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1973

STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1972

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ALABAMA Dixonville, Escambia County	15	7:00 a	1	50	0	3	3	0	Tornado
					Tornado touched down in rural area 1.5 miles south of Brewton completely destroying one home and injuring three occupants, one critically.				
ALASKA Palmer	16				0	1	4	0	WIND
					High winds - with unofficial gusts to 100 miles per hour - tore through Palmer. Both the Swanson Elementary School and the Tesoro service station suffered roof damage. One injury was reported when a law officer was knocked down by a sudden gust of wind.				
Kotzebue	10-12				0	0	3	0	WIND
					Strong 30 to 40 mph southeasterly winds with peak gusts to 51 mph commencing on the 10th veered to the west on the 11th and increased to maximum winds of 53 mph with peak gusts to 71 mph. Strong 50 mph winds with peak gusts to 63 mph continued through the morning of the 12th before finally abating. Telephone lines and the TV cable were down. A few planes also broke loose and were blown over, with light damage resulting.				
ARIZONA					NONE REPORTED				
ARKANSAS					NONE REPORTED				
CALIFORNIA 37.7 N 122.3 W vicinity Alameda Naval Air Station	7	1000P	-	-	-	-	-	-	Funnel Cloud
Sacramento and San Joaquin Valleys	9 thru 12				-	-	-	8	Sustained cold spell throughout state.
West Los Angeles	25				-	-	5	-	Extreme Santa Ana Winds.
Antelope Valley	28				-	-	5	-	Extreme Santa Ana Winds.
COLORADO Entire State	4-7				2	0	0	0	Snow, wind, cold
					The fifth major snowstorm of the winter season brought heavy snow and bitter cold to much of the state. Snowfall totals of 12 inches or more were reported in many areas. High winds on the evening of the 4th caused blizzard conditions over the eastern plains. A 21 year old University of Colorado student was caught in the blizzard while cross-country skiing west of Boulder, and froze to death. A rancher southwest of Denver also froze to death while searching for cattle strayed by the blizzard. Numerous record low temperatures were established during this period as extended cold weather caused fuel shortages and some school closures in both Denver and Colorado Springs. Several temperatures in the minus 30 degree range were observed, mostly in the high mountain valleys.				
General					2	0	0	0	Avalanche
					Two persons were killed by avalanches this month, one near Aspen on the 5th, and another near Steamboat Springs on the 20th. This has been a particularly bad fall and early winter for avalanches due to the early heavy snows and persistent cold weather.				
CONNECTICUT Statewide	4-6	p.m.-p.m.			0	0	4	0	Glaze, rain, wind
					Freezing rain and strong winds combined to topple trees and down power lines in a number of places especially in the north and in Bridgeport. Some schools and other facilities were forced to close. Precipitation gradually changed to rain which became heavy during the afternoon of the 6th and caused local flooding in coastal areas and combined with snow melt to flash flood some northern locations.				
Statewide	15-16	p.m. - p.m.			0	0	5	0	Snow, glaze
					Major coastal storm produced snow and freezing rain in the north, freezing rain and rain in the south before ending in scattered heavy snow squalls in the north. New snowfall amounts ranged from 1 to 8 inches. The storm was responsible for almost 200 traffic accidents, two of which resulted in one fatality each.				
Statewide	21-22	p.m. - a.m.			0	0	4	0	Glaze
					Storm began as snow but quickly changed to freezing rain and finally to rain. An unusually large number of traffic accidents resulted.				
DELAWARE State	31								High temperatures
					Temperatures were unseasonably warm on this last day of the year. Some records were set for this date, including the maximum temperature at the Wilmington National Weather Service airport station.				
FLORIDA 20 WSW Pensacola	04	10:50a							Waterspout
11 SSW Pensacola	04	11:00a							Waterspout
3 NW Pensacola	06	10:10a	1/4	10	0	0	2	0	Tornado
					A tornado swept away several storage sheds in a rural area of Santa Rosa County. Damage was minor. No injuries were reported.				
WSW Key West NAS	06	2:25p							Funnel aloft
6 E Palm Beach	07	1:43p							Funnel aloft (2)
					Two funnels aloft were sighted.				
13 SE Palm Beach	08	11:00a							Waterspout
12 WSW Herndon AP	10	2:45p							Funnel aloft
Palatka 33 S Jacksonville Naval Air Station	15	10:55p							Funnel aloft
7 E Miami	15	2:52p							Waterspout
Suwannee County	21	about 1:45p	8	30	0	0	4	0	Tornado
					A tornado touched down several times over an eight mile span of Suwannee County leaving a trail of damage estimated at \$35,000. The tornado moved northeasterly from Dowling Park to Live Oak destroying two mobile homes, a tobacco barn and a frame house. Other minor damage was also reported.				
12 WSW Orlando	21	2:45p							Funnel aloft
5 NE Key West	25	12:15p							Funnel aloft
GEORGIA Southwest and Central	5-6				0	0	5	4	Heavy Rains
					Rains that began during the night of the 5th and continued through most of the 6th caused flash flooding in several communities in southwest and central sections. At least 17 stations, in the area extending northeastward from Blakely to beyond Macon, had 24-hour totals of more than 4 inches. Roads and bridges were damaged and 3 buildings under construction at Americus were heavily damaged. A residence was hit by lightning at Americus and light hail was reported. Light wind damage was reported near Perry in Houston County. The rains delayed harvest completion and caused deterioration of crops remaining in the fields.				
North Central	14-15				0	0	4	0	Heavy Rains
					Heavy rains over a several county area caused damage to roads and streets and flooded some basements. Athens Airport had 4.33 inches in 24-hours and a few places reported more.				
HAWAII Kilauea Crater, Hawaii Volcano National Park, Hawaii Island	3	About 2:30 p.							Funnel cloud
					Funnel cloud extended to about 500 feet of ground from dark cloud over south rim of Halemauau fire pit and moved to middle of pit where volcano smoke swirled into funnel. Winds were from southwest and rain was not falling. Cold front had passed Hilo Airport at about 10 a.m.				
Kalihi Valley, Oahu	17	1:19 p.-1:24 p.							Funnel cloud
					Funnel cloud, first observed as reddish dust column, later appeared to join tip extending from cumulus cloud base at about 900 feet above ground but possibly penetrating from cumulus cloud base at 2,500 feet. Funnel began dipping in snake-like motion about 400 feet, alternately dissipating and forming for about 5 minutes as it moved westward. No rain in area.				
Kawahoa Point, Koko Head, Oahu	17	About 3:00 p.			1	0	0	0	Wave
					29-year old man swept off ledge by large wave and carried out to sea by current.				
Eastern slopes of Waianai Mountains near Kunia, Oahu	28	2:28 p.-2:40 p.							Funnel cloud
					Stationary-appearing funnel cloud with broad base and narrow apex extended down about 500 feet from dark cumulus clouds with base at 2,000 feet.				
8 miles NW Barking Sands, Kauai	30	9:32 a.-About 11:00 a.							Waterspouts
					At least 5 waterspouts alternately formed and dissipated in advance of cold front. First waterspout largest and lasted about 10 minutes. First 3 waterspouts extended straight down into ocean while later waterspouts sloped toward northward moving dark cumulus parent clouds. Churning of ocean surface observed, but no rainfall.				

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					KILLED	INJURED	PROPERTY	CROPS	
IDAHO Southern and Eastern Idaho	2-3				0	3			Snow
									Heavy snow (2-16"), low temperatures, and drifting left hazardous driving conditions across southern and eastern Idaho. A number of schools were closed on the 4th and 5th in south central and eastern parts of the State.
Aberdeen, Bingham County	6				0	0	4		Freeze
									Sub-zero temperatures and a 7-hour power outage accounted for loss of all potatoes in five greenhouses. Many pipes and water mains were frozen.
Idaho, All	6-8				0	0	4		Freeze
									Sub-zero temperatures, frozen water lines, and snow and ice accounted for widespread problems. Some 2000 residents in the Kellogg-Wallace area were without water due to frozen water mains.
Pocatello, Bannock County	9-18				0	0	4		Ice Jam-Flooding
									Ice jams on the Fortneuf River, west Pocatello, accounted for local flooding and accompanying minor damage.
Caldwell, Canyon County	11				0	2	4		Freeze
									A 90-year old lady found unconscious in snow in 15°-20° below zero temperatures. A 20-year old man was hospitalized from overnight exposure. 28 livestock lost to area rancher.
Weiser, Washington County	12-21				0	0	5		Ice Jam-Flooding
									Ice jams on the Snake River resulted in flooding, driving about 150 families from their homes and causing considerable damage to land and property.
Blackfoot, Bingham County	13-19				0	0	4		Ice Jam-Flooding
									Flooding caused by ice jams on the Snake River drove about 30 families from their residences. Damage was moderate.
Salmon, Lemhi County	13-18				0	0	4		Ice Jam-Flooding
									Flooding, resulting from ice jams on the Lemhi and Salmon Rivers at and near Salmon, damaged some businesses and residences in the flood plain.
Southwest Idaho Valleys	8-15				0	0	6	5	Freeze
									Sub-zero temperatures over one of the longest periods of record resulted in inestimable damage to fruit and grape producers. Much of the peach crop is lost for next year; severe, but as yet undetermined, damage was sustained by other fruit trees. Trees were reported to crack like rifle shots in orchards. Exotic plum variety damage is unknown at this time. One-half to two-thirds of the 1973 grape crop is considered destroyed. Most first and second year grape plants, amounting to about 500 acres, will have to be regrown from the roots; snow cover may have insulated roots from damage.
Star, Ada County	22 3 a. - 5 a.				0	0	3		Wind
									Violent wind destroyed two sheds on a ranch 1 1/2 miles east of Star. Limited damage was reported about 4:30 a.m. at Caldwell to the west.
ILLINOIS Central Illinois	11-12				0	0	06	0	Freezing rain, sleet
									Although Southern and Central Illinois was plagued by periods of freezing rain and drizzle earlier in the month (Dec. 3 through 6), none quite rivaled the Dec. 11th and 12th ice storm in intensity and areal coverage. During that storm, most of the state received various combinations of sleet, snow and freezing rain, however, the heaviest glazing occurred through Central Illinois along and 75 miles either side of a line from St. Louis to Springfield to Kankakee. Even in that area, the intensity of the glazing varied with the hardest hit spots experiencing tree damage, downed power lines and damage to light structures. In some locations, slush and ice clogged storm sewers which resulted in flooding. The storm indirectly caused many automobile and pedestrian injuries and a few deaths as a result of the slippery conditions.
Cook, DuPage, Will, Kankakee Counties	29-30				0	0	05	0	Rain
									A combination of rain, melting snow and ice, already high rivers, and saturated or frozen ground resulted in flooding in the western and southern Chicago suburbs and along the Kankakee River. Between 1 and 2 inches of rain fell on the 29th and 30th.
INDIANA NW third of Indiana	12 6:23a - 1:35p				0	10	4	5	Freezing rain
									Freezing rain coated surfaces with up to 1/2 inch of ice. Roads were glazed. Interstate Road 65 was closed temporarily in two places between Chicago and Indianapolis. County roads remained glazed and school buses did not operate in many areas. South Bend reported 10 persons injured due to slippery sidewalks. Additional loss to unharvested corn and soybeans resulted from lodging.
INDIANA (continued) South Bend	16 All day				0	0	4	0	Snow, wind
									Heavy snow, with drifts to eight feet in some places, closed the Indiana Toll Road for several hours between La Porte and Elkhart.
IOWA	11-12				0	0	5	5	Heavy snow-storm
									Snow began late the 11th and spread over the State during the night depositing 4 to 10 inches new snow over all but extreme SE and NW portions where amounts were 1 to 4 inches. Highways were treacherous, many schools closed and most outside activities were difficult. The weight of the snow downed some lines and caused some tree breakage. Crop harvest was further delayed by the snowstorm.
KANSAS Extreme Southeast	11				0	0	4	0	Ice
									Roof of bakery collapsed at Pittsburg and some power lines downed in Montgomery County.
Harper, Montgomery, Wilson Counties	11 eve to 11:30 p.				0	0	4	0	Lightning
									Local damage to houses reported at Caney, Waldron, and in the Neodesha area.
Cowley County	29 6:25 p.				0	0	3	0	Hail
									Hail up to about 1 3/4 inches diameter fell at Winfield.
Kansas City, Ks.	29- night of 30 29-30				0	0	5	0	Wind
									Numerous power lines were downed and some cars, residences, and outbuildings were damaged as a line of thunderstorms moved through the metropolitan area about midnight.
Crawford County	29- night of 30 29-30				0	0	4	0	Wind
									Power lines were downed, barns and small sheds demolished, and police radio tower damaged at Pittsburg about midnight.
KENTUCKY Western Half	7				?	?			Flooding, heavy rain
									During the week of the 4th-10th, daily rains, heaviest on the 8th-10th, totals from 2 to about 6 inches, caused flooding of a number of tributaries of the Ohio River. The Salt and Rolling Fork Rivers were several feet above flood stage from about the 10th-12th, on the Rolling Fork; on the 9th, along the Salt River. The lower Green River was above flood stage from about the 9th to the 15th; and the upper Green from about the 10th to the 26th. Due to the heavy rains there was overflow of smaller streams, flooding of low-lying acreage and roads at scattered locations. There was damage to crops still in fields and river bottom areas. Damage figures were not available. There was flooding along the Mississippi River beginning about mid-month.
Eastern Half	8								High water, heavy rain
									Due to heavy rains there were substantial and rather rapid rises on many tributaries of the Ohio River during December 8-10; few or none passed the official flood stage. However there was considerable damage, due to loss of crops still in fields, flooding of roads in low places at scattered locations, flooded basements, flooding of low-lying farm acreage, etc. A news report stated that some 25-30 families were evacuated from their homes in the Farmers and Salt Lick area on the Licking River; three to four feet of water was reported in some homes in the area.
									Mudslides and rockslides at scattered locations were reported by news sources to be the result of heavy rains. Some of the areas reported to have slides were: rockslides in the Cattleburg area, Boyd County, northeast Kentucky (auto and rail traffic blocked on U.S. 23); mudslide and/or landslide in Sanctified Hill section, Cumberland, Harlan County, southeast Kentucky (75 people evacuated from their homes and considerable damage to a number of homes); Straight Creek vicinity, Bell County, southeast Kentucky (road and water supply damaged); road blocked by dirt slide in Hyden area, Leslie County, southeast; earth slide in Owingsville area, Bath County, northeast (damage to water mains); slide on Canada Mountain, Bell County, southeast; mudslide, Mill Branch vicinity, Letcher County (home threatened).
Nelson County	8 ?				2	0			Flooding
									Two men were killed when their car plunged into water covering a highway.
Pendleton County	8 Night				3	0			Flooding
									Three persons were drowned when a car drove off a low water slab bridge shortly before midnight. Kentucky State police said the creek was swollen and was over the bridge about 4 to 5 feet deep.

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KENTUCKY (continued)									
Clay County	10				1	0			Flooding
	An Oneida man was reported to have drowned in the flood swollen Bear Branch near his home. A news report indicated that he apparently was sight-seeing in a flat bottom rowboat when it capsized.								
Southeast	10				0	0	4	4	Flooding
	Flooding of the upper Cumberland River occurred in southeastern Kentucky at Williamsburg, Kentucky, and upstream to Baxter. Flooding was only slight at Baxter and Pineville, but more severe at Barbourville where the crest was almost 11 feet over flood and just 5 feet below the record flood of 42.8 feet of 1946. An estimated 105,000 acres of farm property were inundated. The crest flattened again below Barbourville. At all four locations mentioned, the December 1972 stages were below the stages reached in December 1969. Frequent and above normal rainfall over the Cumberland basin during November and early December set the stage for flooding with soil and stream storage capacity well filled. Rainfall in 24 hours ending at 7 a.m. on the 9th averaged 1.80-2.00 inches. This was followed by additional heavy rain, amounts for a 24-hour period ending at 7 a.m. on the 10th averaging 2.00-2.50 inches.								
	Damage was primarily to crops and agricultural land. Damage to crops was estimated at \$10,000 in Whitley County and \$30,000 in Knox County. Also 20 dwellings were flooded in Knox County damage estimated at \$10,000. Damage to public property (mostly bridges) was estimated at about \$5,000.								
Ohio River	11						7	7	Flooding
	Due to the heavy rains of the 4th-10th, the Ohio River rose to flood stage along its entire length bordering Kentucky. The water reached flood stage about the 11th at most points from Ashland, downstream to Louisville, and at most points downstream to Cairo, Ill. by the 13th. The River fell below flood stage at Ashland on the 13th, in the Louisville area on the 16th, in the Evansville area by the 20th; but was still above flood stage at most points along the west Kentucky border at the end of the month. There was some damage, especially to crops not yet harvested in low-lying areas in the river bottoms. Damage estimates were not available. At Cincinnati, it was the 4th time since 1855 that the river had reached flood stage in December; and at Evansville, the third highest stage of record for a December. On December 24th, the Cairo, Illinois gage registered 46.98 feet, for the highest December stage ever recorded. Uninterrupted records go back to 1872, with scattered reports as early as 1859. Records indicated that it was the fourth time the river had reached flood stage in a December at Louisville in 98 years; at Paducah, the highest December stage in 82 years of record.								
Mississippi River	17								Flooding
	The Mississippi River bordering western Kentucky went above flood stage (at New Madrid, Missouri) on December 17th. (See the January 1973 issue of this publication for additional information).								
	NOTE: See this month's issue of the publication CLIMATOLOGICAL DATA NATIONAL SUMMARY for additional information concerning flooding, damage, etc.								
LOUISIANA									
Rapides Parish	4	4:45 a.			0	0	0	0	Hail
	Hail of golf ball size reported near England AFB.								
Northwest Parishes	11	morning			0	0	?	0	Glaze
	Freezing rain resulted in poor road conditions as bridges and overpasses glazed. I-20 closed in Shreveport-Bossier City area. Numerous automobile and truck accidents.								
Central and Southern Parishes	17								High pressure
	All-time maximum sea-level pressures recorded at Alexandria (30.83 inches); Baton Rouge (30.80 inches); Boothville (30.75 inches); and Lake Charles (30.79 inches). The 30.81 inches at New Orleans was a record for December, and only 0.02 inch under the all-time record set January 6, 1924.								
State	1-22				0	0	5	6	Rain
	Periodic moderate to heavy rainfalls severely hampered harvests of cotton, soybeans and sugarcane. Boggy field conditions virtually halted operations. Yield and quality of 10 percent of these crops still in fields doubtful. Rains also caused persistent flooding problems in many low-lying areas.								
MAINE									
State	1				0	0	4	0	Snow, glaze, wind
	Snow beginning on November 30 became a major early-winter snowstorm with totals generally 8 to 16 inches in the northern and central portions, and tapering down to 3 to 6 inches along the coast. Precipitation became mixed with or changed to freezing rain in much of southern portion, with very hazardous road conditions. Seaport reported up to 1/2 inch ice on trees and wires. Combined with strong winds, the load of snow and ice broke many tree limbs, causing localized utility outages.								
Southern	5				0	0	0	0	Glaze
	Snow continued from the previous day before changing to freezing rain in the forenoon, producing hazardous road conditions.								
MAINE (continued)									
Southern	8-9				0	0	0	0	Glaze
	Freezing rain coated roads with ice, with numerous accidents resulting. A fatal accident occurred at Waldoboro.								
State	12-13				0	0	4	0	Glaze, wind
	Freezing rain over much of state caused very hazardous roads, with many accidents. Scattered wind damage on 13th.								
State	15-17				0	0	5	0	"Northeaster," snow, wind, glaze, blizzard
	A deep low pressure center passed northeastward off the New England coast December 15-16 and into the Gulf of St. Lawrence by the 17th. Strong northeast winds with damaging gusts became northwesterly after the passage of the lowest pressure but continued with damaging force into the 17th. The storm brought heavy snow, mostly 6 to 12 inches in the southern half, with some areas of glazing from freezing rain. In the north totals were mostly 10 to 18 inches. Heavy drifting made travel difficult. Many accidents. Full blizzard conditions existed in some areas at times late on the 16th and into the 17th as temperatures fell to 10° or lower and winds filled the air with blowing snow. Many limbs blown down, some with damage to utility lines and other property. Wind gusts of 40 to 50 m.p.h. were common at many stations for an extended time. Some damage to coastal installations by wind and high surf.								
State	21-22				0	0	0	0	Glaze
	Freezing rain caused very slippery conditions.								
State	30-31				0	0	5	0	Snow, glaze
	Major snowstorm with totals variable up to more than one foot. Glaze from freezing rain at times in the southern half with severe ice storm in the coastal section. Many skidding accidents. Weight of snow and ice broke limbs and caused property damage, including the collapse of a large building in the Augusta area, and utility outages.								
State	Month								Glaze
	Icing from freezing precipitation was exceptionally frequent and persistent this month, especially in the southern portion, with not all local occurrences listed above. Portland reported glaze on 16 different days in the month.								
MARYLAND									
Western portion	8				0	0	3	0	Rain, flooding
	Rain brought some local flooding in low-lying areas along streams. Some sections of state and county roads were closed because of high water, especially in Frederick County. Damage was minor.								
Northern portion	16-17				0	0	4	0	Wind
	Strong gusty winds brought scattered reports of damage, mostly minor. Blizzard-like conditions prevailed in the Garrett County area where road crews were busy, keeping highways open. Several traffic accidents and scattered power blackouts were attributed to the wind.								
Ocean City	22				0	0	3	0	High tides, flooding
	High tides, estimated at 3.5 feet above normal, spilled over the bulkheads along the bay side and covered some areas to depths of several feet. Damage was minor, including that from erosion.								
State	31								High temperatures
	Temperatures were unseasonably warm on this last day of the year. Some records for this date were set.								
MASSACHUSETTS									
West and north	1				0	0	4	0	Snow, glaze, wind
	Snow beginning on November 30 became a major early winter snowstorm in the northwestern section with totals generally 6 to 10 inches, with amounts tapering down to the southeast. Precipitation became mixed with or changed to freezing rain before ending, with very hazardous road conditions. Combined with strong winds, the load of snow and ice broke tree limbs, with local damage.								
State	4-5				0	0	5	0	Glaze
	Freezing rain common except on Cape Cod, but heaviest deposits of ice accumulated in the Greater Springfield area with accumulations up to 1/2 inch thick or greater. Roads extremely slippery, with numerous accidents. Many Connecticut Valley schools were closed in the Springfield-Hadley-Belchertown area. Ice toppled trees and limbs, causing massive utility failures, affecting thousands of customers. A large utility failure also in Haverhill.								
State (except southeast)	8-9				0	0	0	0	Glaze
	Freezing rain caused very hazardous roads with many accidents and traffic delays. A fatal accident occurred in Winchendon.								
State	12-13				0	0	4	0	Glaze, wind
	Widespread freezing rain caused extremely hazardous roads, with many accidents and travel delays. Scattered damage from wind on 13th.								

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MASSACHUSETTS (continued)									
State	15-17				0	0	5	0	"Northeaster," snow, wind, glaze
A deep low pressure center passed northeastward off the coast on December 15-16 and on into the Gulf of St. Lawrence by the 17th. Strong northeasterly winds backed to northwesterly with the storm passage but continued with damaging gusts into the 17th. Wind and high surf damaged boats and coastal installations and many falling limbs inland caused utility failures and other property damage. On the 15-16th the storm brought snowfall of 4 to 10 inches over most of the state, but tapering down southeastward to little or none on Cape Cod where nearly all fell as rain. Considerable freezing rain from the central to northeastern portions, and some glazing also farther west. Travel became very difficult and many accidents occurred, with many injuries and some fatalities.									
State	21-22				0	0	4	0	Glaze
Freezing rain caused very slippery conditions, with many auto and pedestrian accidents. Ice on trolley rails tied up transit lines in Boston.									
State	30-31				0	0	5	0	Glaze
Extended period of severe icing from freezing rain, with ice accumulation frequently 1/2 to 3/4ths inch thick in northern half and 1/4 to 1/2 inch in southern half except decreasing to little or none on Cape Cod. Pre-holiday travel very hazardous, with many delays. Many activities cancelled. Many skidding accidents. Serious damage to trees, especially to maples, with one grove in the north-central portion noting a 50% loss. Falling trees and limbs caused utility outages and property damage. Utility outages especially numerous in the northwest. Rapid Transit lines delayed by iced rails in Boston.									
State	Month								Glaze
Icing from freezing precipitation was exceptionally frequent and persistent this month, with local occurrences not all listed above. Some individual stations reported glazing on up to 15 days, with total hours with glazing exceeding the usual number of hours of any kind of precipitation in many months.									
MICHIGAN									
Southern Michigan	12	am-pm			0	0	4	7	Freezing Rain to Rain
Over an inch of freezing rain which changed to rain was absorbed in a 4 to 6 inch snowcover. The accumulated weight is believed responsible for the many roofs which collapsed including: 5 large greenhouses near Hudsonville; one barn where 3 cows were killed near Ionia; a porch roof at Fennville; the city hall roof at Stanton; and storage sheds near Bay City. Loss estimates ranged from \$500 to \$5,000 with the total over \$30,000.									
Lower Michigan	29-31	pm - pm			0	0	4	7	Freezing Rain to Rain - Snowmelt - Flooding
Warming temperatures, freezing rain changing to rain melted snow cover to cause widespread flooding in many areas of southern Michigan. The high water closed many roads, collapsed basement walls, and forced some to evacuate their homes by boat. Rivers which created above flood stage on December 31 include: the Flint River at Flint, 2 feet above flood stage; Red Cedar, 1.9 feet above flood stage at Williamston; Shiawassee, 1.3 feet above flood stage at Owosso. Minor flooding occurred on the Grand River, Pine River, Cass River, and Tittabawassee. Flooding continued into early January 1973. Unharvested corn and soybeans suffered additional damage. Heaviest rainfall exceeded 1 inch in these areas.									
MINNESOTA									
Southern Half of State	4th & 5th				0	0	0	?	Heavy snows
Heavy snows of 4 inches began early morning on the 4th in the Beardley-Ortonville area and spread eastward on a narrow band throughout the day. Heavy snows of 4 to 8 inches fell in the south central and southeast part of the State. They began about 6:00 pm on the 4th and continued until late afternoon on the 5th. The greatest amounts were in the Austin-Rochester areas averaging 8 inches. Snows caused some traffic accidents and continued to delay harvesting of crops particularly in the southeast.									
Southeast and Part of South Central	12th	1:00a to 9:00p			0	0	0	0	Heavy snows
Heavy snows of 4 to 10 inches began about 1:00 am and continued throughout the day and ended in Houston County about 9:00 pm. The heaviest snowfalls reported were 11 inches at Bricelyn and 10 inches at Galedonia. Many traffic accidents and traffic delays were common in the heavier snow area.									
MINNESOTA (continued)									
Statewide	29th 30th 31st				0	0	6	0	Blizzard, ice-storm and heavy snows.
The precipitation began generally during the early morning hours on the 29th and continued into the 31st. It began as snow but changed to rain during the day on the 29th south of a line from just north of the Twin Cities and changed to freezing rain and sleet on a 40 mile wide band north of the rain areas; and to the north of the freezing rain and sleet area, heavy snows of 6 to 14 inches fell across the rest of the State. Strong north to northeast winds of 30 to 40 m.p.h. beginning Saturday, the 30th, and continuing into the 31st caused blizzard conditions throughout a wide area from Fargo-Duluth-North Shore of Lake Superior. Throughout the blizzard area all land and air traffic virtually came to a standstill. Damages from the blizzard were very limited. Damages from the 40 mile wide ice storm from Morris-Appleton Area east northeast through St. Cloud and Pine City was one of the worst known to date through this area. Thousands of farms and homes across this entire ice storm area were without power and telephone service as the result of thousands of broken lines and/or broken poles. Many were without utilities from one to three days and a few nearly a week. Utility damages were estimated to be 1.5 million dollars.									
MISSISSIPPI									
Northern Third of State	10-11				0	0	?	?	Sleet, Ice Storm
Light freezing rain and sleet moved into northwestern Mississippi Sunday night (10th) and by 9:00 p.m., freezing rain was reported in northern counties and roads were hazardous in Alcorn County. By midnight, there was light sleet and roads icing over in the New Albany area. On Monday morning, driving conditions became very hazardous over the northern third of the State. By 4:00 a.m., freezing rain and sleet was reported as far south as Greenville. Icy conditions forced a number of schools to close, mostly those with students travelling long distances. County officials closed schools in Coahoma, Quitman, and DeSoto counties. The Alcorn County Sheriff's office said there had been only scattered reports of ice on bridges. The Corinth Police Department reported bridges and overpasses extremely dangerous. The Alcorn County school officials said that schools in the county would be dismissed early (11th) and closed the 12th.									
State	11-12								Fog
Widespread fog over most sections of the State night of 11th and a widespread blanket of fog morning of 12th. Laurel newspaper headlined, "Thick, soupy fog hampers driving." Brandon newspaper mentioned, "... dense fog had slowed the traffic pace down considerably."									
North Mississippi	14				0	0	0	0	Wet Spells
Newspaper noted that weather conditions pushed a considerable number of ducks into the State the past week. It headlined "Wet weather in State makes good duck hunting." Waterfowl numbers have increased on most of the reservoirs in north Mississippi. Fair numbers of mallards are moving from the Mississippi River to flooded bean fields and flooded timber lands in the Delta.									
East, Central and Northeast Mississippi	14-15				0	0	?	?	Heavy Rain
There were heavy rains and flash flooding in east, central and northeast Mississippi Thursday night (14th) and Friday. The Jackson Flood Disaster Control Center by 11:50 p.m. (14th) had reported flash flooding in sections of Jackson; Highway 80 and Gallatin Street flooded and cars reported stalled. By 1:00 a.m. (15th), the moderate to heavy rains were still occurring in Jackson and considerable flash flooding was reported in sections of town. After the rains ended early in the morning, the flash flood waters began receding rapidly.									
Rankin County	17	8:50 a.							High Pressure
Jackson WFO reported its highest sea-level pressure of record 30.89 inches. The previous record was 30.78 inches on January 16, 1972 and January 10, 1962.									
State	19-20								Fog
Dense fog formed during the night over most of the State and motorists were urged to exercise caution during early morning hours.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1972

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
MISSISSIPPI (continued)											
Anite County	20	4:45 p.m. 4:50 p.m.	Under 1 1/4	Up To 100	0	0	3	0			Tornado
<p>At about 4:45 p.m. at 12 W of Magnolia in Glading community, Clarence Honea and his son, Charles, were milking cows in barn. Charles stated, "When I went to open the door to let the cows out, I heard a roaring and saw a funnel cloud about a quarter mile to the southwest in the pastures. But it wasn't black, it looked foggy white; it was touching the ground and spinning clock-wise. I called my father and then I ran to get my sisters." Clarence Honea said, "I saw it on the ground and it was turning to the right. It was pitch black then and I could see things turning inside of it. The clouds were feeding into it and it was coming across the field and passed to the side of my barn and went northeast towards Lestie Honea's place. About 1/4 mile away, Lestie Honea said, "I saw these extremely dark clouds in southwest; one had two downward projections on the outer edge. The middle began to feed down to the ground, then suck up again. Then it began to take funnel shape. It was spinning and traveling from the southwest towards the northeast. I started to get the children in the house and then I heard a roaring sound overhead and the house became an extreme vacuum, like all the air being sucked out." He stated the "length was about 300 yards and the width about 100 yards and the major damage was about 200 feet wide." Damages included: roof of barns, awning on trailer house door, two water pump houses destroyed (\$300-\$500), and utility shed moved several feet with structure damage (\$800-\$900). Lestie Honea said, "It all lasted about five minutes and then it was gone." At the James Cook's farm, about 1/3 mile away, Mrs. Cook said, "It was about ten to five when I heard a roar, I got up and looked toward Lestie's place and I could see the black smoke funnel like cloud coming from the southwest. It was so close it looked like I could touch it. The tornado started picking up leaves and limbs, then it picked up a stack of tin just like a whirlwind - spinning it all around. (Some of the tin was later found back at Lestie Honea's farm). It took the roof off our dairy barn about 30 feet from our house and popped out a window. Then it took the roof off our hay barn about 200 feet from our house. After it passed, there was a still and quietness. It was over an hour before it started to rain." Mr. Cook stated, "The main impact was in the clearing about 300 yards from our house. There it was about 100 feet wide. This was the last sign of circular movement because a quarter of mile towards the northeast - where the timber line starts - the trees were all blown towards the northeast and at our place everything was in every direction." He estimated his damages at about \$2,000. No deaths or injuries were reported.</p>											
Southern Mississippi	20-21				0	0	?	0			Heavy Rain
<p>On 20th, thunderstorms spread and ended on 21st. Most stations measured their greatest one-day rain amounts for December 1972. Many locations reported these were greater one-day amounts than what had fallen in any month in last 3 to over 10 years. Most of the streams and tributaries ran bankful and some lowland flooding occurred. ADAMS COUNTY: One bridge fell over, two bridges sunk in rain softened ground, and numerous landslides. Various fallen trees and at least one road closed. HARRISON COUNTY: Newspaper noted, "Rainfall totaling as much as five inches in some parts of Harrison County Wednesday (20th) caused flooding Thursday that resulted in evacuation of a few families and heavy damage to some country roads." Several roads were closed. The county's northwestern section was the hardest hit; most of the damage was in Beat 5, whose supervisor said there would be thousands of dollars in losses to clay gravel on unpaved roads, and culverts and bridge bulkheads "blown out" by rushing water. Shorecrest road had several complete washouts. JONES COUNTY: A new December (69 year) one-day precipitation record established at Laurel with 5.48 inches of rain. This is December's heaviest one-day amount for any station in the Southeast Division back to 1961. MARTON COUNTY: A new December (1905-1972) one-day precipitation record established at Columbia with 4.55 inches of rain. PIKE COUNTY: Damage consisted largely of water over roads and a portion of the road from Pisgah Church to Highway 98 washed out.</p>											
Warren County	30-31										River Stage
<p>Mississippi River stage at Vicksburg went up to 38.6 feet. When older stage records were adjusted to present gage location, that was the highest December river stage. There was some lowland flooding in the Long Lake community just north of Vicksburg.</p>											
Southwest Division	30	Afternoon									Heavy Rain
<p>Some flash flooding reported on Gallatin and Fortification streets, Jackson (Hinds County) and on highways in Jefferson County.</p>											
State	Mid-October - December				0	0	0	8			Wet Spells
<p>The Mississippi Commissioner of Agriculture, Jim Buck Ross, said, "The unprecedented degree and length of unfavorable weather may well have cost Mississippi farmers close to \$200 million dollars."</p>											
Coahoma County	Nov. - Dec.				0	0	5	0			Heavy Rain
<p>Clarksdale Mayor and Director of Public works indicated excessive rains during November and December caused damage to Clarksdale streets and sewers estimated at more than \$50,000. Pot-holes and cave-ins are the main problems in the paving. Very few of the 75 miles of city maintained streets have escaped some rain damage due to underground washouts and soil shifts. Total rainfall was 17.62 inches.</p>											
MISSOURI											
Southwest Missouri	5				0	?	5				Ice Storm
<p>A fine mist left a thin coating of ice on all surfaces in Southwest Missouri. Hardest hit was Jasper County where more than 20 persons were injured in Joplin in a rash of traffic and pedestrian accidents.</p>											
Entire State	11-12				0	?	6	5			Ice Storm
<p>A mixture of freezing rain, sleet and snow paralyzed the entire state. This was the worst ice storm since 1949 at many locations in southwestern and central Missouri. Ice accumulation ranged from very thin in the Bootheel to over 2 inches in some Central Missouri locations. Whole towns lost electrical and telephone services in southwestern Missouri. Considerable damage to utilities was reported in many areas of the Ozarks and Missouri River Valley.</p>											
Joplin, Jasper County	29	11:30 p						4			Thunderstorm Winds
<p>Strong thunderstorm winds blew out the front windows and a portion of the back wall in a large shopping center in Joplin. Minor wind damage was also reported in other parts of Joplin. Two mobile homes were blown off their foundations northwest of Joplin. This storm was apparently associated with the parent storm that spawned the tornado which occurred near Miami, Oklahoma earlier in the evening.</p>											
Avenue City, 3 N, Andrews County	30	1:30 a	2	50				4			Tornado
<p>A small but damaging tornado touched down three miles north of Avenue City on Route D and moved in a northeasterly direction for about two miles. It damaged a garage, and outbuildings on three farms.</p>											
Ridgeley, Barry County	30	12:15 a	4.5	220				2	4		Tornado
<p>A tornado first touched down 3 miles southwest of Ridgeley (which is 10 miles west of Cassville) in western Barry County. It hit the small town after crossing the open fields, and damaged or destroyed three mobile homes, a concrete block store and a number of sheds and barns. It also tore a large hole in an old converted school house. The tornado apparently lifted just northeast of the town.</p>											
MONTANA											
Big Timber-Livingston	Afternoon & Evening							3	0		Strong winds
<p>Gusty winds blew over mobile home on Interstate 90 just East of Big Timber and did other minor damage in the area.</p>											
Flathead County	1	Evening						4	0		Strong winds
<p>Wind gusts to 62 MPH damaged mobile home due to a falling tree, blew down a brick and concrete wall under construction and other minor damage.</p>											
Chouteau County	13	4:00 AM			1	0					Cold
<p>Woman froze to death 5 miles East of Chouteau after her car stalled on county road.</p>											
Eastern Montana	26	Morning & Afternoon						3	0		Strong winds
<p>Gusty winds of over 60 MPH caused extensive minor damage to trees and power poles over a wide area. Downed power poles caused a 40 acre grass and stubble fire near Denton.</p>											
NEBRASKA											
6 1/2 miles Northwest of Anselmo, Custer Co.	9	Evening			1	0	4	0			Snow
<p>Traffic fatality occurred when a pickup truck attempted to pass another vehicle and crashed head-on into a truck traveling in the opposite direction. The driver of the pickup was killed instantly. The accident occurred during a period of poor visibility caused by falling snow.</p>											
Southeast Half of Nebraska	11-PM, 11th 12 AM & FM 12th				1	?	?	?			Snow Storm
<p>Heavy snow began falling during the evening hours of the 11th. The storm ended in the Southwest around noon on the 12th and in the East that afternoon.</p>											
<p>Eight or more inches of snow fell along and 10-30 miles either side of a line which ran through Benkelman, Burtis, Elm Creek, Ashton, Albion, West Point, and Walhalla; Medicine Creek Dam reported 12 inches. To the southeast of the heavy snow band, four to seven-inch accumulations were the rule.</p>											
<p>Winds under 15 MPH and temperatures in the teens and 20s were reported during the storm. Temperatures fell below zero on the night after the storm.</p>											
<p>Travel and other normal activities were curtailed briefly or impeded by the storm. A storm-related traffic mishap near Giltner on the evening of the 11th was responsible for one death.</p>											
<p>The many-times delayed fall harvest (see November 1972 edition of Storm Data) was dealt another setback by the storm and the severe cold which preceded and followed it. Most grain drying facilities were shut down in early December, due to a lack of propane.</p>											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1972

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
Most of State	29-30	All day 29th; all day 30th			0	?	?	?	Snow storm, light, ping, heavy rain, high winds
									Heavy snow began in the Panhandle and Southwest on the forenoon of the 29th. The snow moved east-northeastward, reaching the Northeast late that evening. Snowfall lasted 18-30 hours in most areas.
									Sleet and locally heavy rain preceded the snow in the East; flooding occurred at a construction site on US 73-75 near Bellevue. Scattered thunderstorms occurred in the East the evening of the 29th; lightning bolts struck the homes in Falls City, causing minor damage.
									Snow accumulated to depths of 10-12 inches in portions of the following counties: Boone, Buffalo, Butler, Franklin, Hall, Howard, Madison, Merrick, Platte, Polk, and Stanton. In addition, eight inches or more of snow fell in a 20-mile wide band extending from Hay Springs to Theadford. Five inches was the average accumulation outside the two heavy snow areas. Little or no snow fell in the southwest corner or the extreme Southeast.
									Temperatures were in the 20s and low 30s and wind velocities high during the storm. In the Central, North Central, and Northeast, 30-50 MPH northwest winds caused near-blizzard conditions; Norfolk clocked gusts to 67 MPH at 8:25 AM on the 30th.
									The storm caused cancellation of church services and halted most forms of travel. Most normal activities were interrupted 24-48 hours in the areas struck by heavy snow.
Reno	3-4	a.m.-p.m.			0	0	5	0	Snowstorm
									Rain initially began on the night of the 3rd and changed to snow by the morning of the 4th contributed to 126 traffic accidents in Reno. Icy road conditions under the snow was deceptive in the season's first major snowstorm. Approximately 5-6 inches fell by the end of the 4th. Temperature dipped to a -12 degrees, which was the lowest temperature recorded in December since 1888. However, a minus 16 was subsequently recorded on the 9th.
State	1				0	0	4	0	Snow, glaze, wind
									Snow continued from November 30th to become a major early-winter snowstorm with totals generally 7 to 14 inches in the west and north, tapering to less along the coast. Precipitation became mixed with or changed to freezing rain in much of the southeastern portion, with very hazardous road conditions. Strong wind combined with the load of snow and ice on trees to break limbs and cause local damage.
South and east	4-5				0	0	3	0	Glaze
									Storm began as snow but changed to freezing rain to coat trees and roads. Falling limbs caused local damage. Highway accidents numerous in the southeast.
Southeastern	8-9				0	0	0	0	Glaze
									Freezing rain made roads very hazardous, with many accidents. In the Nashua area 11 accidents were reported despite continual sanding operations.
Southeastern	12-13				0	0	4	0	Glaze, wind
									Widespread freezing rain caused extremely hazardous travel conditions. Accidents were numerous. Many schools were closed in the Greater Nashua area. Scattered damage from wind on 13th.
State	15-17				0	0	5	0	"Northeaster," snow, wind, glaze, blizzard.
									A deep low pressure center passed at sea on December 15-16 and northeastward into the Gulf of St. Lawrence by the 17th. Strong northeasterly winds backed to northwesterly with the storm passage and continued with damaging gusts into the 17th. Wind and high surf battered the coastline and felled limbs inland. Utility lines and other property damaged. On the 15-16th the storm brought snowfall of mostly 6 to 12 inches with considerable drifting, especially in the north. Travel became very difficult and many accidents occurred. Falling temperatures, high winds and blowing snow brought blizzard conditions to some areas, especially at higher elevations, at times on the 16th and 17th. Some glazing in south.
State	21-22				0	0	0	0	Glaze
									Freezing rain caused very slippery conditions in many areas, especially in the southeast. Some school sessions and other activities were cancelled.
State	25-26				0	0	0	0	Glaze
									Freezing rain caused very slippery conditions in various sections. A multiple car accident occurred on I-93 in Canterbury on icy pavement.
State	30-31				0	0	5	0	Glaze, snow
									Up to over one foot of snowfall in the north but changing to freezing rain in central and south with severe ice storm in southern portion, with ice accumulations up to 1/2 inch or more. Travel very difficult and delayed, with many pre-holiday activities cancelled. Many skiing accidents. Much damage to trees from weight of ice, with falling limbs causing utility failures and other property damage.
State	Month								Glaze
									Glazing from freezing rain or drizzle was exceptionally frequent and persistent this month, with some local occurrences not listed above. Glaze was reported from some stations on 11 or more days with icing on the Mt. Washington summit on all 31 days.
Coastal area of State	15-17				0	0	4	0	Wind, high tides.
									A major storm from the 15th through the 17th caused some damage due to flooding at times of high tides. A steel CATV tower was blown down on the 16th and caused damage to a vacant house, in the Atlantic City area.
Southern Coastal area	21-24				0	0	4	0	High tides and flooding
									Five successive flood tides during the period from the 21st through the 24th in the coastal sections from Manasquan to Cape May caused the worst flooding since March 1962 in much of Cape May County. West Wildwood was the hardest hit during this tidal storm flooding.
Statewide	5	Daytime			0	4	5	0	Strong winds
									Local gusty winds in western New Mexico in the morning, and strong winds, with gusts to 91 m.p.h. at White Sands Missile Range, in southeastern New Mexico in the afternoon. Three occupants of a mobile home were injured when it flipped upside down at Portales, and one workman was injured by a blowing metal awning at Lovington. Widespread minor damage occurred to buildings, signs, vehicles, trees, and utility poles and lines. Greatest property damage was at White Sands Missile Range with major roof damage to 3 buildings, minor roof damage to 15 other buildings, and broken windows in more than 20 homes. Thousands of acres of harvest-ready wilo was downed in Roosevelt County, and much cotton was dirtied and blown in Eddy and Lea Counties. Some gusts reported were: 55 m.p.h. at Truth or Consequences; 52, at Gallup; 65, at Portales; more than 50, at Artesia; and 58, at Roswell.
Hudson Valley	4-5	p.m. to a.m.							Freezing rain, snow
									Freezing rain during afternoon hours of 4th caused severe icing of highways, sidewalks and other surfaces in lower Hudson Valley from Ulster and Dutchess to Rockland and Westchester Counties. Highways very slippery and numerous auto accidents occurred. While walking on edge of highway, man killed by skidding tractor-trailer in Town of Walkill; many motorists injured in other skidding accidents. Evening meetings and other events cancelled on 4th and most schools closed on 5th in affected counties. Freezing rain occurred in northern portion of Valley, but precipitation mostly in form of snow. Snow yields of 5 to 10 inches from Albany to Glens Falls resulted in very poor highway conditions and closure of schools.
State	6-7						4		Rain, wind
									Well-developed storm system approaching State from west early on 6th caused a variety of weather effects. Warm air ahead of storm center raised temperatures to 50s and liquidated most of a 3-to 6-inch snow cover in southern upstate and St. Lawrence and Champlain Valleys. Precipitation of .5 to 1.0 inch added to snow melt caused rapid rise of streams. Many creeks and streams in Southern Plateau near bank fail and some minor flooding of low lying areas reported along Allegany and Susquehanna Rivers on 7th. Extensive flooding of streets reported in Buffalo and Jamestown and some schools were closed in western Counties due to flooding of rural roads. Most of property damage due to high winds of up to 35 miles per hour. Widespread power failures from fallen limbs and broken wires occurred in greater Syracuse area, parts of Delaware County and in Malone area of northern New York. Near Stamford, Delaware County, winds damaged mobile home.
Western Counties, St. Lawrence and Champlain Valleys	12-13	late p.m. to late a.m.					5		Wind, freezing rain
									Winds of 30 to 40 mph. and gusts to 55 mph. buffeted areas near Great Lakes and northeastward to St. Lawrence Valley and Lake Champlain. Shipping activities hampered in Buffalo harbor, boat docks and marina facilities damaged in Dunkirk area and flooding of lakeside highways in Grand Island-Niagara Falls area due to winds and high water along Lake Erie. Frame house under construction bent by winds at Canadawaga, small plane overturned at Rochester airport and large sheet of metal siding torn off storage tank at Syracuse and blown onto expressway. Winds lifted 60-foot mobile home off foundation and shattered structures upon ground impact at Rouses Point, Clinton County. Freezing rain glazed highways in Jefferson, St. Lawrence and northern Franklin Counties, forcing widespread school closure due to very hazardous driving conditions. Temperatures warmed to mid 50s extreme western New York during night of 12-13th.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1972

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEW YORK (continued)									
State	15-16						4		Snow, wind, rain
	<p>General winter storm affected interior upstate with moderately heavy snowfall and coastal area with a mixture of sleet and rain. All sections experienced winds averaging 20 to 30 mph. and gusts of 40 to 50 mph. Heaviest snowfall in southwestern tier counties with depths of 10 to 18 inches and locally up to 24 inches. Elsewhere snowfall of 8 to 12 inches was general from Lake Ontario plain eastward to upper Hudson Valley and through northern New York but decreased to about 6 inches in the southeastern highlands and to 3 inches or less in lower third of Hudson Valley. High winds caused severe drifting and very hazardous travel conditions in southwestern tier. Blowing snow, poor visibility and slippery road conditions hampered traffic on N. Y. Thruway from Amsterdam to western terminus as well as on Interstate 81 and tributary highways from Binghamton to St. Lawrence Valley. Poor driving conditions resulted in multiple-car accidents in Cortland and Broome Counties. Wind-driven waves and high water caused considerable property damage along Lake Erie shores. Traces of snow, changing to ice pellets and finally rain affected Long Island and New York City along with winds gusting to 50 mph. Liquid precipitation totaled 0.6 to 0.8 inch in coastal sections.</p>								
NORTH CAROLINA									
Dare County	6	1:00 p.					3	0	Wind
	<p>Winds near 40 m.p.h. with gusts near 60 m.p.h. reported on Outer Banks. Light damage to boats and a few roof shingles loosened.</p>								
Union County	14	3:00 a.					4	0	Electrical
	<p>Lightning struck and burned a home in Marshville.</p>								
Piedmont Area	15						4	0	Rain
	<p>Heavy rains caused overtaxed storm drains and flash flooding of streams, with some subsequent flooding of main rivers. Water entered basements and low-lying ground floors several areas. Parks and low streets under water several towns; traffic interrupted, cars "drowned out". Weather was a contributing factor to many auto accidents; one man killed when car overturned.</p>								
Buncombe County	15-16	10 p. - 8 a.					4	0	Wind
	<p>Strong gusty winds Asheville area blew down trees and limbs, breaking power lines and plate glass. Cement block wall fell on two autos.</p>								
Statewide	<p>General wet weather during December caused an undetermined amount of damage to cotton and soybean crops, largely due to delay in harvesting. Losses may run to about ten percent of the total crop.</p>								
NORTH DAKOTA									
Statewide	29-31				0	0	?	0	Heavy snow, blizzard
	<p>A large low pressure system moving across the area south of the State brought heavy snow on the 29-30th and blizzard conditions to the eastern half of the State on the 30th-31st. Snowfall was 3 to 12 inches, heaviest in the east. Strong winds up to 40 mph and blowing and drifting snow reduced visibility to near zero at times. Most traffic came to a halt, cars were stalled in streets and left in ditches along highways, and many social events and church services were cancelled.</p>								
OHIO									
Northeastern Ohio	16	Morning-evening			0	?	5	4	Blizzard
	<p>Strong winds, snow, and cold temperatures combined to cause weather conditions that met the criteria for a blizzard. At Cleveland Hopkins Airport wind speeds of 35 m.p.h. were recorded while wind speeds of 58 m.p.h. were reported from Burke Lakefront Airport. Visibilities were greatly restricted due to the high winds and snow. Temperatures ranged from near zero to the teens. Air operations at Cleveland Hopkins Airport were restricted and many aircraft were rerouted to other airports. A weather observer in Kirtland Hills (Lake County) reported 28 inches of snow. Most amounts were between 7 and 15 inches. Snow drifts 6 to 8 feet high were reported from Geauga County. Two people died as a result of shoveling snow. Two others were killed in an auto accident. A portion of the remaining unharvested crops were damaged by the blizzard. Wind driven waves near Conneaut caused damage to dock and shore facilities.</p>								
OKLAHOMA									
Entire State	10-12				0	?	?	?	Glaze, Snow
	<p>A severe ice storm spread over all sections of the State closing a large number of schools, interrupting some utility service, and causing very hazardous driving conditions. Several minor injuries were reported due to falls on the ice and in a large number of mostly minor traffic accidents. Snow fell in the northwest part of the State. A thaw began on the 12th.</p>								
Northwest Half of State	14				0	0	0	0	Snow
	<p>From 1 to 6 inches of snow fell causing hazardous driving and closing some schools. No property damage was reported.</p>								

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (continued)									
Noble County	29	6:00p.-7:30p.	30	*10	0	0	6	0	Hail, Rain, Wind
	<p>A hailstorm with stones up to 3 inches in diameter reported to have damaged homes, business houses and automobiles. Most of the damage was caused by the hail and a large percent of it was at Perry. The Red Rock area received 3 to 4 inches of rain, and in the Lucien area up to 6 inches was reported. Winds were 35 to 40 m.p.h. but caused no reported damage.</p>								
Lawton area, Comanche County	29	6:30p.			0	0	?	0	Wind, Hail
	<p>Winds estimated at 50 to 60 m.p.h. caused a large number of minor damage reports. Hailstones up to 1 1/2 inches in diameter were reported but caused no damage.</p>								
10 SW Purcell, McClain County to 4 ESE of Lexington, Cleveland County	29	8:15p.	15	40	0	0	4	0	Tornado
	<p>The first damage was 10 miles southwest of Purcell where a barn and other outbuildings were damaged. To the northeast a farm home received some roof damage, a garage was demolished, a boat was blown away and a metal barn destroyed. The home had a 2 x 4 driven through one wall. Farther to the northeast another farmstead was damaged. There another 2 x 4 was driven through a wall and into a chest of drawers in a bedroom. The wall was a south wall. At a farmstead southeast of Lexington, all windows in the home were blown out. A trailer house was demolished with pieces found several hundred yards away.</p>								
Madill and Lake Texoma area, Marshall County	29	About 9:00p.			0	0	5	0	Wind
	<p>Strong straight winds, possibly associated with a funnel aloft caused considerable property damage. Most of the damage was to three trailer homes in Madill and to several marinas on Lake Texoma. Several expensive boats were damaged at the marinas.</p>								
3 E Stillwater, Payne County	29	About 9:00p.			0	0	4	0	Wind, Hail
	<p>Winds estimated at 70 to 90 m.p.h. damaged 10 trailer homes at a trailer park. Small hail was also reported.</p>								
Warner area, Muskogee County	29	10:32p.			0	0	4	0	Wind
	<p>Strong wind caused approximately \$50,000 property damage in the area. Most of it was at the Warner elementary school which was unroofed.</p>								
Mayes, Craig, Delaware and Ottawa Counties	29	11:15p.	30	30	0	0	5	0	Tornado
	<p>The tornado first struck 2 miles south of Ketchum in Mayes County and moved northeast to 9 miles east of Miami, although it was on the ground only about 20 percent of the time. Civil Defense surveyed the path by plane and said it took the tops out of trees as it crossed several creek areas. One home south of Ketchum had the entire front portion ripped off. Two persons in the home were unhurt. A pickup truck was picked up and turned around headed in the opposite direction.</p>								
OREGON									
Entire State	4-16	All days			2	0	?	?	Cold spell, snow, wind
	<p>The influx of cold Arctic air accompanied by several storm systems during the period provided the State with a wide variety of wintry weather which set many new cold records and was generally the most severe for so early in the season. The near blizzard storm arrival at Portland began early afternoon on the 4th with snow accumulation glazing streets and highways nearly Statewide. Gusty east winds for 12 hours at Portland NSFO had a fastest-mile of 42 m.p.h. at 10:28 p.m. on the 4th with gusts of 53-58 m.p.h. several times until midnight. Portland KATU-TV had maximum gusts of 55 m.p.h. at 7:58 p.m. and 10:58 p.m. with Morrison Bridge reporting gusts up to 40 m.p.h. at 11:30 p.m. Evening traffic was snarled in the entire Willamette Valley with hundreds of cars and trucks skidding into roadside ditches, thousands of vehicles abandoned, and most bus commuters requiring 2-5 hours to reach home. Snow cover statewide varied 4-8 inches with a record 11-inch depth received at Newport. A near repeat of these hazardous road snow conditions occurred again on the evening of the 11th, followed by several days of light snow and freezing rain until the 16th. The freezing rain glazed Willamette Valley highways on the 15th and 16th and contributed to many motor vehicle accidents. Intense cold accompanied this storm series keeping temperatures below freezing for 10-14 consecutive days in the eastern two-thirds of Oregon while western valleys had 5-10 such days and the coastal areas had 1-7 such days north of Port Orford. This 10-day period in the northern half of the Willamette Valley provided Portland its second longest cold spell dating back to 1890 and has been exceeded only by 19 such days in January 1930. New record low temperatures for December were set for all but a few stations in the State and occurred mostly on the morning of the 8th and 9th. New records along the coast ranged from 17° at Newport to 17° at Gold Beach. Frozen water pipes damaged many coastal summer homes and municipal water supplies ran low. Western valley records ranged from 5° at Clatskanie to -12° for new all-time record lows for Eugene, Salem, and Vernonia with Willamette Valley fruit and nut trees, ornamental shrubs, some cane berries and nursery stock suffering varied damage. Closure of schools varied from 1-3 days. Natural gas supplies were curtailed in southwestern Oregon from a frozen pumping station at Albany and some 44 industrial gas users were cut off several days to protect reserves for home users and commercial customers. Electrical power</p>								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1972

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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									Rapid warming raised the freezing level to 8,000 feet across western Oregon as a series of 4 storms with high winds provided the area with heavy rains during these 9 days just prior to Christmas. These storms totaled 8-13 inches along the immediate coast and in the Northern Cascades with 18-22 inches at the mid and upper levels of the Coast Range. Most intense rains fell on the 20th and 21st when a 24-hour total of 5.60 inches fell at Laurel Mountain, 5.52 inches at Nehalem 9 NE, 5.45 inches at Port Orford S E, 5.05 inches at Walsetz, 4.96 inches at Tillamook 13 ENE, 4.46 inches at Otis 2 NE and 3.76 inches at Government Camp. Flooding north coastal streams and tidal estuaries required evacuation of a dozen families from lowlands in Tillamook County. Storm surge resulted from high tides and southerly gale force winds on six different days. Flood damage was estimated to be near \$1 million in Tillamook County with heaviest damage in the Nehalem and Rockaway areas. Several small mudslides occurred on the coast and several Siletz Bay homes were threatened by erosion on the Salishan spit. Coastal stations show the following high wind conditions near 50 m.p.h. and above:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Strong winds of over 40 MPH accompanied the snow causing drifting and blowing snow and occasionally reducing visibility to zero. Some of the roads were blocked. The worst conditions occurred on the 30th when the highway department advised no traveling.	TENNESSEE										West Tennessee	7-12				0	0	5	6	Heavy rains and flooding										Moderate to severe flooding occurred on two separate periods from heavy rains during the month. The first flood period began on December 7 in the Obion and Farkid Deer River basins and other small basins in the Northwest. The most severe floods occurred in the Obion River basin during the second period which began December 10, when the area again experienced widespread flooding of farmlands. Many families were evacuated, some via boats and extensive damage was done to fall crops. Local runoff flooded streets and highways, as much as five feet deep on December 12. Agricultural Officials estimated loss of unharvested soybeans and cotton crop at between \$3 and \$4 million.	Montgomery, Cheatham, Davidson, Willamson counties	9-11				0	0	50	0	Heavy rains and flooding										Heavy rains from the 8th through 10th caused general rises in rivers. Most flooding confined to lowlands near streams; major flooding in Harpeth and Red River basins. Damage was primarily to crops and agricultural land, with damage estimated at \$60,000 to crops and farm equipment. Rivers crested on or before the 11th.
Date	Station	Fastest Mile		Peak Gust																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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16	Pacific City WSO			5:30a.	SE 46 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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17	Newport USCG	7:00a.	SSW 52-58 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
18	Pacific City WSO	All day	SE 35-45 m.p.h.	Noon	SE 69 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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	Winchester Bay USCG	1:00p.	S 35 m.p.h.	1:00p.	S 52 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
20	Newport OSU	1:37p.	SSW 49 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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21	Newport USCG	4:00a.	S 47 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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	North Bend FSS	10:00a.	S 46 m.p.h.	10:00a.	S 59 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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	(one hour average of 49 m.p.h. from SSW for hour ending 6:00a.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	Winchester Bay USCG	10:00a.	S 35 m.p.h.	10:00a.	S 52 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	Newport USCG			4:00a.	S 58-69 "																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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23	Newport OSU	10:58a.	SSW 50 m.p.h.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Northern half coastal area	26-27	All day			0	0	4	0	Rain and wind																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									Two storms passing through the area in as many days furnished 4-7 inches of rain and high winds. Wind toppled a huge gantry crane being used for the Kernville bridge construction project at Siletz Bay. The Newport OSU station on the 26th recorded fastest mile of wind from the SSW at 45 m.p.h. at 5:27 p.m. while the U.S. Coast Guard station in Newport reported southerly wind gusting 46-52 m.p.h. at 7:00 p.m. The Newport USCG station also reported southerly wind gusts of 46-52 m.p.h. at 4:00 a.m. on the 27th																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Palau Islands, Trust Territory	1-2				0	0	0	?	Tropical Storm THERESA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									Developing tropical depression moved westward over Palau Islands, but only banana plants and trees damaged. At Koror, lowest sea-level pressure 29.41 inches; maximum sustained wind, North 50 m.p.h.; peak gust NNE 62 m.p.h. on 2nd. (169 people killed, 6 missing, 4,200 homeless and 500 homes destroyed when storm struck northeastern Mindanao Island, Philippines, on 3rd.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Marshall Islands, Trust Territory	11-17				0	0	?	?	Tropical Storm VIOLET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									Weak storm developed south of Majuro and moved northward to south of Wotje before turning southwestward south of Kwajalein and ending career. No damage at Majuro and Kwajalein. Malelapp reported damage to coconut, breadfruit, pandanus, papaya and banana trees and 13 houses. No report from Wotje. At Majuro, on 12th, sea-level pressure minimum 29.59 inches, and fastest mile East 38 m.p.h., greatest in December and equalled greatest in any month in 14 years of record. On 12th to 13th, greatest 24-hour rainfall of any month in 18 years of record, 17.88 inches. At Kwajalein, on 16th, sea-level pressure minimum 29.59 inches; on 16th to 17th, greatest 24-hour rainfall of any month in 12 years of record, 17.15 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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South Pacific Samoa Islands	31-Jan.				0	0	?	?	Tropical Cyclone ELENORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									After developing northwest of Samoa, ELENORE travelled southward west of islands and passed through Tonga Islands before ending career. Further details will appear in January 1973 issue of this publication.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Erie and McKean counties	15-16				0	0	5	0	Snow, wind																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									An estimated \$250,000 damage was caused at Presque Isle State Park. Blizzard conditions and the high water of Lake Erie weakened roads and one collapsed in several spots at Sunset Point. The road burn in that area was completely carried away. Many lakefront properties lost their beaches and trailers had as much as 3 feet of water in them. Five inches of snow fell on top of three inches already on the ground and made road conditions extremely hazardous throughout the counties. Many fender-bender accidents were reported. Kane, in McKean County, reported that high winds drifted roads shut as soon as they were plowed.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Franklin County	16				0	0	4	0	Wind, ice																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									The 60-foot high Franklin County Civil Defense antenna tower atop Clark's Knob, west of Upper Strasburg, was broken during a wind and ice storm and reported a complete loss. As it fell it tore down power lines.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Mainland	15-16	p.m. - p.m.			0	0	4	0	Snow, glaze																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									Coastal storm produced 1-5 inches of snow, turned to freezing rain and rain before ending in snow squalls. Numerous traffic accidents resulted.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Mainland	21-22	p.m. - a.m.			0	0	5	0	Glaze																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									Freezing rain caused power failures of up to 12 hours in scattered localities, was responsible for over 100 vehicular accidents and forced the closing of some schools and business establishments on the 22nd.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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The northern two-thirds of the state	14-17				0	0	4	4	Heavy rains, flooding																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									Several days of rain were followed by a twenty-four hour deluge of several inches on the 14th and 15th. Flooding occurred on nearly all rivers, streams and creeks beginning on the 15th in the north and continuing to the 17th at some inner coastal plain locations. The largest amounts of rain were in the mountains and northwest where many streams and rivers originate. Crop losses were confined mainly to small grains and unharvested soybeans. Also suffering damage were roads, boat docks, bridges and houses and business structures located in low places.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Most of State	29-30-31				0	0	0	0	Freezing rain, heavy snow and blizzard																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
									Rain changed to snow with a period of freezing rain before the snow in many areas of the state. Snowfall of 2 to 6 inches was common. Strong winds of over 40 MPH accompanied the snow causing drifting and blowing snow and occasionally reducing visibility to zero. Some of the roads were blocked. The worst conditions occurred on the 30th when the highway department advised no traveling.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1972

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
TENNESSEE (continued)									
East Tennessee	9-13				0	0	5	?	Heavy rains and flooding
		A number of roads near rivers and streams were underwater and many of them were closed to traffic, as rains caused rivers to spill their banks. In addition to losses resulting from flooded basements and buildings, considerable damage was done to a number of homes by high water. No deaths directly from storm but three persons drowned in flood waters. The storm total in Knoxville was almost six inches of rain with more than three inches falling on the 10th.							
TEXAS Sierra Blanca, Hudspeth County	5				0	0	4	0	Windstorm
		Strong winds of extratropical cyclone origin overturned and demolished two mobile homes at Sierra Blanca.							
El Paso and vicinity, El Paso County	5	10:00 a-4:00 p			0	0	5	0	Wind and duststorm
		Fierce winds of extratropical cyclone origin lashed the El Paso area and caused widespread, but mostly minor damage. Wind speeds of 59 miles per hour were recorded at El Paso International Airport, with stronger winds reported in other sections of the city. Wind gusts of 80 miles per hour were reported on Trans-Mountain Road. An entire wall of Dale's Mobile Chalets, Frankfort Avenue and Boone Street was blown down, demolishing a truck, a mobile home and a chainlink fence. A house at 3400 Harrison had its roof ripped off and scattered along side of it and down the street. Numerous signs were blown down, branches of trees broken off, and a few carpools were damaged or blown away. Wind blew off a portion of the roof of a business at 3841 N. Piedras. Tree limbs and other debris struck powerlines and caused outages. The worst outage was reported to be south of Interstate 10 and east of Chelsea along the 6000 block of Trowbridge. The wind blew from west to east.							
Entire State	10-11				0	0	5	?	Ice storm
		The high winds caused a severe duststorm which reduced the visibility to 1/8 mile. Winds of 88 miles-per-hour were reported on top of Mt. Franklin.							
		A gigantic, paralyzing ice storm moved over Northwest and North Central Texas early on the 10th, and continued southward, deep into Central and Southwest Texas during the day and night. By the morning of the 11th freezing rain caused extremely hazardous driving conditions north of a Del Rio to Austin to Texarkana line. The Dallas-Fort Worth area was the hardest hit. Automobile traffic was brought to a virtual standstill as far south as Kerr County, northwest of San Antonio. Freezing rain caused heavy ice accumulations in the Austin area which resulted in intermittent power failures in the capital city. On the southern High Plains, a mixture of snow, sleet, and freezing rain caused extremely hazardous driving conditions. Major highways in Dallas and Tarrant Counties were closed and officials asked motorists to stay off the Dallas-Fort Worth Turnpike. Ice on the runways delayed and cancelled most flights at Love Field in Dallas and at Austin. Universities in North Central and Central Texas, including Southern Methodist, Texas Christian, Baylor and North Texas State University closed down, as did the University of Texas at El Paso. So did most public and parochial schools in Central and North Central Texas.							
		Although traffic accidents were numerous, there were no known deaths or injuries directly attributed to the ice storm. Damage to utility lines, although widespread, was not thought to be heavy. The extent of livestock losses, mostly on the High Plains, attributable to this particular storm are not known.							
25 SE Encinal, Webb County	14	8:00 a-8:30 a	1	440	0	0	0	0	Hailstorm
		Hail up to one inch in diameter fell on the W. P. Lincoln Ranch, about 25 miles southeast of Encinal, but caused little or no damage. Hailstones averaged about one-quarter inch in diameter and covered the ground in places to a depth of six inches. The storm moved from northwest to southeast.							
Wichita Falls, Wichita County	29	6:30 p-6:34 p	?	?	0	0	0	0	Hailstorm
		Scattered hailstones, three-quarters inch in diameter, fell in parts of Wichita Falls. There was no known damage.							
Near Mansfield, Tarrant County	29	8:40 p	?	?	0	0	3	0	Windstorm, funnel aloft
		High thunderstorm winds destroyed a barn near Mansfield. One funnel cloud aloft was reported in the vicinity.							
UTAH North Central Utah	28-29	5 pm to 5 pm			0	0	5		Heavy snow and wind
		A heavy snowstorm accompanied by strong winds deposited a record breaking 18.1 inches of snow in 24 hours at the Salt Lake City Airport during the 24 hour period ending at 5 pm Dec 29th. The heavy snowfall was piled up by the wind on the roof of a new mall in Salt Lake county causing the collapse of a 50 foot section and causing structural damage along estimated in excess of a quarter of a million dollars. The storm closed the Salt Lake Airport for 20 hours and created havoc with traffic in the area for several days.							
VERMONT									
State	1				0	0	4	0	Snow, wind
		Snow continued from November 30th to become a major early-winter snowstorm with totals generally 8 to 16 inches except tapering to less in the northwest. Strong wind combined with the snow load to break tree limbs and cause local damage.							
State	12-13				0	0	4	0	Glaze, wind
		Freezing rain caused very hazardous roads in many areas, with numerous accidents. Wind caused scattered damage on 13th, including some utility failures in the Burlington area.							
State	15-17				0	0	4	0	Snow, wind, blizzard
		A deep low pressure center passed off the New England coast on December 15-16th and northeastward into the Gulf of St. Lawrence by the 17th. This brought snowfall of mostly 6 to 16 inches with considerable drifting. Travel became very difficult and many accidents occurred. An airplane was lost in the Burlington area. Falling temperatures, blowing snow and strong winds brought blizzard conditions to some areas, especially at higher elevations, at times on the 16th and 17th. Falling limbs caused utility failures and other property damage.							
State	21-22				0	0	0	0	Glaze
		Freezing rain caused slippery conditions in various areas.							
State	30-31				0	0	5	0	Snow, glaze
		Variable snowfall with local totals up to over one foot, with some freezing rain at times in north and west but predominantly a severe ice storm in the southeast. Travel became very difficult and delayed, with many pre-holiday activities cancelled. Many skidding accidents. Heavy ice accumulations injured many trees, especially maples. Falling limbs caused utility outages and other property damage.							
State	Month								Glaze
		Glazing from freezing precipitation was exceptionally frequent and persistent this month, with local occurrences not listed above. Glazing was reported at Burlington on 11 days.							
VIRGIN ISLANDS									
		NONE REPORTED							
VIRGINIA									
		NONE REPORTED							
WASHINGTON									
King & Snohomish Counties	1	6-10 AM					2	5	Wind
		Strong S to SW winds increased during early morning hours. Winds generally 15-25 m.p.h. over Puget Sound region with stronger gusts east side. Evergreen Point Floating Bridge on Lake Washington reported the strongest winds with gusts up to 65 mph, between 7-9 a.m., forcing the bridge to close for a short time. A sailboat capsized on Lake Washington but no injuries. Two duck hunters drowned in the waters of Port Susan, south of Stanwood. Some wind damage on structures in Seattle area noted.							
Skagit & Pierce Counties	5	Afternoon & night						5	Wind
		Local cold, dry, east winds during the afternoon and evening hours below the mountain passes west of Cascades. Katabatic winds downed powerlines and fanned a few grass fires. In Enumclaw area, wind gusts were estimated at over 60 m.p.h. as a few carpools and several fruit trees were blown down.							
Coastal Counties	5						?	?	Near blizzard
		Snow, accompanied by gusty winds, hit the coast with amounts 2-6 inches. Highway 101 was closed during afternoon between Raymond and Cosmopolis as several cars and trucks were stalled and in ditches. Pacific, Grays Harbor and West Jefferson Counties were hardest hit with near blizzard conditions as snow drifts up to four feet were reported in some areas. Temperatures were in the 20's.							
Statewide	4-15							6	c Cold, freeze, snow
		A severe arctic outbreak brought subfreezing temperatures over the entire State and some record low temperatures were set at several points. This cold temperature episode was one of the earliest, longest and severest in recent years. Seattle has no record of a longer freezing period in December since records began in 1893. Western Washington: Seattle and Olympia had 9 consecutive days with maximum temperatures 32° or lower. Olympia had a -3°F, a record for month. In Skagit county, less than the cabbage seed crop was estimated at 30%. Commercial carrot crop in Cowlitz County was a total loss. Some damage to berry canes in some areas. Low humidities and cold winds caused Christmas tree damage and needle drop in Skamania County. Stored canned and fresh fruits damage reported in Thurston County.							
		A snowstorm spread inland on 11th and 12th closing several highways and snarling traffic west of Cascades. Snowfall amounts were heaviest at Longview with 7 inches. Snow accumulation of 3 to 5 inches fell over much of Puget Sound region on 11th and paralyzed afternoon traffic in many cities. Homebound bound traffic was stalled for hours on many roads and highways.							
		Eastern Washington: Temperatures fell below zero in some areas on 8th and minimums continued below zero for many stations through 15th. A light snow on 11th and 12th eased danger of freeze to wheat, but spotty damage likely in areas exposed to wind chill and low temperatures.							
Klickitat, Yakima, Benton, Franklin, Walla Walla & Columbia Counties	16-17							2	Glaze
		Warmer temperatures were accompanied by freezing rain at Yakima, Kennewick, Pasco, Walla Walla and Dayton. Glaze contributed to numerous but mostly minor traffic accidents. 1/4-inch glaze reported on streets in Walla Walla on 17th.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1972

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED ¹ DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS		
WASHINGTON (continued) King, Skagit & Snohomish Counties	18-19	10P-3A				?	4				Wind	
											Strong S to SW winds lashed the east side of Puget Sound region. Winds were strongest at night. A few trees and powerlines reported downed in the three counties. In Seattle, high wind caused a 15-foot section of a parapet to fall from an apartment building at 2:25 a.m. A parked auto was damaged by falling bricks and debris. At Evergreen Point Floating Bridge, winds were up to 40-50 m.p.h. between 10 p.m. and 2 a.m. with gusts to 65 m.p.h.	
Western & Central	18-22					%		c			Local floods, mud slides, storm tide	
											High rivers and creeks draining west slopes of Cascades caused some lowland flooding. Sand and debris accumulated during freeze clogged drains in many areas. High tides along coast and in Puget Sound compounded the local flood problems. At Snohomish, Snohomish River was one foot above flood stage at 6 p.m. on 21st. Local flooding reported in most counties west of Cascades and in Yakima, Kittitas, Walla Walla and Whitman Counties. The worst local flooding occurred in Grays Harbor. On 21st, SW winds of 30-40 m.p.h. were reported along coast and a tide of 14.5 feet was measured at Aberdeen. On 22nd, 7 days of nearly continuous rains with a total of 6 inches at mouth of Chehalis River added to flood problem. In Aberdeen, a 30-foot section of the river dike broke while creeks overflowed their banks or backed up causing local flooding. Cosmopolis and neighboring south Aberdeen reported several blocks flooded with up to one foot of water in many homes. Businesses in Cosmopolis were also plagued by damage caused by waves from passing motorists. To the south at the mouth of the Hiliapa River, Raymond business section was inundated by one foot of water in lowland areas. Highway 101 between Raymond and Southbend was closed for a time. Some road damage was reported while flooded basements were reported in Southbend. Waves battered highway 101 between Fort Columbia and Astoria bridge. In Walla Walla County, mud slides closed seven county roads. Mud slides were particularly troublesome in Prescott and Touchet areas. A thaw in the top layer of wet ground with a deep frozen sublayer was the main problem.	
WASHINGTON (continued) Clallam, San Juan, Whatcom & Skagit Counties	24-25	Night						4			Wind	
											High winds were felt Christmas eve and Christmas day in Sequim and Concrete areas. Powerlines and trees downed in these areas. Bellingham Airport reported gusts to 47 m.p.h. on 24th. Higher gusts were reported in Edgemoor District of Bellingham. Cable failures reported in Whatcom County, along with many TV antennas blown down.	
Lowlands of Olympic Peninsula and Puget Sound; Lewis & Grays Harbor Counties	25-27							%	c		Local floods, mud slides	
											Local flooding and mud slides reported over most of the lowlands on Olympic Peninsula and along Puget Sound. At Snohomish on 26th at 10 p.m., Snohomish River was 2.5 feet over flood stage. Local flooding along most rivers. High tides added to local flood problems in Aberdeen and south of Stanwood at mouth of Stillaguamish River. Roads continued to show damage which could easily go over 3 million dollars in repair work over State. Rainfall totals up to 8 inches occurred on the NW Olympic Peninsula. Some 24-hour totals were: Quinalt 9.69 inches, a record for December; Quillayute 6.76; Bremerton 2.90; Nauna 2.68; Shelton 3.12; Baring 3.62; Aberdeen 2.25; Cedar Lake 2.65; Spruce 2.55; Aberdeen ZONNE on Wishkah River 6.63; Lake Sutherland 2.48; Port Angeles 1.38; Matlock 2.50 inches.	
WEST VIRGINIA											NONE REPORTED	
WISCONSIN								0	0	5	0	Ice Storm
Northern Counties	30											Many wires and trees down in north-central and north-eastern Wisconsin during an ice storm which followed heavy snow in the area.
WYOMING												NONE REPORTED

STORM DATA AND UNUSUAL WEATHER PHENOMENA

LATE REPORTS

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM		
					KILLED	INURED	PROPERTY	CROPS			
ARIZONA	May 1972										
DELAWARE	NONE REPORTED										
State	June 1972								Low temperatures		
State	11	Early Morning									
State	21-23				1	0	5	6	Rain, wind, flooding		
									<p>The day's minimum temperatures, mostly in the upper 30's to mid 40's were unusually low for so late in the spring season. It was the record date for the National Weather Service Station at the Greater Wilmington Airport.</p> <p>Tropical Storm Agnes brought heavy rain and strong, gusty winds along with flooding in low-lying areas and along streams and rivers. Most of the rainfall fell within a 24-hour period, beginning the evening of the 21st and ending the evening of the 22nd. Heaviest reported official storm total was 6.76 inches at Middletown followed by 6.21 inches at Yorklyn. The least was 1.62 inches recorded in the Lewes area. The greatest one-day rainfall was 6.08 inches, also at Middletown. The greatest one-day totals were all recorded on the 22nd. The maximum sustained wind was 40 knots recorded at both Indian River Inlet and Dover Air Force Base with a peak gust to 58 knots at Dover. According to the U.S. Geological Survey, the following were some of the record flows during Agnes:</p> <p>Brandywine Creek Peak stage of 15.49 feet on the 23rd, a new record.</p> <p>White Clay Creek Stage of 17.74 feet on 22nd with a record flow of 9,080 cfs.</p> <p>Blackbird Creek Record stream-flow.</p> <p>Actually, streams whose headwaters were in Pennsylvania had record flows during this period.</p> <p>A 29-year old city employee driving a road tractor was killed by a falling tree in Dover. A 75-year old woman died of an apparent heart attack after being evacuated from her home in the Wilmington area. Many toppled trees causing scattered damage were the result of a combination of wind and well-soaked soils. Power service was interrupted in scattered locations. More than 100 persons were temporarily evacuated from flooding waters of the Brandywine Creek in northeast Wilmington. Several roofs were reported collapsed because of the heavy rain. In New Castle County, damage was relatively minor, consisting of damage to roads, stalled cars and basements by flash flooding. In Kent and Sussex Counties, damage was mainly to agriculture. Tropical Storm Agnes was an additional adverse factor in a season plagued by delays in planting and the slow development of crops because of prolonged wet and cool weather.</p>		
INDIANA	June 1972										
Terre Haute	29	?			1	0	0	0	Lightning		
									Lightning struck and killed a man retrieving, from his lawn, an object which he did not want to get wet.		
KENTUCKY	August 1972										
State	22	A.M.			0	0	4	0	Lightning		
									There were widely scattered thundershowers over the State. Several of the damage reports follow. Near Neave, in Bracken County in the northeast, 17 head of cattle valued at more than \$5,000 were killed in the morning by lightning. In the Fordsville area of Ohio County in the west an early morning lightning strike was responsible for extensive damage to the kitchen of a house.		
Blue Grass	25	P.M.			0	0	4	0	Lightning, wind, rain		
									There were scattered thunderstorms in the area. In Oldham County about 2:30 p.m. EST fire apparently set by lightning destroyed a barn. About 4 p.m. EST in Bourbon County fire set by lightning destroyed a barn. About 6 p.m. EST, fire set by lightning destroyed a business office in Powell County. In Woodford County, Versailles area, in the afternoon heavy rain unofficially reported as about 4 inches caused flash flooding, with no significant damage; high winds were responsible for some minor damage.		
Nelson County	25	2:50 p.	1/4	?	0	0	4	0	Tornado		
									A storm touched down briefly in southern Nelson County 2 1/2 miles west of U.S. 31E on Nat Rogers Road. A witness heard a loud roar and saw a garage lift up and explode in the air. A mobile home about 3/4 mile away was blown off its concrete block foundation and wrecked. Razor blades were said to have been driven through the mobile home wall. Another mobile home parked behind the destroyed mobile home was unharmed.		
MARYLAND	June 1972										
Eastern half	4	Evening			0	0	3	0	Rain, lightning, flash flooding		
									Thunderstorms crossed area and were accompanied by locally intense rainfall and lightning. The Remitsburg official weather observer reported 2.89 inches in 75 minutes which caused flash flooding in the area. Lightning strikes caused minor damage in scattered areas. Some power failures were reported in Baltimore, Harford and Howard counties.		
MARYLAND (continued)											
State and District of Columbia except extreme west	21-23						19	57	8	6	Rain, wind, flooding
											<p>Tropical Storm Agnes will long be remembered for its torrential rain and devastating floods, especially in the northern portion, to areas in northern Eastern Shore, and to the District of Columbia. It has been responsible for more deaths and greater property damage in Maryland than any previous storm. Over 75 percent of the rain fell between the afternoon of the 21st and the morning of the 22nd. Totals, ten inches or more, fell in Montgomery, Frederick, Howard, Carroll, Baltimore, Harford and Kent Counties.</p> <p>Heaviest reported totals, 14 inches or more, occurred in Carroll and Baltimore Counties, specifically in the Westminster-Pratt Boy Dam area with the maximum, 14.68 inches at the Westminster State Police Station. Many greatest one-day records were set, not only for June but for all months. The maximum one-day total was 12.25 inches at the Pratt Boy Dam Station, Baltimore County. Daily totals over 11 inches rank among the greatest that have been officially recorded in Maryland.</p> <p>Storm related deaths included nineteen in Maryland and none in the District of Columbia. The American Red Cross reported 57 persons injured with six requiring hospitalization in Maryland; none were reported in the District of Columbia. Storm damage was estimated at \$80 million. The Red Cross also reported the following Maryland damage: 103 homes destroyed; 866 homes with major damage; 1064 homes with minor damage; 49 mobile homes destroyed; 44 mobile homes with major damage; 17 farm buildings destroyed; 44 farm buildings with major damage; and 82 small businesses destroyed. This listing does not include the tremendous damage to roads, bridges and other publicly operated systems, to large businesses and to industrial organizations. The following preliminary estimate provided by the Maryland State Highway Administration gives an indication of the extent of the damage to roads and bridges in Maryland:</p> <p>\$6,500,000 -- damage to state-operated</p> <p>\$25,085,000 -- damage to county-operated, including Baltimore City and other municipalities.</p> <p>There were many cases of interruptions to telephone and electric service especially in northern Maryland and northern Eastern Shore. The wind caused tree limbs to break off and knock down lines while water damaged underground cables. Many trees were toppled by a combination of strong winds and well-soaked soils. There were many automobiles and other vehicles destroyed or badly damaged in flooding waters.</p> <p>Preliminary reports from the U.S. Geological Survey indicated record-breaking floods, such as:</p> <p>Anacostia River both Northeast and Northwest Branches Surpassed that of the Hurricane of August 1933.</p> <p>Seneca River near Dawsonville Repeat of the floods of September 1971 but slightly higher.</p> <p>Patuxent River Basin While not as high as that of September 1971 in the headwaters, surpassed previous records downstream.</p> <p>Potomac River (Little Falls Pumping Station) Peak stage of 22.03 feet on June 24th. This flood was exceeded at the former station located one mile upstream in March 1936, June 1889 and October 1942.</p> <p>Susquehanna River All-time record at Conowingo</p> <p>U.S. Geological Survey also reported a record flow at 22 out of 27 gaging stations in north-central Maryland (extending from the Baltimore metropolitan area into Frederick County) during Tropical Storm Agnes.</p> <p>The highest recorded wind was from northwest, 55 knots at 02:12 EST on the 22nd at Kenton Marina which is located five miles south of the eastern end of the Chesapeake Bay Bridge. The lowest sea level pressure was 29.07 inches at Salisbury FAA Airport Station at 02:56--03:56 EST on the 22nd. Reports from tidal stations along the Chesapeake Bay and the Atlantic Ocean areas indicated no unusually high tides during the storm. These were mostly between 1.5 and 3 feet above normal.</p> <p>Tropical Storm Agnes, according to the Maryland-Delaware Crop Reporting Service, had an adverse effect on the agriculture of the two-state area. Flooding along the larger streams and rivers severely damaged or wiped out some crops. Erosion and gullying on slopes caused damage to some fields by parts of fields while silt deposits covered low areas. The storm was an additional setback to a crop season in which prospects had already been reduced by prolonged cool and wet weather.</p> <p>Among the many other areas and activities seriously affected by Agnes was the Chesapeake Bay where flooding streams and rivers dumped unprecedented amounts of trash, silt and other pollutants and greatly reduced its salinity. The shellfish and oyster industry sustained a tremendous loss through the destruction of vast numbers of shellfish and oysters by the Bay's lowered salinity.</p>

STORM DATA AND UNUSUAL WEATHER PHENOMENA

LATE REPORTS -Continued

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MARYLAND (continued)									
Baltimore	30	2:30 p.m.			1	0	0	0	Lightning
A 23-year old man was killed Friday after being struck by lightning while walking through Bay-Brook Park. A witness said that he flew through the air and seemed to explode. Police said his clothes were ripped off and some pieces of clothing were found about 80 feet away.									
MISSISSIPPI									
September 1972									
Mississippi Sound, Harrison County	5	3:15 p.-3:20 p.							Waterspout, Funnel Cloud Aloft
Blind police received several public reports of a funnel cloud. Blind police patrolman reported to sheriff's office that at Mississippi City there was a waterspout only, and it broke up as it reached the sand beach area. There was one funnel which remained aloft and the weather was cloudy and raining lightly.									
Adams County	19	3:14 p.							Funnel Cloud Aloft
In the south portion of Natchez (lat. 31.5° N, long. 91.4° W), a funnel cloud "dipped out of the sky, did not touch, and headed towards the northeast." This was spotted by the public about 3:14 p.m. over the Duncan Park area.									
Hinds County	21	7:30 p.-8:30 p.			0	0	?	0	Thunderstorm
A heavy thunderstorm produced some flash flooding and wind damage in the Jackson area. About 8:00 p.m., wind blew roof off building on Shepard Road (lat. 32.3° N, long. 90.2° W). At 8:10 p.m. power lines were down and also a tree across Lawrence Road. At 8:30 p.m., Jackson Police reported several low lying streets flooded; North Jackson - particularly Malwood Drive; Northeast Jackson - 18 to 20 inches of water on Northside and Ridgewood Road.									
Hinds County	22	3:30 p.			1	0	0	0	Lightning
In Bolton, 27-year old man was roofing a house in Westview Subdivision when he was killed by lightning.									
Greene County	27	3:30 p.-4:00 p.			0	0	?	0	Heavy Rain
Newspaper noted, "A torrential rain and spectacular lightning display Wednesday (27th) afternoon in Leakesville flooded the town and left most of the residents without telephones. . . . Long time residents of Leakesville said they had never experienced anything like this thunderstorm and estimated that about six inches of rain fell in just over a half hour." The telephone company office had 6 to 8 inches of water in it at one point. The cooperative weather observer at Leakesville reported 3.83 inches of rain at his location.									
Mississippi Sound	29	12:55 p.-1:05 p.							Waterspout
Newspaper noted, "A waterspout was sighted off Pass Christian about 1:55 p.m. (c.d.t.). . . ." Man stated "it was a pretty big one." During turbulent weather, the waterspout developed between the mainland and Cat Island and touched down near Second Key, southeast of the harbor. It lasted about two minutes. It began to rain at the Pass Christian city hall about five minutes after the waterspout touched down.									
Tunica to DeSoto County	29	4:50 p.-5:00 p.			0	0	4	0	Wind
Newspaper noted, ". . . high winds left extensive damage along a path from Robinsonville to Banks in Tunica County and to Cub Lake in DeSoto County. . . . Electric power and telephone service in the area was disrupted. . . . Dwellings and farm buildings were unroofed with tin and other roof coverings being carried considerable distance by the winds." About 4:50 p.m. c.s.t. in Robinsonville (lat. 34.8° N, long. 90.3° W), small aluminum building had roof removed and roofs of some tenant houses were damaged, power lines were down and a combine overturned. The DeSoto County Sheriff reported high winds occurred west of Hernando about 5:00 p.m. c.s.t. Damages were mostly along a path up to 50-100 yards wide and estimated about \$15,000. Damages and distribution of debris did not confirm a tornado and could have been caused by straight line thunderstorm winds.									
Panola County	29	5:58 p.							Funnel Cloud Aloft
Commercial airline reported funnel cloud 15 SW Oxford (lat. 34.2° N, long. 89.7° W). No reports of touchdown or damage received.									
Benton, Union, and Pontotoc Counties	29	5:58 p.-6:25 p.							Funnel Cloud Aloft
Funnel cloud reported 13 NW New Albany (in Benton Co.), (lat. 34.6° N, long. 89.2°) at 5:58 p.m. Funnel cloud aloft sighted in Union County, 6 SW New Albany on U.S. 78 at 6:15 p.m. Funnel cloud reported at 6:25 p.m. in Pontotoc County south of U.S. 78 near Sherman, 8 W Natchez Trace. No damage reports received - except to trees. At Highway 30 West of New Albany at the edge of Hill Creek bottom, newspaper noted, ". . . no less than 15 trees including a large water oak . . ." were destroyed.									
Lee County	29	8:48 p.			0	0	4	0	Wind
West of Saltillo, in the Birmingham Ridge community, three mobile homes were reported overturned at 8:48 p.m. and a porch was blown from a house. In the Saltillo area, there was heavy damage to trees and a total power failure. Civil Defense estimated \$14,000 damages. In (untown), there was a partial power failure and tree limbs were blown into streets and roads.									
MISSISSIPPI (continued)									
Tippah to Tishomingo County	29	6:00 p.-7:10 p.	45	Up To # 1/2	0	4	5	0	Tornado
Tornado reported in three counties and touched down at several places. Along the path much damage was done to roofs and TV antennas and trees were blown across roads. Many trees broken off several feet from ground as if the wind was not touching down to the ground except at times. TIPPACH COUNTY: Tornado touched down at several places between 6:00 and 6:30 p.m. c.s.t.; no injuries were reported in the county. In the area just south of Highway 4 West, below the airport, a mobile home was overturned and blown against a tree, completely destroying it. Many trees were blown over and much roof damage in this area. As the storm traveled east it struck a farm on Highway 15 South; shingles were blown off a roof, some storm windows broken, some small buildings and trees were damaged. On the Buena Vista Road several large trees were blown over and much damage was done to a chicken barn. On Dumas Road, a large tree was uprooted and fell across a carport. Much tree damage was done at the Mt. Moriah Church. No damage reported further east until it hit a barn near the county line. PREMISS COUNTY: Then about 6:30 p.m., it hit a home on Highway 4, three to four miles west of Booneville (lat. 34.7° N, long. 88.6° W). The owner said, "I heard it coming, but didn't have time to get to the storm shelter." The man suffered a cut on the hand from broken glass, his home was destroyed. Across the street, a fabric store was heavily damaged. In the area, barns were destroyed and a home was destroyed. On Highway 45 North, a trailer was destroyed and a small building partially destroyed. Then it went on to the Tuscumba community, 4 NE Booneville; where at about 6:30 p.m., a home was half blown away after the family had sought shelter in the garage basement and were not injured. It continued moving east and at Cairo in the eastern part of the county, several house trailers were damaged. TISHOMINGO COUNTY: Tornado touched down 3 W Paden and damaged from about 6 miles to about 2 miles east of Tishomingo. The width of the damaged area was up to 1/2 mile. Numerous timber damage probably in excess of \$100,000. There was an estimated \$30,000 damage to six homes, mostly to roofs and porches. On Highway 30, about one mile west of Tishomingo, (lat. 34.6° N, long. 88.2° W), a mobile home was destroyed about 7:05 p.m. and parts of the trailer were hanging from trees a quarter mile away. The occupants, a man, wife and 13-month old girl were injured while a boy was not. Approximately 2,000 homes in the area were without electricity.									
MONTANA									
November 1972									
Hill, Blaine, Phillips, Valley Counties	11								
	22				0	0	4	0	Hoarfrost
Hoarfrost began building up on the 10th and from the 11th through the 22nd a continuous fog in the area caused frost accumulations of 4 to 5 inches on electrical power lines. Some power lines were within 1 or 2 feet of the ground. Approximately 60 power poles were pulled down. Electrical service was out for several days.									
PACIFIC									
October 1972									
Marshall Islands	1-10				0	0	5	0	Waves
Waves (to 4 feet in height at Majuro) generated by persistent south-westerly winds flowing into surface trough of low pressure or into Typhoon MARIE battered southwest and west shores. Majuro sustained about \$2,000 damage to low-lying drainage areas and an estimated \$12,000 to 310-foot long seawall fronting Weather Service Office. At Kwajalein Atoll, \$320,000 spent on restoration of eroded shorelines, coastal facilities and riprap. Major repair costs \$213,000 on Kwajalein, \$62,000 on Mak, \$35,000 on Gueguis. Extensive damage to northern Marianas was reported in October 1972 issue of this publication.									
Between Rota and Guam	8-9				2	0	3	0	Typhoon
2 men drowned and 1 boat total loss in rough seas generated by Typhoon MARIE. 3 other men presumed lost at sea were rescued by Japanese fishing boat 47 days later 1,310 miles southwest of Guam in good health, having survived on fish and rainwater wrung from their clothes.									
Northern Marshalls	23-24				?	?	?	?	Typhoon
OLGA, as a weak storm, moved west northwest through atolls of northern Marshalls, near Ailuk and Udirik and about 40 miles NE of Wotje. No reported damage other than felling of few trees on houses, but further reports being awaited.									
Pagan and Agrihan, Northern Marianas	27				?	?	?	?	Typhoon
From the Marshalls to Marianas, OLGA's path paralleled slightly to south that taken by MARIE earlier in month. With forecast wind speeds of 130 miles an hour, OLGA passed near Agrihan and Pagan already severely damaged by MARIE earlier in month. Further damage not known.									
PUERTO RICO									
Aguada	June 1972								
	28	2:15 p.			0	0	4	0	Waterspout-Tornado
During the afternoon of June 28, 1972, the western portion of Puerto Rico was under the influence of numerous convective thunderstorms and generally unstable atmospheric conditions. At about 2:15 p.m. a funnel cloud developed over the water just off the west coast, north of the town of Aguada. A few minutes later it became an active waterspout which moved inland through barrios Guayabo and Rio Grande. Numerous trees were blown down and several small houses were damaged. After leaving Aguada the waterspout again headed out to sea north of the town of Rincon.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

LATE REPORTS -Continued

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TENNESSEE									
Wayne County	July 1972	27 p.m.			0	0	3	0	Lightning
									Lightning struck a tree on a farm in the Waynesboro area, destroying nine beef cattle.
Tullahoma, Coffee County	27 p.m.				0	0	3	0	Lightning
									House damaged by fire after being struck by lightning.
September 1972									
Nashville, Davidson County	26 3:58 a.				0	0	4	0	Wind
									High winds tore a metal canopy from the Woodbine Branch of the U.S. Post Office Building, damaging several postal service vehicles.
20 NW Memphis, Shelby County	26 5:00 p.								Funnel cloud
Copperhill, Polk County	28 9:00 p.				0	7	3	0	Lightning
									Seven members of the Ooltewah High School football team received minor burns and were temporarily stunned when lightning struck the players' bench during the game with Copper Basin High School. Also hit by lightning was a nearby utility pole.
TENNESSEE (continued) September 1972									
Grainger, Jefferson, Union, Knox Counties	29 a.m.				0	0	4	0	Lightning
									Unusually severe lightning caused power failures in several widely separated places. Two buildings in Knoxville were damaged by lightning strikes.
Monroe County	29 a.m.				0	0	4	0	Lightning, wind
									Several lightning strikes, some with resultant fires in the Citico and Lakeside Communities. Scattered wind damage with some tree limbs falling onto parked automobiles.
Shelby County	29 5:06 p. to 5:20 p.		0	0	0	1	5	0	Hail, rain, wind
									Hail up to 1-inch in diameter fell in the Frayser, Bartlett and North Memphis areas. Some damage to roofs and windows. Heavy rain was general over the area; .35 inch falling at Memphis International Airport in five minutes and .75 inch in twenty minutes. Falling tree limbs damaged power lines and other property. A 11-year old boy was slightly injured by lightning while closing a window at Manassas High School in Memphis.
25 W Jackson, Madison County	October 1972 17 9:15 p.								Funnel cloud
									Pilot reported funnel cloud near Brownville.

CORRECTIONS

ARKANSAS										
South of Warren Bradley County	June 1972	20		1/4					Tornado	
FLORIDA										
DELTE:										
20 N Titusville 38 NE Orlando	February 1972	03	2:40p	short narrow	0	0	0	0	Tornado	
									Reported and confirmed to Offutt AFB by Cape Kennedy DEI Commander. Amount of damage unknown. No injuries or deaths were reported.	
GEORGIA										
Statewide	June 1972	19-20					4		Hurricane Agnes	
ILLINOIS										
Gladstone	August 1972	6	0045a							
									(Gladstone not Gladstone)	
Park Ridge		25	0920p	1 3/4	200	0	1	6	0	Tornado
									On the basis of later information, change time from 0930p to 0920p and path length from 3/4 to 1 3/4 miles.	
OREGON										
Eugene, near Lane County	May 1972	22	2:55p.-3:01p.						Funnel Aloft	
									Second line should read: east of the Eugene Airport (Mahlon Sweet Field) rather than Medford Airport.	
SOUTH CAROLINA										
Clarendon County	August 1972	8	4:00p.			0	0	4	0	Thunderstorms, high winds
										High winds, moving from Lake Marion onto the western shore, damaged mobile home and homes in the Lake Marion shores subdivision of the Santee area. One house lost a roof and it landed on an auto, destroying it. A house trailer was destroyed by a falling tree. Several other trees were downed.
<ul style="list-style-type: none"> o Includes crop damage. C Crop damage. * Miles instead of yards. ** Yards instead of miles. + Storm damages are placed in categories varying from 1 to 9 as follows: <ul style="list-style-type: none"> 1 Less than \$50 2 \$50 to \$500 3 \$500 to \$5,000 4 \$5,000 to \$50,000 5 \$50,000 to \$500,000 6 \$500,000 to \$5 Million 7 \$5 Million to \$50 Million 8 \$50 Million to \$500 Million 9 \$500 Million to \$5 Billion. 										
<p>Note: This publication contains our best information on storms but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Late Reports and corrections will be carried in the June and December issues of this publication.</p> <p>SUBSCRIPTION PRICE: \$2.50 a year; 50¢ additional for foreign mailing; 25¢ single copy. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.</p>										

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