

**The Occurrence of Surface Icing at
2152 Clarksville, Paris, TX 75460
For the Period
December 24, 2000 to December 26, 2000**

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Date Prepared: October 4, 2001

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Introduction

This report describes surface icing activity at 2152 Clarksville, Paris, TX 75460. Expert meteorologists at Weather Decision Technologies, Inc. have carefully examined the reported weather observations related to the occurrence of icing at the ground for the time period December 24 to December 26, 2000. This report describes the findings and results of our investigation.

Analysis of Weather Observations

A careful and thorough examination of the available reports from the National Weather Service (NWS) near the address of interest was conducted to determine the likelihood of icing at the address of interest. Observations of temperature and precipitation were collected from NWS cooperative observer sites located in the following North Texas locations: Paris, TX (Lamar County), four miles northwest of Deport, TX (Lamar County), 2 miles northeast of Clarksville, TX (Red River County), Sulphur Springs, TX (Hopkins County) and 3 miles north-northeast of Bonham, TX (Fannin County) (See Figure 1 and Table 1). The weather observer at the Paris, TX site reported a total of 3.64 inches of liquid equivalent precipitation¹ for the 24 hour period ending at 8:00 am CST on December 26, 2000, and the temperature during this period of time remained at or below freezing (equal to or less than 32 F). In addition, the Paris observer reported four inches of frozen precipitation at the same observation time on December 26. The relatively large quantity of precipitation is further supported by the observer at the Deport, TX site (as well as by other weather observers in the area) who reported 3.0 inches of liquid equivalent precipitation for the same time period. No temperature observations were reported at the Deport, TX site, but it is likely that the temperature would have been at or below 32 F given the relatively close proximity (approximately 6.5 miles) to the Paris, TX site.

Reported in a winter storm summary by the NWS, widespread icing occurred in North Texas on December 25th and 26th. The NWS stated that up to four inches of ice occurred in parts of North Texas including Lamar County, TX resulting in widespread power outages and damage to trees and automobiles.

Conclusion

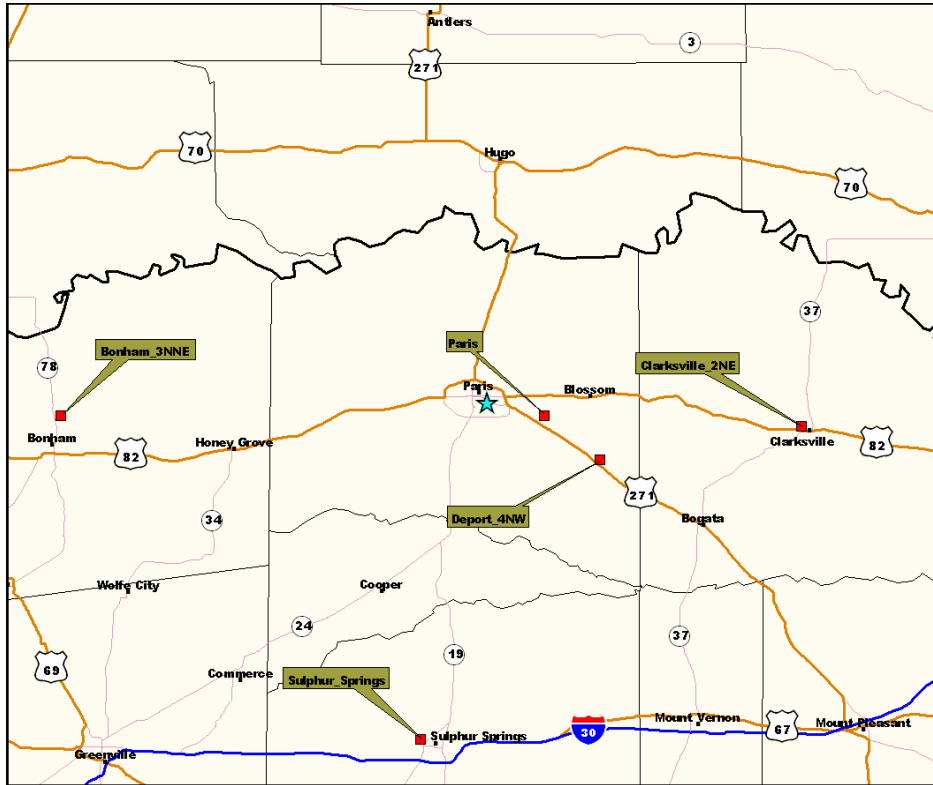
A thorough examination of the available weather observations of temperature and precipitation suggests that as much as four inches of frozen precipitation would have accumulated at the address of interest during the period of December 25-26, 2000. Although the available weather observations do not report the specific precipitation type (snow, ice, sleet), the NWS winter storm summaries regarding an apparent winter storm

¹Liquid equivalent precipitation represents precipitation measured in liquid form. Solid forms of precipitation (e.g. sleet and snow) have been melted to determine the total accumulation of liquid equivalent precipitation.

in northern and northeast Texas suggest that significant icing would have been likely at the address of interest.

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Figure 1. Map of Paris, TX area showing the location of National Weather Service cooperative weather observers (red squares). The light blue star depicts the address of interest, 2152 Clarksville, Paris, TX 75460. The area extent is 80 miles by 80 miles (6400 mi²).



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Table 1. Temperature and precipitation observations at or near Paris, TX for the period December 24-27, 2000.

Site name	24 hour period ending on December 25, 2000			24 hour period ending on December 26, 2000			24 hour period ending on December 27, 2000		
	Max. temperature (F)	Min. temperature (F)	Liquid equiv. precipitation (in.)	Max. Temperature (F)	Min. Temperature (F)	Liquid equiv. precipitation (in.)	Max. temperature (F)	Min. temperature (F)	Liquid equiv. precipitation (in.)
Bonham ^a	45	29	4.2	33	28	1.22	33	28	0
Clarksville ^b	47	28	0.08	Missing	Missing	4.24	37	Missing	0.64
Deport ^c	N/A	N/A	0.0	N/A	N/A	3.00	N/A	N/A	1.85
Paris ^c	45	25	0.05	32	30	3.64	34	31	1.50
Sulphur Spgs ^b	43	27	0.07	34	27	2.40	36	30	1.26

^aObservation taken at 6:00 am Central Standard Time ^bObservation taken at 7:00 am Central Standard Time ^cObservation taken at 8:00 am Central Standard Time

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