



ENGINEERED ROOFING PRECISION



STORM HISTORY REPORT

1428 Maple Ridge Dr, Demo, MO

Resolved to 38.60707, -90.37755 · US Census Bureau geocoder (Public_AR_Current)
Compiled 2026-09-10 · Storm history compiled from every day with a logged hail, wind or tornado report in the region between 2021-09-10 and 2026-09-10, radar-sampled at this address (276 storm days on record).



Street-level view of the property



Satellite view — roof and parcel

No hail of 1.00" or greater was recorded at this address within the past 12 months. The most recent recorded event was **2025-05-20** at **1.02"** (1.9 J per stone).

Over the same 5-year window this address has 5 qualifying wind events and 1 tornado damage corridor crossing this address. Wind and tornado findings are detailed below.

Based on this storm history, an on-site inspection of this roof is warranted. Call (314) 501-6988 to schedule your free inspection.

STORM HISTORY AT THIS ADDRESS — 5-YEAR TIMELINE

Date	Peril	Magnitude at this address	Published band / inspection note	Public storm record
2026-06-21	Tornado	0.16 mi from track centerline	Address inside the mapped damage corridor — inspection recommended	SPC Storm Reports 2026-06-21
2026-03-15	Wind	Damage confirmed (no measured gust at this point)	Seal-bond inspection recommended	SPC Storm Reports 2026-03-15
— events older than 12 months below —				

Date	Peril	Magnitude at this address	Published band / inspection note	Public storm record
2025-05-20	Hail	1.02" size 1.9 J per stone · energy	Onset of functional damage	SPC Storm Reports 2025-05-20
2024-07-08	Wind	Damage confirmed (no measured gust at this point)	Seal-bond inspection recommended	SPC Storm Reports 2024-07-08
2024-05-26	Hail	1.39" size 6.5 J per stone · energy	Functional damage probable	SPC Storm Reports 2024-05-26
2024-04-18	Wind	Damage confirmed (no measured gust at this point)	Seal-bond inspection recommended	SPC Storm Reports 2024-04-18
2023-06-30	Wind	Damage confirmed (no measured gust at this point)	Seal-bond inspection recommended	SPC Storm Reports 2023-06-30
2023-04-15	Wind	Damage confirmed (no measured gust at this point)	Seal-bond inspection recommended	SPC Storm Reports 2023-04-15

Hail size and impact energy are reported separately and are never combined into a single score. Size describes what kind of impact occurred; energy describes how hard it struck. Which of the two matters depends on the roof system — a high-energy 1" stone can strip granules from an asphalt shingle and leave little trace on metal or TPO. Wind speed is shown only where an anemometer measured it.

28 further hail days affected this address in the 5-year window, all below 1.00" (largest 0.76"). Hail below 1.00" is not listed individually: it sits under the published functional-damage threshold for asphalt shingles, so listing each day would add volume, not evidence.

19 additional hail damage reports were logged 1.0–13.8 mi from this address over the window; none had mapped hail damage at this address.

57 additional wind damage reports were logged 0.9–14.7 mi from this address over the window; none had mapped wind damage at this address.

8 additional tornado damage reports were logged 1.7–11.9 mi from this address over the window; none had mapped tornado damage at this address.

On 14 further dates, our radar-mapped wind damage corridors passed 1.5–12.5 mi from this address without covering it (radar-derived, not a filed damage report).

On 12 further dates, our radar-mapped tornado damage corridors passed 0.0–14.2 mi from this address without covering it (radar-derived, not a filed damage report).

A row is listed only where there is evidence at this address itself — hail size at the radar cell, or the address inside a mapped wind or tornado corridor. Nearby reports without damage mapped to this address are summarised above, not listed as events. Every date is anchored to the public NWS/SPC storm record.

PERIL DETAIL

WIND — seal-bond integrity

Date	Mapped wind evidence at this address	Public storm record
2026-03-15	This address is inside the mapped wind damage corridor (no measured gust recorded at this point)	SPC Storm Reports 2026-03-15
2024-07-08	This address is inside the mapped wind damage corridor (no measured gust recorded at this point)	SPC Storm Reports 2024-07-08
2024-04-18	This address is inside the mapped wind damage corridor (no measured gust recorded at this point)	SPC Storm Reports 2024-04-18
2023-06-30	This address is inside the mapped wind damage corridor (no measured gust recorded at this point)	SPC Storm Reports 2023-06-30
2023-04-15	This address is inside the mapped wind damage corridor (no measured gust recorded at this point)	SPC Storm Reports 2023-04-15

Wind of this strength can break shingle seal bonds without visible damage — a seal inspection is recommended.

This applies to every wind event listed above. A broken seal bond leaves no mark visible from the ground, so each of these dates is a reason to inspect the seal — not a conclusion that damage exists. Where no anemometer reading exists at this location, we report the confirmed damage evidence rather than estimate a wind speed.

TORNADO — inside the mapped damage corridor

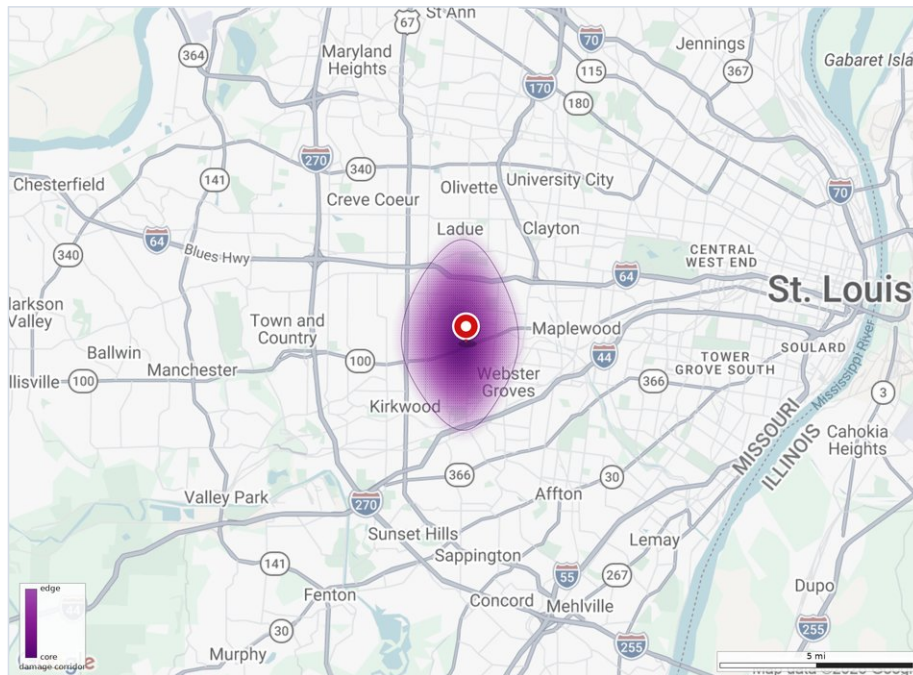
Date	Distance from track centerline (mi)	Public storm record
2026-06-21	0.16 mi	SPC Storm Reports 2026-06-21

This address fell inside a mapped tornado damage corridor on the date(s) above. Corridor proximity is not itself a finding of damage; it is a reason to inspect.

STORM SWATH MAPS — THIS ADDRESS INSIDE THE MAPPED EVENT

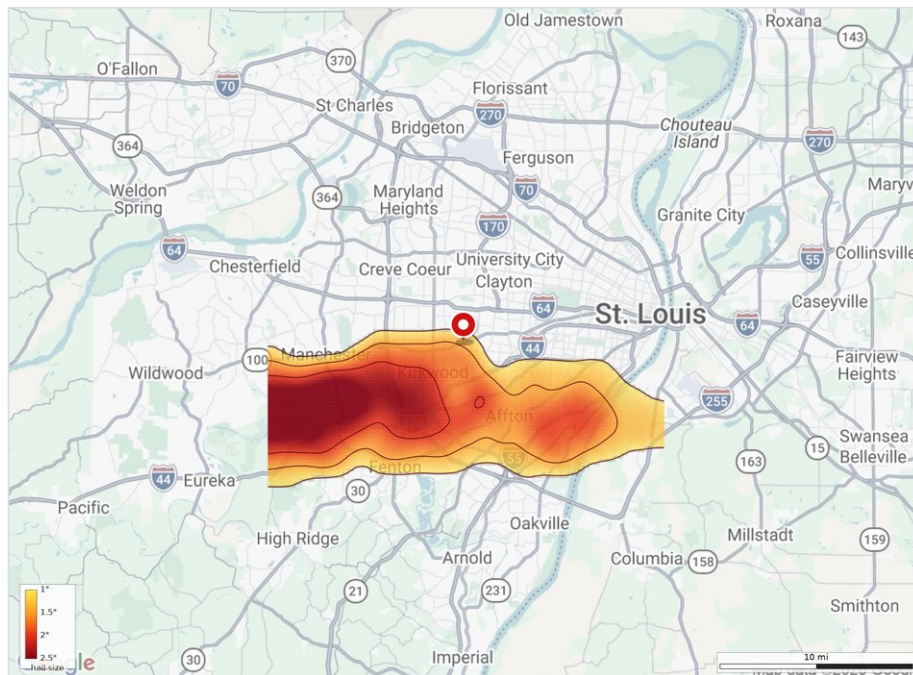
Each map places a red pin on this address and shades the storm swath our engine mapped for that date. Where the pin sits inside the shaded area, this address fell within the mapped footprint of that event.

Tornado corridor — 2026-06-21



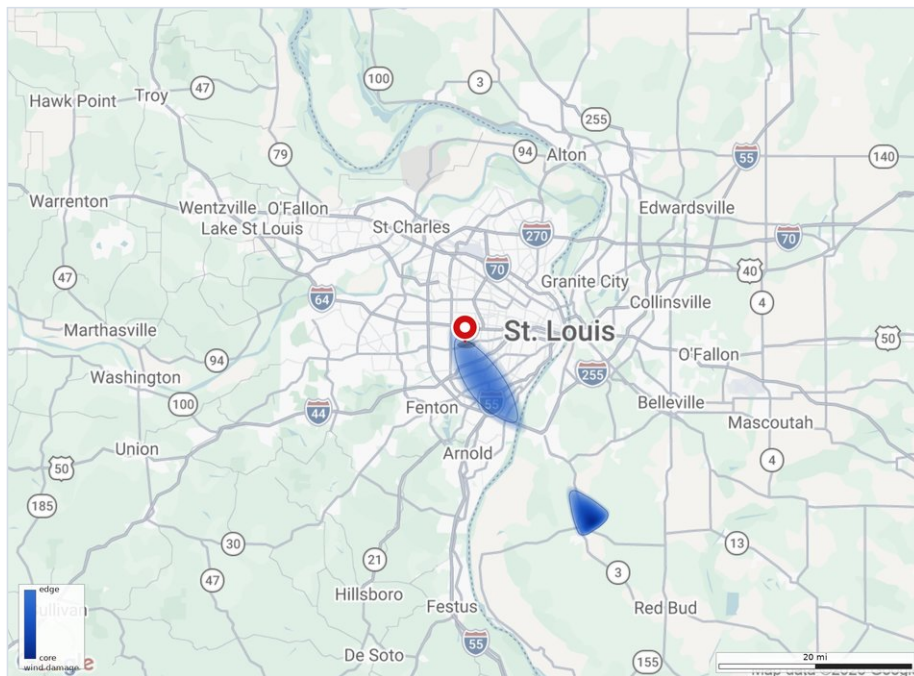
Red pin: this address. Shaded: the mapped tornado damage corridor — the debris track, buffered to width for 2026-06-21. Schematic swath render.

Hail swath — 2024-05-26



Red pin: this address. Shaded: the MESH $\geq 1.00''$ radar swath (the estimated hail footprint) for 2024-05-26. Schematic swath render.

Wind damage area — 2026-03-15



Red pin: this address. Shaded: the mapped wind damage area (our engine's damage model for this corridor, not a radar outline of the wind) for 2026-03-15. Schematic swath render.

METHODOLOGY, CITATIONS AND LIMITATIONS

How the readings are produced

Hail size at the property is taken from calibrated NOAA MRMS/MESH radar. From that size, the per-stone impact energy is derived using established hail-impact physics — stone mass from size and the density of ice, and impact velocity from standard aerodynamics. Both the size and the impact energy are then placed against published functional-damage thresholds for asphalt shingles. The specific calibration and internal coefficients used to produce these figures are proprietary to Kosarek Construction Company.

Damage thresholds

Haag Engineering — hail impact studies on asphalt shingles; IBHS — impact-resistance testing of roof coverings; Marshall et al. / RICOWI — post-storm field damage investigations; Koontz — granule embedment and mat-fracture work.

Limitations

MESH is a radar-derived **estimate**, not a measured ground truth; it is reported as such throughout. Spotter reports are sparse and depend on someone being present to observe — their absence is never treated as evidence that no hail fell. Wind speeds are printed only where an anemometer measured them; where only damage was confirmed, no speed is estimated. Damage bands are published literature ranges for asphalt shingles and are not a substitute for a physical inspection. This document reports the storm history at a location. It does not inspect a roof, does not determine whether damage exists, and does not value a loss.

What this document is

This is an educational storm-history summary prepared by a licensed roofing contractor to help a property owner understand what weather their roof has been exposed to, and whether an inspection is warranted. Kosarek Construction Company is a roofing contractor. We are not public adjusters, we do not adjust or negotiate insurance claims, and nothing here advises you on an insurance claim or its value. If you would like the roof itself looked at, call **(314) 501-6988**.

If you choose to pursue an insurance claim, you may present documentation to your insurer yourself, or engage an attorney or a Missouri-licensed public adjuster to represent you. Kosarek Construction Company does not represent or negotiate insurance claims on behalf of property owners (RSMo § 407.725).