A Publication of the National Wildfire Coordinating Group

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Historical Wildland Firefighter Fatalities 1910-1996

PMS 822

NFES 1849

March 1997, 2nd edition

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prepared by

National Wildfire Coordinating Group Safety and Health Working Team

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This data is an attempt to document historical wildland fire fatalities from the many different wildland fire suppression agencies. This report has been cross-referenced with the National Fire Protection Association and organized in the same seven reporting categories.

This second edition includes 54 additional fatalities and many corrections to the original data in the 1993 document. It also includes 1994, 1995 and 1996 fatality information. Each time this data is shared with fire managers it is updated with new entries and better information. We hope that this document remains dynamic in its changes and continues to be used for training and safety purposes.

This data is available at http://fwspceaa.nifc.r9.fws.gov/~olson/pms/pms.html

Comments regarding this report should be sent to the project leader: Pam Ensley, USDA Forest Service, Gifford Pinchot National Forest, Wind River Ranger District, 1262 Hemlock Road, Carson, WA 98610.

Additional copies of this publication may be ordered from: National Interagency Fire Center, ATTN: Great Basin Cache Supply Office, 3833 S. Development Ave., Boise ID 83705. Order: NFES #1849.

Contents

CE' E-4-1'4- Inform	ation	ii
Summary of Fire Fatality Informa	ation	4 4 4
Fire Fatality Information		1-14
Fire Related (Entrapments)		15-22
Miscellaneous Injury Related		23-25
Vehicle Related		26-29
Natural Activity Related		30
Medical or Sickness Related	The ways pickeding Construences	31-34
Aircraft Accident Related		35
Inflicted Injury Related		36-38

Cause		Number	Percent
Total Fatalities		699	100
Fire Related(Entrapments)		407	58
Miscellaneous Injury Related		26	4
Vehicle Related		75	11
Natural Activity Related		1 .	0.1
Medical or Sickness Related		80	11
Aircraft Accident Related		88	13
Inflicted Injury Related		22	3
Fire Related(Entrapments)		407	58
Overrun		319	78
Backfire		8	2
Spot Fire		36	9
Sleeping on Fireline		4	1
Equipment Operations		23	6
Separated from Crew		10	2
Prescribed Fire		7	2
	Totals	407	100
Miscellaneous Injury Related		26	4
Electrocution		7	26
Drowned	Men have press	3	Experies publit, miner again
Fell into Fire		1	4
Aspyxiation		2	8
Unknown		6	23
Toxic Chemical Contact		2	8
Training		3	12
Equipment related		2	8
	Totals	26	100
Vehicle Related		75	11
Responding to Fire		29	39
Returning from Fire		6	8
Struck by Vehicle		6	8
Equipment rollover on fire		21	28
Collision with Train		4	5
Riding on Apparatus		9	12
	Totals	75	100
Natural Activity Related		1	0.1
Medical or Sickness Related		80	11
Heart Attack		72	90
Stroke		3	4
Pheumonia		1	1
Heat Stroke		3	4
Embolism		1	1
	Totals	80	100
Aircraft Accident Related		62	13
Inflicted Injury Related		22	3
Rolling Rocks	3 1 1 22	1	5
Snag		19	86
Snag Felling		2	9
	Total	22	100

DATE	FIRE NAME/	No.	AGENCY	FIRE BEHAVIOR OBSERVED	REMARKS
1010		72	USFS	Dry fuels and lightning followed by strong winds	Seven large crews were overrun with no access,
910	Coeur d'Alene	12	USFS	caused massive firestorms and rapid runs.	communication, and little equipment available.
	St. Joe, ID		USFS	Same as above.	Four men panicked in an entrapment situation, ran uphill
910	Cabinet NF	4	USFS	Same as above.	out of a rock slide being used as a safety zone.
			LICEC		Two men ran into the flames. Witnesses said they appeared
1910	Pend Oreille NF	2	USFS	Same as above.	disoriented by smoke.
926	King's Canyon	5	USFS	Unanticipated downslope winds on lee side	Firefighters had gone downhill for water and were
	Toiyabe NF, CA			of 'Sierras pushed fire into second growth with brush.	trapped on the road when the wind changed.
929	Dollar Mt. Colville NF, WA	1	USFS	Sudden wind change in relatively light fuels.	Firefighter tried to outrun fire uphill.
1931	Coffee Mill	3	CDF	Unknown	
-	Mariposa Ru, CA			EXCUSED STATE OF THE PROPERTY	paradologica sance describe in uniquently sees at solve on here.
1933	Kamus Burn	2	USFS	Fire in light fuels and wind changed direction.	Firefighters tried to outrun fire but failed.
1077	Okanagon NF, WA Griffith Park, CA	25	Other	Fire burned in light chaparral near Griffith Park.	Firefighters tried to run to safety. 128 injured.
1933	Griffith Park, CA	25	Other	Winds shifted.	
1075	Western Orange Co., CA	1	CDF	Unknown	Vehicle accident on the way to a fire.
935		5	Other	Wind shift in grass and trees.	Backfire operation.
1936	Chatsworth, NJ	15	USFS	Sudden wind caused fire to blow up in heavy	Firefighters went in from top toward spot fire. Part of the
937	Blackwater	15	USFS		crew found safety on a rock point.
	Shoshone NF, WY		LICEC	douglas-fir reburn. Spotfire made run uphill.	CCC foremen was pulling his crew out when it started to
1937	Welcome Lake Huron NF, MI	1	USFS	Early spring fire, strong, dry winds from west. Fire crowned in jack pine and plantation.	crown. He was looking for 2 of his people, died within 100
SAME.					feet of safety.
1938	Pepper Run, PA	8	Other	Fire burning in mix hardwood on fairly steep	Squad boss told firefighters to run for safety. All ran
				slope. Wind shifted and cross fireline below.	uphill and were caught by fire. 134 acres.
1939	Rock Creek, Humboldt	5	USFS	Sagebrush and grass fire made an	Five CCC firefighters from Paradise Camp died near the
	Toiyabe NF, CA			unanticipated run upslope.	head of Rock Creek.
1939	Bixby Mt. Carmel, CA San Benito-Monterey Ru	1	CDF	Unknown	Died of burns. Calandra lookout was named for him.
1940	Silver Plume, Lincoln NF, NM	1	USFS	Sudden wind change and fire flared up.	Firefighter sleeping outside fireline.
1941	Kawailoa, HI	2	Other	Flashy fuels and the winds changed.	Two firefighters were unable to gain safety in thick staghorn fern.
1942	Weed Siskiyou Ru, CA	1	CDF	Truck fire.	Firefighter was run over by a vehicle at a truck fire in woods.
1942	Williams Hills	1	USFS	Fire made a run in chamise and buckwheat.	Dozer operator was building line in advance of fire.
1943	Los Padres NF, CA		00.0		Dozer threw a track, operator was overrun.
1047	Burley Dist. I2	2	Unknown	Running brush fire.	Two firefighters trapped at head of the fire.
1943	Rogers, ID	-	JIKIOWII	Training Stadil III C.	SAUNCHE SECONDO PROPER CURA (CONCESTUAL MARIE
1047	Hauser Creek	11	USFS	Sudden wind shift under Santa Ana	Crew of Marines caught in small canyon on main Hauser Creek
1943			0313	conditions. Maximum wind 8mph SW.	(72 injuries).
1047	Cleveland NF, CA	1	CDF	Unknown	Died of burns.
1943	Sweetwater Canyon	1 1	CDF	OTIKITOWIT	
1011	San Benito-Monterey Ru, CA	1	USFS	Unknown	Man found in sitting position on trail, fire had burned around
1944	Hot Spring, Payette NF	1	0313	Olikilowii	him. Suspected heart attack or other health problem.
1945	ID San Benito-Monterey Ru	1	CDF	Unknown	Died of burns. Body not found until 1946.
	Near Calandra Lookout Williams Canyon, CA				

1945	San Diego Ru	1	CDF	Unknown	Died as a result of injuries sustained at a fire. He was
	CA				talking with dozer operator, caught his pants in the
	DARGO, PARISIONA PARISIONA				tracks and was pulled between the tracks and fender.
946	Council, ID	1	USFS	Unknown	Jumper fatality. Was killed by snag. 7-5-46
	an Luis Obispo Ru, CA	1	CDF	Unknown	Died as a result of an engine rollover in fire.
947	Bryant Canyon	2	USFS	Spot fire below men burned upslope,	Burning rat ran out of main fire into brush. Spot fire spread
	Angeles NF, CA		And and Allert and	trapping men in unburned fuel.	uphill under men.
1948	Barrett Dam	1	USFS	Winds changed at night from SW to east	Firefighter was separated from his crew.
340	Cleveland NF, CA		Service Control of the latest	and fire flared up.	Early Salation
1949	Walton Spur	1	USFS	Swirling winds in light fuels in Tuolumne	Dozer operator trapped above fire.
1343	Stanislaus NF, CA	A FACTOR		River Canyon.	TO SEE THE PROPERTY OF THE PRO
1949	Warm Springs	1	USFS	Unanticipated strong winds caused flareup.	Firefighter dropped behind crew to eat lunch and
1343	Payette NF, ID			Charles and the last the state of the state	was trapped.
1949	Hells Canyon	1	USFS	Fire fanned by high winds.	Firefighter stumbled and fell into fire.
343	Payette NF, ID			THE SHOULD SEE THE SH	County of everter term building that in advance of this.
1949	Mann Gulch	13	USFS	Rapid spread in light fuels burned upslope.	Smokejumpers jumped into unburned basin and fire hooked
1343	Helena NF, MT			Hot dry weather.	below them. Most firefighters failed to use burned area and
					were overrun.
1949	Oroville, Butte Ru, CA	3	CDF	Unknown	Killed while responding to a fire. Vehicle Accident.
1949	Napa Ru, CA	1	CDF	Unknown	Died of heart attack.
950	Cleveland NF, CA	1	CDF	Trabucco Road	Fire took off from below, one firefighter made it to safety.
1950	Orange Ru, CA	1	CDF	Unknown	Died of asphyxiation.
1950	Pelitor Fire	1	CDF	Unknown	One CDF firefighter and three soldiers died of burns.
	San Luis Obispo Ru, CA	3	Other	MANAGE AND RELIGIOUS PARTS CARDES TO SERVE SANDERS	· · · · · · · · · · · · · · · · · · ·
	Glenville Dist.	1	Other	Sagebrush and grass, high winds, high	Individual firefighter fell in exhaustion in the fire's path.
1952	AR .		0 01101	FDR, and homes threatened.	Lead of Society
1050	Morrell Fire	1	CDF	Unknown	Died of burns.
1952	Riverside Ru, CA	and the			CCC Registration was assisting the sample well are also be scarciaged to
1050	Old Camp Fire	1	CDF	Unknown	Died of burns.
1952		0.4	05.		ELECTRONICS AND A DESCRIPTION OF THE SAME AND AND ADDRESS.
1057	Orange Ru, CA Rattlesnake	15	USFS	Unanticipated evening downslope wind.	Part of the crew trapped during lunch break on a spot fire.
1953		1 1 3	03.5	Local Fire Behavior	Tried to outrun fire downhill.
1057	Mendocino NF, CA Bonnie Blue, VA	1	Other	Fire burned rapidly up a steep slope.	Firefighter became separated from the crew.
1953	Tulare Ru; CA	1	CDF	Unknown	Died of heart attack while dispatching.
1953	Ranch, El Dorado Ru, CA	1	CDF	Unknown	Died of heart attack on fire.
		-	L.A. County	Total Control of the	Chief of L.A. Fire Dept. killed responding to fire.
1953	Little Ti Fire, CA	3	USFS	Mono (dry east) winds caused a flareup	Firefighters were sleeping in unburned area at edge of fire.
1954	Tunnel No. 6	3	0313	at night.	
	Tahoe NF; CA	3	Other	Strong wind pushed upslope and it crowned.	Firefighters were caught on slope above fire.
1954	Gap Creek, TN		CDF	Unknown	Died when dozer rolled over.
1954	Sugar Loaf Fire	1	CDF	Olikiowii	
1001	Calaveras Ru, CA	1	CDF	Unknown	Died when engine was struck by train.
1954	San Benito Ru, CA	1			Died as a result of contact with toxic chemicals on
1954	Tulare Ru; CA	1	CDF	Unknown	wildland fire.
		-	Other	Spot fire in woods.	Fire surrounded driver, he burned to death along
1955	Brickyard, NJ	1	Other	Spot life iii woods.	Turner's Road.
18/69		1	LICEC	Fire was being manned up in eage and crass	Firefighter was separated from his crew and tried to outrun
1955	Sagebrush	1	USFS	Fire was being mopped up in sage and grass. Drafts from a cumulus cloud caused winds.	fire uphill. Remainder of crew reached a safety zone.
A PRODUCTION OF THE PARTY OF TH	Malheur NF, OR	-	-		Foreman and crew were in bowl-like area when
1955	Hacienda, CA	5	Other	Light fuel, high temp., low RH and unstable.	flashover occurred.
		-			Firefighter tried to outrun fire uphill.
1955	Johnson Fire	1	Unknown	Fire Danger Rating "Extreme," and fire made	Fileligitter tried to outrain life aprilin
	Prescott, AZ	-		run in light fuels.	Crew working on indirect line in steep canyon. Fire hooked
1956	Inaja, Cleveland NF	11	USFS	Upslope winds in pm when Santa Ana winds	under them before they could reach safety.
	CA			ceased. Fire ran uphill.	Fire Fatality Informat

956	East Highlands San Bernadino NF, CA	1.	USFS	Upslope wind in light fuel after Santa Anas tapered off at night.	Dozer operator trapped before he could reach safety.
956	Beegum Fires, Shasta, CA	4	CDF	Unknown	Died in vehicle accident returning to station from fire.
956	Humboldt Ru, CA	1	CDF	Unknown	A cook died of a heart attack while on duty.
	Sonoma Ranger Unit, CA	1	CDF	Unknown	Died of heart attack.
956	Shasta Ru. CA	1	CDF	Unknown	Died of electrocution.
958	Albert Ranch	1	USFS	Minor flareup as wind changed at night.	Firefighter trapped ahead of fire.
958	Angeles NF, CA				Companies de la companie de la compa
958	Stewart Cleveland NF, CA	1	USFS	Minor flareup in chaparral under weakening Santa Ana conditions.	Firefighter scouting in brush ahead of fire.
959	Decker	5	USFS	Downslope afternoon wind stopped and	District Ranger and five men on state highway when
	Cleveland NF, CA	1	CDF	fire came upslope in early evening.	fire came upslope, caught them in the open.
959	Gun, Angeles NF CA	1	USFS	Minor flareup. Fire in front country canyon. Winds changed.	Firefighter was laying hose uphill and was caught by fishhook.
959	Dry, Sequoia NF	1	USFS	Unexpected downslope afternoon wind on	Two firefighters were returning after going downhill for
359	CA		0313	east facing slope.	water. Fire came down hill and trapped them there.
1959	Pennington, TX	1	Other	High winds in grassy fuels.	Man on grader got in front of head of fire and was killed.
		1	CDF	Unknown	Died of burns.
1959	San Luis Obispo Ru, CA	1	Unknown	Very hot, dry, unstable atmosphere.	Tried to outrun fire but apparently had a heart attack.
1959	Stable Fire San Bernardino N.F., CA	'	Unknown	very not, dry, unstable atmosphere.	
1959	Butte Ru, CA	1	CDF	Unknown	Died after a heart attack, just finishing his shift at fire.
1959	Scott Fire, El Dorado Ru, CA	1	CDF	Unknown	Killed by a rolling rock.
1959	Sequoia NF	1	USFS	Unknown	Aircraft crash. Fire in canyon between rock bluffs. Pilot
	Tule River RD, CA				volunteered to dive low and drop in hazardous condition.
1959	Woodwardia Fire, CA	2	Unknown	Unknown	Airtanker dropped killing Native American crew members.
1960	Cummings Creek	1	USFS	Unexpected wind change in light fuel on	Firefighter dropped behind and couldn't keep up
CHECKE	Umatilla NF, OR			ridge.	with the crew. Fire flared up below them.
1960	Silver City	1	Other	Fire in grass.	Firefighter burned to death while attempting to put out
name .	NC		ALEKSAN.		grass fire.
1960	FL	1	Other	Light fuels and unanticipated wind change.	Two people in jeep, one ran to safety.
1960	Lumberyard Fire Orange Ru, CA	1	CDF	Unknown	Died of pneumonia contracted on the fire.
1960	Sequoia NF, CA	1	CDF	Unknown	Aircraft crash. Airtanker came over ridge for drop and
1300	Tule Indian Res.			The state of the s	clipped ridge. Reservation protection provided by USFS.
1960	Siskiyou NF, OR	1	USFS	Unknown	Snag fell on firefighter.
	Millard Fire, Angeles N.F., CA	1	Unknown	Unknown	AT 6 Airtanker crashed killing pilot.
1961	Higgins Ridge, UT	1	Utah State	Unknown	Walked into main rotor.
1961	Clearwater NF, ID	1	USFS	Unknown	Firefighter killed by snag.
1961	Sierra, Angeles NF, CA	1	USFS	Sudden, unanticipated wind change.	Firefighter unable to gain safety in time.
1961	Silver Creek	2	USFS	Fire spotted in extremely steep terrain light	Crew went to a chute above spot fire, all except two
1961	Nez Perce NF. ID	-	03/3	fuel under gusty winds near bottom of fire.	left chute when danger was obvious.
1001	Los Posadas	1	CDF	Gasoline used at the fire station remained	Died of burns on wildland fire.
1961			CDI	on clothing.	
1001	Napa Ru, CA	3	USFS	Unknown	Helicopter crash (Bell 3-GB). Ship on reconaissance of
1961	Sequoia NF, CA	3	USFS	Olikilowii	fire, returned to base due to lack of fuel.
1000	Cannell Mdw RD	A	USFS	Hat dry unetable atmosphere and light fuels	Tornado-like action from air tanker vortices probably
1962	Timberlodge	4	USFS	Hot, dry, unstable atmosphere and light fuels.	caused fire to blow up and trapped firefighters.
	Sierra NF, CA		CDE		Died of heart attack.
1962	Lassen-Modoc Ru, CA	1	CDF	Unknown	
	Susanville-Lassen-Modoc, CA	1	CDF	Unknown	Died of heart attack.
1963	GA	1	Other	Escaped control burn.	Firefighter overcome by smoke and/or coronary.
1963	Mt. Bullion-Madera Mariposa Ru, CA	1	CDF	Unknown	Died of electrocution.

1964	Coyote	1	USF\$	Downslope wind through saddle in early	Firefighters panicked and ran to lower part of saddle
	Los Padres NF, CA			afternoon.	where temperature and carbon monoxide concentrations.
					were too high
964	Joshua Falls, VA	1	Other	Fire burned up draw toward firefighters.	A firefighter apparently refused to follow boss and
				Calculate the Calculate Alexandria to the first of the first of the calculate and th	was killed by heat.
964	Don Pedro Fire	1	CDF	Unknown	Died of burns.
	Tuolumne Ru, CA				The state of the s
964	San Bernadino Ru, CA	1	CDF	Unknown	Engine collided with a train responding to wildland fire.
964	Tulare Ru, CA	1	CDF	Unknown	Died of heart attack while dispatching.
965	Eldorado NF, CA	1	USF\$	Unknown. Occurred during nightshift.	Firefighter died of asphyxiation. Was staying warm in vehicle.
1965	Santa Clara Ru, CA	- 1	CDF	Unknown	Died of heart attack.
1965	Helker, NC	1	Other	Wind speed increased, burning in sedge.	Man helping in control burn, caught in wire fence and burned.
1965	Kyle Fire Riverside Ru, CA	1	CDF	Unknown	
1965	Fairview Hollow, KY	3	Other	Fire in light fuels on steep slope.	Firefighters overrun by fire on steep slope.
1965	McCall, ID	2	USFS	Unknown	A jump plane crashed with spotter and pilot aboard.
					Occurred on a paracargo run after Jumpers were dropped.
1965	Liebre Fire, Angeles N.F., CA	1	L.A. County	Unknown	L.A. Captain died setting backfire to save engine crew.
1966	Loop	12	USFS	Unanticipated upslope wind in afternoon	Crew cutting handline downhill in a chimney and part of the
	Angeles NF, CA			after Santa Ana winds stopped.	crew was unable to reach safety.
1966	Fairbanks, AK.	1	BLM	N/A	Smoke jumper strangled during let-down after practice jump.
1967	Balliff	1	USFS	Flareup at night in light fuel on steep slope.	Firefighter fell trying to escape flareup.
130/	San Bernadino NF, CA	- 77			
1967	Sundance	2	USFS	Fire blew up and made major run toward	Dozer operator and firefighter were ahead of fire and
. 50/	Kootenai NF, MT			north under strong wind conditions.	overrun. They tried to hide under the blade.
1967	Slaughter	1	USFS	Fire became intense in precommercial	Incident Commander tried to outrun fire and couldn't hear
1907	Apache NF, AZ			thinning slash.	warning calls from crew on road.
1967	Windsor, SC	1	Other	Weather dry and windy. Fire was moving	Firefighter trapped by fast moving head fire in dense smoke.
				fast and erratic in pine.	
1967	MI	1	Other	Small fire, flashy fuels and gusty winds.	Firefighter lost backfire. Died of wounds 3 days later.
1967	Range, KS	1	Other	Fire in dense grass.	Firefighter panicked and tried to outrun fire.
1967	Ginnis Lake	1	State	Red pine plantation and oak near lake.	One man on tractor with plow was on a spot fire
	WI, DNR				ahead of the main fire and was caught by fire.
1967	San Benito Monterey Ru, CA	1	CDF	Unknown	Died in dump truck accident.
1967	Livengood, AK.	2	BLM	Unknown	B-25 crash due to late pull-out during retardant drop
		-	contractors		on fire.
1968	Sonoma Ru Briggs Crk, CA	1	CDF	Unknown	Died in a vehicle accident. Engine rolled over.
1968	Canyon	8	USFS	Santa Ana weakened and unanticipated wind	Firefighters tried to outrun fire uphill after flareup in brush
, , , ,	Angeles NF, CA	-		pushed fire upslope in late morning.	below them,
1968	NC	1	PVT,	Unknown	A county ranger was suppressing fire. Died of third degree burns
1968	Ivey, FL	1	Unknown	Heavy wiregrass. Unanticipated wind.	Dozer caught on stump. Operator overrun by fire.
1968	North Carolina #2, NC	1	Other	Unknown	Man, age 84, tried to beat fire with pine tops. Clothes
		1	1196		caught fire, was dead when found.
1968	Riverside Ru, CA	1	CDF	Unknown	Died of heart attack.
1968	Williams	1	USFS	High temps, local gusty winds, cumulus	Burned trying to outrun fire.
. 503	Coronado NF, AZ			clouds near the fire.	
1968	McGrath, AK.	4	BLM and	Unknown	PB4Y2 air tanker crash enroute to fire after reload.
1300	Wicolauli, Alc		contractors		(Three crew persons and one BLM observer killed.)
1969	Campbell Crk. Butte Ru, CA	1	CDF	Unknown	Died in a vehicle accident. Engine rolled over.
1969	Shasta-Trinity NF, CA	1	USFS	Unknown	Smokejumper fatality.
19/0		5	BLM	N/A	Four BLM firefighters and co-pilot killed when overloaded DC-3
1070					
1970	McGrath, AK.	1 3	contractors	## [대통령 [발생] [대통령 [대통령] [대통령 [대통령] [대통령 [대통령] [대통령 [대통령]	had an engine failure and crashed during takeoff-22 survived crash, but were seriously injured. Enroute.

1971	Banning (also known as Mack 2) San Bernadino NF, CA	1	USFS	Fire ran upslope in early evening,	Member of engine crew was laying hose downhill from road at night.
1971	Hog	1	Other	Unknown	National Guard drowned while swimming in river near fire camp.
971	Eagle Rock, VA	1	Other	Reburn in rhododendron. Steep slope.	Three men were felling snags and were trapped by fire.
971	Banks, AR	1	Other	Medium fuels, mod. winds, very high FDR,	Man was knocked unconscious by falling tree. He fatally burned.
971	Romero Los Padres NF CA	4	USFS	Strong "sundowner" (Santa Ana) wind pushed fire downhill in the evening as expected.	Dozer operator and three firefighters burned to death as they hurried downhill.
971	Lake Minchumina, AK.	1	BLM	Unknown	Firefighter struck by main rotor while exiting helicopter after emergency landing due to engine fallure.
1972	Harris Ridge, ID	2	Other	Steep, rocky terrain, dry fuels and thunderstorms caused squirrelly winds,	Two men on fireline. A rolling log hit them and they rolled into the fire, dying of suffocation.
1972	Warthog Morgan Co., TN	1	Other	Small 24 ac, fire. Wind gusts 20-25 mph, Fire crossed plowed line.	Plow operator trapped and suffocated on bench on upper side of fire.
1972	Mud Springs Fire Mendocino Ru, CA	1	CDF	Unknown	Crew supervisor died of heart attack on the fire.
1972	Burnt Ridge Fire	1	Unknown	Unknown	Heart attack, firefighter collapsed on the fireline.
1972	Bear Fire	7	BLM	Unknown	Evergreen 205 crashed killing the pilot and 6 members
13/2	Las Padres N.F., CA		contractors		of a handcrew.
1973	Monterey Ru, CA	1	CDF	Unknown	Lookout died of heart attack.
1973	GA	8	Other	Escaped control burn.	Eight firefighters died of heart attacks. 3 over 70 yrs.
1973	Bell Valley, CA	1	CDF	Light brush. Weather clear and hot. Gentle	Equipment engineer and firefighter working on flank of fire
13/3	Bell valley, GA			rolling topography.	near a gully. Man ran to road after a flareup, but died.
1973	Tuolumne - Calaveras Ru, CA	1	CDF	Unknown	Died in helicopter crash,
1973	Eureka, NV	2	BLM	Unknown	B-17 airtanker crashed when severe turbulence was encountered
13/3	Edi Cita, 144		contractors	CONTROL OF THE PROPERTY OF THE	while in low altitude, slow air speed phase of fire mission.
1974	Lindsay Fire Coronado N.F., CA	1	USFS	Unknown	Air crash. Air tanker making a drop. Class G fire.
1974	Kiana, AK	1	BLM	N/A	A piper twin engine being used for air attack crashed attempting
1377			contractors		take off with only one engine, only the pliot aboard.
1974	Boise, ID	1	BLM contractors	N/A	B-26 airtanker collided w/another aircraft while taxing for take off on fire mission, pilot killed. Pilot of other aircraft [non-fire related] was also killed.
1974	WashIngton	5	Unknown	Grass fire, steep canyon.	5 firefighters riding on the outside of an engine were crushed when engine rolled, while climbing up a steep hill to the head of a grass fire.
1975	Stockton, UT	2	PVT.	Sagebrush and grass, gentle to rolling topography. Wind changed direction.	Two county deputy sheriffs were working on flank of a small fire when the wind shifted.
1975	San Benito-Monterey Ru, CA	1	CDF	Unknown	Died of electrocution at a fire,
1976		3	BLM	Frost-killed brush slope and narrow chimneys induced extreme fire behavior and uphill runs.	High intensity uphill run occurred during firing operations below a saddle exposed ridgeline.
1976		1	Other	Flashover occurred from building up gases on lee side of the wind break.	Fireman tried to outrun fire. An engine also burned.
1976	Grand Junction, CO	1	BLM	Unknown	B-26 contract pilot killed on retardant run.
1977		3	USFS	Wind changed on steep slope. Small fire.	Fire overtook crew on steep slope in sagebrush grass.
1977		1	USFS	Steep slopes, ponderosa pine. Fire spotted	Foreman was scouting and fire crossed the canyon below him.
	WA			across canyon and spread rapidly uphill.	
1977		1	Unknown	Shifting winds in 10' grass in a gully, spot fires.	Firefighters overrun after spot fires experienced.
1977		4	Other	Crown fire during drought conditions.	Crew in converted military truck were trapped when they missed evacuation message.

977	Hönda Canyon	3		Change in wind in dry brush with erratic	Fire Chief and assistant trapped while checking fire perimeter. Dozer operator also overtaken while widening fireline. All ran
	Vandenburg AFB, CA	-		winds 80 mph. Fire was pushed downhill	
	Control of the second second			in light brush by Santa Ana winds.	downhill to escape. Firefighter became trapped after engine became immobilized.
977	Riverside, TX	1	Other	Winds gusting to 45 mph. Fire in heavy	Man trapped between fire and truck, fell and burned.
				grass with strong winds.	Firefighter was trapped as he attempted to extinguish a purning
977	Washington #1	1	Unknown	30-40 mph winds with convection currents	
	WA	-		creating a 100' wide 1000' high whirlwind	field of grass.
	The second secon	P. B.		of fire.	Helicopter night flying, one helicopter landed on top of the other
977	Middle Fire Angeles N.F., CA	2	L.A. County	Unknown	
184				PARTIES FOR ALL APPRICAGE CONTRACTOR OF THE PARTIES AND A PROPERTY OF THE PARTIES AND A PROPERTY OF THE PARTIES AND A PARTIES AN	at helibase. One firefighter was trapped in burning operation and died.
978	Lost Creek, OR	1	BLM	Slash burning 15 acres. Doug-fir clearcut.	One firefighter was trapped in burning operation and died.
978	Terrell County, GA	1	Other	Fire in pine/grass pushed by 17 mph winds.	Tractor plow operator became confused in smoke and
	Design Carper Care Care	ANT			went into fire.
978	Shasta Ru, CA	1	CDF	Unknown	Died of heat stroke.
978	San Luis Obispo Ru, CA	1	CDF	Unknown	Died in the crash of "Airco 53".
978	Shoshone, ID	1	BLM	N/A	Engine returning from fire went off road and rolled over.
979	Saratoga Springs, CA	1	CDF	Fresh firefighter on 10 ac brush fire in June.	Firefighter either overcome by carbon monoxide or had
3/3	Suratoga springs, six				a heart attack.
979	Santa Clara Ru, CA	1	CDF	Unknown	Died of heat stroke.
-	Oklahoma #1	1	Unknown	Wind shifted, brought fire around crew.	Firefighters drove trucks into unburned grass to attack fire.
979	OK		LED METERS TO 12		Victim was caught trying to outrun fire on foot.
070	Ship Island	1	USFS	Rapid fire spread.	Crew member and others were in helispot when the fire came.
979		1	Contract of the second		Victim succumbed to smoke and hot air inhalation in fire
100	Salmon NF		T BITTER	The state of the s	shelter which had been deployed near a pile of gear. He
	ID		The same of the same		was not 'wearing gloves.
1,1111		4	CDF	Sudden change in wind direction	Crew walking on dozed fireline were overrun by fire.
979		4	CDF	trapped crew.	The transfer of some seem walks and appearing which are
	San Luis Obispo Ru	-	Other	Prescribed fire escaped and became a	Tractor plow operator overrun by escaped prescribed fire.
1979	Okefenokee, FL	1	Other	wildfire with a sudden wind shift.	
		-	CDF	Unknown	Died of toxic chemical exposure on wildland fire.
1979		1	CDF		Reported in AugSept. 1979, Western Conference Journal.
1979		1	Other	Unknown	Firefighter riding on back step of brush fire engine, flanking the
1979	Texas	1	Unknown	Brush, pasture fire.	fire. Smoke and heat became too intense, engine pulled off
	A STATE OF THE PROPERTY OF THE PARTY OF THE				fireline, losing firefighter off the back. Firefighter taken to
	The same of the sa	-			
		1	B - DWS - DASA		hospital died 3 days later of thermal burns.
1070	Central, AK	1	BLM	N/A	Firefighter drowned in creek while swimming at fire camp.
1979		1	USFS	Prescribed burn escaped into dense	Tractor operator building fireline was swept over by fire.
1980	Huron Manistee NF, MI	1		pine.	Tried to escape by foot.
	- un max	1	Unknown	Unknown	Firefighter fatally burned by grass fire.
1980		1	CDF	Unknown	Engine rolled down a steep burning hill. Winching accident.
1980		1	Unknown	Unknown	Firefighter was on top of engine operating a hand line and trying
1980	California	1	Olikilowii	Onknown	to cut off head of fire. Driver, in heavy smoke, drove into gully
			28174	(10) ppin	rolling the engine and crushed firefighter.
		-	DIM - 1	Links our	Light fixed wing crashed killing pilot and 3 district fire personnel
1980	Ely District BLM - NV	4	BLM and	Unknown	People in the plane were attempting to drop a message to fire
		1	contractors		crews on ground, message got caught in tail of plane
			L. Calles	Explores a proper to the second second of the second secon	causing it to crash.
				11. 15	Two person tractor plow crew was overrun by fire.
1981	Merritt Island	2	Other	Winds shifted and increased to 45 mph.	Attempted to out run fire.
	USFWS			Heavy fuel stressed by drought conditions.	Attempted to out full life.
	Kennedy Space Center, FL			STREET, STREET	Fire grew on spot fire crew. They escaped opposite chief, then
1981	Elizabeth, Angeles NF	1	USFS	Unknown	Fire grew on spot fire crew. They escaped opposite chief, then
	CA				left local department. Chief drove out of fire, but died when
					he returned to search for departed crew. Fire Fatality Information

Williams Hill, \$C			by drought conditions.	shelter under tractor, got hot and tried to run through fire.
Paul, ID			- / - · · · · · · · · · · · · · · · · ·	
Paul, ID				Second firefighter ran to safety of nearby road.
	3	BLM	Unknown	C-182 aircraft struck electrical wire. Three killed.
Canoe Landing, WI	1	State	Erratic wind conditions. Fire involved	Sudden change in wind direction trapped a tractor plow
Eau Claire Co. Forest			timber and brush.	operator while plowing fireline.
Humboldt Ru, CA	1	CDF	Unknown	Died of heart attack while walking his crew to fire.
	1	Unknown	Firewhirl developed in portion of log	Prescribed burn in logging debris. Operator of plow
	Paris and			caught by firewhirl as he attempted to suppress spot
(State 1)				fire.
Neveds #1	1	Carson City		Two groups were conducting a backfire operation when
Nevaua #1				winds shifted. Both drove out of the area thinking victim
				was with the other group. Victim's fire shelter
		The second secon		was with one of the engines
THE NIV	1		Unknown	Using firebroom to extinguish grass fire.
				Extinguishing a grass fire.
				Advancing a hoseline at a woods fire.
				Extinguishing a leaf fire.
				Responding to a grass fire.
	-			Working at a woods fire.
				Extinguishing a grass fire.
				Fighting a grass fire.
				Firefighter died of heart attack while in fire camp.
		BLM	N/A	B-26 hit tree on drop run. 3/5/83
			William Control of the Control of th	Operating at a grass fire.
				Operating at a brush fire.
Mena, AR Ouachita NF	2	USFS	Unknown	Cutting fireline.
Rainbow Springs	2	USFS	Moderate drought conditions, 30 mph	A tractor boss and dozer operator were caught in sudden
Ouachita NF		ACTUAL TO COMMO	winds, fire burning in pine and brush	flareup while traveling down fireline. Abandoned dozer
AR			on 30-50% slope.	and tried to out run fire.
Sweet Home, OR	1	BLM	Unknown	Working at prescribed burn of 46 acres.
	1	CDF	Light fuels	Operating with backpack extinguishers on grass fire, stepped
				on powerline. Died of electrocution.
	1	CDF	Light fuels	Stretching hoseline to fire, no safety gear, direct attack,
				volunteer firefighter
	1	Unknown	42 mph winds with fire burning in grass	Firefighter took position near the head of the fire to attack
		et tenan	and rangeland. Wind suddenly	with hoseline. Wind changed direction pushing fire
The state of the s			changed direction,	towards engines. Firefighter abandoned their engines
			Services alsony winds beautiful. Street ing.	and tried to out run fire.
Forest Hill I A	1	Unknown	Unknown	Responding to grass fire. In private vehicle.
		Unknown	Unknown	Responding to grass fire in Roxbury, VT.
				Responding to grass fire.
			Unknown	Responding to forest fire.
			· · · · · · · · · · · · · · · · · · ·	Responding to grass fire.
	_			Firefighter riding on back of engine as driver backed down dirt
Relitucky	1	- CHIKITOWIT		road, engine passed over rut, bounced off one firefighter
		Definite.		who was run over by the rear wheels.
Maharatah Ladas	2	RIA	Fire hurning in sagebrush, grass and	Three people tried to extinguish fire by beating flames with
	1 -	DIA		blankets. It appeared to be under control, fire below
Warm Springs, UK			Jumper.	them ran. Two ran uphill, flanking perimeter and were over
				run. One survivor took refuge in the black, severe burns.
	-	I I I I I I I I I I I I I I I I I I I	Fire enotted across line during	Operator of dozer caught by fire while cutting line.
	1	Unknown		operator of dozer constitution with the second miles
	Ouachita NF Rainbow Springs Ouachita NF	Nevada #1 1 Utica, NY 1 Medina, OH 1 Beverly, MA 1 Holland, OH 1 Avoca, PA 1 Hope Mill, NC 1 Clafiln, KS 1 Nara Vista, NM 1 Ft. Yukon, AK 1 R8 1 Joshua, TX 1 Spicewood, TX 1 Mena, AR 2 Ouachita NF Rainbow Springs 2 Ouachita NF Rainbow Springs 2 Ouachita NF AR Sweet Home, OR 1 Jackson, CA 1 Amador - El Dorado Ru Clear Lake, CA 1 Lake - Napa Ru Texas #3 TX Forest Hill, LA 1 Northfield, VT 3 Cornelia, GA 1 Cottage Grove, OR 1 Humansville, MT 2 Kentucky 1 Kahneetah Lodge Varm Springs, OR	Nevada #1 Nevada #1 1 Carson City District BLM NV Utica, NY 1 Unknown Medina, OH 1 Unknown Medina, OH 1 Unknown Holland, OH 1 Unknown Avoca, PA 1 Unknown Clafiln, KS 1 Unknown Mara Vista, NM 1 Unknown Ft. Yukon, AK 1 BLM R8 1 Joshua, TX 1 Unknown Spicewood, TX 1 Unknown Mena, AR 2 USFS Ouachita NF Rainbow Springs Ouachita NF AR Sweet Home, OR 1 BLM Jackson, CA 1 CDF Amador - El Dorado Ru Clear Lake, CA Lake - Napa Ru Texas #3 1 Unknown Forest Hill, LA 1 Unknown Northfield, VT 3 Unknown Cottage Grove, OR 1 Unknown Humansville, MT 2 Unknown Kahneetah Lodge Warm Springs, OR Sandlin Bay 1 Unknown	State ?)

1985	Midway, FL	1	Unknown	Unknown	Handling a charged hose.
1985	Golden Gate Ests.	1	State	Fire developed three different heads and	Operator of plow unit unaware of adjacent fire heads.
	FL, DNR	13.0	LUSKIES I	blew up as heads drew together in	Trapped and over rum by fire.
				heavy fuels which had been killed	The state of the s
				earlier by freeze. Winds 20 mph.	
1985	Adams Run	1	Unknown	Drought conditions and 30 mph winds	Tractor operator plowing line caught by rapid fire
1000	Summersville, SC			caused erratic fire behavior. Sudden	progress.
				increase in spread rate and intensity.	
1985	5 Mile Fire, Wenatchee NF, WA	1	BIA	Unknown	Struck by snag.
1986	Montrose, CO	4	BLM	Unknown	SA-3158 struck electrical wire, four killed.
1986	Ace Creek Fire, WA	1	Unknown	Unknown	Struck by green snag. Enroute to fire assigned area.
1986	Anderson Creek Fire	4	USFS	Unknown	4 crew members were killed when the army truck they were
	Boise N.F., ID			The Charles of Charles Court of the Charles of the	riding in drove off the road and over turned army deuce & a half.
1987	Lake Co.	1	CDF	Unknown	CDF helitack crew member was caught by rapid fire
17.00	Lauder, CA			Control of the second of the s	progression.
1987	Klamath NF, CA	1	Other	Unknown	CA. National Guard was killed in accident.
1987	Klamath NF, CA	1	USFS	Unknown	Forest Service employee struck by motorcycle. 9-1-87
1987	Shasta Trinity NF, CA	1	Contract	Unknown	Contractor killed when his dozer rolled over him on fire. 6-28-87
1987	Hamm Fire Stanislaus NF, CA	1	USFS	Unknown	Killed by snag he was falling. 9-11-87
1987	Six Rivers NF, CA	1	Other	Unknown	CCC killed when snag struck vehicle. 9-5-87
1987	Okanogan NF, WA	1	Contract	Unknown- Reynolds Creek Fire	Contractor killed by tree he fell. 7-17-87
1987	Klamath NF, CA	1	BIA	Unknown	Died of heart attack. 10-1-87
1987	CA	1	CDF	Unknown	Pilot killed in S-2 tanker crash. 10-7-87
1987	Shasta Trinity NF, CA	3	USFS	Unknown	Pilot and crew of C-119 killed, plane broke apart on retardant run.
1987	Inverness, FL, Vol. FD	1	PVT.	Unknown	Heart attack while pulling hose at a brush fire.
1987	Clanton, AL	1	PVT.	Unknown	Severe thermal burns resulting from being trapped in the cab
	Gap Mtn. Vol. FD				of a tanker that rolled over returning from woods fire.
1987	Summit, MS Sunnyhill Vol. FD	1	PVT.	Unknown	Heart attack while responding to fire.
1987	Cisco, TX, Cisco Vol. FD	1	PVT.	Unknown	Heart attack after operating at a grass and brush fire.
1987	Azle, TX, Spillway Vol. FD	1	PVT.	Unknown	Heart attack at a grass fire.
1987	Swansea, MA, Vol. FD	1	PVT.	Unknown	Heart attack at a brush fire.
1987	East Bernstadt, KY, Vol.FD	1	PVT.	Unknown	Heart attack at a woods fire.
1987	White Sands, NM	2	ARMY	Unknown US Army- contract	Dropping retardant when plane crashed.
1987	Douglas, KS, Butler Vol. FD	1	PVT.	Unknown	Fell from extended bumper area of brush vehicle and
			A STATE OF THE PARTY OF THE PAR		crushed by wheels.
1987	Kansas	1	Unknown	Grass fire.	Firefighter riding on left front fender of engine using booster hose,
					was bounced off and run over by front and back tires.
1988	Rosholt, WI, Vol. FD	1	PVT.	Unknown	Lost control on curve while driving engine to grass fire.
1988		1	PVT.	Unknown	Thrown from cab of engine and crushed while responding.
1988		1	PVT.	Unknown	Struck by a truck at an intersection while responding in brush unit.
1988		1	PVT.	Unknown	Heart attack while responding.
	S. Carolina Forestry Dept., SC	1	PVT.	Unknown	Stroke while issuing a summons at a grass fire.
1988		1	PVT.	Unknown	Heart attack while returning from grass fire.
1988	Timber Lake, SD, Vol.FD	1	PVT.	Unknown	Heart attack while using hand tools at grass fire.
1988		1	Other	Unknown	Heat stroke while checking flanks in woods fire.
1988		1	BIA	Unknown	BIA employee killed in vehicle accident.
1988		1	PVT.	Unknown	VFD employee killed by falling tree. 12-14-88
1988	Shoshone NF, WY	1	BLM	Unknown- Clover Fire	Killed by falling tree.
		Name and Park			

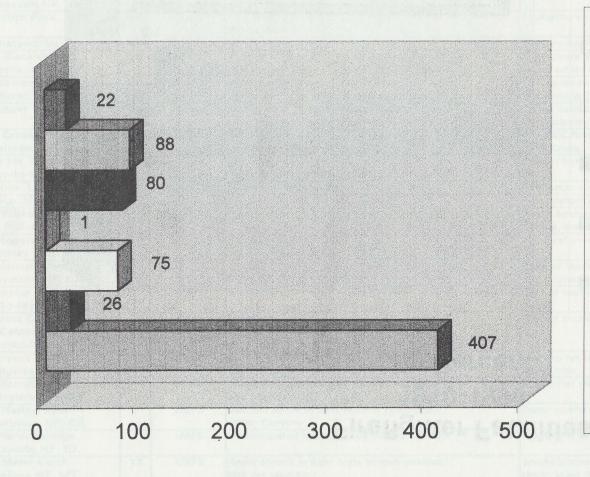
988	"WY	1	Other	Unknown	Aircraft accident killed contractor.
988	WA	2	Other	Unknown	Two Canadians killed in aircraft accident. 8-9-88
988	WY	1	BLM	Unknown	BLM employee killed in aircraft accident. 8-19-88
988	Sequoia NF, CA	1	USF\$	Unknown - Havilah Fire	USFS employee killed in aircraft accident. 8-12-88
988	OR	1	USF\$	Unknown	USFS employee killed in aircraft accident. 7-14-88
988	Blue Hole #6, OR	1	Other	Prescribed burn	Contractor entrapped on prescribed burn. No Shelter deployed. 5-24-88
988	Belle River FD, IL	1	PVT.	Unknown	Electrocuted after contact with down powerline.
988	Brush Coulee Fire, MT	1	BIA	Unknown	Apparatus rolled off hillside. 8-10-88
988	Bellevue, ID	1	PVT.	Unknown - volunteer	Crushed by over turned tanker.
988	Wenatchee NF, WA	2	DNR	Unknown - contractor- Dinkleman Fire	Helicopter crash while making water drops.
988	New Albany, IN	1	PVT.	Unknown - volunteer	Tanker over turned returning from brush fire.
988	Flathead NF, MT	1	BIA	Unknown- Red Bench Fire	Struck by falling snag.
988	Bushnell, FL	2	PVT.	Unknown - volunteer	Struck by semi-truck while at grass fire.
_	Hood River Vol. FD. OR.	1	PVT.	Unknown	Heart attack while pulling hose.
988	Buckhorn DNR	1	State	Late morning wind shift resulted in	No shelter deployed. Possible methane gas implication
989			State	sudden increase in fire.	from nearby mines. 3-27-89
000	Wayne-Hoosier NF, OH	1	BIA	Unknown	BIA employee struck by lightning. 7-10-89
989	Tonto NF, AZ	1	USFS	Unknown	Died of heart attack in camp. 9-17-89
989	Wenatchee NF, WA	1		Unknown	Killed by a falling tree. 7-9-89
989	CA	-	CDF		Forest Service employee drowned while in fire camp. 7-9-89
	urren Mt. Fire, Nez Perc NF, II	-	USFS	Unknown	Heart attack while responding to fire.
989	Ghent, NY	1	PVT.	Unknown - volunteer	Motor vehicle accident while responding to timber fire.
989	Noel, MO	1	PVT.	Unknown - volunteer	
989	Wood Lake, MN	1	PVT.	Unknown - volunteer	Heart attack while setting up water tank.
989	Los Padres NF, CA	1	State	Unknown - Calif. inmate crew	Killed by snag.
989	Bent, NM	1	PVT.	Unknown - volunteer	Heart attack at brush fire.
989	Conneaut Lake, PA	1	PVT.	Unknown - yolunteer	Heart attack while resting after using fire rake.
989	Athens, AL	1	PVT.	Unknown - volunteer	Heart attack while rolling hose after fire.
989	Jacksonville, AR	1	PVT.	Unknown - volunteer	Heart attack while rolling hose after fire.
989	TX	1	Unknown	Unknown	Burned cutting fireline.
990	Mendocino NF, CA	1	CDF	Snag patch. Crews were warned of snag	Died of head injury inflicted by snag. Tree struck firefighter as
	Recer Fire	T. T.		problems, but not aware of full extent.	he was packing hose up fireline. 8-13-90
990	AK	1	USF\$	Unknown	Died of heart attack. 7-9-90
990 9	Snowshoe Fire, Malheur NF, OR	1	USF\$	Unknown	Died of stroke. 8-15-90
990	Shasta Trinity NF, CA	1	CDF	Unknown	Died of heart attack. Pick up labor. 8-17-90
990	Dude Fire	6	State	Hot, dry, unstable atmosphere.	State crew was trapped in a shallow drow. Shelters were
	Tonto NF		The second second	Extremely low fuel moisture. Thunder	deployed. Some victims were seen running with
The state of	AZ			cell formed over convection column,	their shelters. Poor communication, entire fire using one
				strong gusty winds resulted, pushing	radio channel. No safety zones accessible to this crew.
-				fire over all control lines.	
990	California Fire, CA	2	State	Backfiring from handline. Overrun by	Entrapment of state crew (17), shelters were deployed,
350	Riverside Ru	-		fast running fire on moderate to steep	three others sustained burns. 6-27-90
20000		- Marie		slopes in light fuels during heavy	
7000				shifting winds and extreme temps.	
990	Waist State Park	2	State	Winds increased in speed, fire seen	Entrapment of state crew in Wasatch Mtn., one shelter deployed
350	UT			spotting.	Dozer operator and deputy sheriff fatally burned. 8-26-90
990	Silver Crk. Colville Reserv., WA	1	Other	Unknown	Helicopter contractor. 9-11-90
	Wellston, OK	1	PVT.	Unknown-volunteer	Heart attack.
990		1	USFS	Unknown- Ynez Fire	Pulmonary embolism resulting from fall.
990	Los Padres NF, CA	1	PVT.	Unknown - volunteer	Asphyxia and burns trying to outrun fire.
1990	Grand Coulee, WA		PVT.	Unknown - yolunteer	Heart attack while responding to brush fire.
990	Quincy, FL	1		Unknown - volunteer	Collision enroute to station for fire-storm emergency.
1990	Havre de Grace, MD	1	PVT.	Unknown- Sedgwick Co. Fire Dept.	Heat stroke at a grass fire.

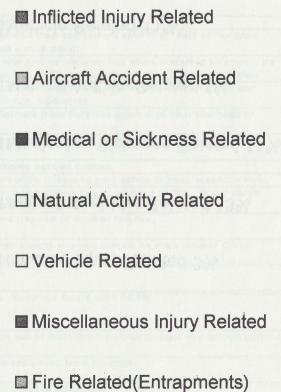
990	Olympic NF, WA	2	USFS	Unknown- contractor-Wynoochee Fire	Aircraft crash while water dropping, 9-30-90
991	Ziplock Fire	1	USFS	Unknown	Regional lead plane pilot, Beechcraft lead plane, leading air
	Cibola NF				tanker 119 pulled up after retardant run, started left turn and
	NM				continued roll left until almost inverted, nose down. 6-21-91
991	Routt NF	1	USFS	Small fire, completed line.	Two firefighters had just completed lining a small fire, they were
100	СО				taking a rest on the line, a snag fell out of the perimeter,
					striking one man on the chest. 9-19-91
991	Marysville, KS	1	PVT.	Unknown - volunteer	Heart attack at prairie fire. 3-26-91
991	Hendersonville, TN	1	PVT.	Unknown - volunteer	Tanker rollover while responding to fire.
991	New Buffalo, MI	1	PVT.	Unknown - volunteer	Heart attack responding to grass fire. 7-11-91
991	Stanislaus NF, CA	1	USFS	Unknown - contractor-Pine Fire	Helicopter crash lowering water tanks. 7-26-91
991	MT MT	2	USFS	Unknown - contractors	Aircraft crash while enroute to Missoula Fire Center. 10-16-91
	Oakland, CA	1	PVT.	Unknown - Oakland Fire Department	Burned after being struck by powerline on urban interface fire.
991	Gakland, CA		FVI.	Official Carland Fire Department	10/21/91
	F1 1 5 51 - 12V	1 2	PVT.	Unknown - volunteer	Burned in sudden flare up. 10-29-91
991	Fleming Neon, KY	2			Electrocuted by down powerline. 11-29-91
991	Collinsville, AL	1	PVT.	Unknown - volunteer	Fire training. 5-31-91
991	Missoula, MT	1	USFS	Unknown	Killed by falling tree on fireline. 7-31-92
992	Boise NF, Cascade, ID	1	USFS	Unknown	Killed by falling tree. 8-31-92
992	Pryor Fire Willamete NF, OR	1	State	Unknown	
992	Kennewick, WA	1	PVT.	Unknown	Volunteer killed while riding on fire apparatus. Vehicle rolled over.
992	Fond Du Dic, WI	1	PVT.	Unknown	Died of heart attack while building line on grass fire. 7-31-92
992	Glenwood Springs, CO	1	PVT.	Unknown	Died of heart attack while picking up equipment on fire. 6-29-92
992	Calaveras Co., CA	1	CDF	Unknown	Pilot killed. S-2 airtanker. 6-19-92
992	Tuolumne - Calaveras Ru		QD.	CHRIGHII	
		1	PVT.	Unknown	Apparatus crash. 10-12-92
1992	Mansfield, LA	1	PVT.	Unknown	Apparatus crash. 12-192
1992	Caldwell, TX		PVT.	Unknown	Apparatus rollover. 12-5-92
1992	Crowley, TX	1			Aircraft accident. 10-1-92
1992	El Dorado NF, CA	2	Contract	Unknown	Collision with tanker responding to grass fire.
1992	Menard, TX	1	PVT.	Unknown - volunteer	Lost control while responding to grass fire.
1992	Bryan, TX	1	PVT.	Unknown - volunteer	Fire burned over. Some shelter deployment did occur. 8-20-93
1993	Angeles NF, CA	2	LA County	Spotting above crew, Urban interface fire.	
1993	Santa Fe N.F.	1	USFS	Major, localized wind event 40-50 mph.	20 acre spot fire on 16,000 acre prescribed burn. Trapped
	San Ysidro, NM				sixteen crew persons. 4-22-93
		-			
1993	Lulkin, TX	1	PVT.	Unknown	Seasonal firefighter had heart attack. 1-31-93
1993	Monhiggin Lake, NY	1	PVT.	Unknown	Volunteer had heart attack. 7-9-93
1993	Florahome, FL	1	PVT.	Unknown	Volunteer had heart attack. 8-15-93
1993	Forest Grove, OR	1	ODF.	Unknown	Seasonal firefighter died in apparatus rollover. 9-6-93
1993	Howell, NJ	1	PVT.	Unknown	Volunteer struck by vehicle. 11-15-93
1993	Tuskegee, AL	1	USFS	Unknown	Heart attack
1994	Alva, OK	1	Volunteer	Firefighters attempted to cut off and	Engine overthrow - Firefighter riding on back of engine at night in
1394	Alva, OK		Joignice	suppress a fire blowing up a canyon	heavy smoke. Driver drove off edge of canyon wall, firefighter on
			THE PERSON	below them.	back was thrown off and engine landed on top of him.
1001	Toronda NAI	1	Valuntasi	Unknown	Heart attack
1994	Trendon, MI	1	Volunteer		Water tender accident.
1994	Vantmallo, AL	1	Volunteer	Unknown	Burn over - Firefighters tried to outrun advancing 25' wall of fire
1994	Augusta, WI	1	Volunteer	Grass fields and oak ridges approx. 80	on foot and one fell, receiving 3rd degree burns
			3758	acres. Large gust of wind suddenly	
BASI			The String of the	increased flame heights from 1 - 2 ft.	over 50% of body. Died 15 days later. He was wearing
130000			The Carrier Land	to 20 - 25 ft. in seconds	turn out gear, coat, helmet, and boots.
1994	Lewellen, NE	1	Volunteer	Unknown	Water tender accident.

1994	South Canyon Fire	14	BLM/USF\$	Fuels extremely dry and susceptable to	Available weather forcasts and expected fire behavior info not
	Glenwood Springs, CO			rapid, explosive, extreme fire behavior and	provided to firefighters, adequate lookouts not used, escape
				reburn in gamble oak was not recognized.	routes and safety zones inadequate for the burning conditions.
			100	A cold front passed through. Maximum	Failing to outrun the flames, 12 firefighters perished. 2 helitack
				rates of spread of 18 mph and flames as	crew members on top of the ridge also died trying to outrun the
PSS.					fire. The remaining 35 firefighters survived by escaping out east
	Chops, Ap		ness in	high as 200 - 300 feet.	
NWI .	HEARO STRUADUS ST.				drainage, seeking a safety area and deploying fire shelters.
1994	Guide Fire Gila, N.F., N.M.	3	USFS	Unknown	Helicopter crash - Two firefighters and one pilot died when
98			Colonia de la Co		helicopter crashed. They were on an initial attack mission.
1994	Bulter Cr. Fire Missoula, MT	2	USF\$,	Unknown	Airtanker crash - Airtanker crashed while working on Bulter
			Contractor		Creek Fire.
1994	Tyee Fire Wenatchee, N.F., WA	1	USFS,	Unknown	Heart attack - Water tender driver suffered a fatal heart attack
			Contractor		while on stand by in a staging area. Age 58.
1994	Angeles, N.F., CA	3	USF\$,	Unknown	Airtanker crash-C-130 airtanker was headed to drop retardent on
			Contractor		brush fires and crashed. All three crew members died in crash.
1994	Danny Fire Plumas N.F., CA	1	USFS.	Unknown	Water tender accident - Water tender operator involved in a single
			Contractor		vehicle accident while enroute to fire. Operator died at scene.
1994	Hull Mtn. Fire Medford, OR	1	USFS.	90 degree temps. RH 22%, oak, madrone,	Burnover - dozer - critical fire behavior predictions not available
1334	Trail Will. The Medicia, on		Contractor	ponderosa pine. Spotting up to one -	to victim. Individual working alone, no communications,
		100	Contractor	quarter mile. Fire intensity quickly grew and	no lookout, no dozer boss. Victim had no wildland
				became a large plume dominated event.	firefighter training.
		-	FEE DIA		Motor vehicle accident - An employee of fire cache died following
1994	Boise N.F., ID	1	EFF, BLM	Unknown	a vehicle accident while delivering cache supplies to a fire.
			2 4 11 1		
1994	Chicken Complex		Military	Unknown	Helicopter crash - Military chinook helicopter crashed on the
	Payete N.F., ID	1	USFS		chicken complex killing one military flight crew member.
1994	Cedar Fire Brasstown R.D.	. 1	USFS	Fire exhibited very erratic fire	Victim was pulling off the line with two other firefighters and
	Chattahouchee			behavior, winds 25+ mph, flame	following a logging road away from fire. The victim was last seen
	Oconee N.F., GA			heights reported to reach 79 - 90 feet,	stopping and deploying shelter as if too exhausted to continue on.
		100		Heavy leaf litter.	Burnover.
1994	Tennessee State	1	PVT.	Grass fire leading into hardwood	Civilian started grass fire on own property, it escaped into
				forest.	hardwood forest. Civilian was trying to extinguish when fire
		1907			changed direction and trapped him.
1995	Tennessee	1	TSF	Unknown	Heart attack
1995	Claude, TX	2	Volunteer	Unknown	Vehicle/Train
1995	Willard, NM	1	Volunteer	Unknown	Vehicle
1995	Era, TX	1	Volunteer	Unknown	Heart attack
1995	Malo, WA	1	Volunteer	Unknown	Heart attack
1995	So. China, ME	1	Volunteer	Unknown	67 year old town forest fire warden. Died of a heart attack while
1333	30. 3111116, 1112				walking up the flank of a one acre fire towards his truck.
1995	Gallupville, NY	1	Volunteer	Unknown	Heart attack
1995	Greebriar, TN	1	TSF	Unknown	Heart attack
1995		1	Volunteer	Unknown	Heart attack
1995		3	FS/Contracto		Aircraft accident - Two firefighting planes involved in a mid - air
1990	Trainona, OA		, , , , , , , , , , , , , , , , , , , ,		collision. Aircraft was returning from the Butterfield Fire and
		-			in the process of landing.
1005	Point Fire Kuna RU, ID	2	Volunteer	Sudden winds gusted 40 to 50 mph.	Burnover - Decision by the firefighter to leave the safety of the
1995	Foint Fire Kulla RO, ID	1 2	Voiditteel	Firefighters left burned area and	burned area. Vehicle engine failure, firefighters entrapped
					in their vehicle.
		-	Valuatasi	drove in to heavy, unburned fuels.	Heart attack
1995		1	Volunteer	Unknown	Heat attack
1996		1	Volunteer	Unknown	
1996		1	Volunteer	Unknown	Heart attack
1996	Golden City, MO	1	Volunteer	Unknown	Heart attack

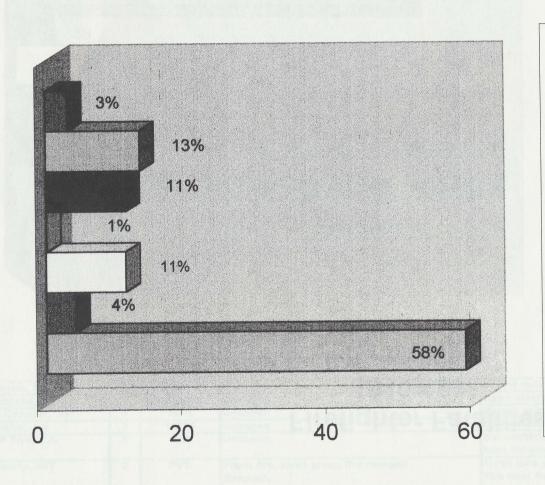
1996	Wayne, OK	1 1	Volunteer	Unknown	Engine rollover, victim crushed.
1996	Fruitland, UT	1	Volunteer	Unknown	Heart attack
	Bryee Canyon, UT	11	NPS	Unknown	Vehicle rollover - Vehicle was off - road responding to a fire.
1996	Globe, AR	11	USFS	Unknown	Physical training. Crew member died of heat stress during run.
1996	CDF Fire, CA	1	BIA	Unknown	Suicide/hanging. The firefighter left his crew in fire camp and took his own life in the vicinity of the fire. Found 2 days later.
1996	Colstrip, MT	2	PVT.	Prarie fire, short grass, fire changed direction.	Three local people fighting fire from truck wwater and hose. Tire went flat, fire changed direction and overtook them as they tried to outrun the blaze. Burnover. Ages 68, 72
	Total	699			Eine Entelite Le Connection

Firefighter Fatalities 1910-1996 By Number





Firefighter Fatalities 1910-1996 By Percent



- Inflicted Injury Related 3%
- Aircraft Accident Related 13%
- Medical or Sickness Related 11%
- □ Natural Activity Related 1%
- □ Vehicle Related 11%
- Miscellaneous Injury Related 4%
- ☐ Fire Related(Entrapments) 58%

DATE	FIRE NAME/ LOCATION	No.	AGENCY	FIRE BEHAVIOR OBSERVED	REMARKS
1910	Coeur d'Alene, ID St. Joe	72	USFS	Dry fuel and lightning followed by strong winds caused massive firestorms and rapid rung.	Seven large crews were overrun with no access, communication, and little equipment available.
1910	Cabinet NF	4	USFS	Same as above.	Four men panicked in an entrapment situation, ran uphill out of a rock slide being used as a safety zone.
1910	Pend Oreille NF	2	ŲSFS	Same as above.	Two men ran into the flames. Witnesses said they appeared disoriented by smoke.
1926	King's Canyon Toiyabe NF, CA	5	USFS	Unanticipated downslope winds on lee side of Sierras pushed fire into second growth with brush.	Firefighters had gone downhill for water and were trapped on the road when the wind changed.
1929	Dollar Mt. Colville NF, WA	1	USFS	Sudden wind change in relatively light fuels.	Firefighter tried to outrun fire uphill.
1933	Kamus Burn Okanagon NF, WA	2	USFS	Fire in light fuels and wind changed direction.	Firefighter tried to outrun fire but failed.
1933	Griffith Park, CA	25	Other	Fire burned in light chaparral near Griffith Park, Winds shifted.	Firefighters tried to run to safety. 128 injured,
1936	Chatsworth, NJ	5	Öther	Wind shift in grass and trees.	Backfire operation.
1937	Blackwater Shoshone NF, WY	15	USFS	Sudden wind caused fire to blow up in douglas-fir reburn. Spotfire made run uphill.	Firefighters went in from top toward spot fire. Part of the crew found safety on a rock point,
1937	Welcome Lake Huron NF. MI	1	USFS	Early spring fire, strong, dry wind from west. Fire crowned in Jack pine and plantation.	CCC foremen was pulling his crew out when it started to crown. He was looking for two of his people, died within 100 feet of safety.
1938	Pepper Run, PA	8	Other	Fire burning in mix hardwood on fairly steep slope. Wind shift and cross fireline below,	Squad boss told firefighters to run for safety. All ran uphil and were caught by fire. 134 acres.
1939	Rock Creek, Humboldt Tolyabe NF, CA	5	USFS	Sagebrush and grass fire made an unanticipated run upslope.	Five CCC firefighters from Paradise camp died near the head of Rock Creek.
1939	Bixby Mt, Carmel, CA San Benito-Monterey Ru	1	CDF	Unknown	Died of burns. Calandra lookout was named for him.
1940	Silver Plume, Lincoln NF, NM	1	USFS	Sudden wind change and fire flared up.	Firefighter sleeping outside fireline.
1941	Kawailoa, HI	2	Other	Flashy fuels and the winds changed.	Two firefighters were unable to gain safety in thick staghorn fern.
1943	Williams Hills Los Padres NF, CA	1	USFS	Fire made a run in chamise and buckwheat.	Dozer operator was building line in advance of fire. Dozer threw a track, operator was overrun.
1943	Rogerson, ID Burley Dist. I2	2	Unknown	Running brush fire.	Two firefighters trapped at head of the fire.
1943	Hauser Creek Cleveland NF, CA	11	USFS	Sudden wind shift under Santa Ana conditions. Maximum wind 8 mph SW.	Crew of Marines caught in small canyon on main Hauser Creek (72 Injuries).
1943	Sweetwater Canyon, CA San Benito-Monterey Ru, CA	1	CDF	Unknown	Died of burns,
1945	Williams Canyon, CA Near Calandra Lookout San Benito-Monterey Ru	1	CDF	Unknown	Died of burns. Body not found until 1946.
1947	Bryant Canyon Angeles NF, CA	2	USFS	Spot fire below men burned upslope, trapping men in unburned fuel.	Burning rat ran out of main fire into brush. Spot fire spread uphill under men.
1948	Barrett Dam Cleveland NF, CA	1	USFS	Winds changed at night from SW to east and fire flared up.	Firefighter was separated from his crew.
1949	Walton Spur Stanislaus NF, CA	1	USFS	Swirling winds in light fuels in Tuolumne River Canyon.	Dozer operator trapped above fire.
1949	Warm Springs Payette NF, ID	1	USFS	Unanticipated strong winds caused flare-up.	Firefighter dropped behind crew to eat lunch and was trapped.
1949	Mann Gulch Helena NF, MT	13	USFS	Rapid spread in light fuels burned upslope. Hot dry weather.	Smokejumpers jumped into unburned basin and fire hooked below them. Most firefighters failed to use burned area and were overrun
1950	Pelitor Fire, CA San Luis Obispo Ru	4	CDF	Unknown	One CDF firefighter and three soldiers died of burns.

OFOL	Cleveland NF, CA	111	CDF	Trabucco Road	Fire took off from below. One firefighter made it to safety.
950	Glenville Dist.	1	Other	Sagebrush and grass, high winds, high	Individual firefighter fell in exhaustion in the fire's path.
952	AR		4 0.1.0.	FDR, and homes threatened.	
052	Morrell Fire	1	CDF	Unknown	Died of burns.
952	Riverside Ru, CA				areas bitter to a factor of the contract of th
1952	Old Camp Fire	1	CDF	Unknown	Died of burns.
1952	Orange Ru, CA				
1953	Rattlesnake	15	USFS	Unanticipated evening downslope wind.	Part of the crew trapped during lunch break on a spot fire, tried to
1983	Mendocino NF, CA			Local fire behavior	outrun t downhill.
1953	Bonnie Blue, VA	1	Other	Fire burned rapidly up a steep slope.	Firefighter became separated from the crew.
1954	Tunnel No. 6	3	USFS	Mono (dry east) winds caused a flare-up at	Firefighters were sleeping in unburned area at edge of fire.
1904	Tahoe NF, CA		ne e	night.	THE BUILDINGS MAD BEDRICKED ACTUBER STREET
1954	Gap Creek, TN	3	Other	Strong wind pushed upslope and it crowned.	Firefighters were caught on slope above fire.
1955	Brickyard, NJ	1	Other	Spot fire in woods.	Fire surrounded driver, he burned to death along Turner's Road.
1955	Sagebrush	1	USFS	Fire was being mopped up in sage and grass,	Firefighter was separated from his crew and tried to outrun fire
1903	Malheur NF, OR			Drafts from a cumulus cloud caused winds.	uphill. Remainder of crew reached a safety zone.
1955	Hacienda, CA	5	Other	Light fuel, high temp., low RH and unstable.	Foreman and crew were in bowl-like area when flashover occurred.
1955	Johnson Fire	1	Unknown	Fire danger rating "Extreme," and fire made	Firefighter tried to outrun fire uphill.
1300	Prescott, AZ			run in light fuels.	
1956	Inaja, Cleveland NF	111	USFS	Upslope winds in pm when Santa Ana winds	Crew working on indirect line in steep canyon. Fire hooked under
1350	CA		Contract Co	ceased. Fire ran uphill.	them before they could reach safety.
1956	East Highlands	1	USFS	Upslope wind in light fuel after Santa Anas	Dozer operator trapped before he could reach safety,
1300	San Bernadino NF, CA	A SALV	THE REPORT OF	tapered off at night.	THE THE AMERICAN PROPERTY AND THE REAL PROPERTY OF THE PROPERT
1958	Albert Ranch	1	ÚSFS	Minor flare-up as wind changed at night.	Firefighter trapped ahead of fire.
1950	Angeles NF, CA				The second section is a second section of the second section of the second section is a second section of the second section of the second section sec
1958	Stewart	1	USFS	Minor flare-up in chaparral under weakening	Firefighter scouting in brush ahead of fire.
1900	Cleveland NF, CA			Santa Ana conditions.	1997 Contract steel to artistic metter
1959	Decker	5	USFS	Downslope afternoon wind stopped and	District Ranger and five men on state highway when fire came
1909	Cleveland NF, CA	1	CDF	fire came upslope in early evening.	upslope, caught them in the open.
1959	Gun, Angeles NF	1	USFS	Minor flare-up. Fire in front country canyon.	Firefighter was laying hose uphill and was caught by fishhook.
1909	CA		man and	Winds changed.	A District the second of the s
1959	Dry, Sequola NF	1	ÚSFS	Unexpected downslope afternoon wind on	Two firefighters were returning after going downhill for water.
1303	CA	128.0		east facing slope.	Fire came down hill and trapped them there.
1959	Pennington, TX	1	Other	High winds in grassy fuels.	Man on grader got in front of head of fire and was killed.
1959	San Luis Obispo Ru., CA	1	CDF	Unknown	Died of burns.
1960	Cummings Creek	1	USFS	Unexpected wind change in light fuel on ridge.	Firefighter dropped behind and couldn't keep up with the crew.
1300	Umatilla NF, OR	128			Fire flared up below them.
1960	Silver City	1	Other	Fire in grass.	Firefighter burned to death while attempting to put out grass fire.
1300	NC				
1960	FL	1	Other	Light fuels and unanticipated wind change.	Two people on jeep, one ran to safety.
1961	Sierra, Angeles NF, CA	1	USFS	Sudden, unanticipated wind change.	Firefighter unable to gain safety in time.
1961	Silver Creek	2	USFS	Fire spotted in extremely steep terrain light	Crew went to a chute above spot fire, but all except two left chute
1301	Nez Perce NF, ID			fuel under gusty winds near bottom of fire.	when danger was obvious,
1961	Los Posadas	1	CDF	Gasoline used at the fire station.	Died of burns.
1301	Napa Ru, CA			A SUMMED STATE OF THE PROPERTY OF THE SECOND	Anther with mistricase might decisionally
1962	Timberlodge	4	USFS	Hot, dry, unstable atmosphere and light fuels.	Tornado-like action from air tanker vortices probably caused fire
1302	Sierra NF, CA		- The state of the	The second secon	to blow up and trapped firefighters.
1964	Coyote	1	USFS	Downslope wind through saddle in early	Firefighters panicked and ran to lower part of saddle where
1004	Los Padres NF, CA			afternoon.	temperatures and carbon monoxide concentrations were too high
1964	Joshua Falls, VA	1	Other	Fire burned up draw toward firefighters.	One firefighter apparently refused to follow and was killed by heat
1964	Don Pedro Fire	1	CDF	Unknown	Died of burns.
1304	Tuolumne Ru, CA		A SEE	IN THE REAL PROPERTY OF SHEET AND PROPERTY OF THE PARTY O	
1965	Helker, NC	1	Other	Wind speed increased, Burning in sedge.	Man helping in control burn was caught in wire fence and burned.
1965	Fairview Hollow, KY	3	Other	Fire in light fuels on steep slope.	Firefighters overrun by fire on steep slope. Fire Related (Entrapments) -

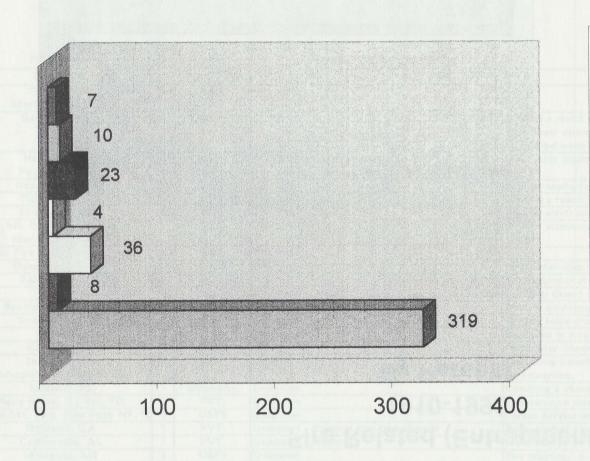
	iebre Fire, Angeles N.F., CA		L.A. County		L.A. Captain died setting backfire to save engine crew.
1966	Loop	12	USFS	Unanticipated upslope wind in afternoon	Crew cutting handline downhill in a chimney and part of the crew
	Angeles NF, CA			after Santa Ana winds stopped.	was unable to reach safety.
1967	Balliff San Bernadino NF, CA	1	USFS	Flare-up at night in light fuel on steep slope,	Firefighter fell trying to escape flare-up.
1967	Sundance	2	USFS	Fire blew up and made major run toward	Dozer operator and firefighter were ahead of fire and overrun.
	Kootenai NF, MT	1		north under strong wind conditions.	They tried to hide under the blade.
1967	Slaughter	1	USFS	Fire became intense in precommercial	Incident Commander tried to outrun fire and couldn't hear
	Apache NF, AZ			thinning slash,	warning calls from crew on road.
1967	Windsor, \$C	1	Other	Weather dry and windy. Fire was moving fast and erratic in pine.	Firefighter trapped by fast moving head fire in dense smoke.
1967	M\$	1	Other	Small fire, flashy fuels and gusty winds.	Firefighter lost backfire. Died of wounds three days later.
1967	Range, KS	1	Other	Fire in dense grass.	Firefighter panicked and tried to outrun fire.
1967	Ginnis Lake	1	Other	Red pine plantation and oak near lake,	One man on tractor with plow was on a spot fire ahead of the main
1 20 00	WI, DNR		- Selection of the second		fire and was caught by fire.
1968	Canyon	8	USFS	Santa Ana weakened and unanticipated wind	Firefighters tried to outrun fire uphill after flare-up in brush below
	Angeles NF, CA	1	THURLING AS LE	pushed fire upslope in late morning.	them.
1968	NC	1	Other	Unknown	A county ranger was suppressing fire. Died of third degree burns.
1968	Ivey, FL	1	Unknown	Heavy wiregrass. Unanticipated wind,	Dozer caught on stump. Operator overrun by fire.
1968	North Carolina #2	1	Other	Unknown	Man, age 84, tried to beat fire with pine tops. Clothes caught fire
	NÇ	1	li-lan-name		was dead when found.
1968	Williams	1	USFS	High temps, local gusty winds, cumulus	Burned trying to outrun fire.
1300	Coronado NF, AZ	1	V 3.5	clouds near the fire.	
1970	Shasta-Trinity NF, CA	1	USFS	Unknown	Smoke jumper fatality.
1971	Banning	1	USFS	Fire ran upslope in early evening.	Member of engine crew was laying hose downhill from road
	(also known as Mack 2) San Bernadino NF, CA		0313	The fair apprope in early evening.	at night.
1971	Eagle Rock, VA	1	Other	Reburn in rhododendron. Steep slope.	Three men were felling snags and were trapped by fire.
1971	Romero	4	USFS	Strong "sundowner" (Santa Ana) wind	Dozer operator and three firefighters burned to death as they
	Los Padres NF, CA			pushed fire downhill in the evening.	hurried downhill,
1972	Warthog	1	Other	Small 24 ac. fire. Wind gusts 20-25 mph.	Plow operator trapped and suffocated on bench on upper side of
	Morgan Co., TN			Fire crossed plowed line.	fire.
1973	Bell Valley, CA	1	CDF	Light brush. Weather clear and hot. Gentle	Equipment engineer and firefighter working on flank of fire near
		1		rolling topography.	a gully. Man ran to road after a flare-up, but died.
1975	Stockton, UT	2	Other	Sagebrush and grass, gentle to rolling	Two county deputy sheriffs were working on flank of a small fire
	A TOTAL PROPERTY OF THE PARTY O			topography. Wind changed direction.	when the wind shifted.
1976	Battlement Creek Fire	3	Other	Frost-killed brush slope and narrow chimneys	High intensity uphill run occurred during firing operations below
	Grand Junction CO, BLM			induced extreme fire behavior and uphill runs.	a saddle exposed ridgeline.
1976	Buhler, KS	1	Other	Flashover occurred from building up gases	Fireman tried to outrun fire. An engine also burned.
				on lee side of the wind break.	THE RESIDENCE OF STREET, AND ADDRESS OF THE PROPERTY OF THE PR
1977	Cart Creek Ashley NF, UT	3	ÚSFS	Wind changed on steep slope. Small fire.	Fire overtook crew on steep slope in sagebrush grass.
1977	Okanogan NF	1	USFS	Steep slopes, ponderosa pine. Fire spotted	Foreman was scouting and fire crossed the canyon below him.
	WA			across canyon and spread rapidly uphill.	
1977	New Jersey #1, NJ	1	Unknown	Shifting winds in 10' grass in a gully. Spot fires.	Firefighters overrun after spot fires experienced.
1977	Bass River, NJ	4	Other	Crown fire during drought conditions.	Crew in converted military truck were trapped when they missed
					evacuation message.
1977	Honda Canyon	3	Other	Change in wind in dry brush with erratic	Fire Chief and assistant trapped while checking fire perimeter.
	Vandenburg AFB, CA			winds 80 mph. Fire was pushed downhill	Dozer operator also overtaken while widening fireline. All ran
			San Salvania	in light brush by Santa Ana winds.	downhill to escape.
1977	Riverside, TX	1	Other	Winds gusting to 45 mph. Fire in heavy	Firefighter became trapped after engine became immobilized.
		1		grass with strong winds.	Man trapped between fire and truck, fell and burned.
1977	Washington #1	1	Unknown	30 to 40 mph winds with convection currents	Firefighter was trapped as he attempted to extinguish a burning
	WA			creating 100' wide 1000' high whirlwind of fire.	field of grass.

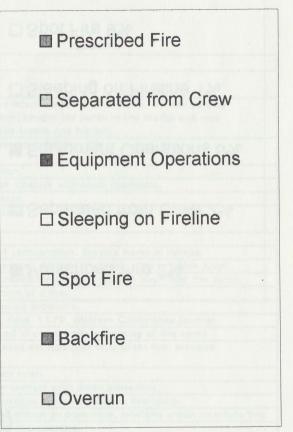
1978	Lost Creek, OR	1	BLM	Slash burning 15 acres. Doug-fir clearcut.	One firefighter was trapped in burning operation and died.
1978	Terrell County, GA	1	Other	Fire in pine/grass pushed by 17 mph winds.	Tractor plow operator became confused in smoke and went into fire
1979	Oklahoma #1 OK	1	Unknown	Wind shifted, brought fire around crew.	Firefighters drove trucks into unburned grass to attack fire. Victim was caught trying to outrun fire on foot.
1979	Ship Island Salmon NF ID	1	USFS	Rapidly increasing fire.	Crewman and others were in helispot when the fire came. Victim succumbed to smoke and hot air inhalation in fire shelter which had been deployed near a pile of gear. He was not wearing gloves.
1979	Spanish Ranch, CA San Luis Obispo Ru	4	CDF	Sudden change in wind direction trapped crew.	Crew walking on dozed fireline were overrun by fire.
1979	Okefenokee, FL	1	Other	Prescribed fire escaped and became a wildfire with a sudden wind shift.	Tractor plow operator overrun by escaped prescribed fire.
1979	Texas	1	Unknown	Brush, pasture fire.	Firefighter riding on back step of brush fire engine, flanking the fire. Smoke and heat became too intense, engine pulled off fireline, losing firefighter off the back. Firefighter taken to hospital, died 3 days later of thermal burns.
1980	Mack Lack Huron Manistee NF, MI	1	USFS	Prescribed burn escaped into dense pine.	Tractor operator building fireline was swept over by fire. Tried to escape by foot.
1980	Texas #2, TX	1	Unknown	Unknown	Firefighter fatally burned by grass fire.
1981	Merritt Island USFWS Kennedy Space Center, FL	2	Other	Winds shifted and increased to 45 mph. Heavy fuel stressed by drought conditions.	Two person tractor plow crew was overrun by fire, attempted to out run fire.
1981	Elizabeth Angeles NF	1	USFS	Unknown	Fire grew on spot fire crew. They escaped opposite chief, then left local department. Chief drove out of fire, but died when he returned to search for departed crew.
1981	Williams Hill, SC	1	Unknown	Variable winds, heavy fuels stressed by drought conditions.	Operator plowing fireline became trapped. He sought shelter under tractor, got hot and tried to run through fire. Second firefighter ran to safety of nearby road.
1982	Canoe Landing, WI Eau Claire Co. Forest	1	Other	Erratic wind conditions. Fire involved timber and brush.	Sudden change in wind direction trapped a tractor plow operator while plowing fireline.
1983	Mechlenburg	1	Unknown	Firewhirl developed in portion of logging debris unit being burned. Spot fire occurred in adjacent plantation.	Prescribed burn in logging debris. Operator of plow caught by firewhirl as he attempted to suppress spot fire.
1983	Nevada #1	1	Carson City District BLM NV		Two groups were conducting a backfire operation when winds shifted. Both drove out of the area thinking victim was with the other group. Victim's fire shelter was with one of the engines.
1007	Utica, NY	1	Unknown	Unknown	Using firebroom to extinguish grass fire.
1983	Medina, OH	1	Unknown	Unknown	Extinguishing a grass fire.
1983	Beverly, MA	1	Unknown	Unknown	Advancing a hoseline at a woods fire.
1983	Holland, OH	1	Unknown	Unknown	Extinguishing a leaf fire.
1983	Hope Mill, NC	1	Unknown	Unknown	Working at a woods fire.
1983	Claflin, KS	1	Unknown	Unknown	Extinguishing a grass fire.
1983	Nara Vista, NM	1	Unknown	Unknown	Fighting a grass fire.
1984	Joshua, TX	1	Unknown	Unknown	Operating at a grass fire.
1984	Spicewood, TX	1	Unknown	Unknown	Operating at a brush fire.
1984	Mena, AR Ouachita NF	2	USFS	Unknown	Cutting fireline.
1984	Rainbow Springs Ouachita NF AR	2	USFS	Moderate drought conditions, 30 mph winds, fire burning in pine and brush on 30-50% slope.	A tractor boss and dozer operator were caught in sudden flare-up while traveling down fireline. Abandoned dozer and tried to out run fire.
1984	Sweet Home, OR	1	BLM	Unknown	Working at prescribed burn of 46 acres.
1984	Clear Lake, CA Lake - Napa Ru	-1	CDF	Light fuels	Stretching hoseline to fire, no safety gear, direct attack.

1984	Texas #\$ TX	1	Unknown	42 mph winds with fire burning in grass and rangeland. Wind suddenly changed direction.	Firefighter took position near the head of the fire to attack with hoseline. Wind changed direction pushing fire towards engines. Firefighter abandoned their engines and tried to out run fire.
1985	Kahneetah Lodge Warm Springs, OR	2	BIA	Fire burning in sagebrush, grass and juniper.	Three people tried to extinguish fire by beating flames with blankets. It appeared to be under control, fire below them ran. Two ran uphill, flanking perimeter and were over run. One survivor took refuge in the black, severe burns.
1985	Sandlin Bay Columbia, CO	1	Unknown	Fire spotted across line during severe drought conditions	Operator of dozer caught by fire while cutting line.
1985	Golden Gate Ests. FL, DNR	1	Other	Fire developed 3 different heads and blew up as heads drew together in heavy fuels which had been killed earlier by freeze. Winds 20 mph.	Operator of plow unit unaware of adjacent fire heads. Trapped and over run by fire.
1985	Adams Run Summersville, \$C	1	Unknown	Drought conditions and 30 mph winds caused erratic fire behavior. Sudden increase in spread rate and intensity.	Tractor operator plowing line caught by rapid fire progress.
1987	Lake Co. Lauder, CA	1	CDF	Unknown	CDF helitack crew member was caught by rapid fire progression.
1988	Blue Hole #6, OR	1	Other	Prescribed burn	Contractor entrapped on prescribed burn. No shelter deployed.
1989	Buckhorn, OH, DNR Wayne-Hoosier NF	1	Other	Late morning wind shift resulted in sudden increase in fire.	No shelter deployed. Possible methane gas implication from nearby mines.
1989	TX	1	Unknown	Unknown	Burned cutting fireline,
1990	Dude Fire Tonto NF AZ	6	State	Hot, dry, unstable atmosphere. Extremely low fuel moisture. Thunder cell formed over convection column, strong gusty winds resulted, pushing fire over all control lines.	State crew was trapped in a shallow draw. Shelters were deployed. Some victims were seen running with their shelters. Poor communication, entire fire using one radio channel. No safety zones accessible to this crew.
1990	California Fire, CA Riverside Ru	2	State	Backfiring from handline. Overrun by fast running fire on moderate to steep slopes in light fuels during heavy shifting winds and extreme temperatures.	Entrapment of state crew (17), shelters were deployed, three others sustained burns.
1990	Wasatch State Park UT	2	State	Winds increased in speed, fire seen spotting.	Entrapment of state crew in Wasatch Mtn. One shelter deployed. Dozer operator and deputy sheriff fatally burned.
1990	Grand Coulee, WA	1	Pvt.	Unknown - volunteer	Asphyxia and burns trying to outrun fire.
1991	Neon, KY	2	Pvt.	Unknown - volunteer	Burned in sudden flare up.
1993	Angeles NF, CA	2	LA County	Spotting above crew. Urban interface fire.	Fire burned over, Some shelter deployment did occur.
1993	Santa Fe NF NM	1	ŲSFS	Major, localized wind event 40-50 mph.	20 acre spot fire on 16,000 acre prescribed burn. Trapped sixteen crew persons.
1994	Augusta, WI	1	Unknown	Grass fields and oak ridges approx. 80 acres. Large gust of wind suddenly increased flame heights from 1 - 2 ft. to 20 - 25 ft in seconds.	Burnover- Firefighters tried to outrun advancing 25' wall of fire on foot and one fell, receiving 3rd degree burns over 50% of body. Died 15 days later. He was wearing turnout gear, coat, helmet, and boots.
1994	Hull Mtn. Fire Medford, OR	1	Contractor, USFS	90 degree temps. RH 22%, oak, madrone, ponderosa pine. Spotting up to one - quarter mile. Fire intensity quickly grew and became a large plume dominated event.	Burn over - dozer - critical fire behavior predictions not available to victim. Individual working alone, no communications, no lookout, no dozer boss. Victim had no wildland firefighter training.
1994	Cedar Fire Brasstown R.D. Chattahouchee, Oconee N.F., GA	1	USFS	Fire exhibited very erratic fire behavior, winds 25+ mph, flam heights reported to reach 80 - 90 feet. Heavy leaf litter.	Victim was pulling of the line with two other firefighters and following a logging road away from fire. The victim was last seen stopping and deploying shelter as if too exhausted to continue on. Burn - over.

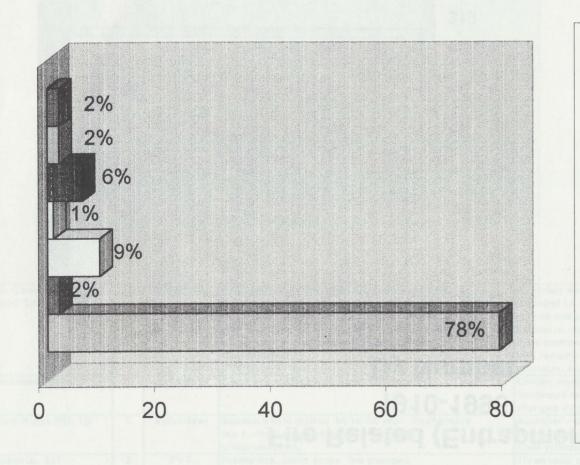
1994	South Canyon Fire	14	BLM/USFS	Fuels extremely dry and susceptable to rapid,	Available weather forecasts and expected fire behavior info not
	Glenwood Springs, CO		Liver House	explosive spread, extreme fire behavior and	provided to firefighters, adequate lookouts not used, escape
100			Transpire.	reburnt in Gamble oak was not recognized. A	routes and safety zones inadequate for burning conditions.
				cold front passed through maximum rates of	Failing to outrun the flames, 12 firefighters perished, 2 helitack
			43 14 7 15 14 17	spread of 18 mph and flames as high as	crew members on top of ridge also died trying to outrun the fire.
SHE		1	T. Berlinson	200-300 feet.	The remaining 35 firefighters survived by escaping out east
				CONTROL SECTION CONTROL SECTION SECTIO	drainage, seeking a safety area and deploying fire shelters.
1994	Tennessee State	1	PVT.	Grass fire leading into hardwood forest.	Civilian started grass fire on own property, it escaped into
				Oralis and American Control of the C	hardwood forest. Civilian was trying to extinguish when fire
					changed direction and trapped him.
1995	Point Fire Kuna RU, ID	2	Volunteer	Sudden winds gusted 40 to 50 mph. Firefighters	Burnover - Decision by the firefighter to leave the safety of the
1999			847	left burned area and drove in to heavy,	burned area. Vehicle engine failure. Firefighters entrapped in
				unburned fuels.	their vehicle.
1996	Colstrip, MT	2	PVT.	Prairie fire, short grass, fire changed	Three local people fighting fire from truck w/ water and hose.
			0.5	direction.	Tire went flat, fire changed direction and overtook them as they
080			MARKEDWA	4 c ayon wines with dire burnles in prise and	tried to outrun the blaze. Burnover. Ages 68, 72
	Total	407			The see and a second to the se

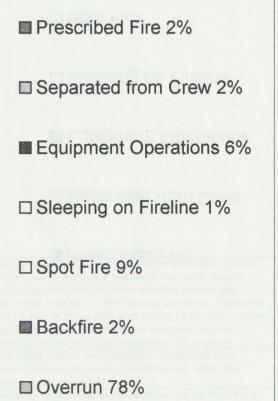
Fire Related (Entrapments) 1910-1996 By Number





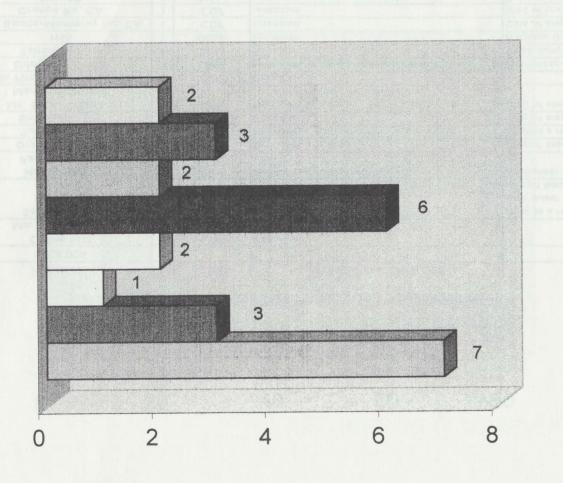
Fire Related (Entrapment) 1910-1996 By Percent





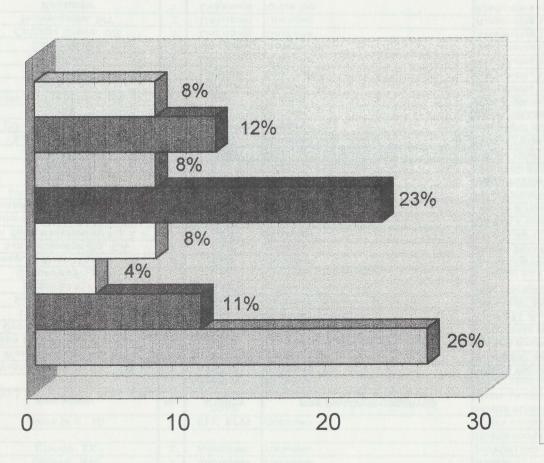
DATE	FIRE NAME/	No.	AGENCY	FIRE BEHAVIOR OBSERVED	REMARKS
	LOCATION				1888 March 1980 March
1931	Coffee Mill Mariposa Ru, CA	3	CDF	Unknown	AND THE RESIDENCE OF THE PARTY
1945	San Diego Ru CA	1	CDF	Unknown	Died as a result of injuries sustained at a fire. He was talking with dozer operator, caught his pants in the tracks and was pulled between the tracks and fender.
1949	Hells Canyon Payette NF, ID	1	USFS	Fire fanned by high winds.	Firefighter stumbled and fell into fire.
1950	Orange Ru, CA	1	CDF	Unknown	Died of asphyxiation.
1954	Tulare Ru, CA	1	CDF	Unknown	Died as a result of contact with toxic chemicals.
1958	Shasta Ru, CA	1	CDF	Unknown	Died of electrocution.
1963	Mt. Bullion-Madera Mariposa Ru, CA	1	CDF	Unknown	Died of electrocution.
1965	Kyle Fire Riverside Ru, CA	1	CDF	Unknown	
1965	Eldorado NF, CA	1	USFS	Unknown- occurred during nightshift.	Firefighter died of asphyxiation. Staying warm in vehicle.
1966	Fairbanks, AK	1	BLM	N/A	Smokejumper strangled during let - down after practice jump.
1971	Hog	1	Other	Unknown	National Guard drowned while swimming in river near fire camp.
1975	San Benito-Monterey Ru, CA	1	CDF	Unknown	Died of electrocution at a fire.
1979	Orange Ru, CA	1	CDF	Unknown	Died of toxic chemical exposure.
1979	SW, OR	1	Other	Unknown	Reported in AugSept. 1979, Western Conference Journal.
1979	Central, AK	1	BLM	N/A	Firefighter drowned in creek while swimming at fire camp.
1984	Jackson, CA Amador - El Dorado Ru	1	CDF	Light Fuels	Operating a backpack extinguisher on a grass fire, stepped on powerline.
1985	Midway, FL	1	Unknown	Unknown	Handling a charged hose.
1988	Belle River, IL, Vol. FD	1	PVT.	Unknown	Electrocuted after contact with down powerline.
1989	Curren Mt. Fire, Nez Perc NF, II	1	USFS	Unknown	Forest Service employee drowned while in fire camp.
1991	Oakland, CA	1	PVT.	Unknown - Oakland Fire Department	Burned after being struck by powerline, wildland urban interface fire.
1991	Collinsville, AL	1	PVT.	Unknown - volunteer	Electrocuted by down powerline.
1991	Missoula, MT	1	USFS	Unknown	Fire training. 5-31-93
1996	Globe, AR	1	USFS	Unknown	Physical training. Crew member died of heat stress during run.
1996	CDF Fire, CA	1	BIA	Unknown	Suicide/hanging. The firefighter left his crew in fire camp and took his own life in the vicinity of the fire. Found 2 days later.
	Total	26			

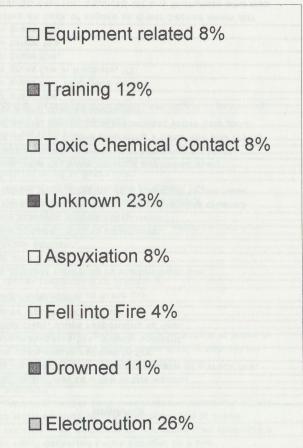
Miscellaneous Injury Related 1910-1996 By Number



☐ Equipment related Training ■ Toxic Chemical Contact **■** Unknown □Aspyxiation ☐ Fell into Fire Drowned ■ Electrocution

Miscellaneous Injury Related 1910-1996 By Percent

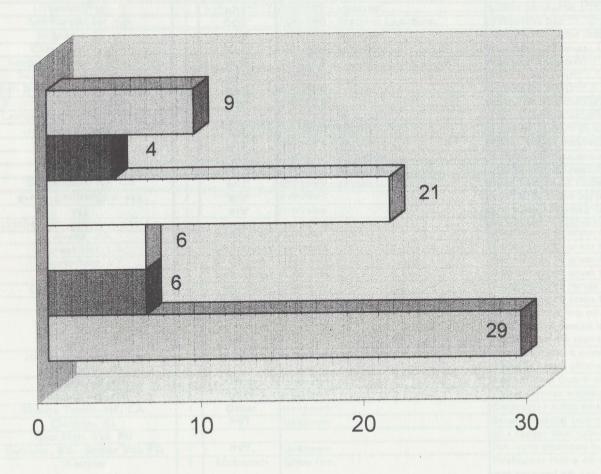




DATE I	FIRE NAME/	No.	AGENCY	FIRE BEHAVIOR OBSERVED	REMARKS
	LOCATION	1			
035		1	CDF	Unknown	Vehicle accident on the way to a fire in the woods.
			CDF	Truck fire	Firefighter was run over by a vehicle at the scene of a truck fire.
			CDF	Unknown	Died as a result of an engine rollover in fire.
			CDF	Unknown	Killed while responding to a fire. Vehicle accident.
		-	L.A. County	Unknown	Chief of L.A. Fire Dept. Killed responding to fire.
		-	CDF	Unknown	Died when engine was struck by train.
		1	CDF	Unknown	Died when dozer rolled over.
334					
OFF		4	CDF	Unknown	Died in yehicle accident returning to station from fire.
			CDF	Unknown	Engine collided with a train.
935 Western 942 Weed 946 San Luit 949 Orovill 953 Litt 954 San 954 Su Cala 956 Beegum 964 San Be 967 San Benit 968 Sonoma 969 Campbell 974 V 978 S 980 Sant 980 984 Fc 984 N 984 Cott		_	CDF	Unknown	Died in dump truck accident.
			CDF	Unknown	Died in a vehicle accident. Engine rolled over.
LOCATION 1 1 1 1 1 1 1 1 1	CDF	Unknown	Died in a vehicle accident. Engine rolled over.		
			Unknown	Grass fire, steep canyon.	5 firefighters riding on the outside of an engine were crushed
974	washington	1	Olikijowii	drass me, seep con, the	when engine rolled, while climbing up a steep hill to the head
The f					of a grass fire.
	61 1 15	1	BLM	N/A	Engine returning from fire went off road and rolled over.
935 942 946 949 953 954 954 967 968 969 974 980 980 980 984 984 984 984			CDF	Unknown	Engine rolled down a steep burning hill. Winching accident.
		-	Unknown	Unknown	Firefighter was on top of engine operating a hand line and trying
980	California	1'	Unknown	Unknown	to cut off head of fire. Driver, in heavy smoke, drove into gully
1000					rolling the engine and crushed firefighter.
		1	Unknown	Hisporia	Responding to grass fire.
942 946 949 953 954 954 956 964 967 968 969 974 978 980 980 980 984 984 984 984		_	Unknown	Uknown	Responding to grass fire. In private vehicle.
				Unknown	Responding to grass fire in Roxbury, VT.
		_		Unknown	Responding to grass fire.
1984		_		Unknown	Responding to grass fire.
1984				Unknown	Responding to grass fire.
1984		_		Unknown	Firefighters riding on back of engine as driver backed down dirt
1984	Kentucky	1	Unknown	Grass fire	road, engine passed over rut, bounced off one firefighter who was
					run over by the rear wheels.
					4 crew members were killed when the army truck they were
1986	Anderson Creek Fire		USFS	Unknown	riding in drove off the road and over turnedArmy deuce & a half.
	Boise N.F., ID	4			
1987	Klamath NF, CA	1	Other	Unknown	CA National Guard was killed in accident.
1987	Klamath NF, CA	1	USFS	Unknown	Forest Service employee struck by motorcycle.
1987	Shasta Trinity NF, CA	1		Unknown	Contractor killed when his dozer rolled over him on fire.
1987	Clanton, AL	1	PVT.	Unknown	Severe thermal burns resulting from being trapped in the cab
	Gap Mtn. Vol. FD		1 199		of a tanker that rolled over returning from woods fire.
1987	Douglas, KS, Butler Vol. FD	1	PVT.	Unknown	Fell from extended bumper area of brush vehicle and crushed by wheel
1987	Kansas	1	Unknown	Grass fire.	Firefighter riding on left front fender of engine using booster hose,
					was bounced off and run over by front and rear wheels.
1988	Rosholt, WI, Vol. FD	1	PVT.	Unknown	Lost control on curve while driving engine to grass fire.
1988	Munfordville, KY, Vol. FD	1	PVT.	Unknown	Thrown from cab of engine and crushed while responding. Vehicle Related -

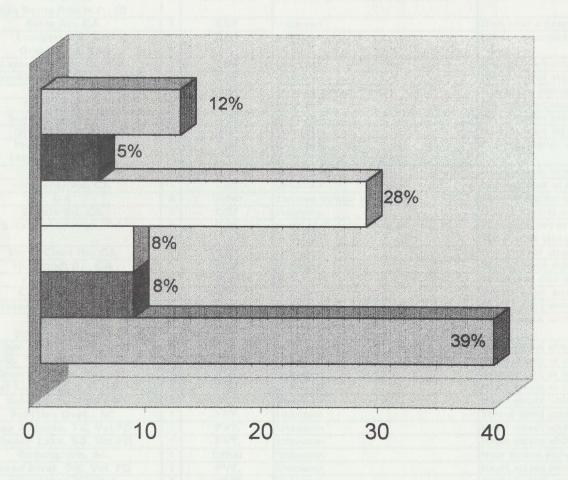
1988	Tampa, FL, Hillsboro Vol. FD	1	PVT.	Unknown	Struck by a truck at an intersection while responding in brush unit.
1988	MT	1	BIA	Unknown	BIA employee killed in yehicle accident.
1988	Brush Coulee Fire, MT	1	BIA	Unknown	Apparatus rolled off hillside.
1988	Bellevue, ID	1	PVT.	Unknown - volunteer	Crushed by over turned tanker.
1988	New Albany, IN	1	PVT.	Unknown - volunteer	Tanker over turned returning from brush fire.
1988	Bushnell, FL	2	PVT.	Unknown - volunteer	Struck by semi-truck while at grass fire.
1989	Noel, MO	1	PVT.	Unknown - volunteer	Motor vehicle accident while responding to timber fire.
1990	Hayre de Grace, MD	1	PVT.	Unknown - volunteer	Collision enroute to station for fire-storm emergency.
1991	Hendersonville, TN	1	PVT.	Unknown - volunteer	Tanker rollover while responding to fire.
1992	Kennewick, WA	1	PVT.	Unknown	Volunteer killed while riding on fire apparatus. Vehicle rolled over.
1992	Mansfield, LA	1	PVT.	Unknown	Apparatus crash.
1992	Caldwell, TX	1	PVT.	Unknown	Apparatus crash.
1992	Crowley, TX	1	PVT.	Unknown	Apparatus rollover.
1992	Menard, TX	1	PVT.	Unknown - volunteer	Collision with tanker responding to grass fire.
1992	Bryan, TX	- 1	PVT.	Unknown - volunteer	Lost control while responding to grass fire.
1993	Forest Grove, OR	1	ODF.	Unknown - Seasonal Firefighter	Apparatus roll.
1993	Howell, NJ	1	PVT.	Unknown - volunteer	Struck by vehicle,
1994	Alva, OK	1	Volunteer	Firefighter attempting to cut off and supress a fire blowing up a canyon below them.	Engine over throw - Firefighter riding on back of engine at night in heavy smoke. Driver drove off edge of canyon wall, firefighter on back was thrown off and engine landed on top of him.
1994	Vantmallo, AL	1	Volunteer	Unknown	Water Tender accident.
1994	Lewellen, NE	1	Volunteer	Unknown	Water Tender accident.
1994	Danny Fire Plumas, N.F., CA	1	Contractor, USFS	Unknown	Water Tender Accident - water tender operator involved in a single vehicle accident while enroute to fire. Operator died at scene.
1994	Boise N.F., ID	1	EFF, BLM	Unknown	Motor vehicle accident - An employee of fire cache died following a
					vehicle accident while delivering cache supplies to a fire.
1995	Claude, TX	2	Volunteer	Unknown	Vehicle/Train
1995	Willard, NM	1	Volunteer	Unknown	Vehicle
1996	Wayne, OK	1	Volunteer	Unknown	Engine rollover, victim crushed.
1996	Bryce Canyon, UT	1	Volunteer	Unknown	Vehicle rollover - Vehicle was off - road responding to a fire.
	Total	75			

Vehicle Related 1910-1996 By Number



- ☐ Riding on Apparatus
- Collision with Train
- ☐ Equipment rollover on fire
- ☐ Struck by Vehicle
- Returning from Fire
- Responding to Fire

Vehicle Related 1910-1996 By Percent



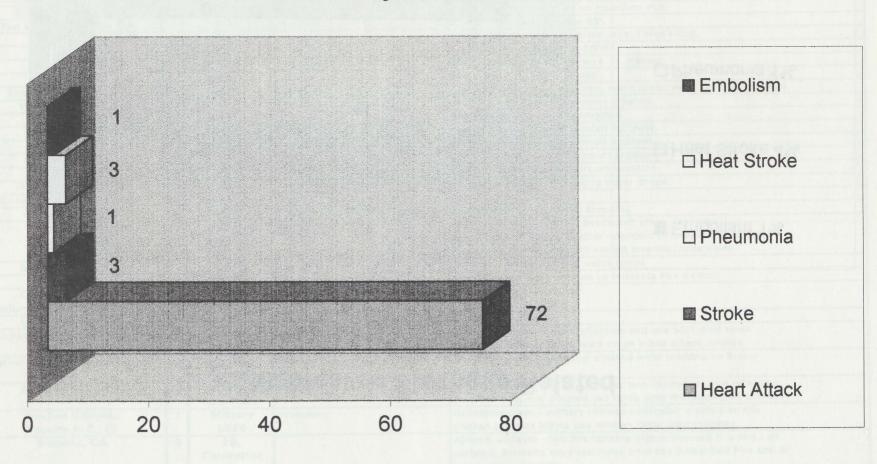
- ☐ Riding on Apparatus 12%
- Collision with Train 5%
- ☐ Equipment rollover on fire 28%
- ☐ Struck by Vehicle 8%
- Returning from Fire 8%
- ☐ Responding to Fire 39%

REMARKS	VIOR OBSERVED	FIR	AGENCY	No.	FIRE NAME	DATE
		FIR	AGENCY	No.	FIRE NAME	DATE
REMARKS ee struck by lightning.		FIR				DATE 1989

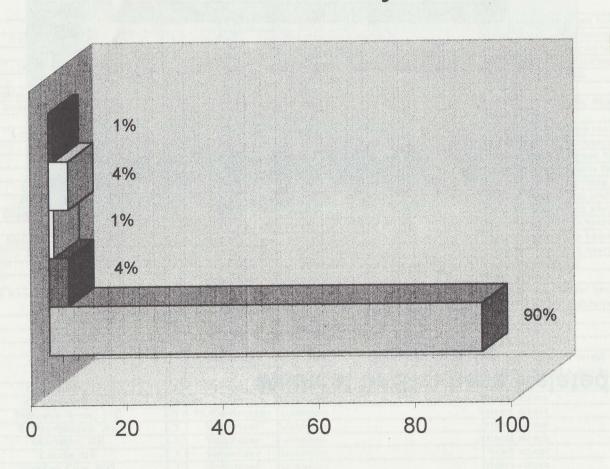
DATE	FIRE NAME/	No.	AGENCY	FIRE BEHAVIOR OBSERVED	REMARKS
	LOCATION				
1944	Hot Spring, Payette NF	1	USFS	Unknown	Man found in sitting position on trail, fire had burned around
	ID	11		A PLUS SERVICES	him. Suspected heart attack or other health problem.
1949	Napa Ru, CA	1	CDF	Unknown	Died of heart attack.
1953	Tulare Ru, CA	11	CDF	Unknown	Died of heart attack while dispatching.
1953	Hill Ranch, El Dorado Ru, CA	1	CDF	Unknown	Died of heart attack on fire.
1956	Humboldt Ru, CA	11	CDF	Unknown	A cook died of a heart attack while on duty.
1956	Sonoma Ranger Unit, CA	11	CDF	Unknown	Died of heart attack.
1959	Stable Fire	1	Unknown	Very hot, dry, unstable atmosphere.	Tried to outrun fire but apparently had a heart attack,
	San Bernadino N.F., ID				
1959	Butte Ru, CA	1	CDF	Unknown	Died after a heart attack, just finishing his shift at fire.
1960	Lumberyard Fire Orange Ru, CA	1	CDF	Unknown	Died of pneumonia contracted on the fire.
1962	Lassen-Modoc Ru, CA	1	CDF	Unknown	Died of heart attack.
1963	Susanville-Lassen-Modoc, CA	1	CDF	Unknown	Died of heart attack.
1963	GA	1	Other	Escaped control burn.	Firefighter overcome by smoke and/or coronary.
1964	Tulare Ru, CA	1	CDF	Unknown	Died of heart attack while dispatching.
1965	Santa Clara Ru, CA	1	CDF	Unknown	Died of heart attack.
1968	Riverside Ru, CA	1	CDF	Unknown	Died of heart attack.
1972	Mud Springs Fire Mendocino Ru. CA	1	CDF	Unknown	Crew supervisor died of heart attack on the fire.
1972	Burnt Ridge Fire	1	Unknown	Unknown	Heart attack, firefighter collapsed on the fireline.
1973	Monterey Ru, CA	1	CDF	Unknown	Lookout died of heart attack.
1973	GA	8	Other	Escaped control burn.	Eight firefighters were shown to have died of heart attacks. 3 over 70 yr
1978	Shasta Ru. CA	1	CDF	Unknown	Died of heat stroke.
1979	Saratoga Springs, CA	1	CDF	Fresh firefighter on 10 ac brush fire in June.	Firefighter either overcome by carbon monoxide or had a heart attack.
1979	Santa Clara Ru, CA	11	CDF	Unknown	Died of heat stroke.
1982	Humboldt Ru, CA	11	CDF	Unknown	Died of heart attack while walking his crew to fire.
1983	Ft. Yukon, AK	1	BLM	N/A	Firefighter died of heart attack while in fire camp.
1987	Klamath NF, CA	11	BIA	Unknown	Died of heart attack.
1987	Inverness, FL, Vol. FD	1	PVT.	Unknown	Heart attack while pulling hose at a brush fire.
1987	Summit, MS Sunnyhill Vol. FD	1	PVT.	Unknown	Heart attack while responding to fire.
1987	Cisco, TX, Cisco Vol. FD	1	PVT.	Unknown	Heart attack after operating at a grass and brush fire.
1987	Azle, TX, Spillway Vol. FD	11	PVT.	Unknown	Heart attack at a grass fire.
1987	Swansea, MA, Vol. FD	11	PVT.	Unknown	Heart attack at a brush fire.
1987	East Bernstadt ,KY, Vol.FD	11	PVT.	Unknown	Heart attack at a woods fire.
1988	Sebring, FL, Vol. FD	1	PVT.	Unknown	Heart attack while responding.
1988	Forestry Dept., SC	1	PVT.	Unknown	Stroke while issuing a summons at a grass fire.
1988	San Antonio, TX, Vol.FD	1	PVT.	Unknown	Heart attack while returning from grass fire.
1988	Timber Lake, SD, Vol.FD	1	PVT.	Unknown	Heart attack while using hand tools at grass fire.
1988	Birmingham, AL	1	Other	Unknown	Heat stroke while checking flanks in woods fire.
1988	Hood River, OR, Vol. FD	1	PVT.	Unknown	Heart attack while pulling hose.
1989	Wenatchee NF, WA	1	USFS	Unknown	Died of heart attack in camp.
1989	Ghent, NY	1	PVT.	Unknown - volunteer	Heart attack while responding to fire.
1989	Wood Lake, MN	1	PVT.	Unknown - volunteer	Heart attack while setting up water tank.

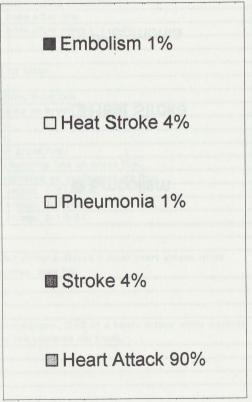
989	Bent, NM	1	PVT.	Unknown - volunteer	Heart attack at brush fire.
989	Conneaut Lake, PA	1	PVT.	Unknown - volunteer	Heart attack while resting after using fire rake.
989	Athens, AL	1	PVT.	Unknown - volunteer	Heart attack while rolling hose after fire.
989	Jacksonville, AR	1	PVT.	Unknown - volunteer	Heart attack while rolling hose after fire.
990	AK	1	USFS	Unknown	Died of heart attack.
990	Snowshoe Fire, Malheur NF,OR	1	USFS	Unknown	Died of stroke.
990	Shasta Trinity NF, CA	1	CDF	Unknown	Died of heart attack. Pick up labor.
990	Wellston, OK	1	PVT.	Unknown-volunteer	Heart attack.
990	Los Padres NF, CA	1	USFS	Unknown- Ynez Fire	Pulmonary embolism resulting from fall.
990	Quincy, FL	1	PVT.	Unknown- volunteer	Heart attack while responding to brush fire.
990	Wichita, KS	1	PVT.	Unknown- Sedgwick Co. Fire Dept.	Heat Stroke at a grass fire.
1991	Marysville, KS	1	PVT.	Unknown - volunteer	Heart attack at prairie fire.
1991	New Buffalo, MI	1	PVT.	Unknown - volunteer	Heart attack responding to grass fire.
1992	Fond Du Dic, WI	11	PVT.	Unknown	Died of heart attack while building line on grass fire.
1992	Glenwood Springs, CO	11	PVT.	Unknown	Died of heart attack while picking up equipment on fire.
1993	Lulkin, TX	1	PVT.	Unknown	Volunteer died of a heart attack. 1-31-93
1993	Monhiggan Lake, NY	11	PVT.	Unknown	Volunteer died of a heart attack. 7-9-93
1993	Florahome, FL	11	PVT.	Unknown	Volunteer died of a heart attack. 8-15-93
1994	Tuskegee, AL	11	USFS	Unknown .	Heart attack
1994	Trendon, MI	11	Volunteer	Unknown	Heat attack
1994	Tyee Fire Wenatchee, N.F., WA	1	Contractor,	Unknown	Heart attack - Water tender driver suffered a fatal heart attack while
1004			USFS		on stand - by in a staging area. Age 58.
1995	Tennesse	1	TSF	Unknown	Heart attack
1995	Era, TX	1	Volunteer	Unknown	Heart attack
1995	Malo, WA	1	Volunteer	Unknown	Heart attack
1995	So. China, ME	1	Volunteer	Unknown	67 year old town forest fire warden. Died of a heart attack while walking
1333					up the plank of a one acre fire towards his truck.
1995	Gallupville, NY	1	Volunteer	Unknown	Heart attack
1995	GreenBriar, TN	1	TSF	Unknown	Heart attack
1995	Princess Anne, MD	1	FS/Contractor	Unknown	Heart attack
1995	E. Providence, AL	1	Volunteer	Unknown	Heart attack
1996	Mariette, OK	1	Volunteer	Unknown	Heart attack
1996	Castle, OK	1	Volunteer	Unknown	Heart attack
1996		1	Volunteer	Unknown	Heart attack
1996		1	Volunteer	Unknown	Heart attack
1990	Total	76			

Medical or Sickness Related 1910-1996 By Number



Medical or Sickness Related 1910-1996 By Percent





DATE	FIRE NAME/	No.	AGENCY	FIRE BEHAVIOR OBSERVED	REMARKS
	LOCATION				
959	Sequoia NF	1	USFS	Unknown	Aircraft crash. Fire in canyon between rock bluffs. Pilot
	Tule River RD, CA				volunteered to dive low and drop in hazardous condition.
1960	Seguoia NF, CA	11	CDF	Unknown	Aircraft crash. Airtanker came over ridge for drop and clipped
	Tule Indian Reservation	1 1			ridge. Reservation protection provided by USFS.
1961	Seguoia NF, CA	3	USFS	Unknown	Helicopter crash (Bell 3-GB). Reconnaissances of fire, Crashed
	Cannell Mdw RD				returning to base, did not have fuel.
1961	Higgins Ridge, UT	1	UT State	Unknown	Walked into main rotor.
			Employee	PER AL BURNEY AND LOS DAMES LINES	pring of pario injust imposed of south their values in engineer as on
1965	McCall, ID	2	USFS	Unknown	A jump plane crashed with spotter and pilot aboard. Occurred
					on a paracargo run after jumpers were dropped.
1967	Livingood, AK	2	BLM	Unknown	B-25 crash due to late pull-out during retardant drop on fire.
			Contractors		Airtanker crash.
1973	Tuolumne - Calaveras Ru, CA	1	CDF	Unknown	Died in hellcopter crash.
1976	Grand Junction, CO	1	BLM	Unknown	B-26 contract pilot killed on retardant run.
1978	San Luis Obispo Ru, CA	1	CDF	Unknown	Died in the crash of "Airco 53".
1981	Paul, ID	3	BLM	Unknown	C-182 aircraft struck electrical wire. Three killed.
1983	R8	11			B-26 hit tree on drop run 3/5/83.
1986	Montrose, CO	4	BLM	Unknown	SA-3158 struck electrical wire, four killed.
1987	CA CA	1	CDF	Unknown	Pilot killed in S-2 tanker crash.
1987	Shasta Trinity NF, CA	3	USFS	Unknown	Pilot and crew of C-119 killed, plane broke apart on retardant run.
1987	White Sands, NM	2	PVT.	Unknown - US Army- contract	Dropping retardant when plane crashed.
1988	WY	1	Other	Unknown	Aircraft accident killed contractor.
1988	WA	2	Other	Unknown	Two Canadians killed in aircraft accident.
1988	WY	1	BLM	Unknown	BLM employee killed in aircraft accident.
1988	Sequola NF, CA	1	USFS	Unknown - Havilah Fire	USFS employee killed in aircraft accident.
1988	OR	11	USFS	Unknown	USFS employee killed in aircraft accident.
1988	Wenatchee NF, WA	2	DNR		Helicopter crash while making water drops.
1990	Colville Reservation, WA	1	Other	Unknown	Helicopter contractor.
	Olympic NF, WA	2	USFS	Unknown- contractor-Wynoochee	
1990	Ziplock Fire	1	USFS	Unknown	Regional lead plane pilot, Beechcraft plane, leading
1991	Cibola NF, NM	1	0313	Ottkilowii	air tanker 119 pulled up after retardant run, started left turn
	Cibola IAF, IAM				and continued roll left until almost inverted, nose down.
1001	Stanislaus NE CA	1	USFS	Unknown - contractor-Pine Fire	Helicopter crash lowering water tanks.
1991	Stanislaus NF, CA	1 2	USFS	Unknown - contractors	Aircraft crash while enroute to Missoula Fire Center.
1991	MT	1	CDF	Unknown	Pilot killed, S-2 Airtanker,
1992	Calaveras Co., CA	'	CDF	OTIKITOWIT	
1000	Tuolumne - Calaveras Ru, CA	12	Contract	Unknown	Aircraft accident,
1992	El Dorado NF, CA	8	USFS		Helicopter crash - Two firefighters and one pilot died when
1994	Guide Fire Gila, N.F., N.M.	8	USFS	Unknown	helicopter crashed. They were on an initial attack mission.
1006	Pultur Co Fine Mineral NAT	2	USFS	Unknown	Airtanker crash - Airtanker crashed while working on Bulter
1994	Bulter Cr. Fire, Missoula, MT	2		Olikilowii	Creek Fire.
1001	Annales N.F. CA	- 19	Contract	Linknown	Airtanker crash - C-130 airtanker was headed to drop retardent
1994	Angeles, N.F., CA	3		Unknown	on brush fires and crashed. All three crew members died in crash.
		1	Contract	Ulatinatura	Helicopter crash - military chinook helicopter crashed on the
1994	Chicken Complex	1	Military	Unknown	chicken complex killing one military flight crew member.
	Payette N.F., ID	-	USFS		Aircraft accident - two fire fighting planes involved in a mid - air
1995	Romona, CA	3	FS,		collision. Aircrafts were returning from the Butterfield Fire and in
			Contractor		
PICTURE S					the process of landing.
	Total	62			

DATE	FIRE NAME/	No.	AGENCY	FIRE BEHAVIOR OBSERVED	REMARKS
	LOCATION				
1946	Council, ID	1	USFS	Unknown	Jumper fatality. Was killed by snag. 7-5-46
1959	Scott Fire, El Dorado Ru, CA	1	CDF	Unknown	Killed by a rolling rock.
1960	Siskiyou NF, CA	1	USFS	Unknown	Snag fell on firefighter.
1961	Clearwater NF, ID	1	USFS	Unknown	Smoke chaser fire. Firefighter killed by snag.
1971	Banks, AR	1	Other	Medium fuels, mod. winds, very high FDR.	Man was knocked unconscious by falling tree. He fatally burned.
1972	Harriş Ridge, ID	2	Other	Steep, rocky terrain, dry fuels and thunderstorms caused squirrelly winds.	Two men on fireline. A rolling log hit them and they rolled into the fire dying of suffocation.
1985	5 Mi. Fire, Wenatchee NF, WA	1	BIA	Unknown	Struck by snag.
1986	Ace Creek Fire	1	?	Unknown	Struck by snag.
1987	Hamm Fire, Stanislaus NF, CA	1	USFS	Unknown	Killed by snag he was falling.
1987	Six Rivers NF, CA	1	Other	Unknown	CCC killed when snag struck vehicle.
1987	Okanogan NF, WA	1	Contract	Unknown- Reynolds Creek Fire	Contractor killed by tree he fell.
1988	Fayetteville, NC	1	Pvt.	Unknown	VFD employee killed by falling tree.
1988	Shoshone NF, WY	1	BLM	Unknown- Clover Fire	Killed by falling tree.
1988	MT	1	Other	Unknown	Killed by a falling tree.
1988	Flathead NF, MT	1	BIA	Unknown- Red Bench Fire	Struck by falling snag.
1989	CA	1	CDF	Unknown	Killed by a falling tree.
1989	Los Padres NF, CA	1	State	Unknown - CA inmate crew	Killed by snag.
1990	Mendocino NF, CA Recer Fire	1	CDF	Snag patch. Crews were warned of snag problems, but not aware of full extent.	Died of head injury inflicted by snag. Tree struck firefighter as he was packing hose up fireline.
1991	Routt NF CO	1	USFS	Small fire, completed line.	Two firefighters had just completed lining a small fire, they were taking a rest on the line, a snag fell out of the perimeter, striking one man on chest.
1992	Boise NF, Cascade, ID	1	USFS	Unknown	Killed by falling tree on fireline.
1992	Pryor Fire Willamete NF, OR	1	State	Unknown	Killed by falling tree.
	Total	22	919.3	Washing and the Report of the Control of the Contro	

Inflicted Injury Related 1910-1996 **By Number** ☐ Snag Felling 19 ■ Snag ☐ Rolling Rocks 5 10 15 20

Inflicted Injury Related 1910-1996 By Percent

