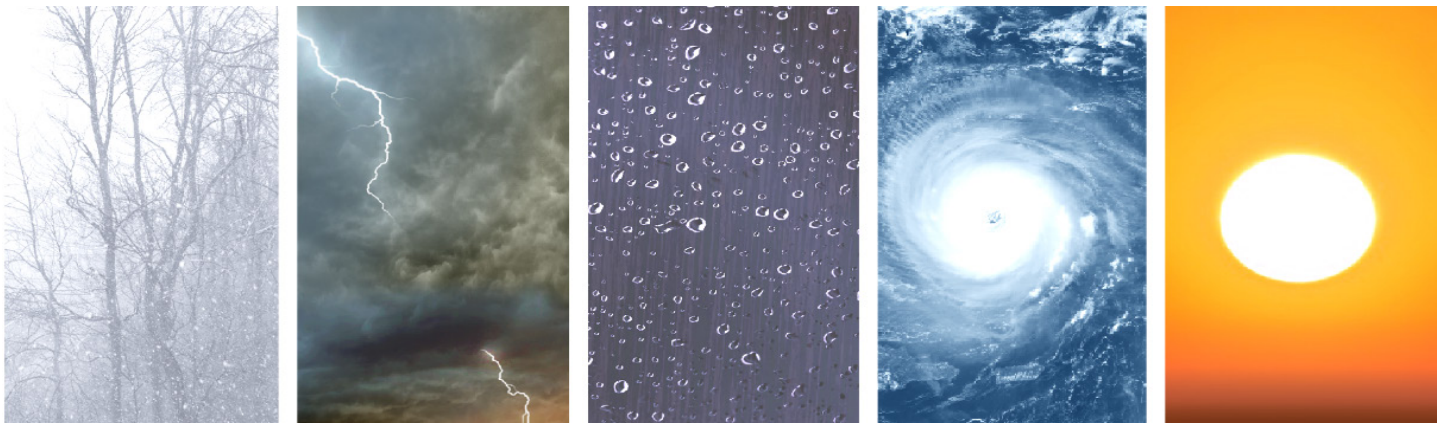


SAMPLE

SITE SPECIFIC WEATHER ANALYSIS

Rainfall Report



PREPARED FOR:

Bevens Engineering, Inc.

Susan M. Benedict

REFERENCE:

DUBOWSKI RESIDENCE / FILE# 11511033

CompuWeather Sample Report – Please note that this report contains sample data and fictitious names, dates, addresses and case references. This report is intended to demonstrate the structure and detail that is included in a CompuWeather Weather Analysis. All CompuWeather Reports are specific to individual cases or claims and may or may not include all the sections or information contained in this sample report.

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PROJECT INFORMATION

Report Completion Date: November 7, 2014
Prepared for: Bevens Engineering, Inc.
100 Hallow Point Road
Jacksonville, FL
Attn: Susan M. Benedict
Case Reference: Dubowski Residence / File# 11511033
Date of Incident / Loss: April 29, 2014
Location of Loss / Incident: 1500 Water Street, Pensacola, FL 32514
Type of Incident: Flooding
Scope: Determination of rainfall for April 29, 2014.

ABSTRACT

Bevens Engineering, Inc. has requested that CompuWeather's Forensic Meteorologists perform a site specific analysis of the weather conditions that occurred during the period April 29, 2014 for the location of 1500 Water Street, Pensacola, FL 32514. CompuWeather researched all the available weather data from approved sources for the surrounding area, analyzed the information and interpreted the conditions that took place for the requested location during the period requested.

CompuWeather has determined that approximately 14.34 inches of rain fell on April 29, 2014 (date in question), in the vicinity of 1500 Water Street, Pensacola, FL 32514 (site of the incident).

INTRODUCTION

This report is based on a review of weather data recorded in the vicinity of 1500 Water Street, Pensacola, FL 32514 (site of the incident; see map in the Incident Location & Data Sources section) on April 29, 2014. In order to determine the weather conditions on April 29, 2014, official copies of National Oceanic and Atmospheric Administration data were reviewed.

The process employed to produce this weather analysis begins with verifying the point of loss and performing a rigorous search of all the available and relevant weather data from the local geographical area that the incident site falls within. Once this data has been analyzed, the data is interpreted to make the determination as to the weather that occurred at the exact incident site.

In addition, all meteorological data used to prepare this report is reviewed for quality and can be certified. Data and meteorological reports taken by individuals or organizations not affiliated with the National Oceanic and Atmospheric Administration are not used in our practice.

All procedures used during the analysis of this case were conducted in accordance with long-standing, standard and accepted practices in the field of meteorology. This report was based on the available data at the time the report was prepared. CompuWeather reserves the right to amend this report should additional data or relevant information become available.

RESULTS / ANALYSIS

On April 29, 2014, rain and thunderstorms began at approximately 3:30 AM CDT and continued through approximately 6:15 AM CDT. Additional rain with thunderstorms began at approximately 3:40 PM CDT and continued fairly steadily through the remainder of the day.

Total rainfall was approximately 14.34 inches of rain. The majority of this rainfall occurred between 8:00 PM CDT and 11:00 PM CDT, when approximately 8.50 inches of rainfall occurred. A rainfall of this magnitude occurring within a 3-hour period normally occurs once every 200 to 500 years, and has a 0.2 to 0.5 percent chance of being equaled or exceeded in any given year.

The normal daily rainfall (based on the 1971-2000 average) for April 29, 2014 is 0.12 inch.

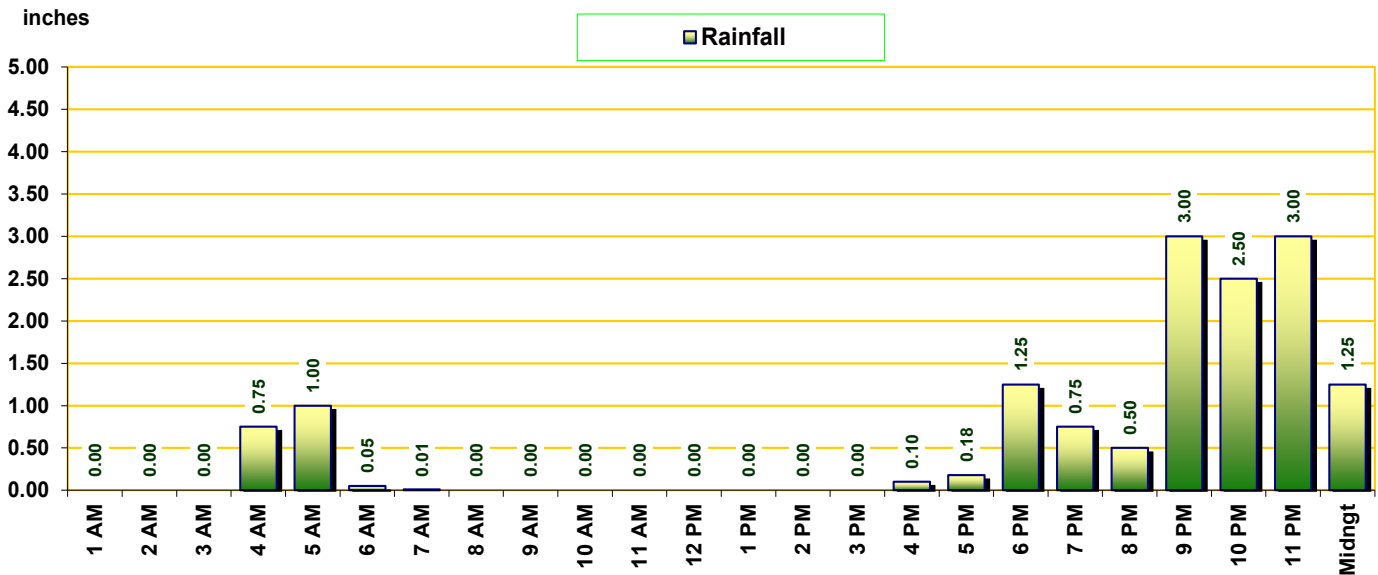
Date	Significant Rainfall & Period		Recurrence Interval	Recurrence Probability
04/29/14	8.50"	3 Hours	200-500 Years	0.2-0.5%

HOURLY RAINFALL TABLE & GRAPH

The following table and graph indicate the estimated hourly rainfall (inches) for the date in question, April 29, 2014.

1500 Water Street, Pensacola, FL 32514:

Time	Rainfall	Time	Rainfall
1:00 AM	0.00	1:00 PM	0.00
2:00 AM	0.00	2:00 PM	0.00
3:00 AM	0.00	3:00 PM	0.00
4:00 AM	0.75	4:00 PM	0.10
5:00 AM	1.00	5:00 PM	0.18
6:00 AM	0.05	6:00 PM	1.25
7:00 AM	0.01	7:00 PM	0.75
8:00 AM	0.00	8:00 PM	0.50
9:00 AM	0.00	9:00 PM	3.00
10:00 AM	0.00	10:00 PM	2.50
11:00 AM	0.00	11:00 PM	3.00
12:00 PM	0.00	12:00 AM	1.25



CONCLUSION

PERIOD IN QUESTION: April 29, 2014

LOCATION: 1500 Water Street, Pensacola, FL 32514

CASE REFERENCE: Dubowski Residence / File# 11511033

In conclusion, it can be stated with a reasonable degree of meteorological certainty that on April 29, 2014 (date in question), approximately 14.34 inches of rain fell in the vicinity of 1500 Water Street, Pensacola, FL 32514. The majority of this rainfall occurred between 8:00 PM CDT and 11:00 PM CDT when approximately 8.50 inches of rainfall occurred. A 3-hour rainfall of this magnitude normally occurs once every 200 to 500 years, and has a 0.2 to 0.5 percent chance of being equaled or exceeded in any given year.

INCIDENT LOCATION & DATA SOURCES - MAP

The incident location for this analysis is indicated by a star on the map below. Additionally shown on the map are the surrounding weather data sites.

A listing of data sites reviewed for this analysis is indicated on the following page.



INCIDENT LOCATION & DATA SOURCES - LIST

Below is a list of data sites which were reviewed for this analysis. The names of each data site, their three letter identifier in parentheses, and their approximate distances to the loss location (in miles) are indicated.

National Weather Service hourly reporting sites:

- Pensacola Regional Airport, FL (KPNS) – 3 mi

Hourly weather data is provided by the Automated Surface Observing Systems (ASOS) and Automated Weather Observing System (AWOS). This program is a joint effort of the National Weather Service (NWS), the Federal Aviation Administration (FAA), and the Department of Defense (DOD). It serves as the nation's primary surface weather observing network, containing over 800 sites nationwide, and is designed to support weather forecasting and the meteorological, hydrological, and climatological research communities.

National Climatic Data Center global network:

- Pensacola 3.8 N, FL – 2 mi
- Pensacola 4.8 N, FL – 2 mi
- Gonzalez 2.1 E, FL – 2 mi
- Pensacola 9.2 NW, FL – 5 mi
- Milton 6.0 SW, FL – 7 mi
- Gonzalez 2.5 NNW, FL – 7 mi

A National Climatic Data Center database of more than 40,000 stations worldwide that record daily temperature, precipitation, and snow amounts. The data is reviewed by the National Climatic Data Center for a reasonable level of quality assurance.

National Weather Service NEXRAD radar:

- Base Reflectivity Images from Eglin AFB, FL for April 29, 2014
- Storm Total Precipitation Images from Eglin AFB, FL for April 29-May 1, 2014
- One Hour Precipitation Images from Eglin AFB, FL for April 29, 2014

The Next Generation Weather Radar system (NEXRAD) is comprised of 159 land-based Weather Surveillance Radar-1988 Doppler (WSR-88D) sites throughout the United States and select overseas locations. This system is a joint effort of the United States Departments of Commerce (DOC), Defense (DOD), and Transportation (DOT). The controlling agencies are the National Weather Service (NWS), Air Force Weather Agency (AFWA) and Federal Aviation Administration (FAA), respectively. Radar scans at radial distances typically greater than 100 miles, covering an area larger than 30,000 square miles around each radar site. It helps provide estimates of several weather elements which aid in weather forecasting and meteorological research – some of which include location and intensity of precipitation, storm track and speed, and precipitation amounts.

Hydrometeorological Design Studies Center – Precipitation Frequency Data Server (PFDS):

Location used for calculating precipitation frequency for this analysis:

- Latitude 30.5379, Longitude -87.2183

COMPUWEATHER APPROVED INFORMATION SOURCES

The following is listing of data resources used by CompuWeather for Historical Weather Analysis:

- National Oceanic & Atmospheric Administration (NOAA)
- National Weather Service (NWS) hourly reporting stations
- National Weather Service special weather statements
- National Weather Service local storm reports
- National Weather Service cooperative reporting station data
- National Weather Service climate summaries

**CompuWeather, Inc.
2566 Route 52
Hopewell Junction, NY 12533
United States**

**tel: 800-825-4445
fax: 800-825-4441
experts@compuweather.com
www.compuweather.com**

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