## Index

Accident victims major chemical emergencies, 36 treating chemical burns, 34	driving during a severe thunderstorm, 107 driving during winter weather, 154-157
Action messages	as thunderstorm protection, 102, 106
using positive wording, 2	winterizing, 154 winter storm dangers, 148
ADVISORY messages for tsunamis, 122	Awareness messages, 2
After a disaster	Tivareness messages, 2
earthquakes, 47-49	Basements
fires, 61	pumping out, 92
floods, 70-72	Battery supplies, 9
hurricanes, 90-92	Blindness. See People with disabilities
landslides, 97-98	Blizzard WARNINGS, 148, 152-154
major chemical emergencies, 39	Boats
potential hazards, 15-17	hurricane storage, 83
thunderstorms, 108	severe thunderstorm dangers, 106
tornadoes, 117-119	Bulletins
tsunamis, 127-128	preparing, 3
volcanoes, 134	Burglar bars
wildfires, 143-145	fires and, 52
winter storms, 157	Burns
Aftershocks, 42, 44, 48	chemical burns, 34
Air conditioning	
importance during extreme heat, 75-78	Caffeine
Airports	extreme heat and, 79
volcanic ash warnings, 130	Candle dangers, 16, 48, 88
Alcohol	Carbon monoxide, 149, 156
extreme heat and, 79	CERT. See Community Emergency
Animals. See also Pets	Response Team training
poisonous snakes, 92, 127	Chemical emergencies
protecting during winter storms, 152	action to take during a chemical
trained guide and hearing dogs, 18	emergency, 33-34, 35-36
Antidotes, 30-31	chemical accident scenes, 36
Arson fires, 51	evacuations, 38-39
Asphyxiation	exposure to chemicals, 30
fires and, 51	home chemical emergencies, 29, 30-34
improper use of fuels and, 148 preparing for a fire, 52-53	major chemical emergencies, 29-30, 34-39
Audiences	media and community education ideas
evaluating needs of, 2-3	34-35
Automobiles	preparing for, 34
driving during a flood, 69-70, 87, 90	prevention of, 30-33
0	shelter-in-place instructions, 36-37

Chemical disposal, 31-32	for tsunamis, 124
Children	for volcanoes, 131
appropriateness of messages, 3	water supplies, 22-24
earthquake information, 43-44	for wildfires, 137
emergency telephone numbers chart,	for winter storms, 150, 155
11-12	Documents
explaining disasters, 11-12	photocopying, 10
extreme heat and, 79	storing, 10, 26-27
fire information, 53-55	Drills
first aid courses for, 12	drop, cover, and hold-on, 43, 46
flood information, 65-66	evacuation drills, 10
home chemical emergencies and, 31	fire drills, 53
home fires and, 51	stop, drop, and roll, 53-54, 137
involving in Disaster Supplies Kits	Drinking water. See Water
preparation, 19	Drop, cover, and hold-on drills, 43, 46
poison control center assistance, 33	Droughts
thunderstorm information, 102-103	water conservation during, 76
tornado information, 113-114	Drugs. See Medicines
	Drugs. See Medicines
wildfire information, 137	Fouthandres
winter storm information, 149-150	Earthquakes
Cigarette smoking	action to take during an earthquake,
home fires and, 58	46-47
wildfires and, 135	after an earthquake, 47-49
Communications	aftershocks, 42, 44, 48
battery-operated radios and	causes of, 41-42
televisions, 9	dangers of, 41
plans for families, 7	description of, 41-42
Communities. See also Media and	information for children, 43-44
community education	media and community education ideas,
identifying disaster risks, 6	45-46
public warning systems, 6	planning for, 42-43
Community Emergency Response Team	protecting property, 44-45
training, 13	tsunamis and, 121-123, 125
CPR classes, 9, 12	volcanoes and, 130-131
Crown fires, 135	Education. See Media and community
	education
Day care centers	Elderly people
disaster plans, 6	disaster preparation, 13, 17-18
Debris flows. See also Landslides	heat waves and, 76
causes of, 93-94	winter storm dangers, 148-149
lahars, 130	Electrical surges, 88
volcanic eruptions and, 94	Electrical system damage, 16, 49, 92,
wildfires and, 94	118, 127
Dehydration	Electricity shut-off switches, 8, 14
winter storms and, 153, 157	Emergency Alert System, 9, 22, 35
Denial, 2	Emergency heating equipment, 151
Disabled people. See People with	Emergency management offices
disabilities	people with disabilities register, 17
Disaster Supplies Kits	Emergency medical services, 33
basic items, 20-21	Emergency Response Team training, 13
for chemical emergencies, 34	
	Emergency supplies, 9. See also Disaster
children and preparation of, 19	Supplies Kits
document storage, 26-27	Emergency telephone numbers, 7-8, 11-12
for earthquakes, 44	Escape routes
for evacuations, 9, 14, 21-22	family disaster planning, 7, 9-10
first aid kits, 25-26	for fires, 52
for floods, 66	Evacuations
food, 24-25	for chemical emergencies, 38-39
for heat waves, 76	drills for families, 10
for home confinement, 22	
for hurricanes, 84	escape routes, 7
	family planning, 7
for landslides, 95	family planning, 7 home protection recommendations,
for landslides, 95 purpose of, 19	family planning, 7
for landslides, 95	family planning, 7 home protection recommendations,

supplies kits, 9, 14, 21-22	First aid kits
travel routes, 14	basic items, 25-26
Exhaustion	Flash floods. See Floods
heat, 74-75	Floodplains, 66
winter storm dangers, 148	Floods
Explosions	action to take during a flood
home chemical emergencies, 33	WARNING, 69
Extreme heat. See Heat waves	action to take during a flood WATCH,
Eye injuries	68-69
from chemical substances, 33	after a flood or flash flood, 70-72
T a n	causes of, 63-64
Family disaster plans	dangers of, 63
after-disaster plans, 15-17	driving during a flood, 69-70, 87, 90
awareness information, 5	flood safety, 69
checklists, 7-10	homeowner's insurance and, 8 hurricanes and, 82, 87, 89, 90
creating a plan, 6-7 evacuations, 13-15	information for children, 65-66
identifying risks, 6	media and community education
information for children, 11-12	ideas, 67
media and community education	planning for, 65
ideas, 13	preparing for, 67-68
people with disabilities and, 17-18	protecting property, 66-67
pets and, 12-13	sand bagging, 15
practicing the plan, 10-11	volcanoes and, 130, 132
purpose of, 5	WATCHES and WARNINGS, 64, 68-69
reviewing and updating, 10-11	winter storms and, 151
safety steps, 6-11	Fog, 156
Federal Aviation Administration, 130	Food storage, 10
Federal Communications Commission	Food supplies, 24-25
Emergency Alert System, 9, 22	Freezing rain, 148, 156
Federal Crop Insurance Corporation, 103	Frostbite, 149-150, 153-154, 157
Fire extinguishers	Funnel clouds, 116
for chemical fires, 32	<b>C</b> .
installation of, 56	Garage doors, 85, 115
operation of, 8	Gas
ratings of, 56	earthquakes and, 47, 49
recharging, 11, 57	leaks, 16, 49, 118, 127
use of, 60	shut-off valves, 8, 14-15
Fire resistant materials, 137 Fires. See also Fire extinguishers	Ground fires, 135
action to take during a fire, 60-61	Hail, 99, 100, 111, 115-116
after a fire, 61	Hazardous materials. See Chemical
after-disaster hazards, 16	emergencies
arson fires, 51	Hearing disabilities. See People with
asphyxiation and, 51	disabilities
children and, 51	Heart attacks
earthquakes and, 47	winter storm dangers, 148, 157
evacuation drills, 10	Heat cramps
fire drills, 53	defined, 74
home chemical emergencies, 33	treatment for, 75
home fires, 51-61, 149	Heat exhaustion
home fire sprinkler systems, 57-58	defined, 74
information for children, 53-55	signals of, 74
media and community education	treatment for, 75
ideas, 58	Heat index
prevention, 58-59	defined, 74
protecting property, 55-58	Heating oil tanks
smoke alarms, 8, 52, 55-56	wildfire dangers, 144
stove fires, 60	Heat lightning, 100
volcanoes and, 130	Heat stroke
wildfires, 94, 135-145	defined, 74
winter storm dangers, 149 First aid	signals of, 74 treatment for, 75
for chemical burns, 34	Heat waves
classes, 9, 12	action to take during a heat wave, 77-79
Classes, 9, 12	

dangers of, 73	areas prone to landslides, 94
defined, 74	causes of, 93-94
humidity and, 73	dangers of, 93
media and community education	intense storms and, 96-97
ideas, 77	media and community education ideas,
planning for, 75-76	95-96
protecting property, 76-77	planning for, 95
signals of, 74	protecting property, 95
terminology, 74	safe areas, 94
treatment for, 75	storm-water drainage patterns, 94
in urban areas, 73-74	volcanoes and, 130
Home fires, 51-61, 149	Language disabilities. See People with dis-
Home fire sprinkler systems, 57-58	abilities
Home hazards	Lightning
family disaster planning, 8, 14, 16	dangers of, 99-100
fires and, 59	determining distance from a storm, 100
Homeowner's insurance, 8	first aid for victims, 108
Human-caused disasters. See Arson fires;	heat lightning, 100
Chemical emergencies; Home fires;	wildfires and, 135
Wildfires	Lightning rods, 103
Humidity	Local forecast offices, 5
heat waves and, 73	3.6
Hurricanes	${f M}$ anufactured homes
action to take during a hurricane	tie-downs, 86, 88
WARNING, 87-89	Media and community education
action to take during a hurricane	chemical emergencies, 34-35
WATCH, 86-87	earthquakes, 45-46
after a hurricane, 90-92	family disaster planning, 13
causes of, 81-82	fire, 58
description of, 81	floods, 67
evacuations, 89-90	heat waves, 77
the "eye," 81, 88-89	hurricanes, 85-86
flooding, 82, 87, 89, 90	landslides, 95-96
media and community education ideas,	thunderstorms, 104
85-86	tornadoes, 115
planning for, 83-84	tsunamis, 125
protecting property, 84-85	volcanoes, 132
Saffir-Simpson scale, 81	wildfires, 140
storm surges, 82	winter storms, 151-152
tornadoes and, 89, 110	Medical alert tags, 17
WATCHES and WARNINGS, 82, 86-89	Medicines
Hurricane shutters, 84	bring to public shelters, 89
Hypothermia, 78, 148, 149-150, 157	disposing of outdated medicines, 31
т	heat waves and, 76
Ice storms, 148	nonprescription drugs for Disaster
INFORMATION messages	Supplies Kits, 26
for tsunamis, 123	prescription drugs for Disaster
Information resources, 165	Supplies Kits, 20
Insurance	Meeting places
adequate coverage, 8	family disaster planning, 7
fires and, 61	fires and, 52
landslides, 95	Mobile homes
storm damage to crops, 103	hurricanes and, 88
Inventories, 10	tornadoes and, 112
17 .	Mudflows
Kerosene heaters	volcanoes and, 130, 132
dangers of indoor use, 88	Mudslides. See Landslides
fires and, 59	N
I 1 100	National Fire Alarm Code, 52, 55
Lahars, 130	National Fire Protection Association, 52, 54,
Landslides. See also Debris flows	55, 138
action to take during landslides, 97	National Flood Insurance Program, 67, 95
action to take if imminent danger is	National Oceanic and Atmospheric
suspected, 97	Administration
after a landslide, 97-98	Tropical Prediction Center, 81

volcanic ash warnings, 130	volcanic ash and, 134
Weather Radio, 9, 22	Rockfalls
National Weather Service	volcanoes and, 130
local forecast offices, 5	
NOAA Weather Radio broadcasts, 9	${f S}$ afe deposit boxes, 10
Storm Prediction Center, 5, 64, 82,	Safety messages
100, 148	using positive wording, 2
volcanic ash warnings, 130	Saffir-Simpson hurricane scale, 81
WARNING messages, 5, 64, 82, 99-100,	Salt tablets
110, 148	extreme heat and, 79
WATCH messages, 5, 64, 82, 100, 110,	SAME. See Specific Area Message Encoder
148	Sandbags, 15
Natural gas, 14-15. See also Gas	Schools
Neighborhoods. See Communities	disaster plans, 6
Newspaper articles	Severe storms. See Thunderstorms
preparing, 3	Sewage line damage, 16, 49, 92, 127
News releases	Shelter. See also Public shelters
preparing, 3	finding safe places in your home, 10
9-1-1 service, 11-12, 33	in severe thunderstorms, 102, 105, 106
_	from a tornado, 112, 114
Out-of-town contacts	Shelter-in-place
for families, 7, 14	in case of chemical emergencies, 36-37
Overexertion	Shrubbery, trimming, 84, 103, 114, 139
strenuous activities and heat, 75-78	Shutters, 84, 103, 114
winter storm dangers, 157	Sleet, 147-148, 156
ъ	Smoke alarms
${ m P}$ acific Tsunami Warning Center, 122	battery replacement, 11
People with disabilities	location of, 8, 52
disaster preparation, 13, 17-18	replacement recommendation, 11, 56
emergency management office	test button, 10-11
registers, 17	tips for, 55-56
life-support systems and, 17	Snakes, poisonous, 92, 127
Pets. See also Animals	Snow. See Winter storms
after-disaster care, 6, 7	Snow fences, 151
behavior after earthquakes, 49	Specific Area Message Encoder, 9, 22
disaster planning and, 12-13	Speech disabilities. See People with
evacuations and, 14	disabilities
extreme heat and, 79	Sprinkler systems, 57-58 Stop, drop, and roll drills, 52-54, 127
Pipes protecting from freezing temperatures,	Stop, drop, and roll drills, 53-54, 137 Storm Prediction Center, 5, 64, 82, 100, 148
150-151	Storms. See also Hurricanes;
Poison control centers, 33	Thunderstorms; Winter storms
Poisoning	landslides and, 96-97
symptoms of toxic poisoning, 33	Storm surges, 82
Poisonous snakes, 92, 127	Storm windows, 76-77, 150
Portable heaters	Stove fires, 60
fires and, 59	Sunburn, 78
Power line damage, 17, 118	Sunstroke
Prescriptions. See Medicines	defined, 74
Presentations	Supplies. See Disaster Supplies Kits
preparing, 3	Surface fires, 135
Propane gas. See also Gas	
shut-offs, 9, 14-15	${ m T}$ echnological disasters. See Chemical
wildfire dangers, 139, 144	emergencies
Public shelters	Telephone numbers, emergency, 7-8, 11-12
items to bring, 89-90	Televisions, battery-operated, 9
pets and, 6, 7	Testing laboratories
Public warning systems, 6	fire prevention, 59
D	Thunder
Radios	determining distance from a storm, 100
battery-operated, 9	as flood warning, 67
NOAA Weather Radio, 9, 22	lightning and, 99, 100
Renters' insurance, 8	Thunderstorms
Resources, 165	action to take during a severe thunder-
Respiratory conditions	storm WARNING, 105-107

action to take during a severe thunder-	media and community education
storm WATCH, 105	ideas, 125
after a thunderstorm, 108	planning for, 123-124
causes of, 99-100	protecting property, 124-125
dangers of, 99	volcanoes and, 130
description of, 99	warning centers, 122-123
determining distance away from, 100	warning signs, 123
hail and, 99, 100	WATCHES and WARNINGS, 122, 125-126
information for children, 102-103	
lightning and, 99-100	Underwriter's Laboratory, 137
media and community education	Urban heat island effect, 74
ideas, 104	U.S. Department of Agriculture
preparing for, 104-105	Federal Crop Insurance Corporation, 103
protecting property, 103	U.S. Geological Survey, 130
tornadoes and, 110	Utility shut-off valves, 8
WATCHES and WARNINGS, 5, 99-100,	othicy shar on varves, o
105-107	Vapors, toxic, 31
winds and, 99, 100	Visual impairments. See People with dis-
Tie-downs, 86, 88	abilities
Toilets	Volcanic ash, 130, 133-134
building a makeshift toilet, 21	Volcanic eruptions
Tornadoes, 110	and debris flows, 94
action to take during a tornado	Volcanoes
WARNING, 116-117	action to take during a volcano, 132-133
action to take during a tornado	after a volcano, 134
WATCH, 116	causes of, 130
after a tornado, 117-119	danger of, 129
causes of, 109-110	description of, 129-130
danger of, 109	earthquakes and, 130-131
danger signs, 115-116	lahars, 130
description of, 109-110	lava dangers, 130-131
folklore concerning, 111	media and community education
hail and, 111, 115-116	ideas, 132
hurricanes and, 89, 110	planning for, 131
information for children, 113-114	protecting yourself during ashfall, 133
media and community education	volcanic ash, 130, 133-134
ideas, 115	
planning for, 112-113	Wall clouds, 115-116
preparing for, 115-116	WARNING messages
protecting property, 114-115	for floods, 69
rain and, 110-111	for hurricanes, 82
thunderstorms and, 99, 110	meaning of, 5, 64
warning systems, 112-113	for thunderstorms, 99-100
WATCHES and WARNINGS, 110, 116-117	for tornadoes, 110
waterspouts, 111	for tsunamis, 122
Toxic gases	for winter storms, 148
from household chemical products, 31	WATCH messages
Trailers. See Manufactured homes; Mobile	for floods, 68-69
homes	for hurricanes, 82
Trees, trimming, 84, 103, 114, 139	meaning of, 5, 64
Tropical Prediction Center, 81	for thunderstorms, 100
Tsunamis	for tornadoes, 110
action to take during a tsunami	for tsunamis, 122
WARNING, 126	for winter storms, 148
action to take during a tsunami WATCH,	Water
125-126	amount needed, 23
action to take if a strong coastal	checking drinking water after a
earthquake is felt, 125	wildfire, 145
ADVISORY messages, 122	contaminated, 72, 88, 92
after a tsunami, 127-128	damage to lines, 16, 49, 92, 127
causes of, 121-122	shut-off valves, 8, 14
danger of, 121	sources of, 23-24
description of, 121	storage, 22
earthquakes and, 121-123, 125	supplies, 10, 16-17, 22-24
INFORMATION messages, 123	treating, 23

```
Waterspouts, 111
Website addresses for organizations, 165
West Coast/Alaska Tsunami Warning
  Center, 122
Wildfires
  action to take when wildfire threatens,
  141-142
  after a wildfire, 143-145
  causes of, 135
  checking drinking water in damaged
  houses, 145
  classes of, 135
  damage to remaining trees, 144
  dangers of, 135
  and debris flows, 94
  evacuations, 142-143
  information for children, 137
  maintaining plants and vegetation,
  138-139
  media and community education
  ideas, 140
  planning for, 135-136
  preventing, 140-141
  protecting property, 137-138
  reducing fire hazards, 139-140
  returning to your home, 143-144
Wind chill, 149
Window protection, 15
Winds
  thunderstorms and, 99, 100
Winter storms
  action to take during a winter storm
  WARNING or blizzard WARNING,
  action to take during a winter storm
  WATCH, 152
  after a storm, 157
  causes of, 148
  conserving fuel, 15
  dangers of, 147, 148-149
  dehydration and, 153, 157
  description of, 147-148
  driving during winter weather, 154-157
  information for children, 149-150
  media and community education
  ideas, 151-152
  planning for, 149, 152
  protecting property, 150-151
  protecting yourself outside, 153-154
  WATCHES and WARNINGS, 148, 152-154
  wind chill, 149
Workplaces
  disaster plans, 6
```