



Outdoor Warning
Siren Activation &
Policy Survey

April 2019

To the Members of the Iowa Emergency Management Association:

Earlier this year, a member requested a follow-up survey be conducted regarding the usage of outdoor warning sirens in the State of Iowa. The previous survey had been conducted in 2013 and at that time, only asked whether sirens were activated for straight-line winds.

The 2019 survey covered the following topics:

- The total number of sirens in the county
- Activation criteria for straight-line winds
- Activation criteria for hail
- Who can activate the sirens
- Activation policies
- How sirens are activated
- Whether or not automatic activation software is used and what brand
- Whether or not the county follows the *IEMA Outdoor Warning Siren Best Practices* document published in 2015

The survey using Google Forms was made available to the IEMA Membership via a link in an email sent on Monday, March 18 at 12:03 p.m. A follow-up request for data was sent via e-mail to the IEMA membership on Wednesday, April 17 at 8:33 a.m. after only 37 responses had been received. The survey was closed on Monday, April 22 and results were tabulated. A total of 66 counties (67%) responded to the survey.

The results are contained in this document within the following sections:

- 2013 Survey Results
- Survey Questions
- Raw Survey Results
- Charts & Maps

If you have questions regarding the survey or the results presented here, please contact Michael Ehret at 712-336-3987 or by e-mail at mike@dcem.us.

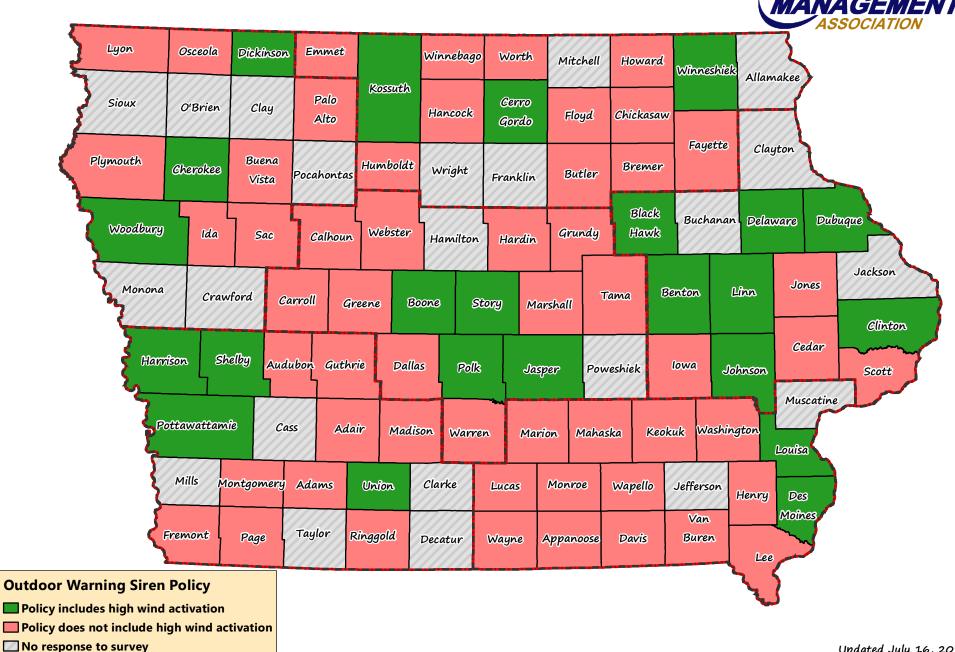
Respectfully Submitted,

Michael Ehret, Coordinator

Dickinson County Emergency Management

2013 Survey Results

Outdoor Warning Siren High Wind Policy



Survey Questions

. Count	
Mark c	only one oval.
	ADAIR
	ADAMS
	ALLAMAKEE
	APPANOOSE
	AUDUBON
	BENTON
	BLACK HAWK
	BOONE
	BREMER
	BUCHANAN
	BUENA VISTA
	BUTLER
	CALHOUN
	CARROLL
	CASS
	CEDAR
	CERRO GORDO
	CHEROKEE
	CHICKASAW
	CLARKE
	CLAY
	CLAYTON
	CLINTON
	CRAWFORD
	DALLAS
	DAVIS
	DECATUR
	DELAWARE
	DES MOINES
	DICKINSON
	DUBUQUE
	EMMET
	FAYETTE
	FLOYD
	FRANKLIN
	FREMONT
	GREENE
	GRUNDY

GUTHRIE
HAMILTON
HANCOCK
HARDIN
HARRISON
HENRY
HOWARD
HUMBOLDT
IDA
IOWA
JACKSON
JASPER
JEFFERSON
JOHNSON
JONES
KEOKUK
KOSSUTH
LEE
LINN
LOUISA
LUCAS
LYON
MADISON
MAHASKA
MARION
MARSHALL
MILLS
MITCHELL
MONONA
MONROE
MONTGOMERY
MUSCATINE
O'BRIEN
OSCEOLA
PAGE
PALO ALTO
PLYMOUTH
POCAHONTAS
POLK
POTTAWATTAMIE

	POWESHIEK
	RINGGOLD
	SAC
	SCOTT
	SHELBY
	SIOUX
	STORY
	TAMA
	TAYLOR
	UNION
	VAN BUREN
	WAPELLO
	WARREN
	WASHINGTON
	WAYNE
	WEBSTER
	WINNEBAGO
	WINNESHIEK
	WOODBURY
	WORTH
	WRIGHT
count	many outdoor warning sirens are in your ty? * numbers only; no letters or punctuation
activa	r county activates sirens for straight-line winds, what is the speed threshold required for ation? * only one oval.
	65 mph
	70 mph
	75 mph
	80 mph
	85 mph
	We don't activate for straight-line winds
	Other:

4. If your county activates sirens for hail, what is the size threshold required for activation? * Mark only one oval.
2 inches
2.5 inches
3 inches
3.5 inches
4 inches
4.5 inches
5 inches
We don't activate sirens for hail
Other:
5. How are sirens activated in your county?
Mark only one oval.
Dispatch and/or EOC
Each city/town activates theirs manually
A mix of these
6. Does your county use an automatic system/software for siren activation? * Example: Federal Signal Commander, Storm Sentry, etc. Mark only one oval. Yes No
7. If you use an automatic system/software, what system do you use?
8. Do you have a county-wide siren activation policy or does it vary by city/town? * Mark only one oval.
Countywide
Varies by City/Town
9. In 2015, IEMA adopted the "Outdoor Warning Siren Best Practices Recommendation" document. Does your county follow these recommendations? * The document can be downloaded here: https://www.iowaema.com/index.php/documents/download/2-public-documents/6-outdoor-warning-siren-best-practices-recommendation Mark only one oval.
We follow it completely
We follow parts of it
We don't follow any of it
I haven't seen this document

Raw Survey Results

County	How many outdoor warning sirens are in your county?	for straight-line winds, what is the speed threshold required for activation?	If your county activates sirens for hail, what is the size threshold required for activation?	How are sirens activated in your county?	Does your county use an automatic system/software for siren activation?	If you use an automatic system/software, what system do you use?	Do you have a county- wide siren activation policy or does it vary by city/town?	In 2015, IEMA adopted the "Outdoor Warning Siren Best Practices Recommendation" document. Does your county follow these recommendations?
ADAIR	5	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Varies by City/Town	We follow parts of it
ADAMS	6	70 mph	We don't activate sirens for hail	A mix of these	Yes		,	We follow parts of it
ALLAMAKEE	10	70 mph	Have hail listed, but not by size. Will work to update by size.	A mix of these	No	N/A	Varies by City/Town	We follow parts of it
APPANOOSE	8	70 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
BENTON	47	70 mph	2 inches	A mix of these	No		Countywide	We follow parts of it
BLACK HAWK	47	70 mph	2 inches	Dispatch and/or EOC	Yes	Nextgen	Countywide	We follow it completely
BOONE	14	70 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
BREMER	16	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Varies by City/Town	I haven't seen this document
BUCHANAN	16	70 mph	We don't activate sirens for hail	A mix of these	No		Countywide	We follow parts of it
BUENA VISTA	20	80 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
BUTLER	12	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Varies by City/Town	We follow parts of it
CALHOUN	15	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	Yes	zuercher		We follow parts of it
CASS	22	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No	NA	Varies by City/Town	We follow parts of it
CERRO GORDO	27	70 mph	We don't activate sirens for hail	A mix of these	No		Varies by City/Town	We follow parts of it
CHEROKEE	13	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	I haven't seen this document

County	How many outdoor warning sirens are in your county?	If your county activates sirens for straight-line winds, what is the speed threshold required for activation?	If your county activates sirens for hail, what is the size threshold required for activation?	How are sirens activated in your county?	Does your county use an automatic system/software for siren activation?	If you use an automatic system/software, what system do you use?	Do you have a county- wide siren activation policy or does it vary by city/town?	In 2015, IEMA adopted the "Outdoor Warning Siren Best Practices Recommendation" document. Does your county follow these recommendations?
CHICKASAW	10	70 mph	1.75 inches	Dispatch and/or EOC	No	, , , , , , , , , , , , , , , , , , , ,	Countywide	We follow it completely
CLINTON	36	70 mph	1.75 golf ball size	Dispatch and/or EOC	No		Countywide	We follow parts of it
CRAWFORD	14	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	Yes	Federal	Countywide	We follow parts of it
DALLAS	44	Combination. Metro cities and Granger follow 70mph activation while remainder of County does not.	We don't activate sirens for hail	A mix of these	No	Some cities are in the process of implementation of this technology.	Varies by City/Town	We follow parts of it
DAVIS	6	70 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
DELAWARE	14	70 mph	We don't activate sirens for hail	Each city/town activates theirs manually	No		Countywide	We follow parts of it
DES MOINES	15	70 mph	We don't activate sirens for hail	A mix of these	No		Countywide	We follow it completely
DICKINSON	31	75 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
DUBUQUE	44	70 mph	1.75 inches or golf ball size	A mix of these	No		Countywide	We follow parts of it
EMMET	8	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Countywide	I haven't seen this document
FAYETTE	28	70 mph	2 inches	A mix of these	No		,	We follow parts of it
FRANKLIN	12	70 mph	2.5 inches	Dispatch and/or EOC	No			We follow parts of it
GREENE	9	70 mph	We don't activate sirens for hail	A mix of these	No		Countywide	I haven't seen this document
GRUNDY	10	If we're put into a Warning we will set off the sirens.	If we're put into a WARNING we will set off the sirens	Dispatch and/or EOC	No		Varies by City/Town	I haven't seen this document
GUTHRIE	16	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Varies by City/Town	We follow parts of it

County	How many outdoor warning sirens are in your county?	If your county activates sirens for straight-line winds, what is the speed threshold required for activation?	If your county activates sirens for hail, what is the size threshold required for activation?	How are sirens activated in your county?	Does your county use an automatic system/software for siren activation?	If you use an automatic system/software, what system do you use?	Do you have a county- wide siren activation policy or does it vary by city/town?	In 2015, IEMA adopted the "Outdoor Warning Siren Best Practices Recommendation" document. Does your county follow these recommendations?
HANCOCK	11	Dependent on ground truth reporting from spotters. We don't have a wind speed threshold in our policy.	Dependent on ground truth reporting from spotters. We don't have a hail size threshold in our policy.	A mix of these	No	N/A	Countywide	We follow parts of it
HARRISON	10	80 mph	We don't activate sirens for hail	A mix of these	No		Varies by City/Town	We follow parts of it
IDA	7	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
IOWA	10	70 mph	2 inches	Dispatch and/or EOC	No		Countywide	We follow it completely
JACKSON	12	70 mph	2 inches	Dispatch and/or EOC	No		Countywide	We follow it completely
JASPER	20	75 mph	2 inches	Dispatch and/or EOC	No		Countywide	We follow parts of it
JOHNSON	67	70 mph	Golf ball size.	Dispatch and/or EOC	No	NA	Countywide	We follow parts of it
JONES	13	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	Yes	Ztron	Countywide	We don't follow any of it
KOSSUTH	20	70 mph	2 inches	A mix of these	No		Countywide	We follow it completely
LINN	109	70 mph	Golf ball sized hail	A mix of these	No		Countywide	We follow parts of it
LUCAS	7	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
LYON	8	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Varies by City/Town	We follow parts of it
MADISON	7	65 mph	2 inches	Dispatch and/or EOC	Yes		Varies by City/Town	We follow parts of it
MAHASKA	16	70 mph	1.75	Dispatch and/or EOC	Yes	WeatherWarn	Countywide	We follow parts of it
MARION	32	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Countywide	We don't follow any of it

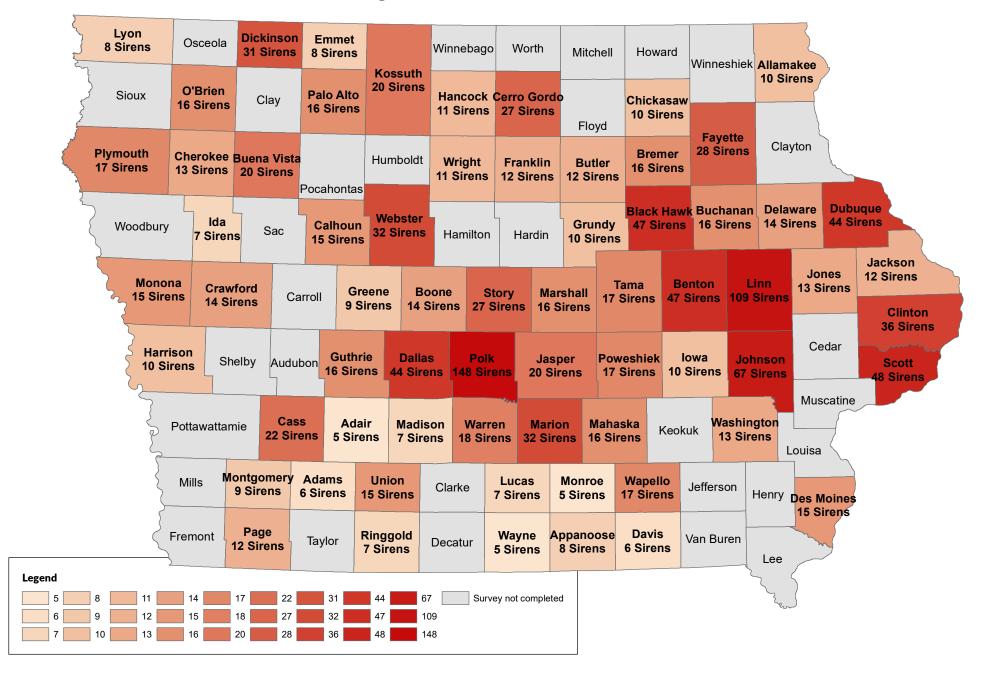
County	How many outdoor warning sirens are in your county?	If your county activates sirens for straight-line winds, what is the speed threshold required for activation?	If your county activates sirens for hail, what is the size threshold required for activation?	How are sirens activated in your county?	Does your county use an automatic system/software for siren activation?	If you use an automatic system/software, what system do you use?	Do you have a county- wide siren activation policy or does it vary by city/town?	In 2015, IEMA adopted the "Outdoor Warning Siren Best Practices Recommendation" document. Does your county follow these recommendations?
MARSHALL	16	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Countywide	We follow parts of it
MONONA	15	75 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	I haven't seen this document
MONROE	5	70 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
MONTGOMERY	9	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We don't follow any of it
O'BRIEN	16	75 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
PAGE	12	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Countywide	I haven't seen this document
PALO ALTO	16	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
PLYMOUTH	17	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Varies by City/Town	We follow parts of it
POLK	148	70 mph	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
POWESHIEK	17	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Countywide	We follow parts of it
RINGGOLD	7	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	No		Countywide	We follow parts of it
SCOTT	48	70 mph	golf ball sized (1.75"	Dispatch and/or EOC	No		Countywide	We follow parts of it
STORY	27	70 mph	1.75 inch/golf ball	Dispatch and/or EOC	No		Countywide	We follow parts of it
TAMA	17	75 mph	2.5 inches	A mix of these	No		Varies by City/Town	We follow parts of it
UNION	15	70 mph	2 inches	A mix of these	No		Countywide	We follow it completely

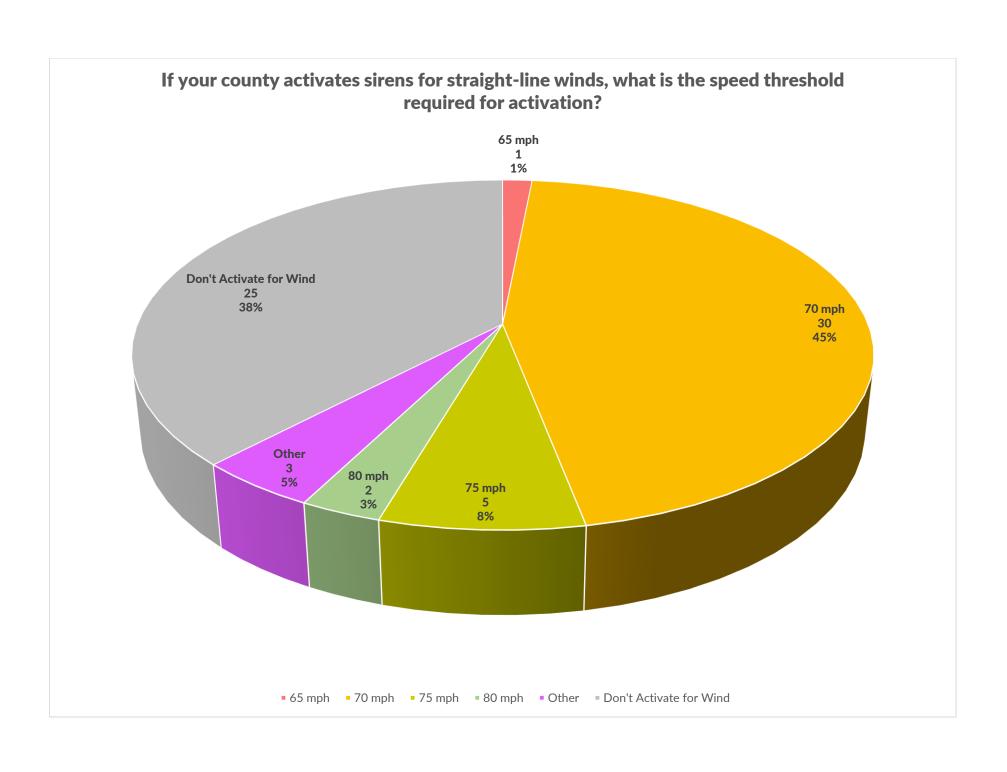
County	How many outdoor warning sirens are in your county?	If your county activates sirens for straight-line winds, what is the speed threshold required for activation?	If your county activates sirens for hail, what is the size threshold required for activation?	How are sirens activated in your county?	Does your county use an automatic system/software for siren activation?	If you use an automatic system/software, what system do you use?	Do you have a county- wide siren activation policy or does it vary by city/town?	In 2015, IEMA adopted the "Outdoor Warning Siren Best Practices Recommendation" document. Does your county follow these recommendations?
WAPELLO	17	70 mph	1.75	Dispatch and/or EOC	No		Countywide	We follow parts of it
WARREN	18	70 mph	2 inches	Dispatch and/or EOC	No		Countywide	We follow parts of it
WASHINGTON	13	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Countywide	We follow parts of it
WAYNE	5	We don't activate for straight- line winds	We don't activate sirens for hail	Dispatch and/or EOC	No		Varies by City/Town	We follow parts of it
WEBSTER	32	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	Yes	Weather Warn	Varies by City/Town	We follow parts of it
WRIGHT	11	We don't activate for straight- line winds	We don't activate sirens for hail	A mix of these	No		Countywide	I haven't seen this document

Charts & Maps

EMERGENCY MANAGEMENT ASSOCIATION

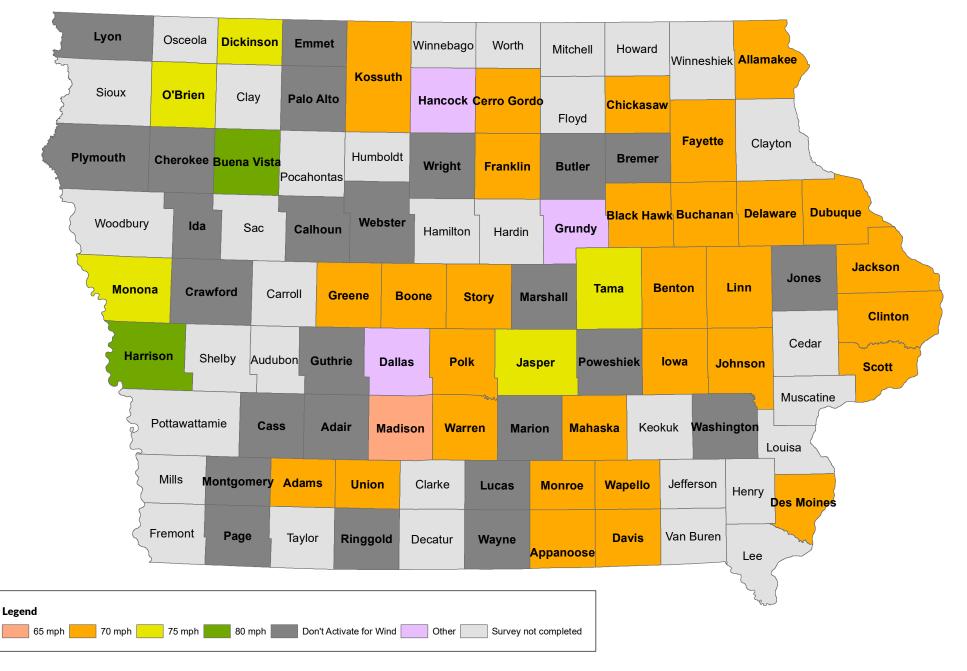
Number of Outdoor Warning Sirens (1,405 in the counties that responded)

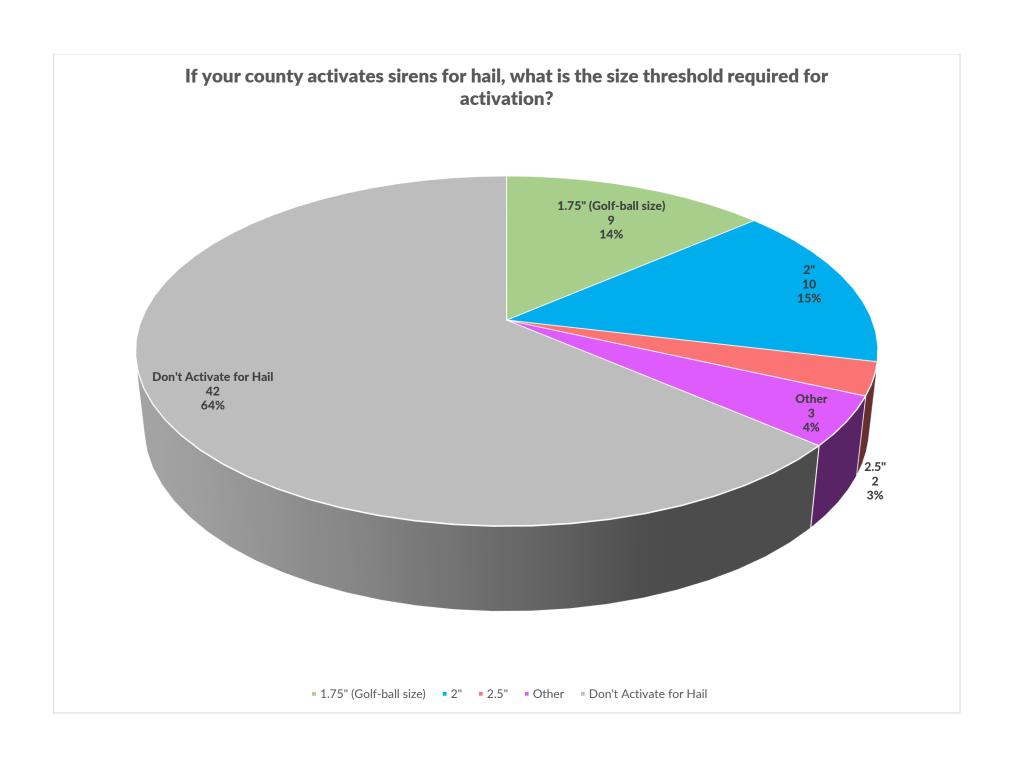






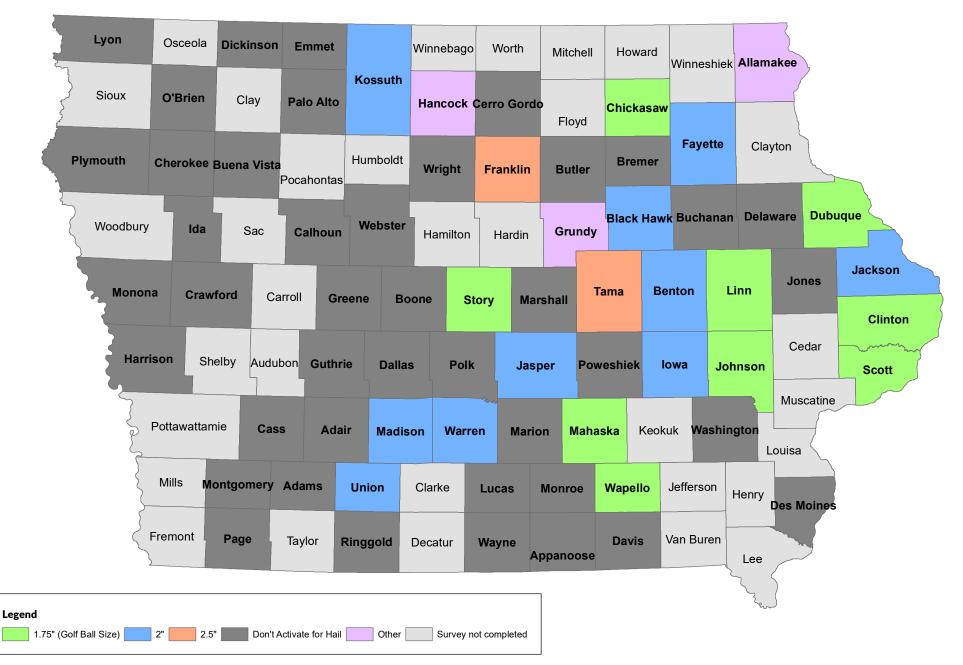


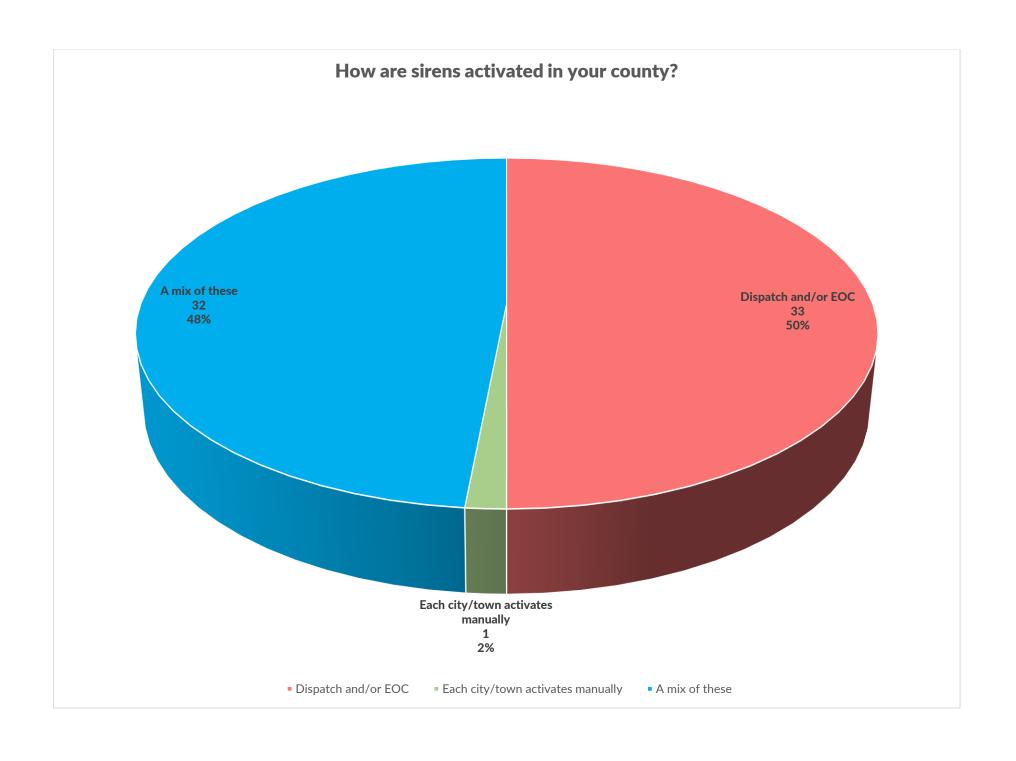






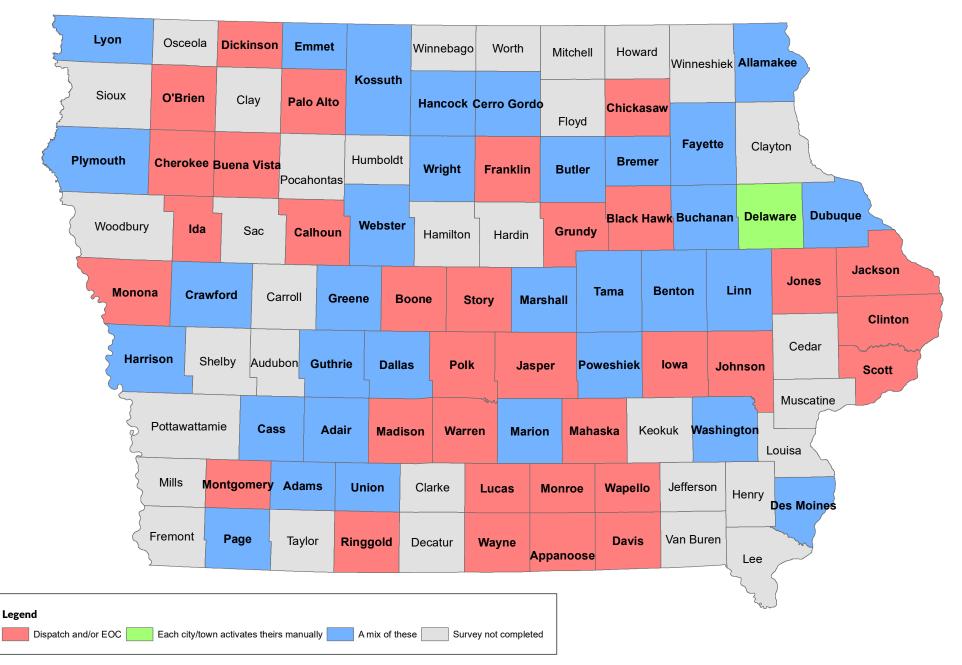
Siren Activation for Hail

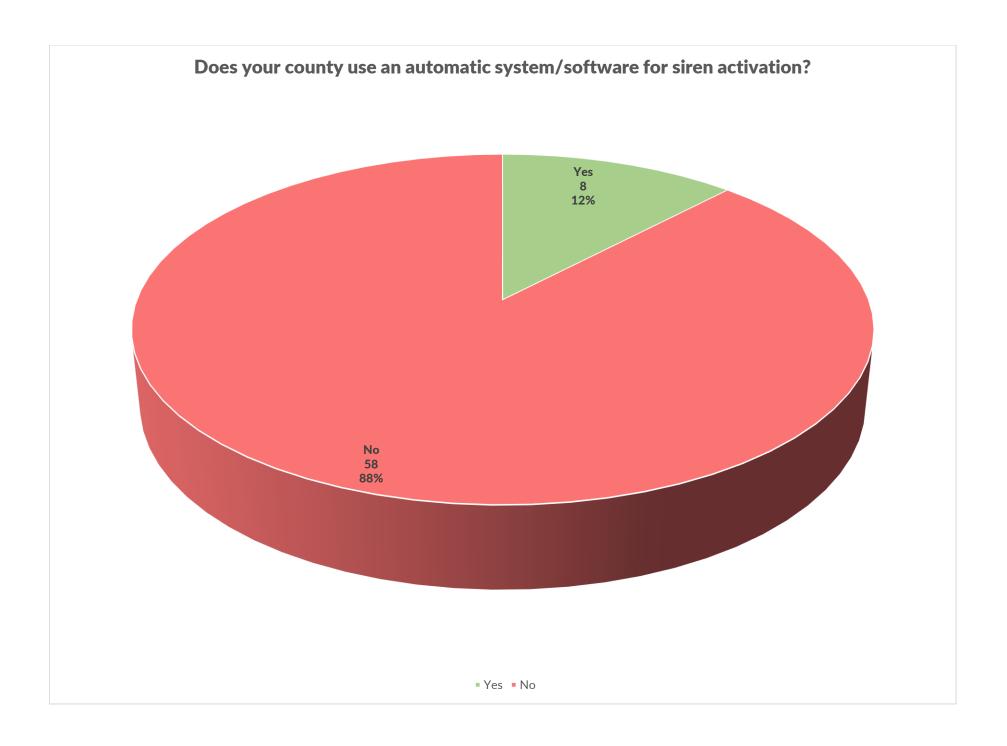






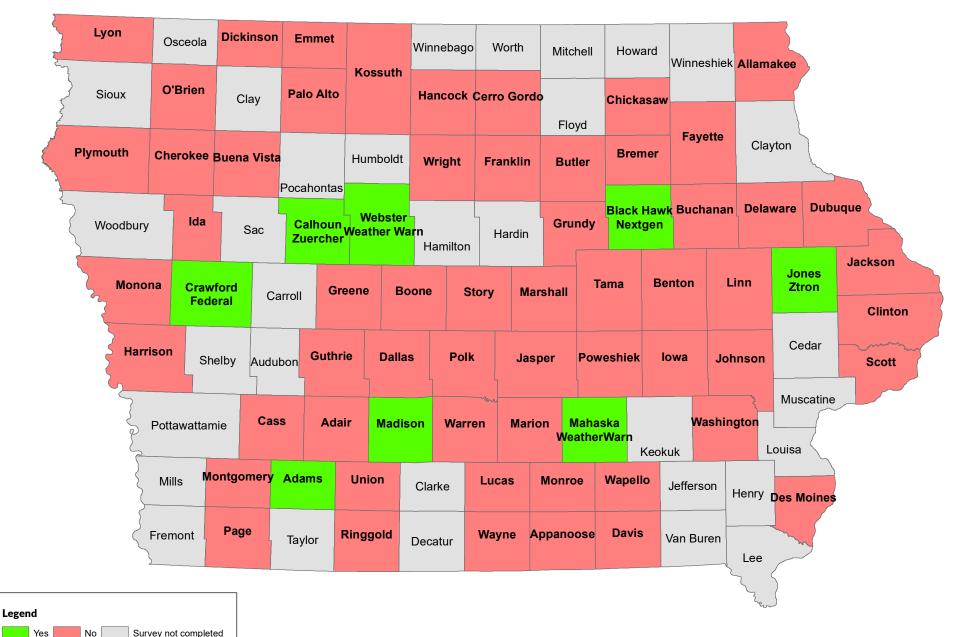
Method of Siren Activation

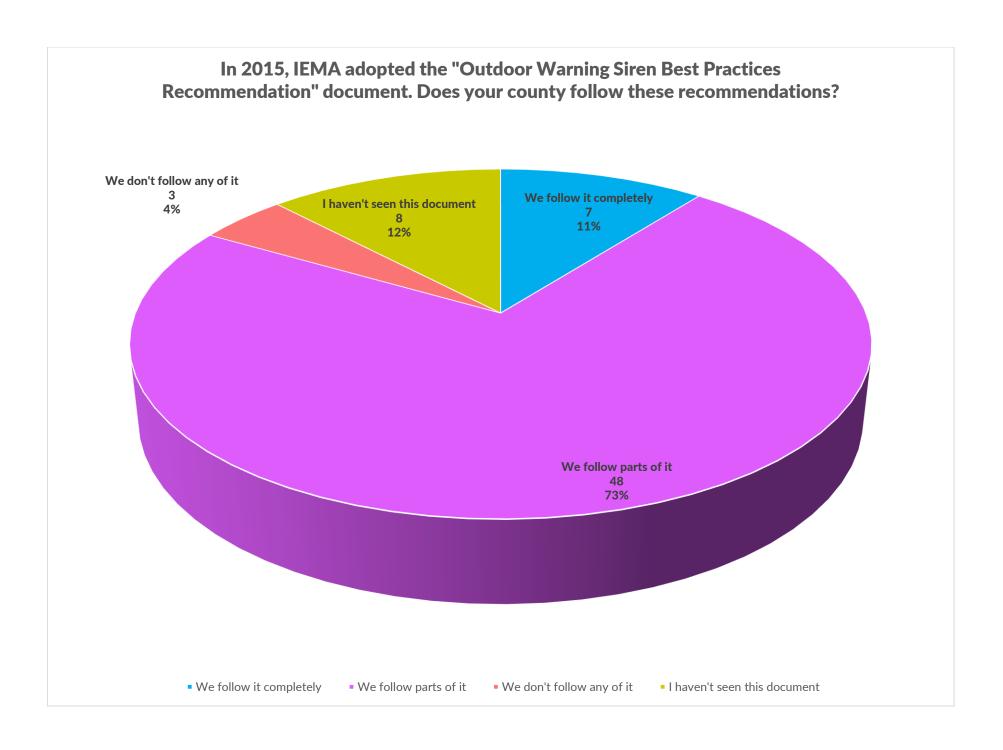




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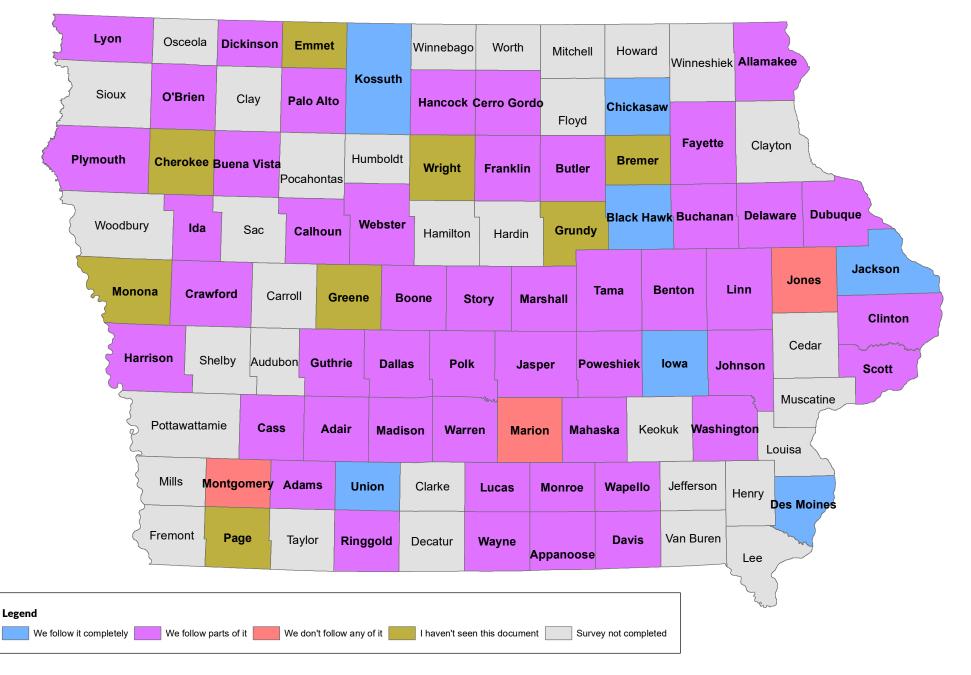
Use of Automatic System/Software

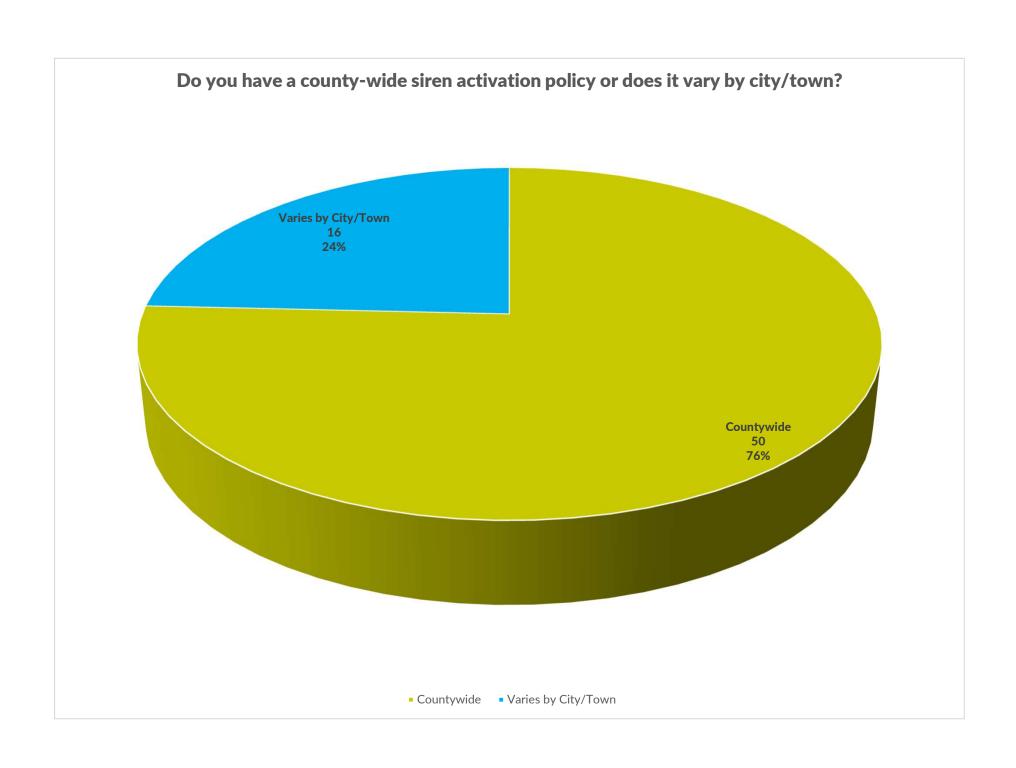






IEMA Best Practices Document for Outdoor Warning Sirens





* EMERGENCY MANAGEMENT

Countywide Siren Activation Policy

