

Storm Data and Unusual Weather Phenomena - December 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ALABAMA, Central

(AL-Z011) MARION, (AL-Z012) LAMAR, (AL-Z017) BLOUNT, (AL-Z018) ETOWAH, (AL-Z019) CALHOUN, (AL-Z020) CHEROKEE, (AL-Z021) CLEBURNE, (AL-Z024) JEFFERSON, (AL-Z025) SHELBY, (AL-Z026) ST. CLAIR, (AL-Z027) TALLADEGA, (AL-Z028) CLAY, (AL-Z029) RANDOLPH				
	12/20/07 12:30 CST		0.26M	Strong Wind (MAX 32 kt)
	12/20/07 18:45 CST		0	

An atmospheric gravity wave brought gusty winds to a large part of Central Alabama during the afternoon and early evening hours on December 20, 2007. The winds associated with the gravity wave moved into Western Alabama just after noon, and moved eastward across the state through around 7 pm. Several counties reported tree and power line damage due to the gusty winds, and as a result there were numerous power outages. Sustained winds over 30 mph, and gusts up to 50 mph, were common across the area.

(AL-Z026) ST. CLAIR

	12/15/07 22:40 CST		5K	Strong Wind (MAX 35 kt)
	12/15/07 22:40 CST		0	

Gusty winds along a cold front produced isolated damage in Central Alabama.

(AL-Z011) MARION, (AL-Z012) LAMAR, (AL-Z013) FAYETTE, (AL-Z014) WINSTON, (AL-Z015) WALKER, (AL-Z017) BLOUNT, (AL-Z018) ETOWAH, (AL-Z019) CALHOUN, (AL-Z020) CHEROKEE, (AL-Z021) CLEBURNE, (AL-Z022) PICKENS, (AL-Z023) TUSCALOOSA, (AL-Z024) JEFFERSON, (AL-Z025) SHELBY, (AL-Z026) ST. CLAIR, (AL-Z027) TALLADEGA, (AL-Z028) CLAY, (AL-Z029) RANDOLPH, (AL-Z030) SUMTER, (AL-Z031) GREENE, (AL-Z032) HALE, (AL-Z033) PERRY, (AL-Z034) BIBB, (AL-Z035) CHILTON, (AL-Z036) COOSA, (AL-Z037) TALLAPOOSA, (AL-Z038) CHAMBERS, (AL-Z039) MARENGO, (AL-Z040) DALLAS, (AL-Z041) AUTAUGA, (AL-Z042) LOWNDES, (AL-Z043) ELMORE, (AL-Z044) MONTGOMERY, (AL-Z045) MACON, (AL-Z046) BULLOCK, (AL-Z047) LEE, (AL-Z048) RUSSELL, (AL-Z049) PIKE, (AL-Z050) BARBOUR				
	12/01/07 00:00 CST		0	Drought
	12/31/07 23:59 CST		0	

Drought conditions continued across most of Central Alabama through the month of December, with monthly rainfall deficits around 2 to 3 inches. By the end of the month, roughly three-quarters of Central Alabama remained in Exceptional Drought (D4), with the remainder in Moderate (D1) to Extreme (D3) Drought.

Agricultural impacts were lessened due to the end of the autumn harvesting season. However, hydrologic and sociological impacts continued to be widely felt. Most stream and river levels across Central Alabama continued to be much below normal with serious negative impacts continuing. Some of the most serious impacts continued on the Coosa and Tallapoosa Rivers. The threat of water shortages for municipal water systems persisted, and most water restriction plans already in place continued.

ALABAMA, North

(AL-Z002) COLBERT, (AL-Z006) MADISON, (AL-Z007) MORGAN, (AL-Z008) MARSHALL, (AL-Z010) DEKALB, (AL-Z016) CULLMAN				
	12/20/07 14:05 CST		6M	Strong Wind (MAX 43 kt)
	12/21/07 14:40 CST		0	

Damaging non-thunderstorm winds, likely caused by what is known in meteorological terms a "gravity wave", occurred in two main swaths in north central and northeast Alabama. Sustained winds of 30 to 40 mph were observed, with gusts around 50 mph. The sustained winds and gusts downed numerous trees onto power lines resulting in multiple power outages. Lawn furniture and Christmas ornaments were thrown about, and a couple of outbuilding roofs were also torn off. In a couple of cases, telephone and power poles were snapped. One swath of damage tracked from southern Lawrence County through northern Morgan and southern Madison counties, including the southern portion of Huntsville. Another widespread swath of damaging winds tracked through Cullman into southern Marshall and DeKalb counties.

(AL-Z001) LAUDERDALE, (AL-Z002) COLBERT, (AL-Z003) FRANKLIN, (AL-Z004) LAWRENCE, (AL-Z005) LIMESTONE, (AL-Z006) MADISON, (AL-Z007) MORGAN, (AL-Z008) MARSHALL, (AL-Z009) JACKSON, (AL-Z010) DEKALB, (AL-Z016) CULLMAN				
	12/01/07 00:00 CST		0	Drought
	12/31/07 23:59 CST		0	

Drought conditions were absolutely unchanged throughout December on the U.S. Drought Monitor, with Exceptional (D4) conditions persisting across about the eastern half of north Alabama and Moderate (D1) to Extreme (D3) conditions covering a majority of the western half of north Alabama. The small exception was far western Lauderdale, Colbert and Franklin Counties where conditions were Abnormally Dry (D0).

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Rainfall was less than half of normal for the month over most of the Central Tennessee Valley. Rainfall totals were one to two inches across much of the area, except for two to three inch totals across much of De Kalb and part of Jackson County, and two to four inch totals in the Shoals.

COLBERT COUNTY --- TUSCUMBIA [34.73, -87.70]

12/28/07 04:13 CST	0	Hail (0.75 in)
12/28/07 04:13 CST	0	Source: Law Enforcement

Hail up to penny sized covered the ground.

COLBERT COUNTY --- 4.5 N CROOKED OAK [34.65, -87.79]

12/28/07 04:15 CST	0	Hail (0.75 in)
12/28/07 04:15 CST	0	Source: Fire Department/Rescue

Penny sized hail was reported by the New Bethel Fire Department.

COLBERT COUNTY --- NITRATE CITY [34.75, -87.55]

12/28/07 04:16 CST	0	Hail (0.75 in)
12/28/07 04:16 CST	0	Source: Law Enforcement

Penny sized hail was reported.

COLBERT COUNTY --- COLBERT HGTS [34.67, -87.70]

12/28/07 04:30 CST	0	Hail (0.88 in)
12/28/07 04:30 CST	0	Source: Fire Department/Rescue

Hail up to nickel sized was reported by the Fire Department in Colbert Heights.

Isolated strong to severe thunderstorms containing hail moved across portions of northwest Alabama during the early morning hours of the 28th. Hail up to nickel sized was reported.

ALABAMA, Southeast

DALE COUNTY --- DALEVILLE [31.30, -85.72]

12/15/07 16:00 CST	0	Heavy Rain
12/15/07 17:00 CST	0	Source: Emergency Manager

Heavy rain caused localized flooding in and around the intersection of County Roads 47 and 49 in Daleville.

GENEVA COUNTY --- GENEVA [31.03, -85.88]

12/15/07 18:00 CST	0	Heavy Rain
12/15/07 19:00 CST	1	Source: Emergency Manager

Heavy rain caused localized flooding along State Highway 167 and County Road 49 in Geneva. An auto accident, which injured the driver, was a direct result of the heavy rain.

HOUSTON COUNTY --- DOTHAN [31.23, -85.37]

12/15/07 18:00 CST	0	Heavy Rain
12/15/07 19:00 CST	0	Source: Emergency Manager

Heavy rain caused localized flooding of several streets and intersections in Dothan.

Strong thunderstorms produced periods of heavy rain that caused localized flooding in portions of Dale, Geneva and Houston counties during the late afternoon and early evening of December 15.

ALABAMA, Southwest

WASHINGTON COUNTY --- 1.0 W CHATOM [31.47, -88.27]

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	12/20/07 11:25 CST		12K	Thunderstorm Wind (EG 50 kt)
	12/20/07 11:27 CST		0	Source: Emergency Manager
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MONROE COUNTY --- 1.0 N PETERMAN [31.59, -87.27]				
	12/20/07 13:45 CST		0	Hail (0.75 in)
	12/20/07 13:47 CST		0	Source: Emergency Manager
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A thunderstorm squall line moved across southwest Alabama blowing down trees and power lines.				
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CONECUH COUNTY --- EVERGREEN [31.43, -86.97]				
	12/28/07 12:10 CST		0	Hail (0.75 in)
	12/28/07 12:12 CST		0	Source: Emergency Manager
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A thunderstorm produced penny size hail in Evergreen.				