

Davis, Linda S

From: Davis, Linda S
Sent: Tuesday, June 02, 2009 10:24 AM
To: chme@ecn.purdue.edu; chmegrad@ecn.purdue.edu
Cc: Gauger, Steve A
Subject: Safety Update #10: Tornado Data for West Lafayette, IN

ChE Faculty, Staff and Graduate Students,

In the last 24 hours, our area experienced significant thunderstorms, rainfall in excess of 5", pea-sized hail and an unconfirmed tornado near Frankfort.

This weather is a reminder that we live in an area of Indiana where tornadoes occur. The following data is taken from the Tornado Project Online at: <http://www.tornadoproject.com/index.html#top>. By using the maps and table below, you can see that the risk in our area is considered high. The Shelter-in-Place procedures for Forney are described in the Building Emergency Plan and tornado emergency procedures for the University are described in the Emergency Procedures Handbook. Both are located at: <https://engineering.purdue.edu/ChE/AboutUs/Safety.html>. Or you can see any member of the ChE Safety Committee. It is also recommended that you identify where you can seek shelter at home (shelter, basement, inner room away from windows or other location).

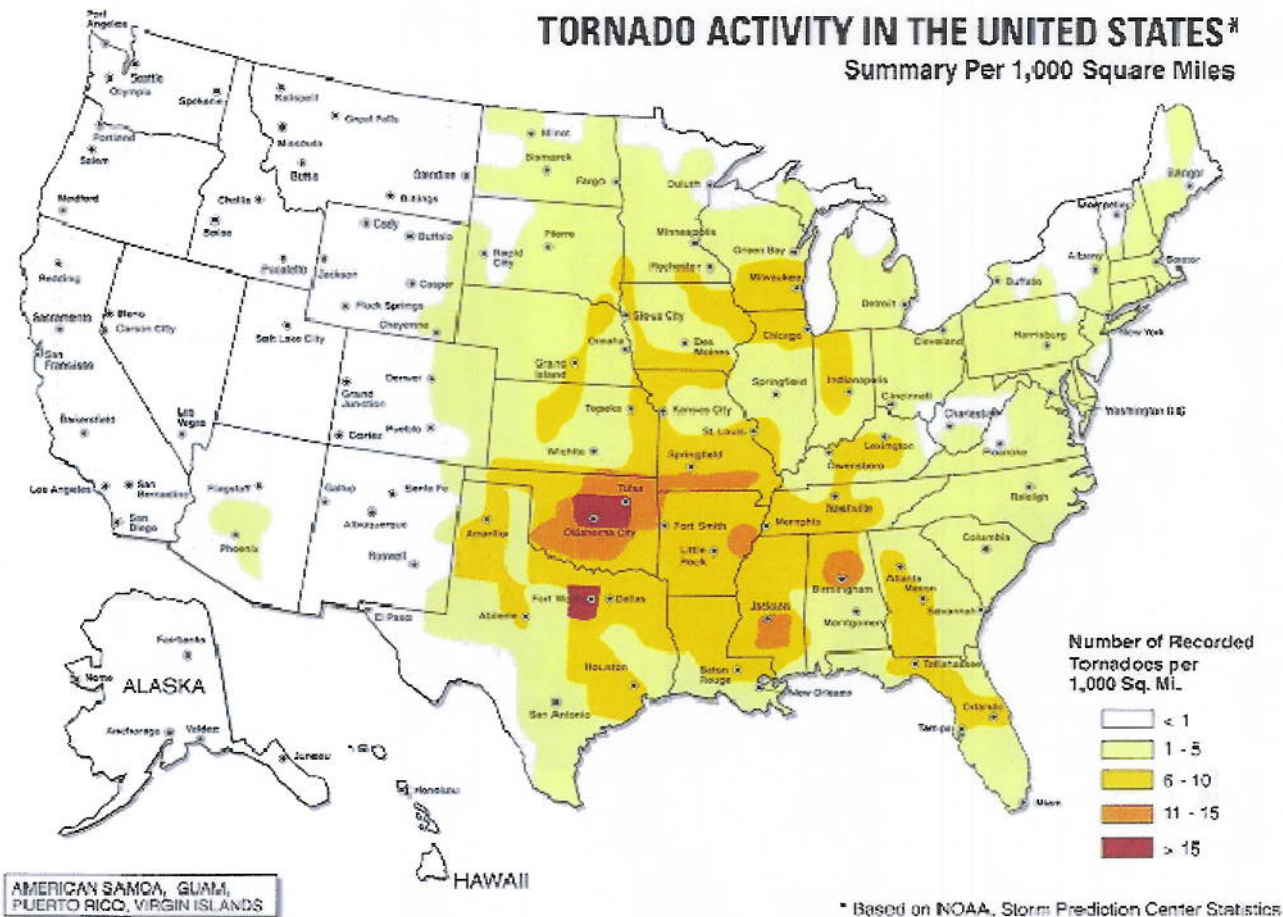


Figure I.1 The number of tornadoes recorded per 1,000 square miles

WIND ZONES IN THE UNITED STATES*

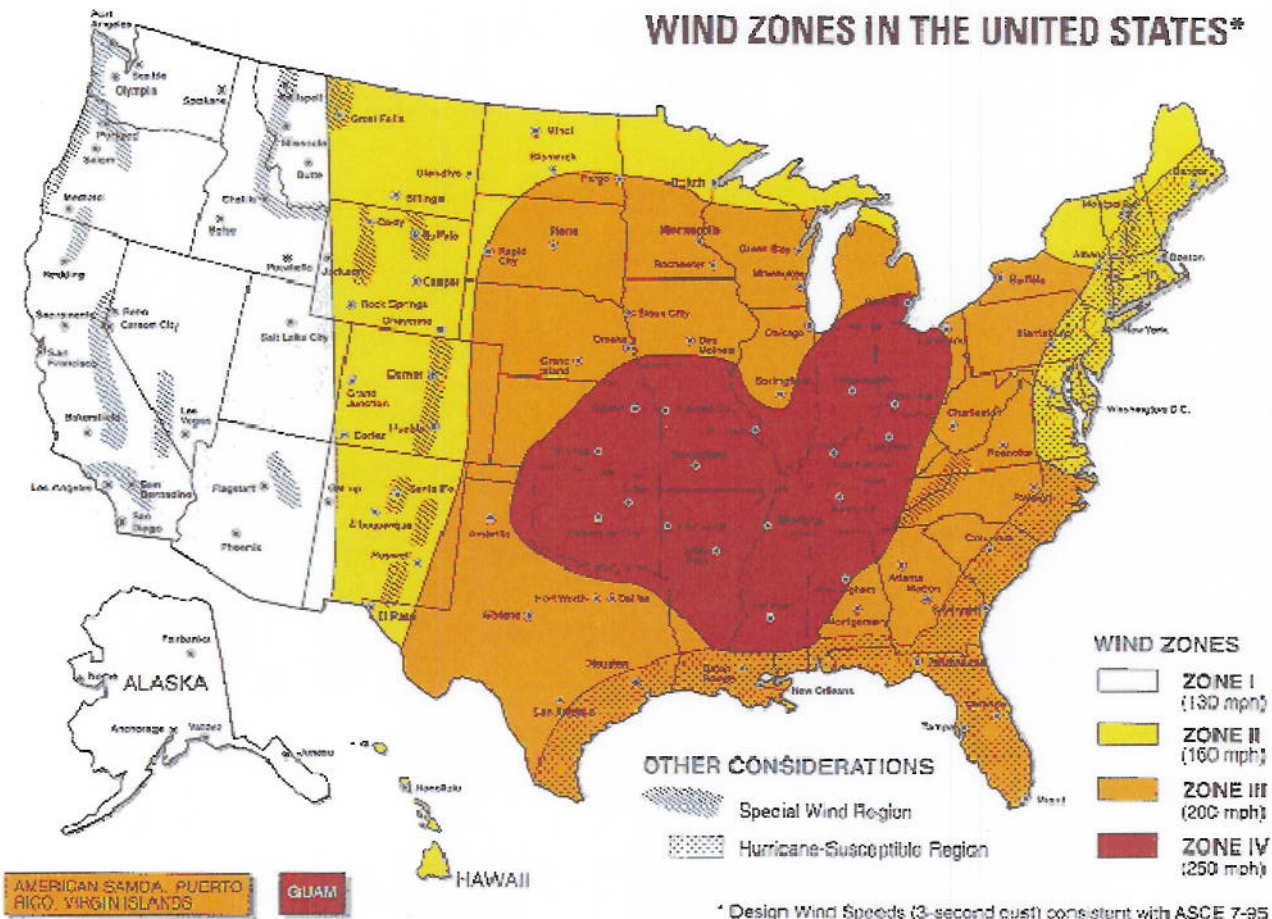


Figure 1.2 Wind zones in the United States

		WIND ZONE (See Figure 1.2)			
		I	II	III	IV
NUMBER OF TORNADOES PER 1,000 SQUARE MILES (See Figure 1.1)	<1	LOW RISK	LOW RISK ★	LOW RISK ★	MODERATE RISK
	1 - 5	LOW RISK	MODERATE RISK ★	HIGH RISK	HIGH RISK
	6 - 10	LOW RISK	MODERATE RISK ★	HIGH RISK	HIGH RISK
	11 - 15	HIGH RISK	HIGH RISK	HIGH RISK	HIGH RISK
	>15	HIGH RISK	HIGH RISK	HIGH RISK	HIGH RISK

LOW RISK

Need for high-wind shelter is a matter of homeowner preference

MODERATE RISK

Shelter should be considered for protection from high winds

HIGH RISK

Shelter is preferred method of protection from high winds

★ Shelter is preferred method of protection from high winds if house is in hurricane-susceptible region

Linda

Linda S. Davis