Argentina	19.09.19				1					smoke inhalation	hospitalized
USA	09.09.19					2				struck by rock	broken femur and head injury, both serious

USA	26.09.19			1				https://www.wlbt.com/2019/09/26/all-lanes-blocked-hwy-yazoo-co-after-tractor-trailer-crash/	vehicle-related	heavy equipment operator overturned trailer enroute to fire
USA	25.09.19			1				https://www.sacbee.com/news/california/fires/article235479962.html	unknown	minor
Australia	09.10.19	3						https://www.japantimes.co.jp/news/2019/11/09/asia-pacific/first-deaths-australian-bush-fires-season-elderly-couple/	burned	
USA	10.10.19	2						https://en.wikipedia.org/wiki/Sandalwood_Fire	burned	
USA	14.10.19			2				https://www.pe.com/2019/10/14/bush-fire-south-of-corona-leaves-2-firefighters-injured-residents-displaced/	heat-related	hospitalized
USA	18.10.19			2				https://www.wwnylv.com/2019/10/18/firefighters-hurt-battling-clayton-brush-fire/	leg injury, upper body injury	hospitalized
USA	19.10.19				1			https://www.al.com/news/birmingham/2019/10/report-coosa-county-volunteer-firefighter-dies-while-responding-to-brush-fire.html	vehicle-related	water tender rollover responding to fire
USA	20.10.19		1					https://sfbay.ca/2019/10/20/grass-fire-damages-bart-control-	smoke inhalation	hospitalized (utility worker)

S. Africa	22.10.19		3						tower-injures-employee/ https://www.libertianews.net/news/262822816/120-people-lose-homes-in-pretoria-fire# https://www.aljazeera.com/news/2019/10/hellish-scenes-wildfires-engulf-lebanon-191015191252866.html	burned	hospitalized
Lebanon	16.10.19	1	106	1	5				https://en.wikipedia.org/wiki/2019_Lebanon_forest_fires https://eu.ithacajournal.com/story/news/local/2019/10/20/homer-firefighter-dies-during-training/4050248002/	burned	18 hospitalized
USA	11.12.19			1					https://www.arabnews.com/node/1574481/world https://en.wikipedia.org/wiki/Getty_Fire	medical emergency	died during PT
Mexico	26.10.19	3	4						https://time.com/5710371/california-wildfire-map-2019/ https://en.wikipedia.org/wiki/Saddle_Ridge_Fire https://en.wikipedia.org/wiki/Kincaid_Fire	3 burned / 4 unknown injuries	
USA	05.11.19				5				https://en.wikipedia.org/wiki/Saddle_Ridge_Fire	unknown	
USA	31.10.19	1			8				https://en.wikipedia.org/wiki/Kincaid_Fire	1 FF eye injury; 7 FF unknown; 1 person died of cardiac arrest amid evac	
USA	06.11.19				4				https://en.wikipedia.org/wiki/Kincaid_Fire	2 with burns, others unknown	1 hospitalized

USA	06.11.19			4				https://en.wikipedia.org/wiki/Tick_Fire https://time.com/5710371/california-wildfire-map-2019/ https://www.sbsun.com/2019/10/31/new-wildfire-starts-in-area-of-highway-18-and-lower-waterman-canyon-in-san-bernardino/	unknown	
USA	31.10.19			1				https://www.bbc.com/news/world-australia-50413869	smoke inhalation	hospitalized
Australia	12.11.19	4						https://www.news18.com/news/world/13-firefighters-injured-more-than-50-homes-destroyed-in-catastrophic-australian-wildfires-2384397.html	burned	
Australia	13.11.19			13				https://www.bluemountainsgazette.com.au/story/6510360/bushfires-devastate-16m-hectares/?cs=9397	unknown	
Australia	25.11.19			53		1		https://www.manningrivertimes.com.au/story/651188/in-ruins-rfs-confirms-number-of-homes-destroyed-by-bushfire-in-mid-coast/	unknown	
Australia	27.11.19	1							burned	

Australia	05.12.19				3				https://www.smh.com.au/national/nsw/total-fire-bans-for-sydney-hunter-and-illawarra-as-fires-burn-amid-severe-danger-20191205-p53h0l.html	burned	airlifted
Australia	05.12.19				1				https://www.abc.net.au/news/2019-12-05/mandurah-bushfire-emergency-warning-issued/11771606	struck by branch	
Australia	20.12.19			2	3				https://www.abc.net.au/news/2019-12-20/two-volunteer-firefighters-dead-after-nsw-rfs-truck-rolls/11816732	vehicle-related	fire truck rollover when a tree struck
S. Africa	20.12.19				6				https://www.news24.com/SouthAfrica/News/six-firefighters-battling-garden-route-wildfire-treated-for-smoke-inhalation-20191220	smoke inhalation	hospitalized
Australia	22.12.19	1	36						https://www.abc.net.au/news/2019-12-22/adelaide-hills-bushfire-destroys-more-than-70-homes/11821702	burned (fatality) ; "several dozen other injuries"	
Australia	21.12.19	1	1		23				https://www.theguardian.com/australia-	unknown	1 FF serious injury

Chile	26.12.19			12						bushfires-catastrophic-conditions-declared-for-nsw-after-horror-day http://www.digitajournal.com/news/world/chile-authorities-say-forest-fires-deliberate/article/564241 https://www.reuters.com/article/us-australia-bushfires/evacuation-order-in-australia-south-east-as-bushfires-rage-and-temperatures-soar-idUSKBN1YX0L5	unknown	
Australia	30.12.19		1	2						https://www.theguardian.com/australia-news/live/2019/dec/30/australia-victoria-bushfires-evacuated-east-gippsland-fires-news-live-latest-updates	burned	strong winds threw fire truck which was engulfed by flames
Australia	30.12.19			1						https://www.theguardian.com/australia-news/2019/dec/31/australia-bushfires-towns-devastated-and-lives-lost-as-blazes-turn-the-sky-red	burned /injured	strong winds threw a 2nd fire truck injuring FF
Australia	31.12.19	2								https://www.theguardian.com/australia-news/2019/dec/31/australia-bushfires-towns-devastated-and-lives-lost-as-blazes-turn-the-sky-red	burned	This does not include the 2 dead reported in this article
Australia	04.01.20	6									burned	

										news/2020/jan/04/kangaroo-island-fires-virtually-unstoppable-bushfire-deaths	
TOTALS		155	262320	66	263	14	4	17	52		Estimated year end AU totals are

Annex II: Previous Years' Reports

11th Global Wildland Fire Fatalities Report – 2018

IFFN-GFMC UNISDR Global Wildland Fire Network Bulletin No. 24 (# 1 / 2019 – 15 September 2019)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2019-1.pdf>

10th Global Wildland Fire Fatalities Report – 2017

IFFN-GFMC UNISDR Global Wildland Fire Network Bulletin No. 23 (# 1 / 2018 – 31 December 2018)

<http://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2018.pdf>

9th Global Wildland Fire Fatalities Report – 2016

GFMC / IWPM / UNISDR Global Wildland Fire Network Bulletin No. 22 (# 1 / 2017 – 18 December 2017)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2017.pdf>

8th Global Wildland Fire Fatalities Report – 2015

GFMC / IWPM / UNISDR Global Wildland Fire Network Bulletin No. 21 (# 1 / 2016 – 12 September 2016)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2016.pdf>

7th Global Wildland Fire Fatalities Report – 2014

GFMC / IWPM / UNISDR Global Wildland Fire Network Bulletin No. 20 (# 1 / 2015 – 20 April 2015)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2015.pdf>

6th Global Wildland Fire Fatalities Report – 2013

IFFN-GFMC UNISDR Global Wildland Fire Network Bulletin No. 19 (# 1 / 2014 – 30 December 2014)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2014.pdf>

5th Global Wildland Fire Fatalities Report – 2012

IFFN-GFMC UNISDR Global Wildland Fire Network Bulletin No. 18 (# 1 / 2013 – 20 September 2013)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2013.pdf>

4th Global Wildland Fire Fatalities Report – 2011

IFFN-GFMC UNISDR Global Wildland Fire Network Bulletin No. 17 (# 1 / 2012 – 29 July 2012)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2012.pdf>

3rd Global Wildland Fire Fatalities Report – 2010

IFFN-GFMC UNISDR Global Wildland Fire Network Bulletin No. 15 (# 1 / 2011 – 31 July 2011)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2011-1.pdf>

2nd Global Wildland Fire Fatalities Report – 2009

IFFN-GFMC UNISDR Global Wildland Fire Network Bulletin No. 14 (# 1 / 2010 – 19 July 2010)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-01-2010.pdf>

1st Global Wildland Fire Fatalities Report – 2008

IFFN-GFMC UNISDR Global Wildland Fire Network Bulletin No. 13 (# 2 / 2009 – 27 July 2009)

<https://gfmc.online/wp-content/uploads/GFMC-Bulletin-02-2009.pdf>

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