

Preliminary Tornado Data 2021 National Weather Service, Ill.org–Surprising, Hopeful Facts for Affordable Housing Seekers

During affordable housing crisis, preliminary, historic tornado death data-troubling & hopeful facts affordable housing seekers, mobile/manufactured homeowners

POINCIANA, FLORIDA , UNITED STATES, January 16, 2022 /EINPresswire.com/ -- Facts and claims by officials and mainstream media sources yield several surprising insights useful for affordable housing seekers, housing advocates, public officials, conventional housing owners, as well as mobile and manufactured homeowners. PBS

reported on 12.22.2021 that: “the nation [USA] will see more than 3.4 million deaths in 2021.” According to preliminary 2021 data from the National Weather Service (NWS) said that only about 100 people died in “killer” tornadoes. This should be headline news, and it is in a new

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The tornado of May 22, 2011 destroyed nearly 7,000 Joplin homes" "no significant death toll difference caused by EF4 and EF5 tornadoes between mobile and permanent home residents.”

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A new report on MHProNews examines the facts and evidence that reveals a mix of troubling as well as good news.

report on Manufactured Home Pro News (MHProNews). A new article assembles and examines the preliminary data that includes a frank look at reports that examined the tragic killer storms that hit Kentucky and other midwestern states. Per the NOAA/NWS latest data, only 9 of roughly 100 deaths occurred in a mobile or manufactured home.

That’s important news for affordable housing seekers, sincere and objective housing advocates, or mobile and manufactured homeowners. It is also a reminder to those in commercial buildings and conventional ‘site built’ housing that only FEMA designated tornado shelters are considered safe during a killer tornado or other intense windstorm event.

The data may surprise millions. Someone is statistically more likely to die by lightening in 2021 than those who died in a mobile or manufactured home hit by a tornado. Per TampaBay, "There were 11 U.S. deaths in 2021 [from lethal lightning strikes], compared to a 15-year average of 36."

Preliminary National Weather Service (NWS), Insurance Information Institute (III.org) data by month are shown in one of the illustrations/graphics.

To frame this safety issue, it is useful to compare the high death tolls from other causes, to the minimal apparent risk that the data reveals for those living in a mobile or manufactured home from a killer tornado event.

According to the CDC's (Centers for Disease Control and Prevention) National Center for Health Statistics the following are the top ten causes of death in 2020.

- Number of deaths for leading causes of death
- Heart disease: 696,962
- Cancer: 602,350
- COVID-19: 350,831
- Accidents (unintentional injuries): 200,955
- Stroke (cerebrovascular diseases): 160,264
- Chronic lower respiratory diseases: 152,657
- Alzheimer's disease: 134,242
- Diabetes: 102,188
- Influenza and pneumonia: 53,544
- Nephritis, nephrotic syndrome, and nephrosis: 52,547

Source: Mortality in the United States, 2020. CDC said: "page last reviewed: January 13, 2022." The CDC is part of the U.S. Department of Health & Human Services (HHS).

Storm Prediction Center

DATE	TIME	COUNTY	STATE	DEATHS	A	B	C	D	EF	LOCATION
01 JUN 15	2247	JEFFERSON	MO	1	1	1	1	1	1	JEFFERSON
02 FEB 15	2240	BERNARDINE	NC	3	1	1	1	1	1	BERNARDINE
03 MAR 15	1540	CLATSOP	OR	6	4	1	1	1	1	CLATSOP
04 MAR 17	1840	PANOLA	TX	1	1	1	1	1	1	PANOLA
05 APR 18	0118	ST LOUIS	LA	1	1	1	1	1	1	ST LOUIS
06 APR 18	1535	INDIANWELL	GA	1	1	1	1	1	1	INDIANWELL
07 OCT 17	1910	WACONIA	MO	1	1	1	1	1	1	WACONIA
08 DEC 18	1940	INDIANWELL	GA	1	1	1	1	1	1	INDIANWELL
09 DEC 18	1915	ST OWENS	MO	1	1	1	1	1	1	ST OWENS
10 DEC 18	2020	MADISON	IL	6	6	1	1	1	1	MADISON
11 DEC 18	0908	GREENE	KY	2	2	1	1	1	1	GREENE
12 DEC 11	0510	WARTON	KY	10	10	1	1	1	1	WARTON
12 DEC 11	0510	TYLER	KY	1	1	1	1	1	1	TYLER

Fujita Scale For Tornadoes

Category	Damage	Original F scale (F)	Revised F scale (F)
F-0	Light	40-75	65-85
F-1	Moderate	75-112	85-110
F-2	Considerable	113-157	111-135
F-3	Severe	158-207	136-165
F-4	Devastating	208-260	166-200
F-5	Unfathomable	261-318	201-250

Tornadoes And Related Deaths In The United States, 2001-2020

Year	Tornadoes	Deaths	Year	Tornadoes	Deaths
2001	1,276	40	2011	1,639	553
2002	941	55	2012	938	70
2003	1,076	54	2013	916	55
2004	1,029	36	2014	816	67
2005	1,264	38	2015	1,177	36
2006	1,103	67	2016	976	31
2007	1,098	81	2017	1,429	35
2008	1,692	126	2018	1,126	10
2009	1,156	21	2019	1,517	42
2020	1,075	45	2021	1,254	11

2021 Tornadoes: From January 1 to December 14, 2021, there were 1,254 tornadoes in the United States, compared with 1,075 in all of 2020, according to preliminary data from the National Oceanic and Atmospheric Administration (NOAA). Tornadoes killed over 100 people in 2021, including about 90 in the December 10 series of tornadoes. In 2020, 76 people perished in tornadoes.

On the evening of December 10, 2021, a powerful low-pressure system that lifted from the Southern Plains into the Great Lakes and fueled by record-setting warm temperatures and a La Niña weather pattern spawned about 35 tornadoes across six states and killed about 90 people. Hardest hit was Kentucky, where about 75 people were killed and 26,000 homes and businesses were without power, and more than 1,000 homes were destroyed. In addition, six people were killed in Illinois, four in Tennessee, two in Alabama, and two in Missouri. Although loss estimates will take weeks to tally, insured losses will rank among the top 10 costliest U.S. catastrophes involving tornadoes. According to an [Angene survey](#) of about 1,000 insurance and related companies, the majority of respondents (37 percent) estimate the tornadoes will cost \$2.5 billion in insured losses, but about a quarter estimated the losses at \$5 billion to \$7.5 billion and over \$7.5 billion, respectively. The costliest catastrophe involving tornadoes occurred in April 2011, when a spate of twisters in Tuscaloosa, Alabama, and 12 other states, causing \$8.5 billion in insured losses in 2020 dollars. The deadliest event in the 2000s was the May 2011 Joplin, Missouri event that [took 158 lives](#).

2020 Tornadoes: In 2020 there were 1,075 tornadoes compared with 1,517 in 2019, which was the highest annual total since 2011, when there were 1,691 tornadoes, according to NOAA. In 2020, 76 people perished in tornadoes compared with 42 in 2019. On April 12 and 13, 2020, [twister outbreaks](#) in tornadoes in Georgia, Mississippi, South Carolina and Tennessee. On March 2 and 3, [20 people were killed](#) in tornadoes in central Tennessee, including the city of Nashville. Tornado deaths in 2020 were the highest since 2011, when 553 people were killed in 1,691 tornadoes.

A new report on MHPNews updates prior videos and reports on MHPNews that includes facts, videos, and expert insights. Properly installed manufactured homes, said HUD Secretary Ben Carson, are 'resilient' in tornadoes and even killer storm events. Who else says? The third-party data, like what is shown.

Note: in several devices, browsers these images can be clicked to open to a larger size. Facts, Figures from the III.org and National Weather Service. Properly installed manufactured homes perform well in severe weather.

Per Ill.org:

- “On the evening of December 10, 2021, a powerful low-pressure system that lifted from the Southern Plains into the Great Lakes and fueled by record-setting warm temperatures and a La Niña weather pattern spawned about 35 tornadoes across six states and killed about 90 people. Hardest hit was Kentucky, where about 75 people were killed and 26,000 homes and businesses were without power, and more than 1,000 homes were destroyed.”

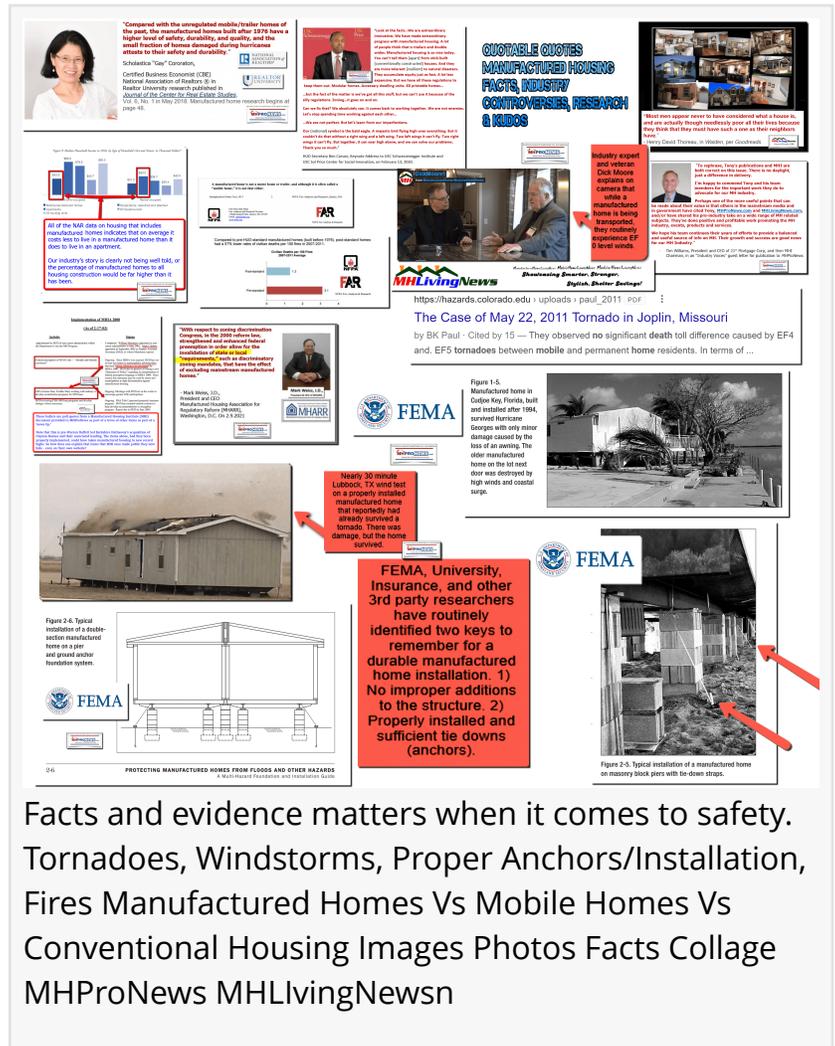
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Those facts arguably provide objective evidence to the success of the HUD Code manufactured housing program creating durable, safe and affordable housing. Prior HUD [Secretary Ben Carson said in a speech about manufactured housing](#)'s important role in solving the affordable housing crisis said this. “On a recent visit to Alabama, I was shown a site that was demolished by massive tornadoes - and the only homes in the area that successfully weathered the storm were manufactured houses. It was a silent testament to their resilience. It is also possible that HUD's work with industry leaders to update wind Standards for manufactured housing in 1994 could have helped to limit damage and potentially save lives.”

The [Manufactured Housing Improvement Act of 2000 \(MHIA\)](#), which a bipartisan Congress established consumer safeguards, the so-called federal “enhanced preemption” over local zoning barriers, included new installation mandates. Those MHIA installation standards - per HUD, Carson, and other third-party sources - have yielded safer modern manufactured homes.

But for those who don't have a post-MHIA manufactured home, the evidence in the video below



“Compared with the unreinforced mobile trailer homes of the past, the manufactured homes built after 1976 have a safety, durability, and quality, and the small fraction of homes damaged during hurricanes tends to be safe and durable.”
Scheidecker “Case” Corcoran, Certified Business Economist (CBE) National Association of Realtors® in Realtor University research published in HUD’s HUD Code for Manufactured Housing, 1976-1978. In “HUD Code for Manufactured Housing” on page 16.

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Figure 1-5. Manufactured home in Cedar Key, Florida, built and installed after 1994, survived Hurricane Georges with only minor damage caused by the loss of its awning. The older manufactured home on the left next door was destroyed by high winds and coastal surge.

Figure 2-6. Typical installation of a deconstruction manufacturer home on a pier and ground anchor foundation system.

Figure 2-5. Typical installation of a manufactured home on masonry block piers with tie-down straps.

Nearly 30 mobile homes in Louisiana, TX, and lost to a properly installed manufactured home that reportedly had already survived a tornado. There was damage, but the home survived.

FEMA, University, Insurance, and other 3rd party researchers have routinely identified two keys to remember for a durable manufactured home installation. 1) No improper additions to the structure. 2) Properly installed and sufficient tie downs (anchors).

QUOTABLE QUOTES MANUFACTURED HOUSING FACTS, INDUSTRY CONTROVERSIES, RESEARCH & RIDDOS

Industry expert and veteran Dick Moore explains on camera that while a manufactured home is being transported, they routinely experience EF 1 level winds.

The Case of May 22, 2011 Tornado in Joplin, Missouri by BK Paul - Cited by 15 — They observed no significant death toll difference caused by EF4 and EF5 tornadoes between mobile and permanent home residents. In terms of ...

https://hazards.colorado.edu/uploads/paul_2011.pdf

Figure 1-5. Manufactured home in Cedar Key, Florida, built and installed after 1994, survived Hurricane Georges with only minor damage caused by the loss of its awning. The older manufactured home on the left next door was destroyed by high winds and coastal surge.

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suggests that adding proper tie-downs can prove to be lifesaving safeguards in mobile homes and manufactured housing. According to an official examining the Stamping Ground, KY tornado destruction, it was only mobile/manufactured homes that had few or no tie downs that were moved off their foundation. Thankfully, no one died in those storms.

That's reminds mobile/manufactured homeowners who need them to add properly installed anchors.

A source associated with the Manufactured Housing Association for Regulatory Reform (MHARR) told MHPProNews that the public should understand that a manufactured home is engineered.

While some topics are controversial - example: tornado facts/evidence - third-parties indicate MHPProNews is a magnet for public officials, affordable housing advocates, manufactured housing professionals, investors, educators, the public, and others.

Howard Walker, longtime Manufactured Housing Institute executive committee member, said: "The emergence of Tony Kovach's group of publications has brought a new standard to the [manufactured home] industry. The thorough and unbiased reporting fills a vacuum that has existed for too long."

[MHPProNews/MHLivingNews has been cited](#) by:

- Consumer Financial Professional Bureau (CFPB)
- National Association of Realtors/nonprofits
- University-level research
- FHFA
- Mainstream media.

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