

HAILDATAHUB

PRESIDENTIAL INTELLIGENCE BRIEF

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Yearly Composite Brief

2025 Full Year vs 2026 YTD

Hail size tiers 1.25" / 1.50" / 1.75" / 2.00"+ · Tornado report areas

STAMP: Sep 2026 partial YTD · through 2026-09-12

YEARLY COMPOSITE BRIEF

September 13, 2026

haildatahub.com

TIER HEADLINES (AND UP) · 2025 FULL / 2026 YTD

4,529 / 4,211

1.25"+

3,401 / 3,262

1.50"+

2,367 / 2,363

1.75"+

1,166 / 1,278

2.00"+

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5	Hail 1.50"+	2025 · 2026 YTD · YoY · states · density
6	Hail 1.75"+	2025 · 2026 YTD · YoY · states · density
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Tip: start with *How to Use These Tools*, then skim the *Executive Summary*, then dive the size tier you care about.

[haildatahub.com](#) · [Live map](#) · [Members unlock more](#)

SECTION A

How to Use These Tools

A simple start · then the charts · then more on the website

Think of HailDataHub like a weather toolbox. This brief is one tool. The Live map on the website is another. Membership unlocks even more.

- 1. Open this brief.** Start here. It shows hail and tornado reports for **2025** (whole year) and **2026 so far** (through Sep 12). Big storms, big picture.
- 2. Read the size steps.** Hail is sorted by size: **1.25"**, **1.50"**, **1.75"**, and **2.00"** and up. Bigger number = bigger hail. Each step counts that size **and everything larger**.
- 3. Look at the maps and boards.** Maps show where reports piled up. State boards show which states had the most. Tornado pages use the same idea for tornado reports.
- 4. Notice what membership unlocks.** Some detail stops early — street pins, deep corridors, and the full **2027** forecast. That is so you know more is waiting.
- 5. Go get the rest.** Open **haildatahub.com**. Watch the Live map. Unlock membership when you want the deeper archive, alerts, and forecast products. Terms live there too.

Simple rule: this book shows the public spine. The website unlocks the rest.

haildatahub.com · [Live map](#) · [Members unlock more](#)

SECTION B

How to Read This Brief

Size-tier legend · tornado framing · what is shown vs what unlocks

Tier	Threshold (hundredths)	Meaning
1.25"+	Size ≥ 125	Half-dollar and larger (and up)
1.50"+	Size ≥ 150	Ping-pong and larger (and up)
1.75"+	Size ≥ 175	Golf-ball class and larger (and up)
2.00"+	Size ≥ 200	Hen-egg / 2-inch and larger (and up)

Counts. Each hail tier is an **and-up** filter on public SPC Local Storm Reports. A 2.00" report also counts in the 1.25" / 1.50" / 1.75" tiers.

Years. 2025 is a full calendar baseline. 2026 is **Sep 2026 partial YTD** through **2026-09-12** — September 2026 is incomplete.

Tornado. Public SPC daily tornado report CSVs — observational Local Storm Reports, **not** a forecast and not a damage certificate.

Rest of 2026. Climatology baseline from real 2025 Oct–Dec counts + public CPC ENSO language only. No invented Oct–Dec 2026 hail pins.

2027. Blank purchase teaser. The forecast guts stay behind membership — this brief deliberately leaves the chart empty.

Membership. State boards and CONUS density are the public spine. Street-level pins, corridor naming, and live alerts unlock on haildatahub.com.

Members unlock deeper size-cut analytics · full forecast available on haildatahub.com

SECTION C

Executive Summary

Size-tier headlines · tornado context · Sep 2026 partial YTD through 2026-09-12

Baseline context (≥1.00")

8,711	8,085	16,796
2025 FULL YEAR ≥1.00" hail LSRs	2026 Sep 2026 partial YTD ≥1.00" hail LSRs	COMBINED ≥1.00" archive

Locked size-tier headlines (and up)

Tier	2025 full	2026 YTD*	Shared Jan–Sep Δ
1.25"+	4,529	4,211	-226
1.50"+	3,401	3,262	-67
1.75"+	2,367	2,363	+50
2.00"+	1,166	1,278	+134

* 2026 YTD through 2026-09-12 (Sep partial). Shared-window Δ compares Jan–Sep months only.

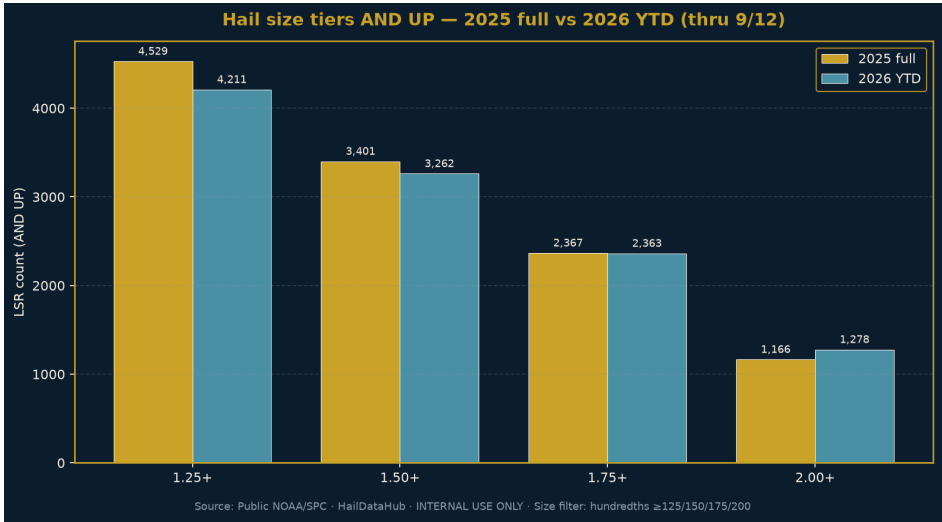


Figure C1. Hail size-tier totals — 2025 full year vs 2026 YTD (and-up thresholds).

Tornado report context (public SPC)

1,741	1,617	SPC
2025 FULL YEAR tornado LSRs	2026 Sep 2026 partial YTD tornado LSRs	Public reports not a forecast

Tornado boards below are observational Local Storm Reports — honest public framing, not a seasonal outlook. Situation. This brief walks each hail size tier (1.25 / 1.50 / 1.75 / 2.00 and up) with 2025 baseline, 2026 YTD, YoY side-by-side, and top-state boards — then tornado report areas — then rest-of-2026 climatology (no invented pins) — then a blank 2027 El Niño purchase frame.

What you will not find here: personal bylines, hard sales chapters, or invented future hail. Membership unlocks street-level pins, named corridors, and the 2027 forecast on haildatahub.com.

The next layer of this brief lives behind membership · haildatahub.com

SECTION D

Hail Tier 1.25"+ — 2025 Baseline

Full calendar · 4,529 reports · max 6.0"

Calendar 2025 logged **4,529** SPC hail LSRs at **1.25" and larger**. Leading state: **TX** (982). This chapter is the full-year baseline against which 2026 YTD is compared.

D1 — Monthly counts 2025

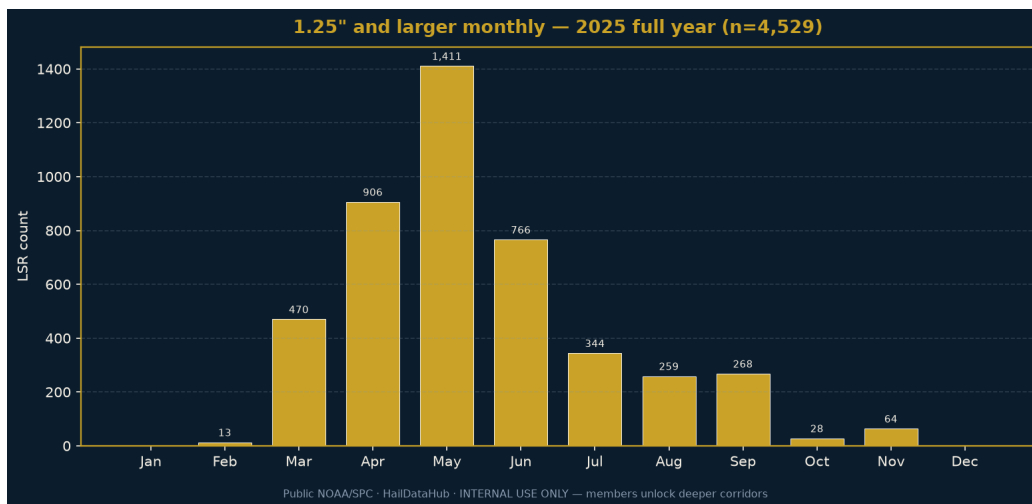


Figure D1. Monthly 1.25"+ hail LSRs — calendar 2025.

D2 — Top states 2025

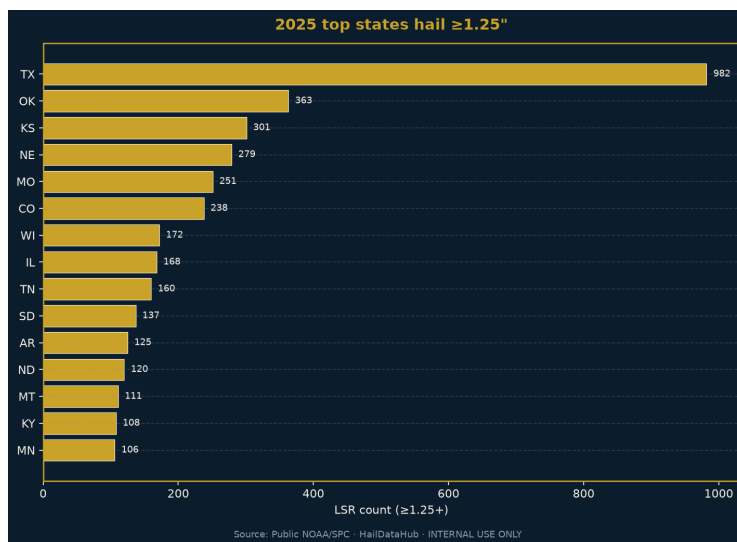


Figure D2. Top states — 1.25"+ — 2025.

Top-10 state board (2025)

Rank	State	1.25"+
1	TX	982
2	OK	363
3	KS	301
4	NE	279
5	MO	251
6	CO	238

7	WI	172
8	IL	168
9	TN	160
10	SD	137

1.25"+ county pins and corridor names unlock with membership

D3 — CONUS density 2025

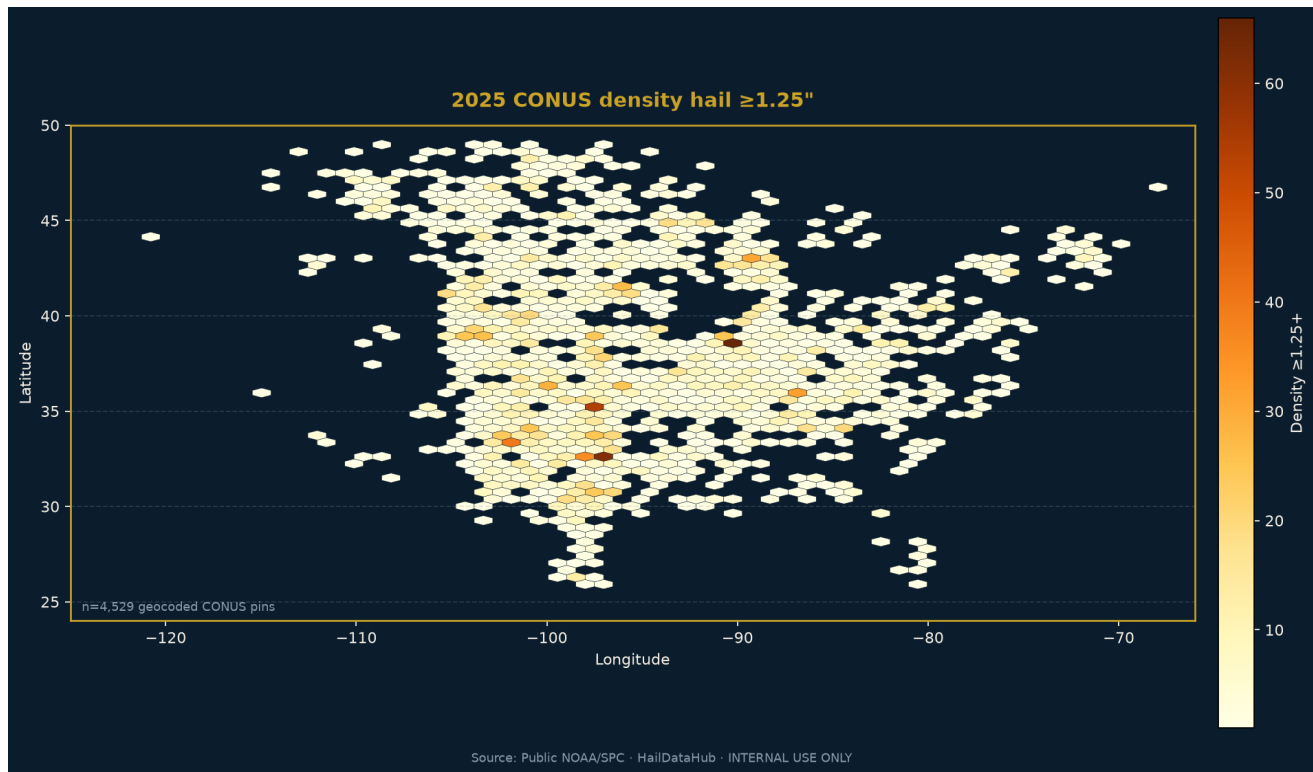


Figure D3. CONUS density — 1.25"+ — 2025. Street-level detail unlocks with membership.

SECTION D · 2026

Hail Tier 1.25"+ — 2026 YTD

Sep 2026 partial YTD through 2026-09-12 · 4,211 reports · max 6.1"

Through **2026-09-12**, 2026 holds **4,211** SPC hail LSRs at **1.25"** and larger. September 2026 is **partial**. Leading state so far: **TX** (457).

D4 — Monthly counts 2026 YTD

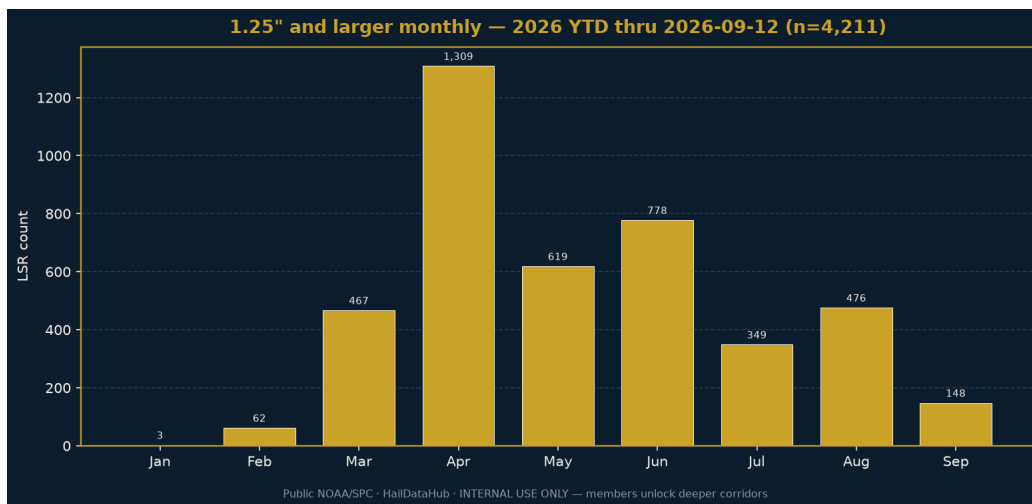


Figure D4. Monthly 1.25"+ — 2026 YTD (Sep partial thru 2026-09-12).

D5 — Top states 2026 YTD

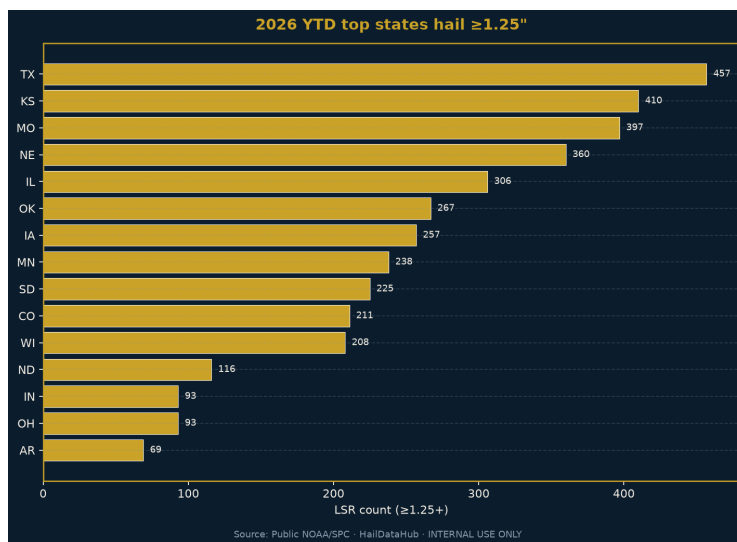


Figure D5. Top states — 1.25"+ — 2026 YTD.

Top-10 state board (2026 YTD)

Rank	State	1.25"+
1	TX	457
2	KS	410
3	MO	397
4	NE	360
5	IL	306
6	OK	267

7	IA	257
8	MN	238
9	SD	225
10	CO	211

D6 — CONUS density 2026 YTD

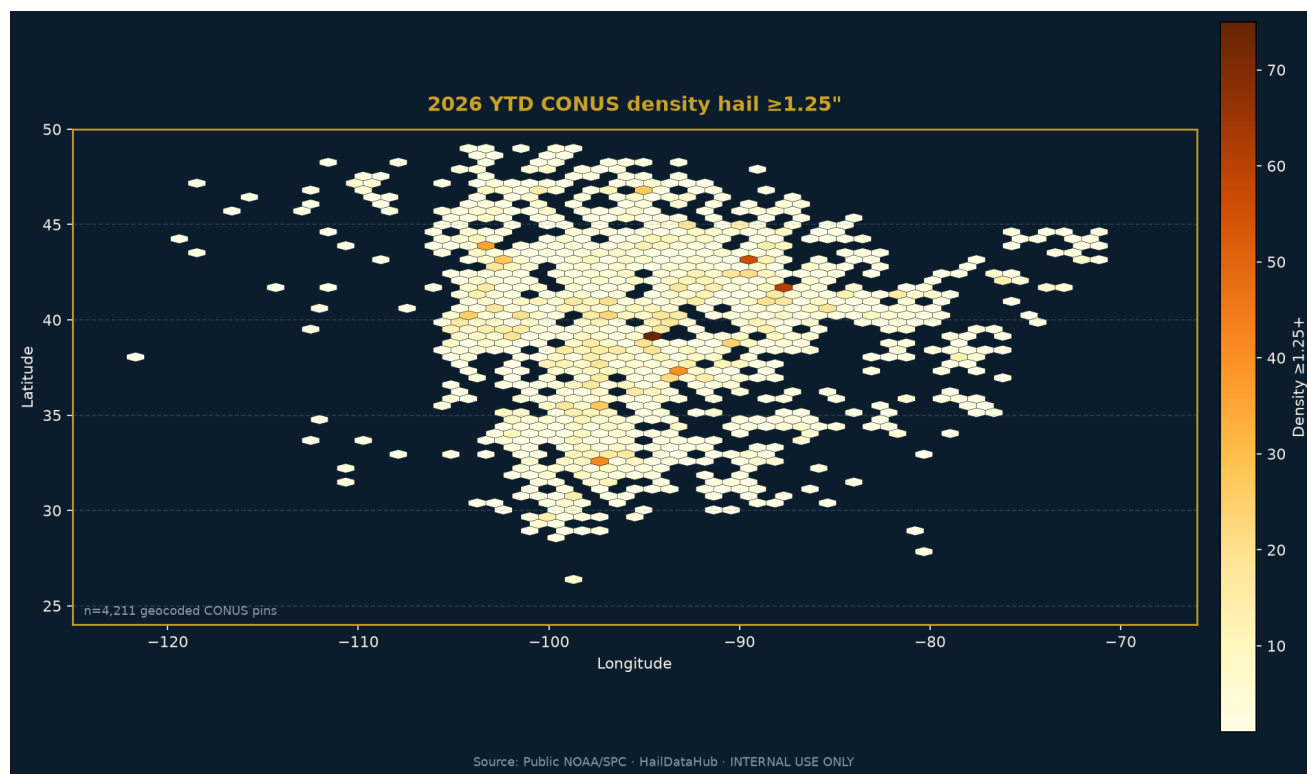


Figure D6. CONUS density — 1.25"+ — 2026 YTD. Live map continuity unlocks with membership.

SECTION D · YoY

Hail Tier 1.25"+ — Year-over-Year

2025 vs 2026 · shared Jan–Sep · 4,437 vs 4,211

Same-window Jan–Sep: **4,437** (2025) vs **4,211** (2026 YTD) — Δ -226. September 2026 remains partial; do not treat Sep as apples-to-apples.

D7 — YoY monthly

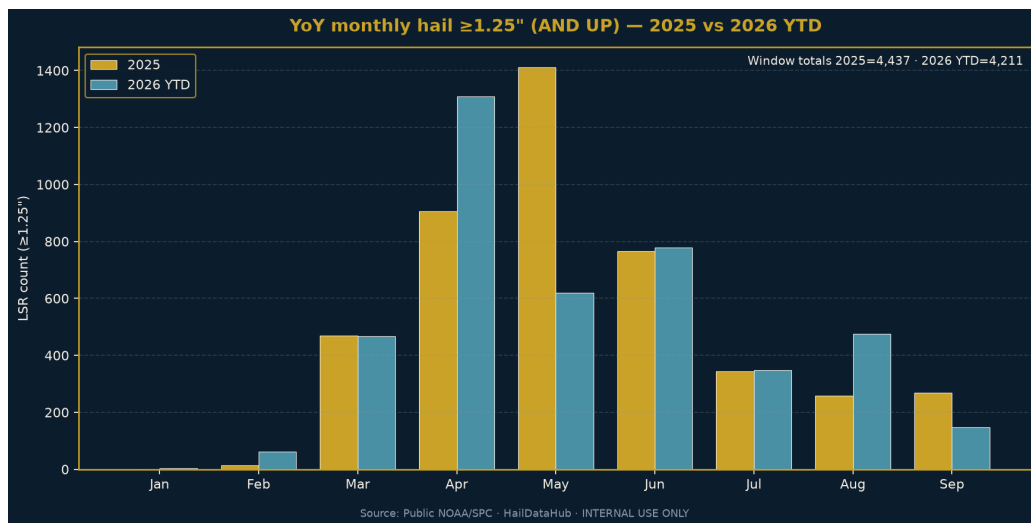


Figure D7. YoY monthly 1.25"+ — 2025 vs 2026 YTD.

D8 — Top states YoY

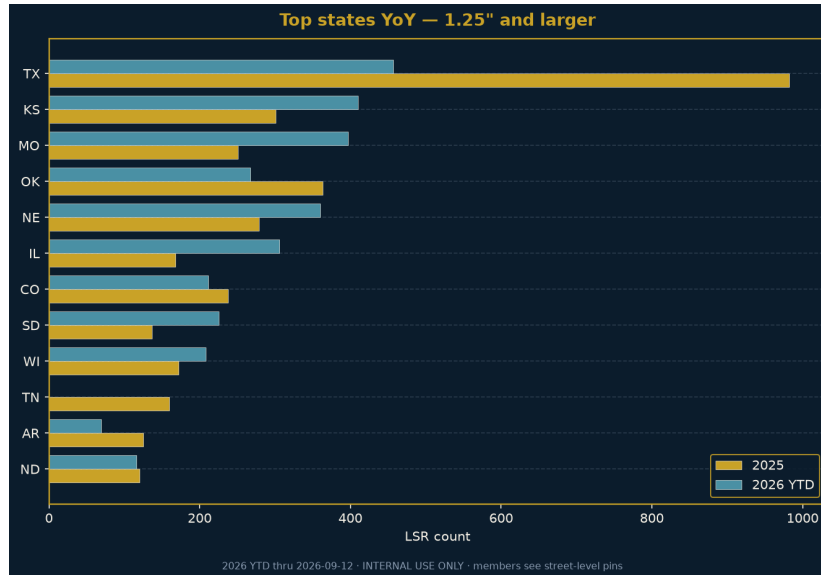


Figure D8. Top-states comparison — 1.25"+.

State comparison board

State	2025	2026 YTD	Δ
TX	982	457	-525
KS	301	410	+109
MO	251	397	+146
OK	363	267	-96
NE	279	360	+81

IL	168	306	+138
IA	0	257	+257
CO	238	211	-27
MN	106	238	+132
SD	137	225	+88

The state board answers where. The deeper question for members: which corridors inside those states carried the 1.25"+ signal — that layer unlocks with membership.

Full forecast + live corridor alerts available on haildatahub.com

SECTION E

Hail Tier 1.50"+ — 2025 Baseline

Full calendar · 3,401 reports · max 6.0"

Calendar 2025 logged **3,401** SPC hail LSRs at **1.50" and larger**. Leading state: **TX (780)**. This chapter is the full-year baseline against which 2026 YTD is compared.

E1 — Monthly counts 2025

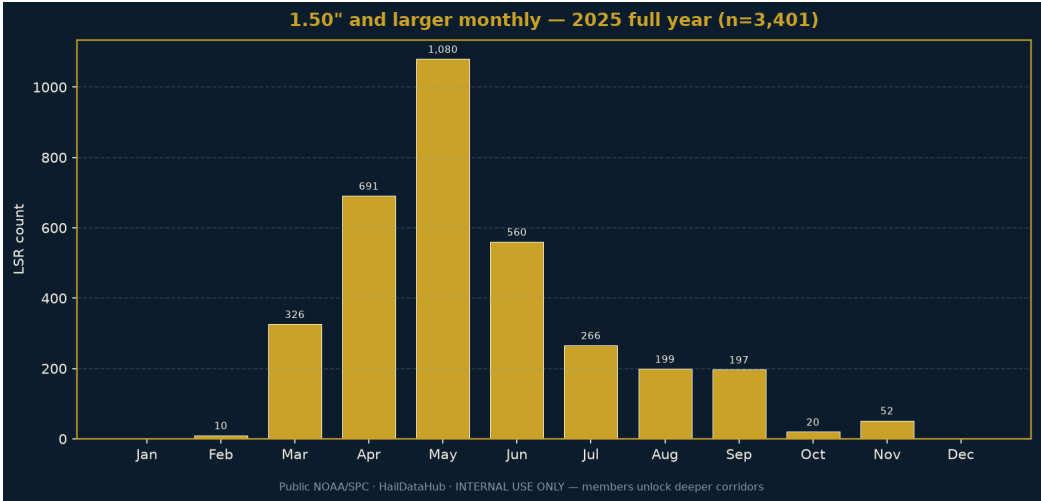


Figure E1. Monthly 1.50"+ hail LSRs — calendar 2025.

E2 — Top states 2025

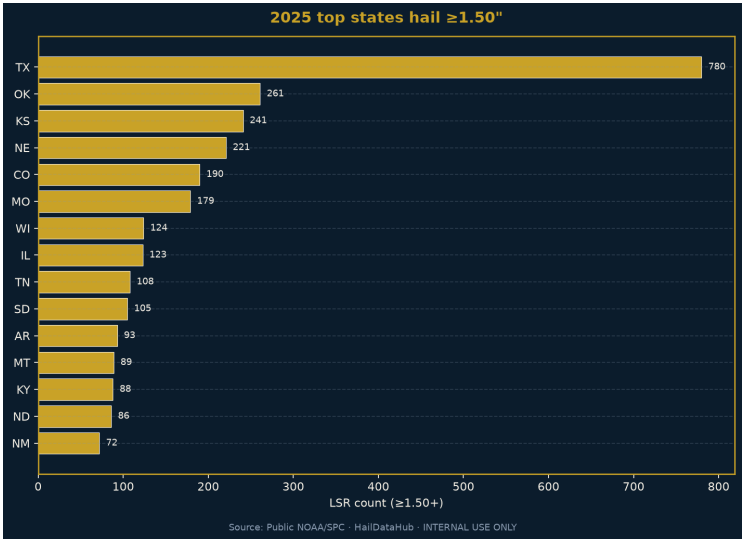


Figure E2. Top states — 1.50"+ — 2025.

Top-10 state board (2025)

Rank	State	1.50"+
1	TX	780
2	OK	261
3	KS	241
4	NE	221
5	CO	190
6	MO	179

7	WI	124
8	IL	123
9	TN	108
10	SD	105

1.50"+ county pins and corridor names unlock with membership

E3 — CONUS density 2025

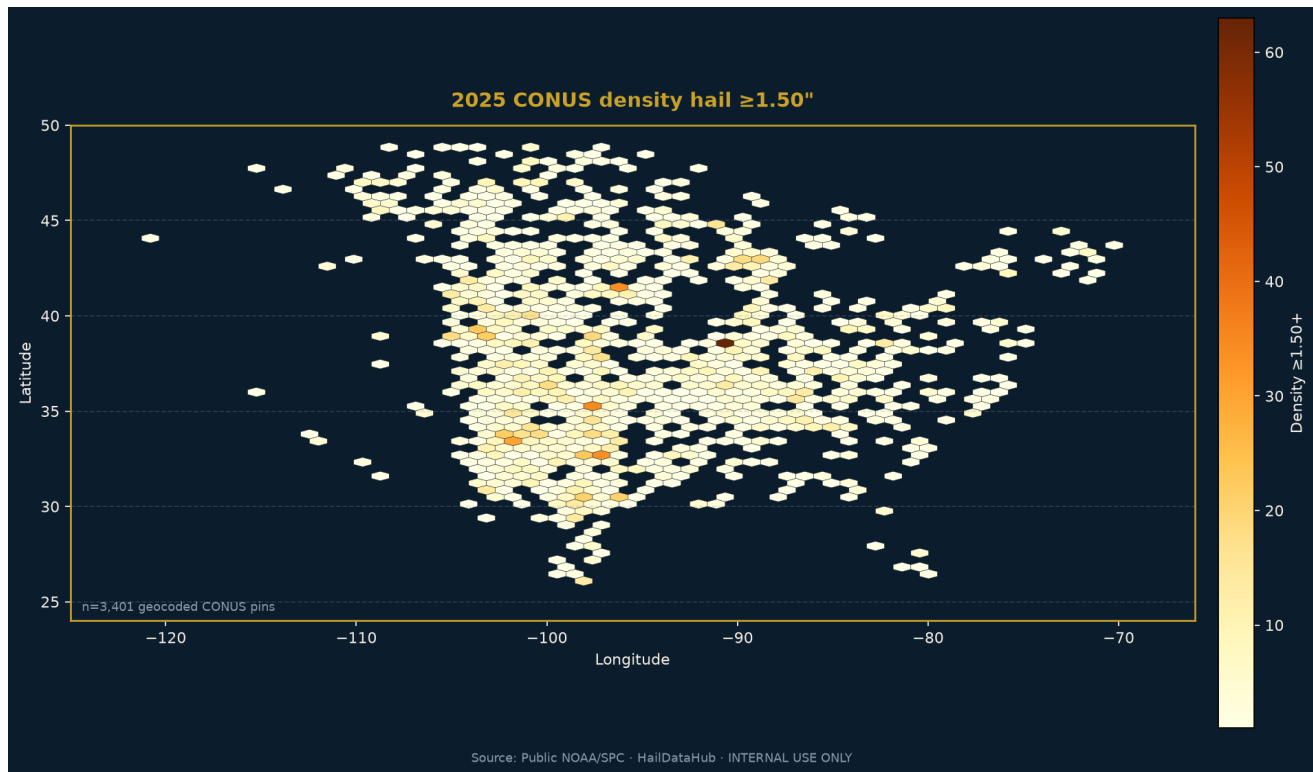


Figure E3. CONUS density — 1.50"+ — 2025. Street-level detail unlocks with membership.

SECTION E · 2026

Hail Tier 1.50"+ — 2026 YTD

Sep 2026 partial YTD through 2026-09-12 · 3,262 reports · max 6.1"

Through **2026-09-12**, 2026 holds **3,262** SPC hail LSRs at **1.50" and larger**. September 2026 is **partial**. Leading state so far: **TX** (380).

E4 — Monthly counts 2026 YTD

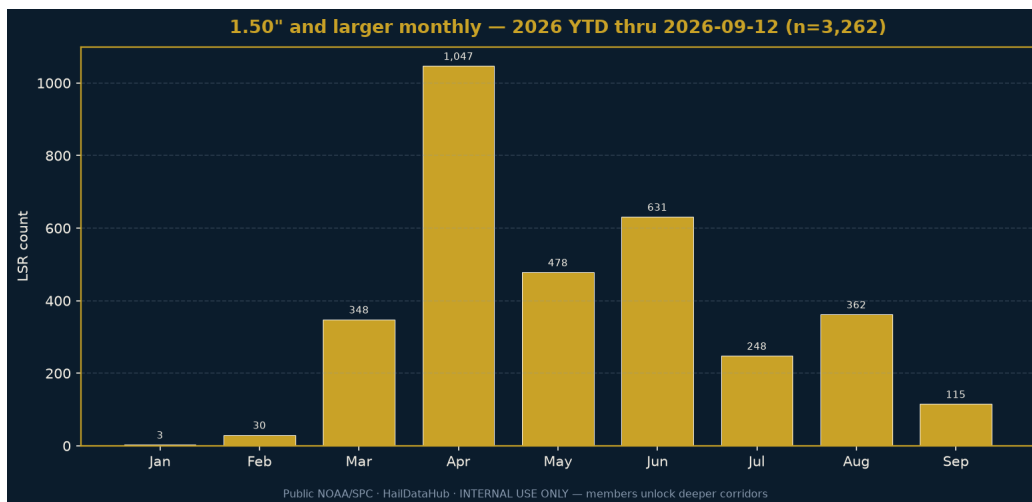


Figure E4. Monthly 1.50"+ — 2026 YTD (Sep partial thru 2026-09-12).

E5 — Top states 2026 YTD

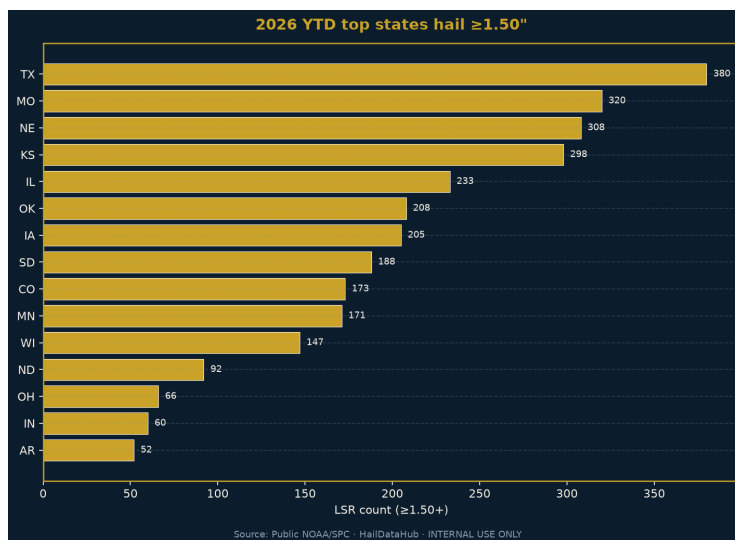


Figure E5. Top states — 1.50"+ — 2026 YTD.

Top-10 state board (2026 YTD)

Rank	State	1.50"+
1	TX	380
2	MO	320
3	NE	308
4	KS	298
5	IL	233
6	OK	208

7	IA	205
8	SD	188
9	CO	173
10	MN	171

E6 — CONUS density 2026 YTD

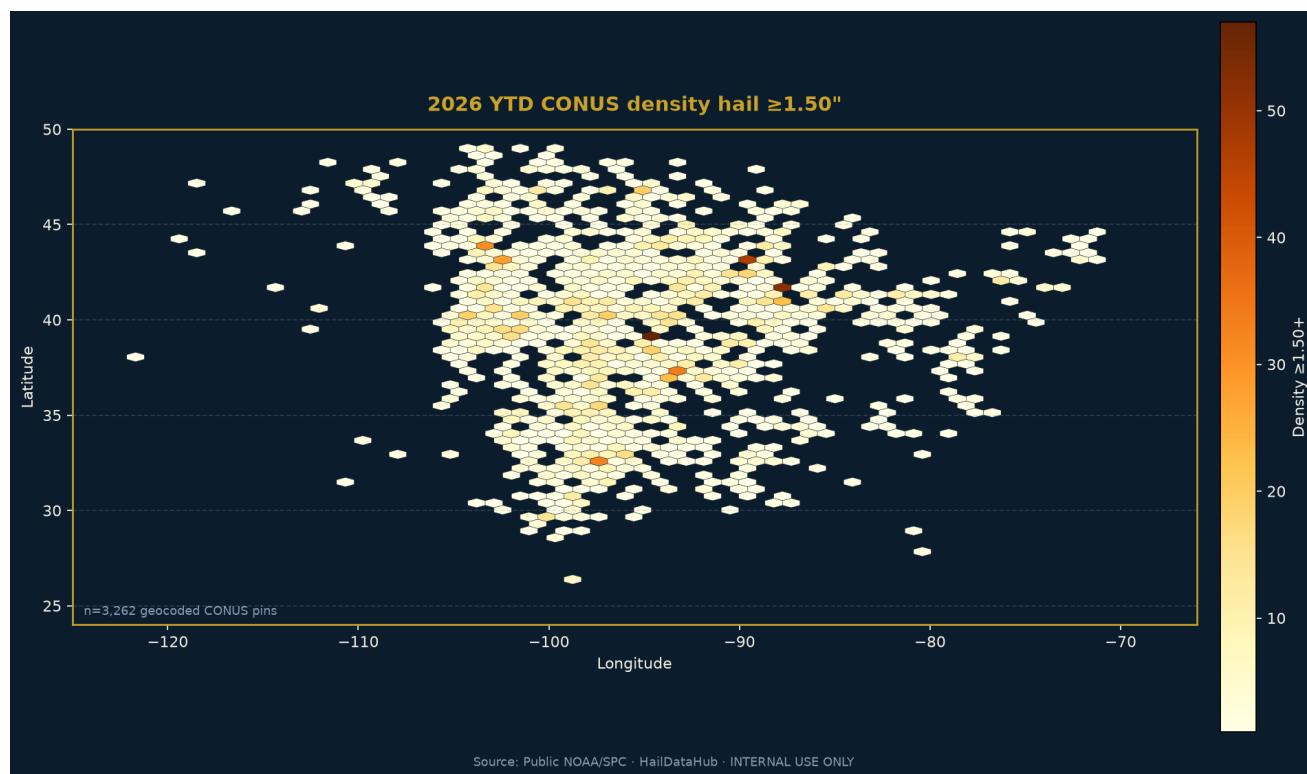


Figure E6. CONUS density — 1.50"+ — 2026 YTD. Live map continuity unlocks with membership.

SECTION E · YoY

Hail Tier 1.50"+ — Year-over-Year

2025 vs 2026 · shared Jan–Sep · 3,329 vs 3,262

Same-window Jan–Sep: **3,329** (2025) vs **3,262** (2026 YTD) — Δ -67. September 2026 remains partial; do not treat Sep as apples-to-apples.

E7 — YoY monthly

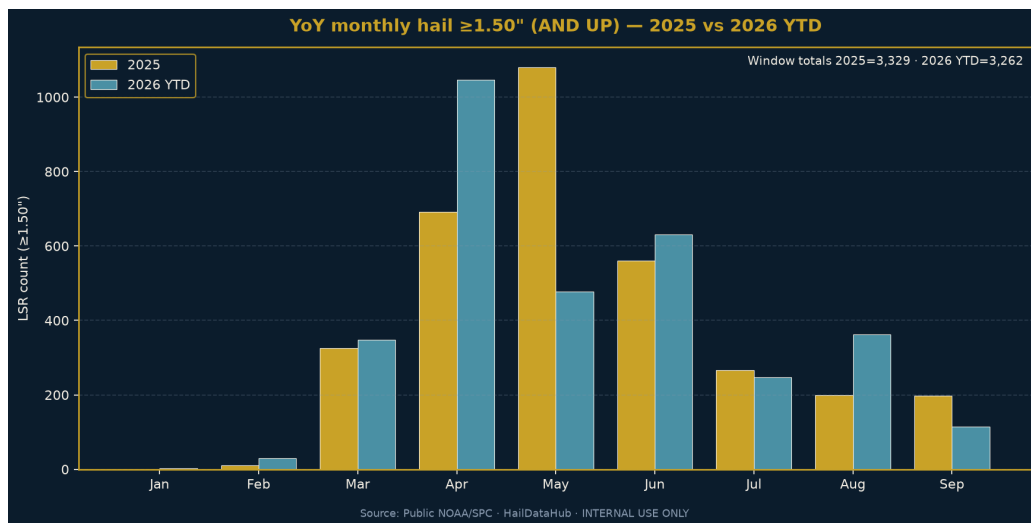


Figure E7. YoY monthly 1.50"+ — 2025 vs 2026 YTD.

E8 — Top states YoY

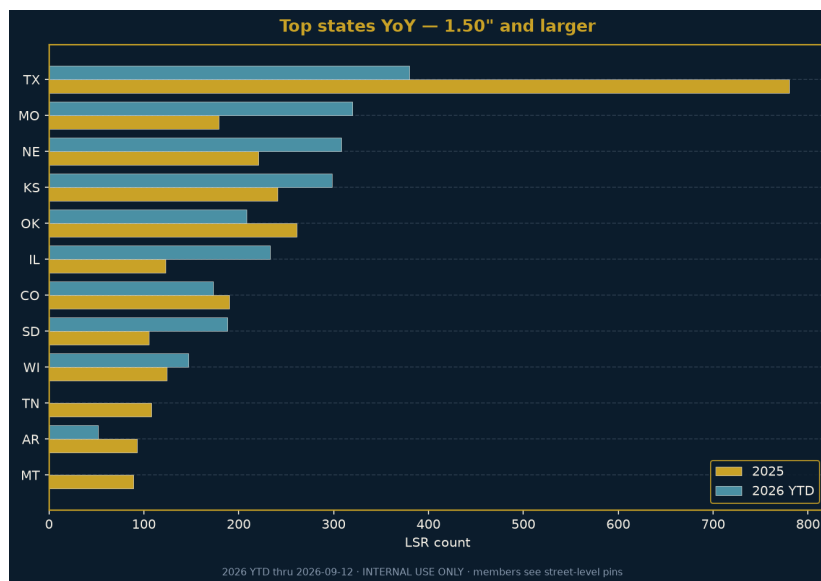


Figure E8. Top-states comparison — 1.50"+.

State comparison board

State	2025	2026 YTD	Δ
TX	780	380	-400
MO	179	320	+141
NE	221	308	+87
KS	241	298	+57
OK	261	208	-53

IL	123	233	+110
IA	0	205	+205
CO	190	173	-17
SD	105	188	+83
MN	0	171	+171

The state board answers where. The deeper question for members: which corridors inside those states carried the 1.50"+ signal — that layer unlocks with membership.

Full forecast + live corridor alerts available on haildatahub.com

SECTION F

Hail Tier 1.75"+ — 2025 Baseline

Full calendar · 2,367 reports · max 6.0"

Calendar 2025 logged **2,367** SPC hail LSRs at **1.75" and larger**. Leading state: **TX** (571). This chapter is the full-year baseline against which 2026 YTD is compared.

F1 — Monthly counts 2025

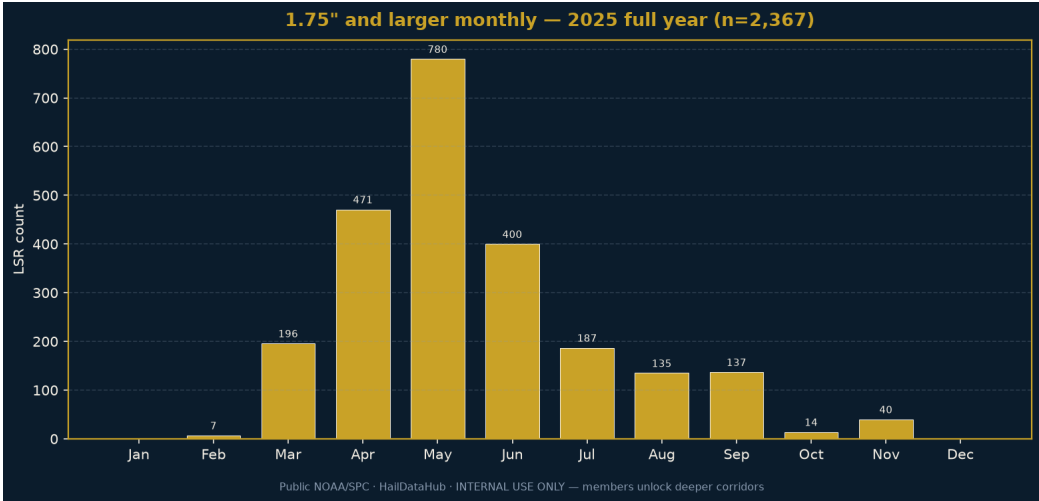


Figure F1. Monthly 1.75"+ hail LSRs — calendar 2025.

F2 — Top states 2025

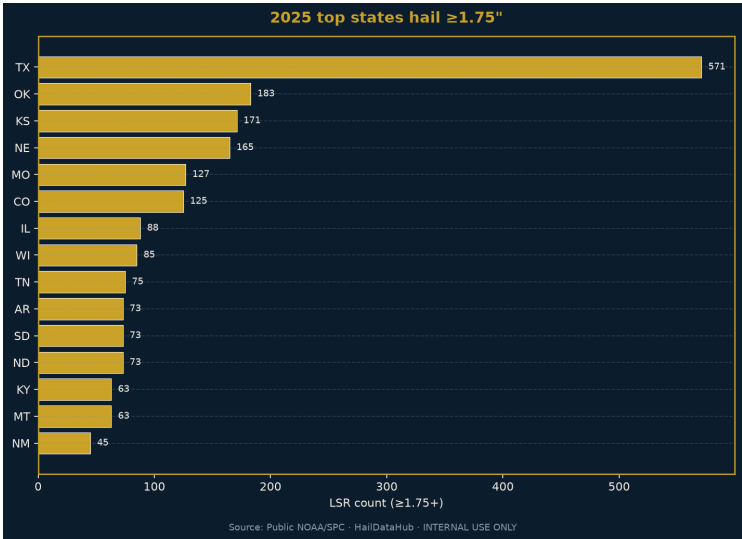


Figure F2. Top states — 1.75"+ — 2025.

Top-10 state board (2025)

Rank	State	1.75"+
1	TX	571
2	OK	183
3	KS	171
4	NE	165
5	MO	127
6	CO	125

7	IL	88
8	WI	85
9	TN	75
10	AR	73

1.75"+ county pins and corridor names unlock with membership

F3 — CONUS density 2025

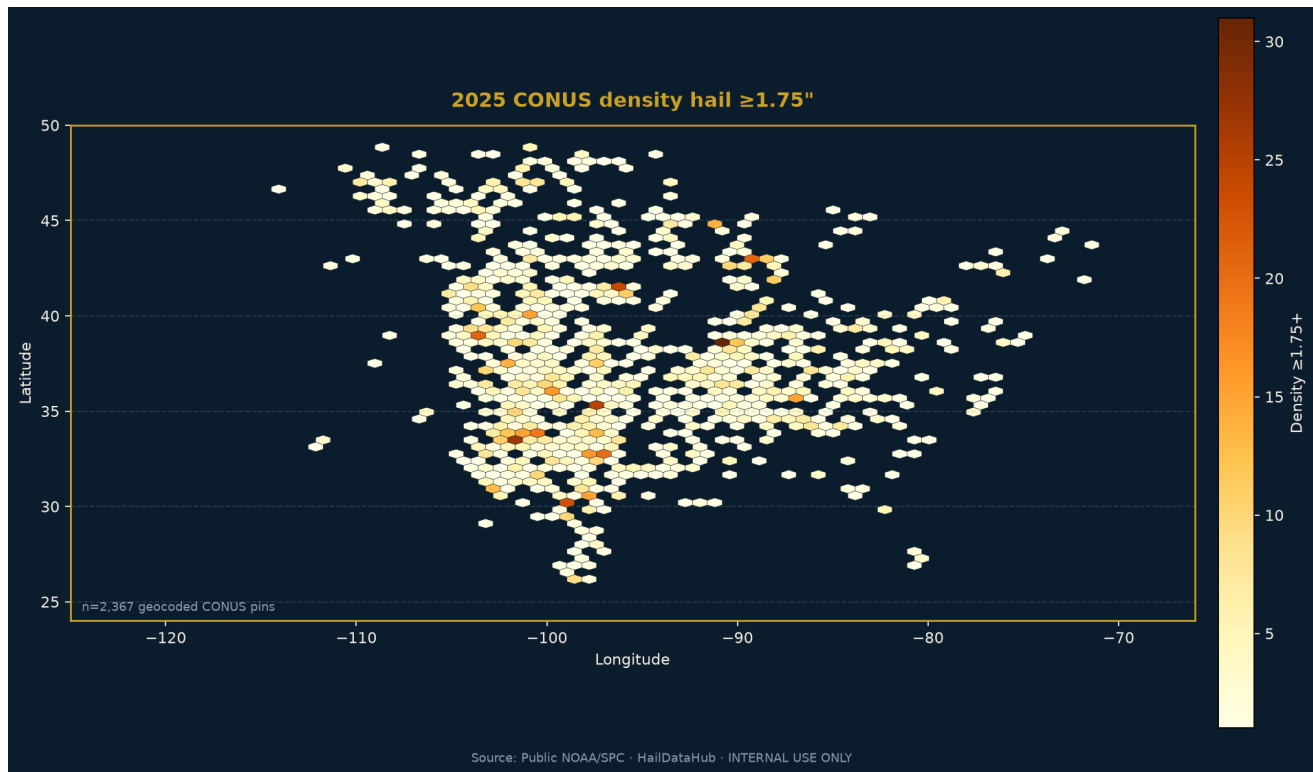


Figure F3. CONUS density — 1.75"+ — 2025. Street-level detail unlocks with membership.

SECTION F · 2026

Hail Tier 1.75"+ — 2026 YTD

Sep 2026 partial YTD through 2026-09-12 · 2,363 reports · max 6.1"

Through **2026-09-12**, 2026 holds **2,363** SPC hail LSRs at **1.75" and larger**. September 2026 is **partial**. Leading state so far: **TX** (290).

F4 — Monthly counts 2026 YTD

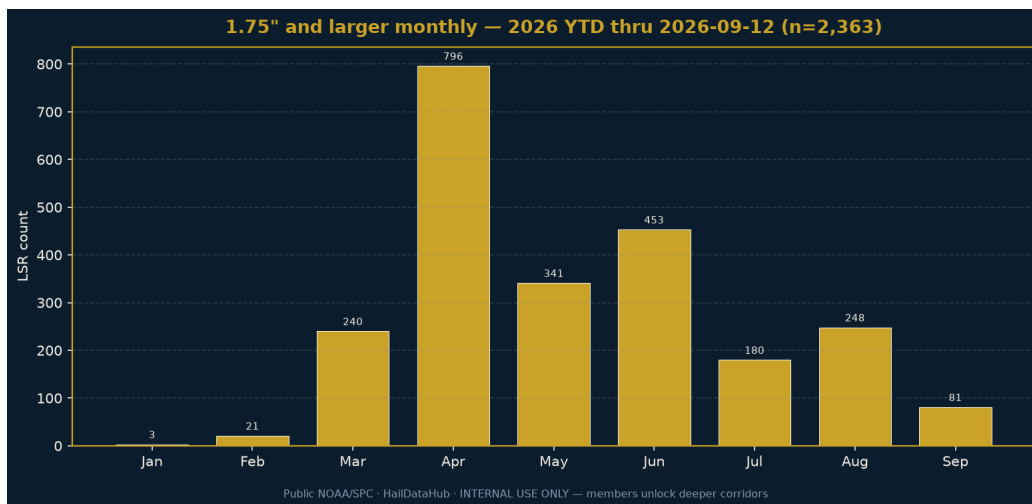


Figure F4. Monthly 1.75"+ — 2026 YTD (Sep partial thru 2026-09-12).

F5 — Top states 2026 YTD

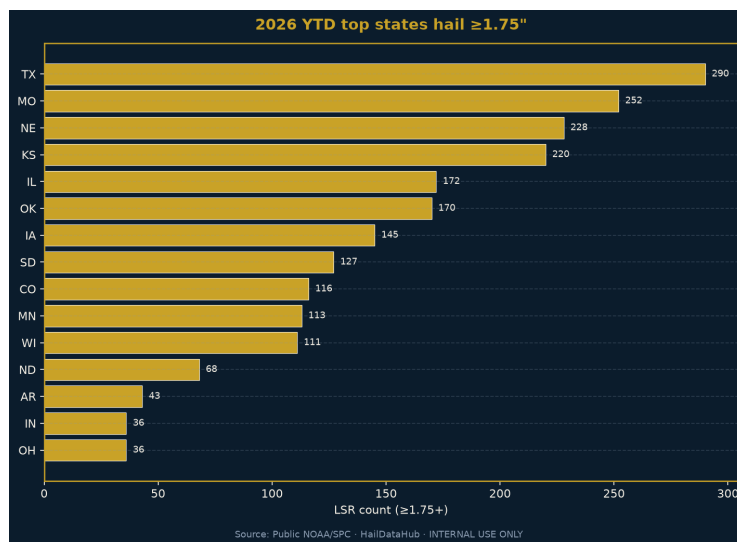


Figure F5. Top states — 1.75"+ — 2026 YTD.

Top-10 state board (2026 YTD)

Rank	State	1.75"+
1	TX	290
2	MO	252
3	NE	228
4	KS	220
5	IL	172
6	OK	170

7	IA	145
8	SD	127
9	CO	116
10	MN	113

F6 — CONUS density 2026 YTD

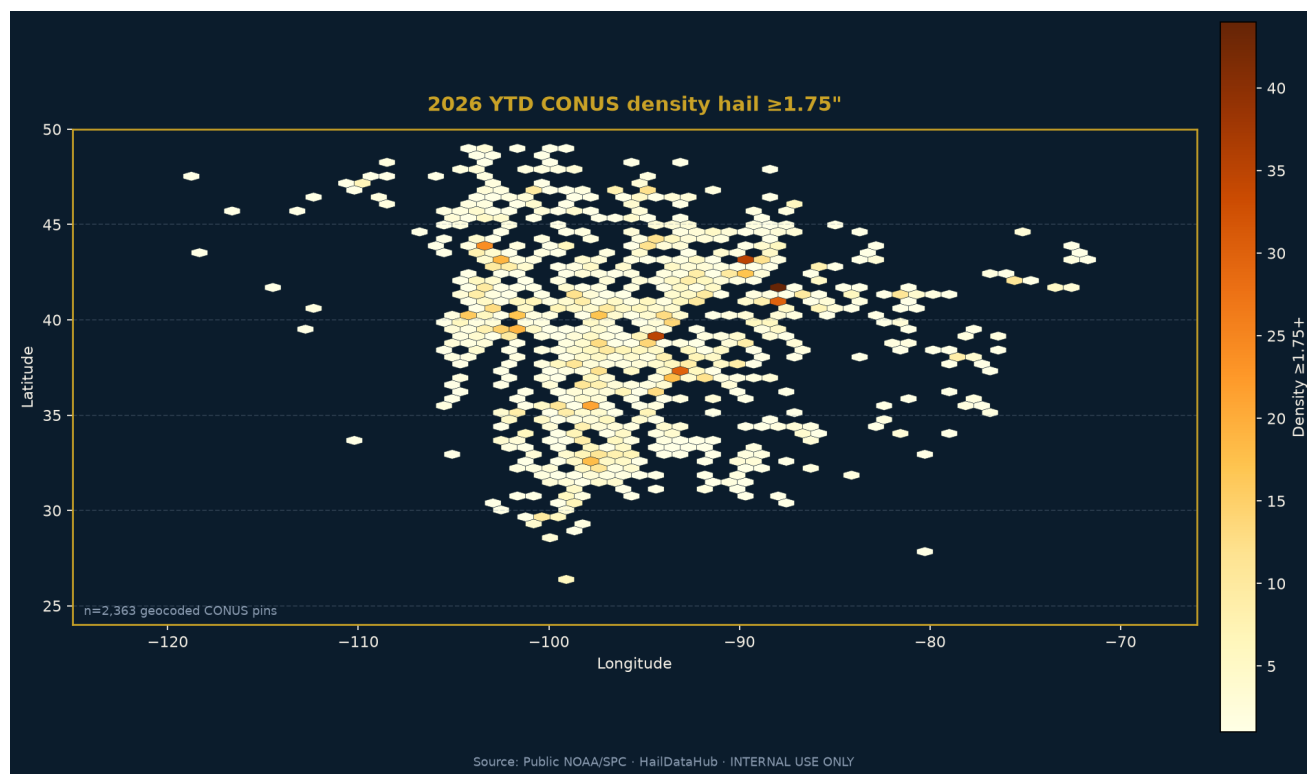


Figure F6. CONUS density — 1.75"+ — 2026 YTD. Live map continuity unlocks with membership.

SECTION F · YoY

Hail Tier 1.75"+ — Year-over-Year

2025 vs 2026 · shared Jan–Sep · 2,313 vs 2,363

Same-window Jan–Sep: **2,313** (2025) vs **2,363** (2026 YTD) — Δ +50. September 2026 remains partial; do not treat Sep as apples-to-apples.

F7 — YoY monthly

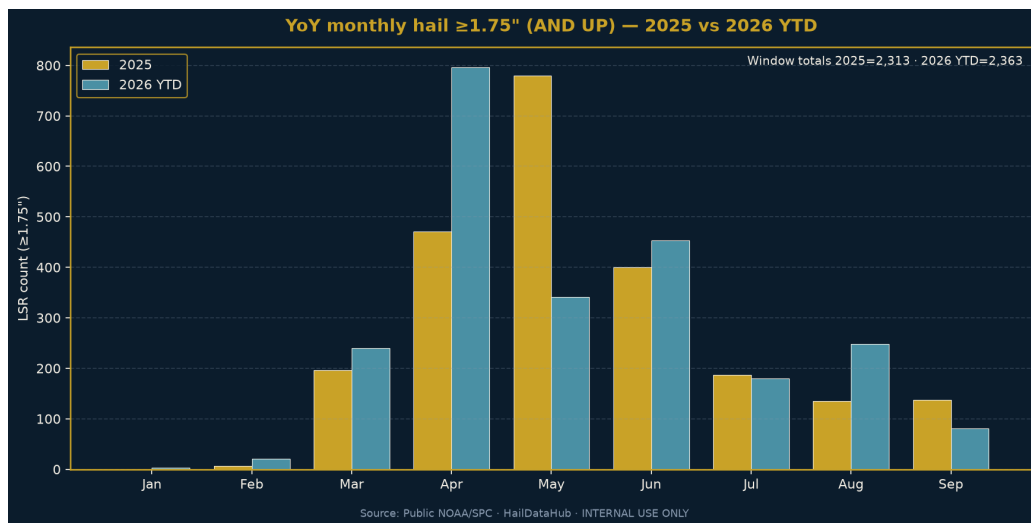


Figure F7. YoY monthly 1.75"+ — 2025 vs 2026 YTD.

F8 — Top states YoY

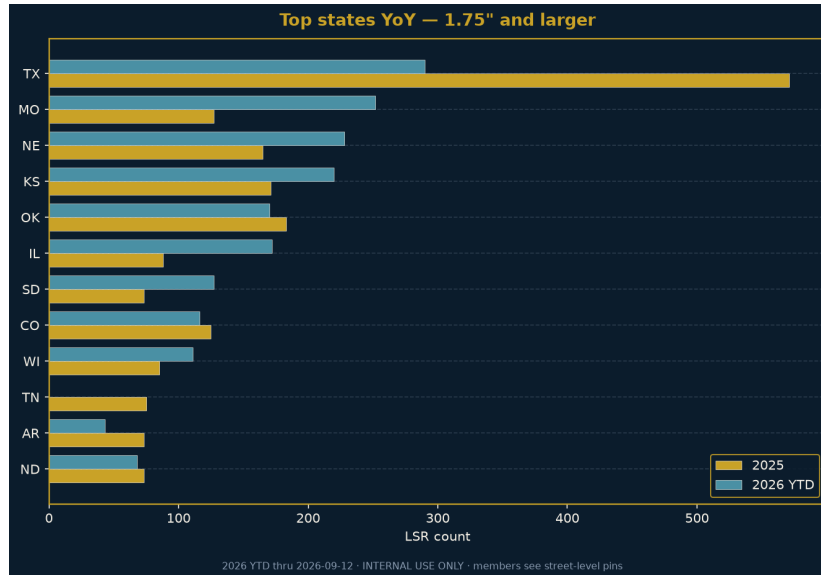


Figure F8. Top-states comparison — 1.75"+.

State comparison board

State	2025	2026 YTD	Δ
TX	571	290	-281
MO	127	252	+125
NE	165	228	+63
KS	171	220	+49
OK	183	170	-13

IL	88	172	+84
IA	0	145	+145
SD	73	127	+54
CO	125	116	-9
MN	0	113	+113

The state board answers where. The deeper question for members: which corridors inside those states carried the 1.75"+ signal — that layer unlocks with membership.

Full forecast + live corridor alerts available on haildatahub.com

SECTION G

Hail Tier 2.00"+ — 2025 Baseline

Full calendar · 1,166 reports · max 6.0"

Calendar 2025 logged **1,166** SPC hail LSRs at **2.00" and larger**. Leading state: **TX** (329). This chapter is the full-year baseline against which 2026 YTD is compared.

G1 — Monthly counts 2025

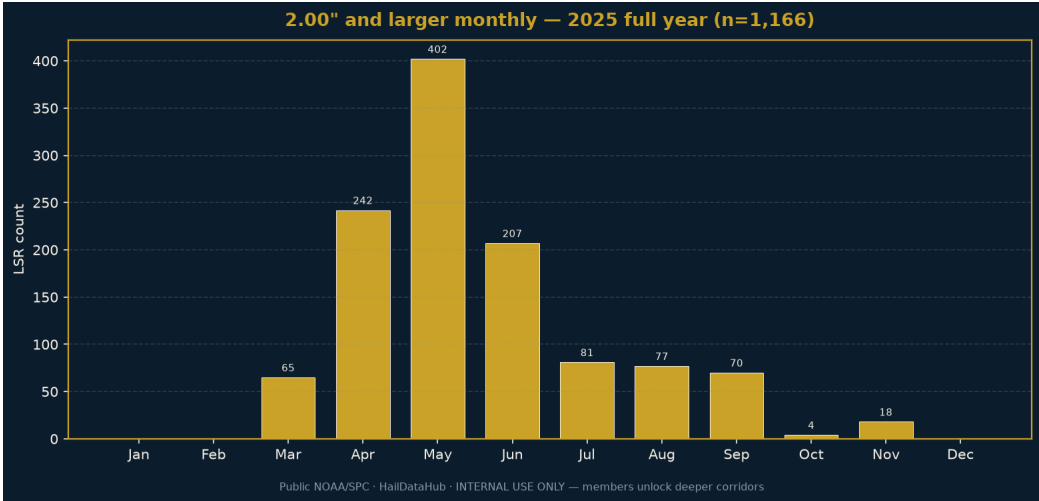


Figure G1. Monthly 2.00"+ hail LSRs — calendar 2025.

G2 — Top states 2025

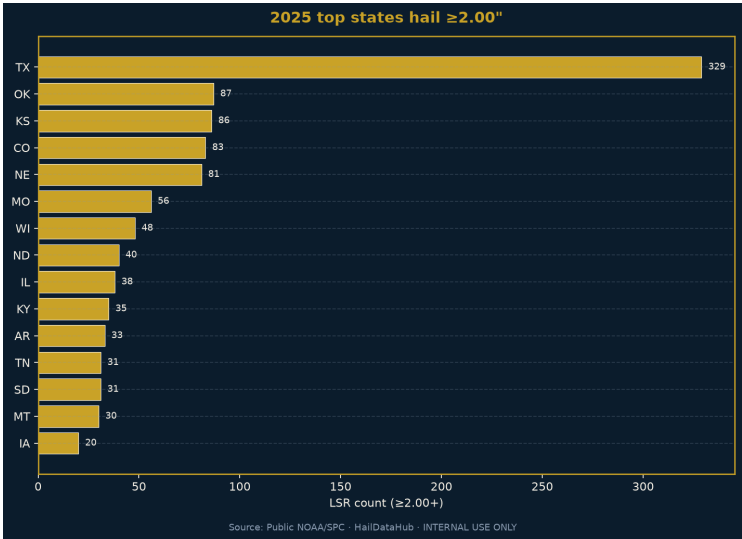


Figure G2. Top states — 2.00"+ — 2025.

Top-10 state board (2025)

Rank	State	2.00"+
1	TX	329
2	OK	87
3	KS	86
4	CO	83
5	NE	81
6	MO	56

7	WI	48
8	ND	40
9	IL	38
10	KY	35

2.00"+ county pins and corridor names unlock with membership

G3 — CONUS density 2025

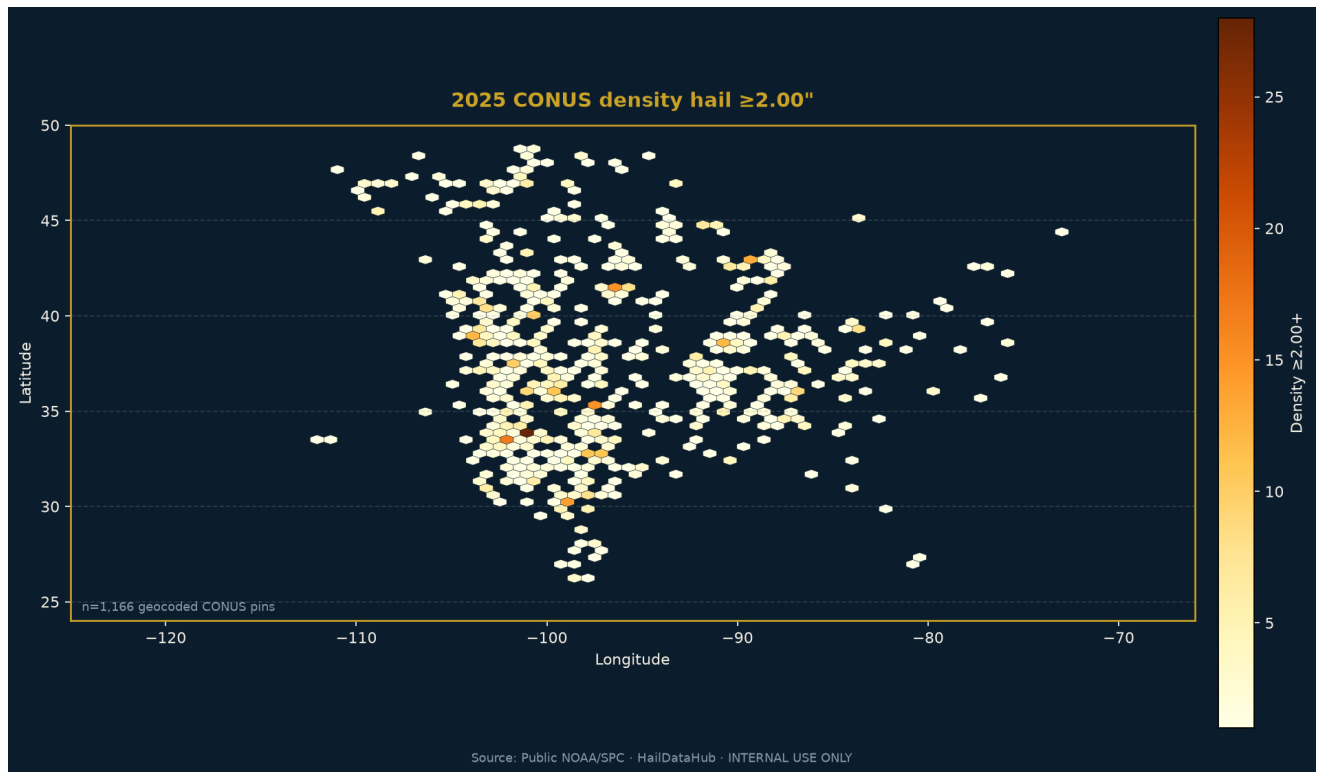


Figure G3. CONUS density — 2.00"+ — 2025. Street-level detail unlocks with membership.

SECTION G · 2026

Hail Tier 2.00"+ — 2026 YTD

Sep 2026 partial YTD through 2026-09-12 · 1,278 reports · max 6.1"

Through **2026-09-12**, 2026 holds **1,278** SPC hail LSRs at **2.00" and larger**. September 2026 is **partial**. Leading state so far: **TX** (165).

G4 — Monthly counts 2026 YTD

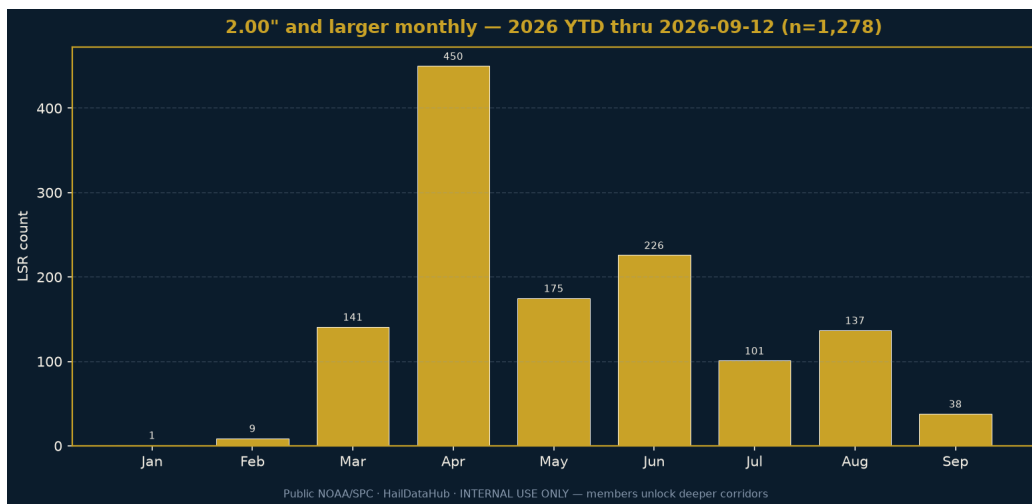


Figure G4. Monthly 2.00"+ — 2026 YTD (Sep partial thru 2026-09-12).

G5 — Top states 2026 YTD

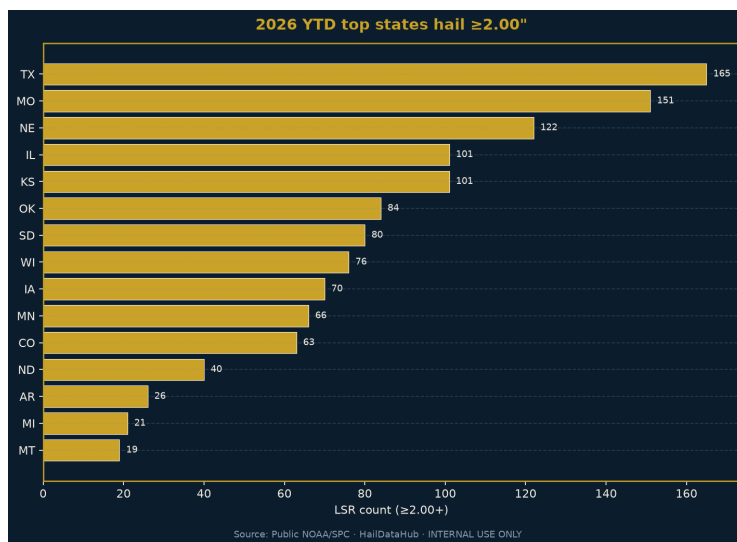


Figure G5. Top states — 2.00"+ — 2026 YTD.

Top-10 state board (2026 YTD)

Rank	State	2.00"+
1	TX	165
2	MO	151
3	NE	122
4	IL	101
5	KS	101
6	OK	84

7	SD	80
8	WI	76
9	IA	70
10	MN	66

G6 — CONUS density 2026 YTD

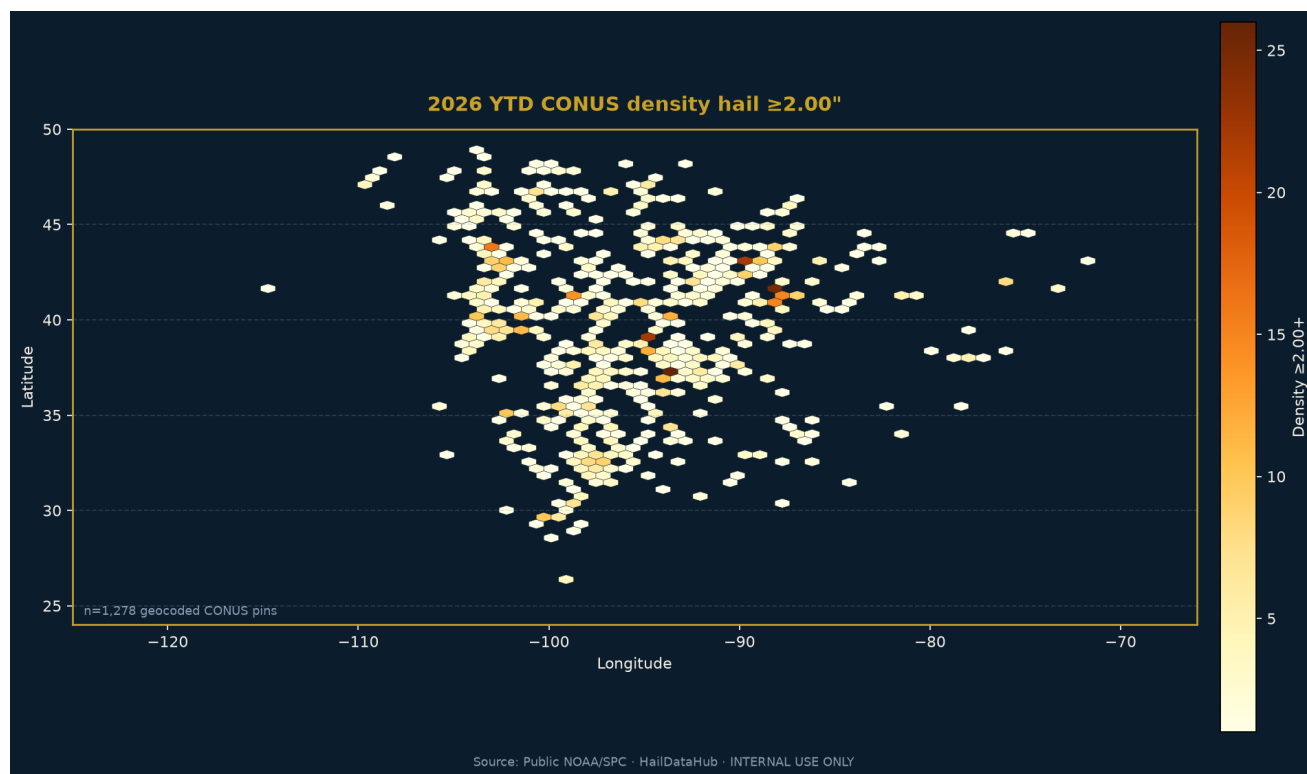


Figure G6. CONUS density — 2.00"+ — 2026 YTD. Live map continuity unlocks with membership.

SECTION G · YoY

Hail Tier 2.00"+ — Year-over-Year

2025 vs 2026 · shared Jan–Sep · 1,144 vs 1,278

Same-window Jan–Sep: **1,144** (2025) vs **1,278** (2026 YTD) — Δ +134. September 2026 remains partial; do not treat Sep as apples-to-apples.

G7 — YoY monthly

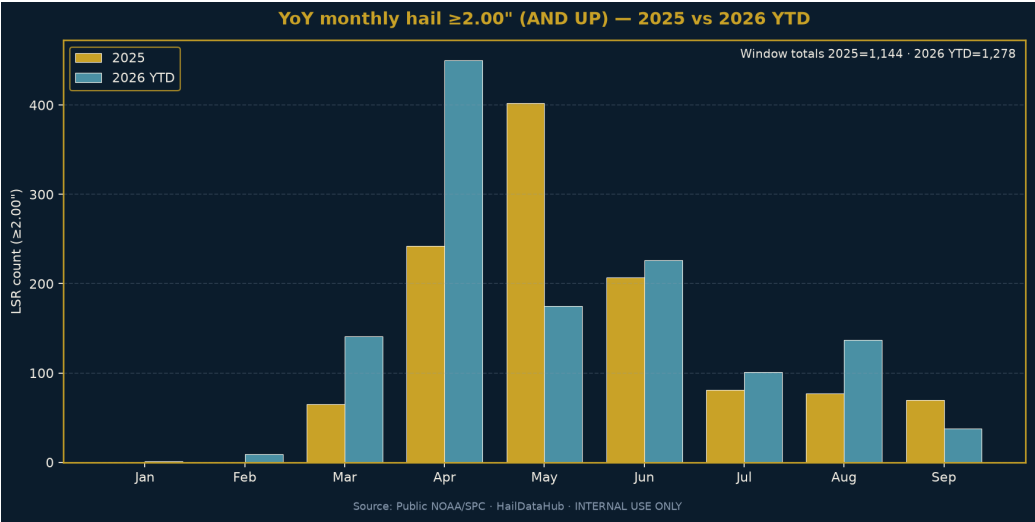


Figure G7. YoY monthly 2.00"+ — 2025 vs 2026 YTD.

G8 — Top states YoY

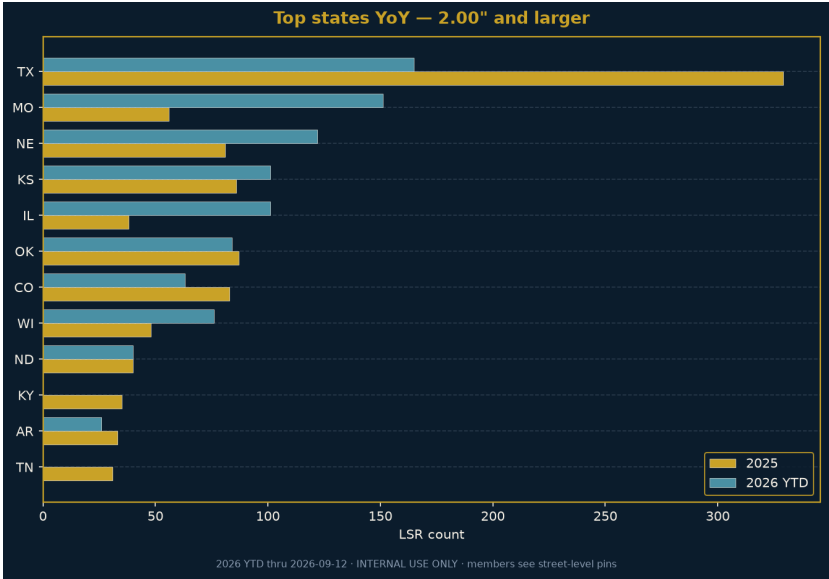


Figure G8. Top-states comparison — 2.00"+.

State comparison board

State	2025	2026 YTD	Δ
TX	329	165	-164
MO	56	151	+95
NE	81	122	+41
KS	86	101	+15
IL	38	101	+63

OK	87	84	-3
CO	83	63	-20
SD	31	80	+49
WI	48	76	+28
IA	20	70	+50

The state board answers where. The deeper question for members: which corridors inside those states carried the 2.00"+ signal — that layer unlocks with membership.

Full forecast + live corridor alerts available on haildatahub.com

SECTION T

Tornado Report Areas

Public SPC tornado LSRs · 2025 full vs 2026 Sep 2026 partial YTD · observational — not a forecast

Alongside hail tiers, this brief inventories public SPC **tornado** Local Storm Reports: **1,741** in calendar 2025 and **1,617** in 2026 YTD through 2026-09-12. These are public observational reports — not a seasonal tornado outlook, not insurance advice, and not a damage certificate.

1,741	1,617	Public
2025 FULL YEAR tornado LSRs	2026 Sep 2026 partial YTD tornado LSRs	SPC daily CSVs honest framing

T1 — Monthly tornado reports 2025

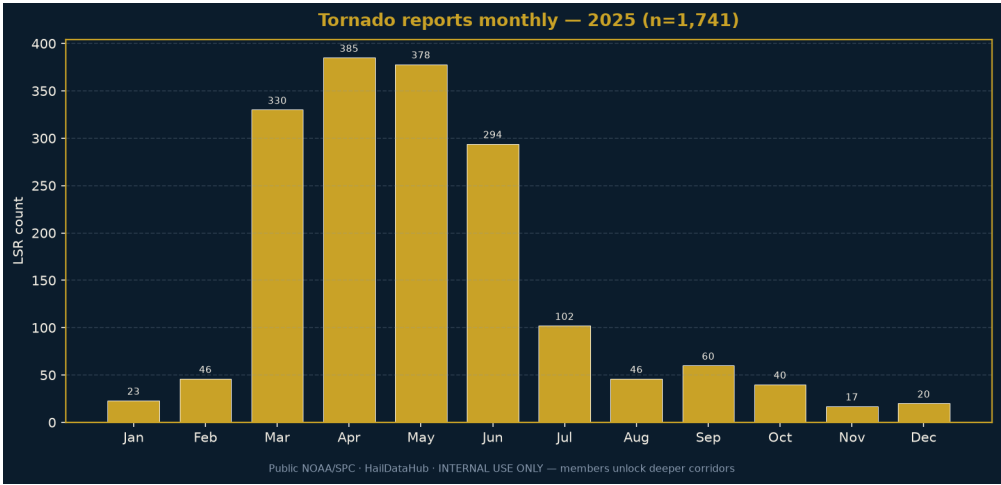


Figure T1. Monthly SPC tornado LSRs — calendar 2025.

T2 — Monthly tornado reports 2026 YTD

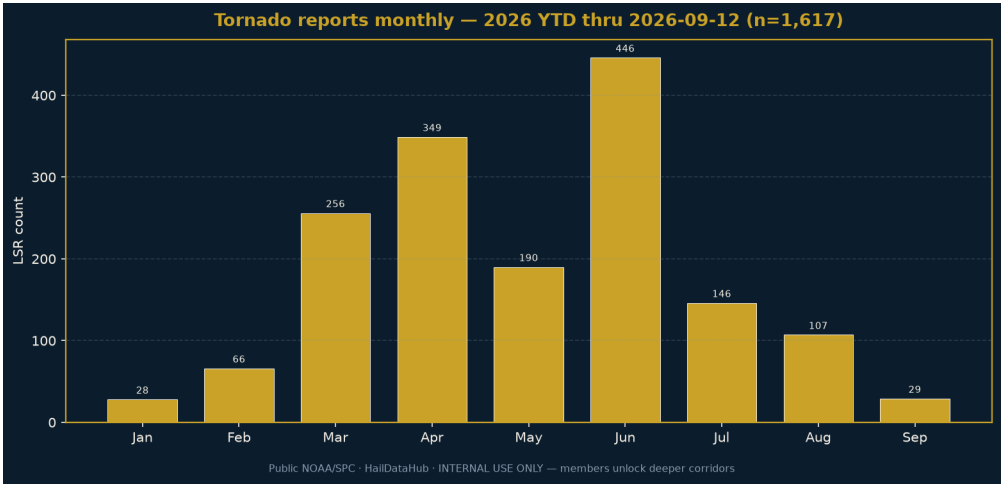


Figure T2. Monthly SPC tornado LSRs — 2026 YTD thru 2026-09-12.

T3 — Tornado YoY monthly

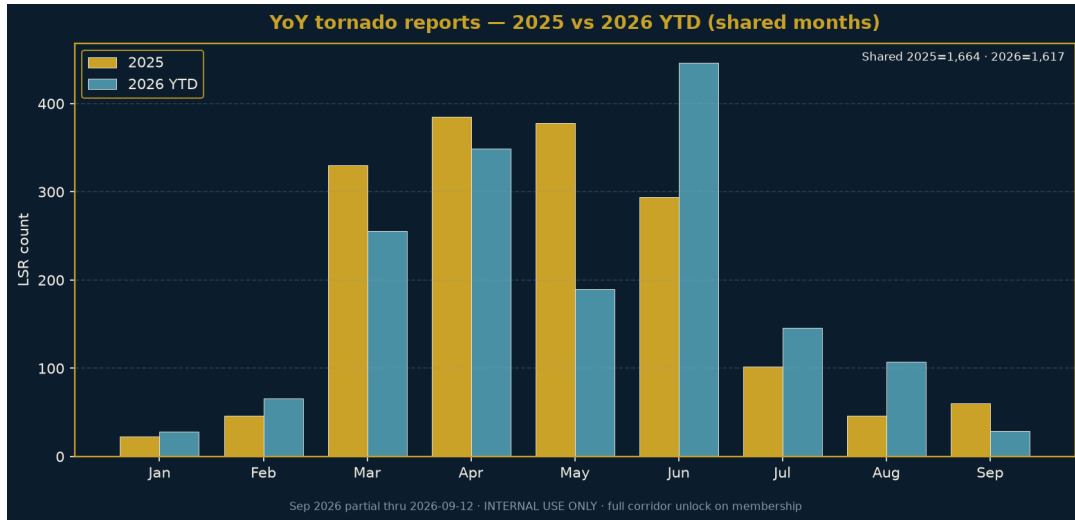


Figure T3. YoY monthly tornado LSRs — 2025 vs 2026 YTD.

T4 — Top states YoY

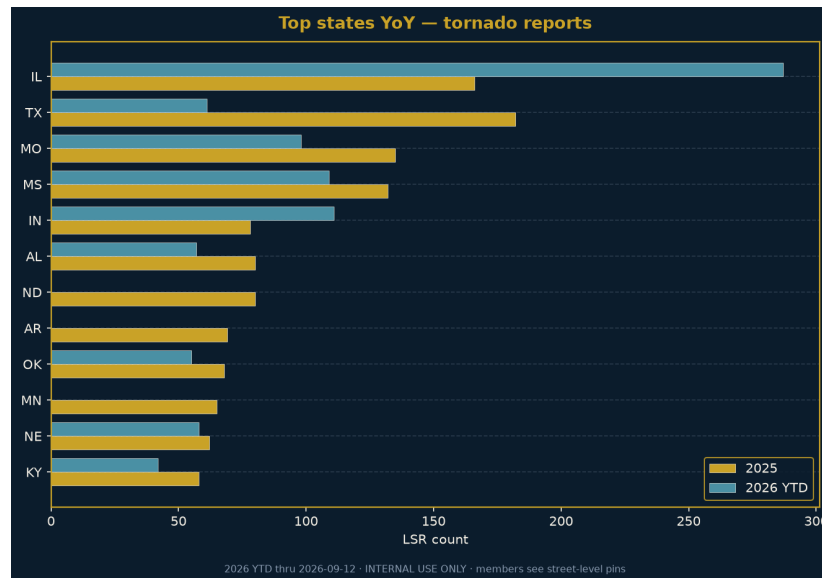


Figure T4. Top states — tornado reports — 2025 vs 2026 YTD.

Tornado state comparison board

State	2025	2026 YTD	Δ
IL	166	287	+121
TX	182	61	-121
MO	135	98	-37
MS	132	109	-23
IN	78	111	+33
IA	0	92	+92
AL	80	57	-23
ND	80	0	-80
KS	53	72	+19
AR	69	0	-69

Tornado corridor overlays with hail tiers unlock on the Live map · members

T5 — CONUS tornado density 2025

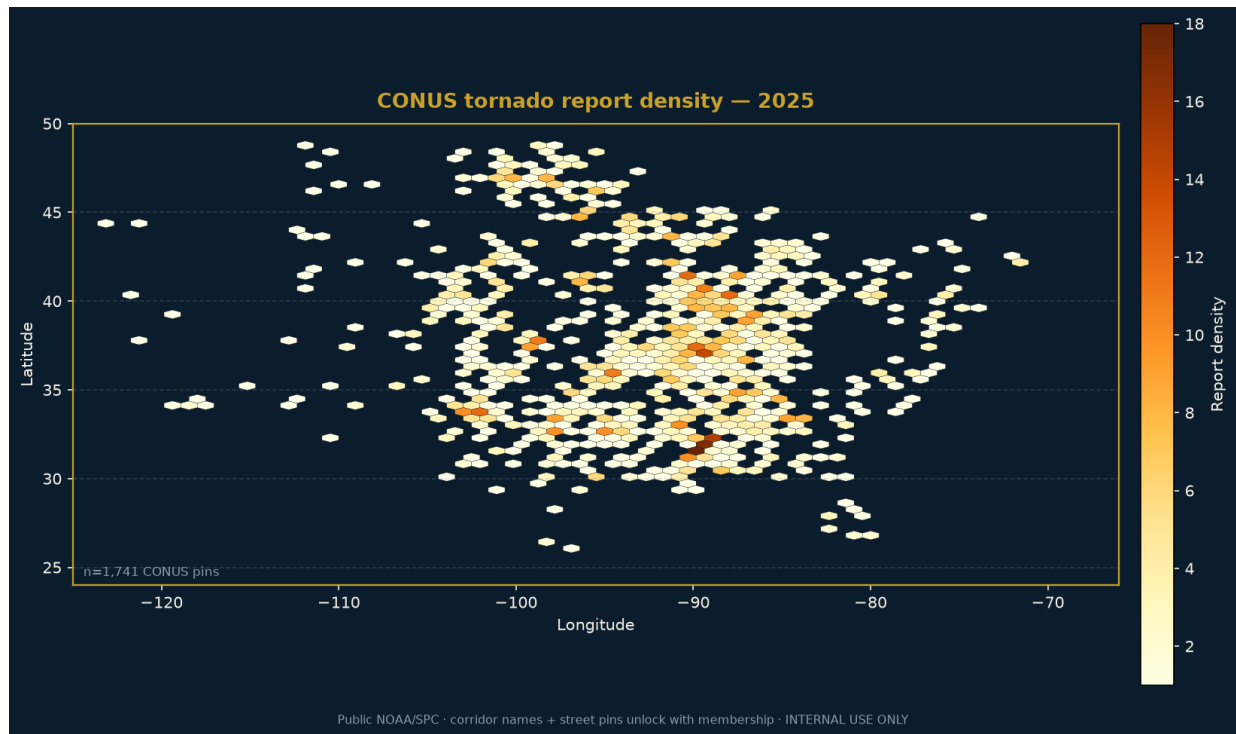


Figure T5. CONUS tornado report density — 2025. Public SPC LSRs.

T6 — CONUS tornado density 2026 YTD

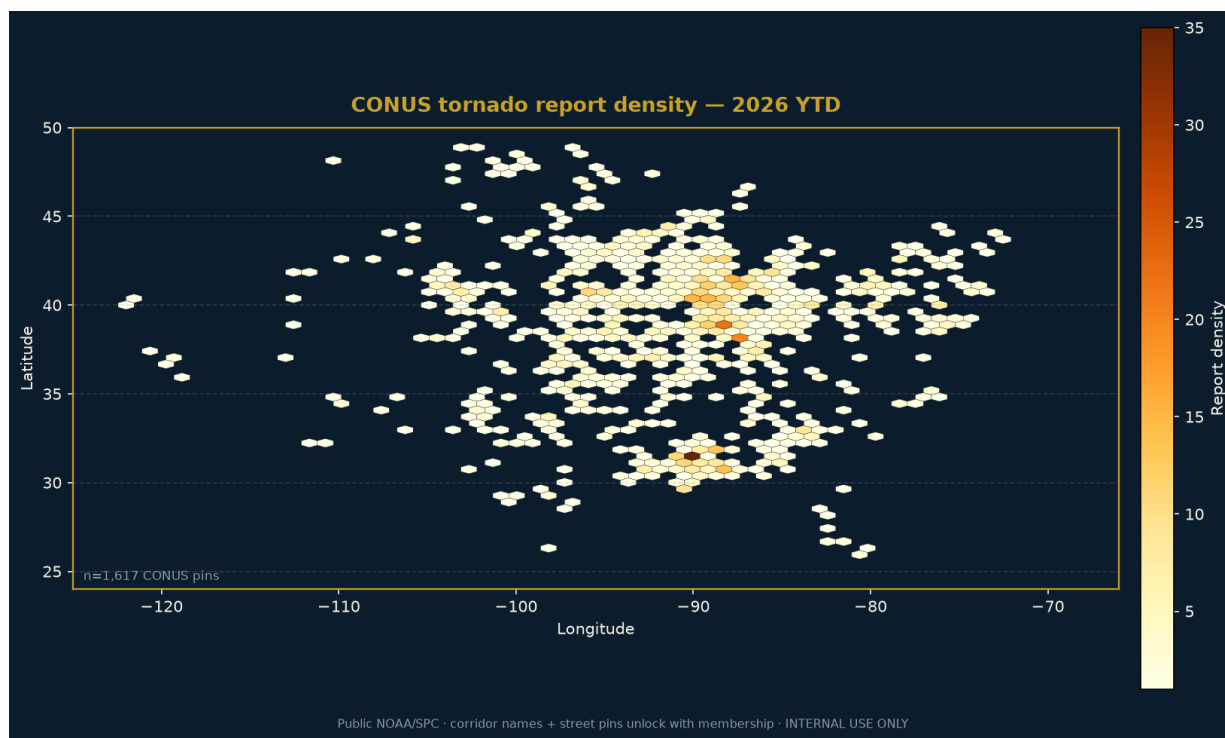


Figure T6. CONUS tornado report density — 2026 YTD thru 2026-09-12. Observational only — not a forecast.

The density plate shows where reports clustered. What it does not show — and what membership unlocks — is the day-by-day corridor narrative alongside hail.

SECTION H

Optional Baseline — 1.00"+ Context

Quarter-size and larger · context only · primary spine is the four tiers above

For operators who still track the classic $\geq 1.00''$ filter: calendar 2025 held **8,711** reports; 2026 YTD through 2026-09-12 holds **8,085**. The locked product spine is the four and-up tiers (1.25 / 1.50 / 1.75 / 2.00). This page is context only.

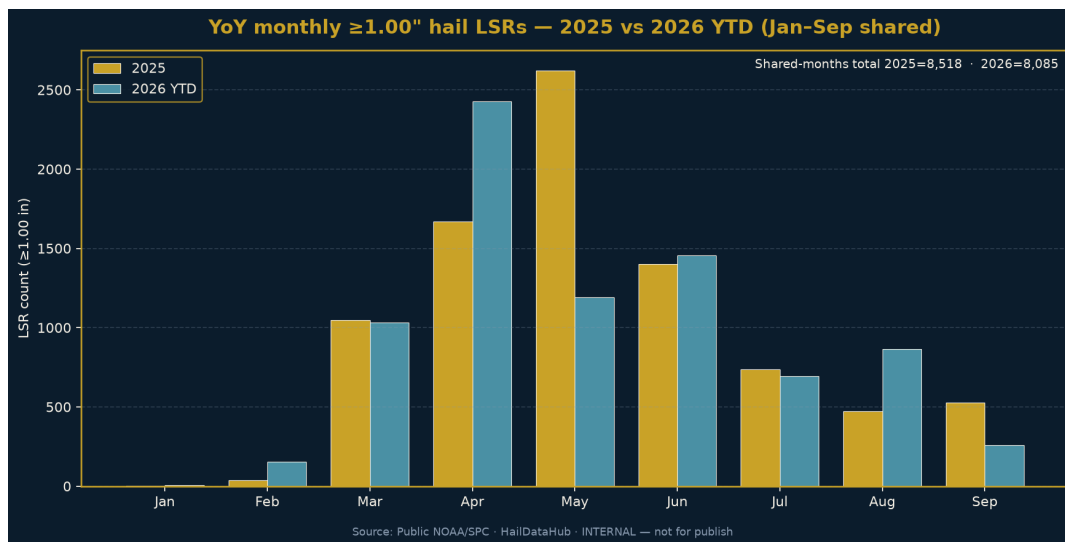


Figure H1. YoY monthly $\geq 1.00''$ — prior chart-pack context.

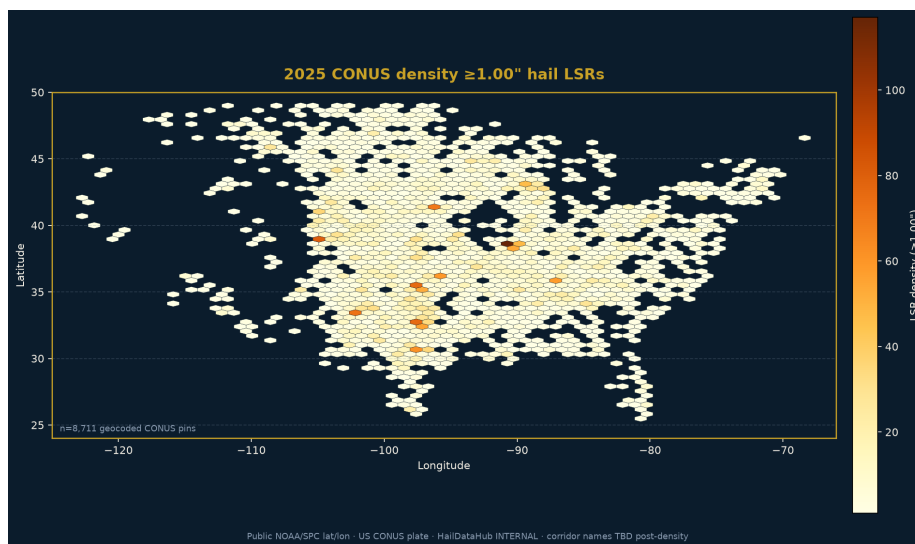


Figure H2. CONUS density $\geq 1.00''$ — 2025 baseline (prior pack).

Tier-cut Live cards often gate at $\geq 1.25''$ — match filters when comparing

SECTION I

What to Expect for the Rest of the Year

Climatology baseline + public CPC/ENSO language only · no invented 2026 Oct–Dec hail

Based on the **public 2025 late-season pattern** and **public SPC/CPC outlook language** — **not** a town-by-town hail forecast. HailDataHub shows what the back half of a recent year actually produced ($\geq 1.00"$), then points you to live monitoring for what develops next. We do **not** invent October–December 2026 hail reports, town lists, or filled forecast maps.

Season so far (bridge)

Through **2026-09-12**, 2026 Jan–Sep YTD logged **8,085** SPC $\geq 1.00"$ hail LSRs, versus **8,518** in the same Jan–Sep months of 2025. September 2026 is partial (258 thru 2026-09-12); full-month September 2025 was 528.

Late-season climatology baseline (2025 Oct–Dec)

Month	$\geq 1.00"$ LSR count
October 2025	73
November 2025	118
December 2025	2
Oct–Dec 2025 total	193

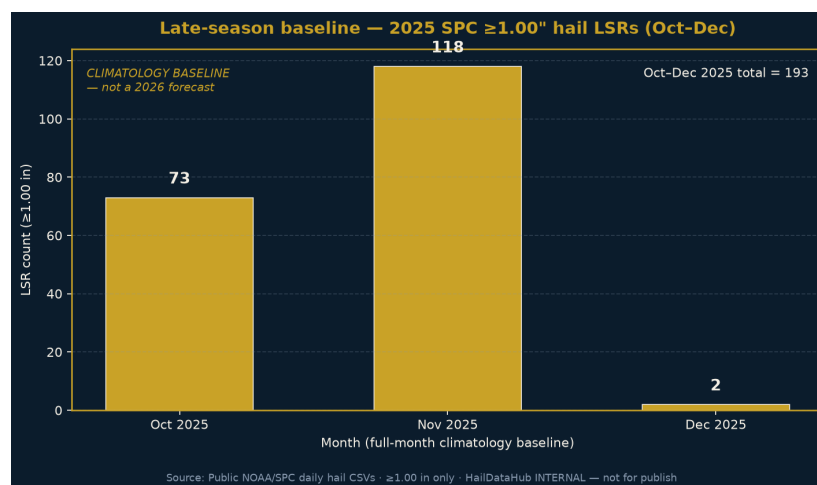


Figure I1. 2025 Oct–Dec $\geq 1.00"$ monthly counts — climatology baseline only. Not a 2026 forecast.

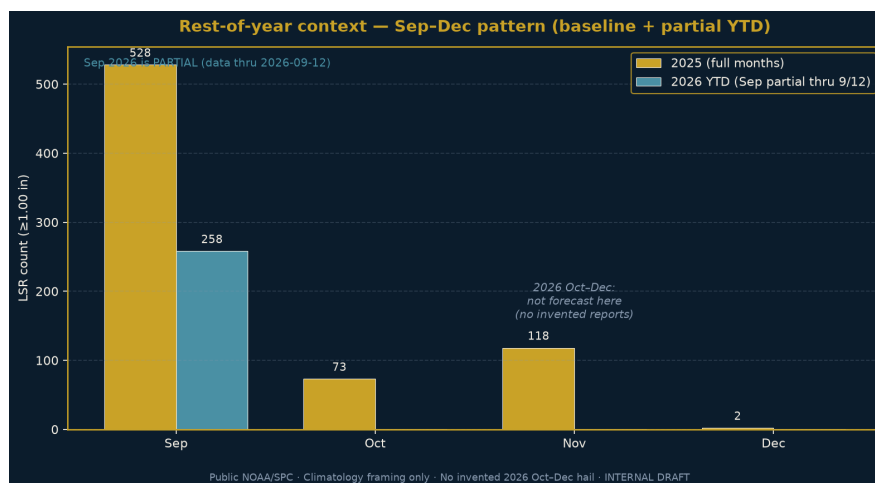


Figure I2. Sep–Dec context: 2025 full months vs Sep 2026 partial. 2026 Oct–Dec left blank pending the close of the year.

Historically, late fall and early winter produce far fewer $\geq 1.00"$ hail reports than spring/summer. The 2025 back half (193 Oct–Dec reports) is a **baseline reference**, not a prediction that 2026 will match those month totals or those towns.

I3 — Public climate-pattern note (CPC ENSO)

Source (fetched): Climate Prediction Center / NCEP / NWS — ENSO Diagnostic Discussion, issued **10 September 2026**. URL: https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_advisory/ensodisc.html

Status (public language): El Niño Advisory. Synopsis: El Niño is strengthening, with a greater than 90% chance of a very strong event during the Northern Hemisphere fall and winter 2026-27. CPC further notes a 75% chance during October–December 2026 of a historic-strength event by their RONI criteria, and that impacts consistent with El Niño are more likely but **not guaranteed**.

How we use this: Pattern context only. ENSO phase does **not** translate into town-level hail report lists for Oct–Dec 2026. SPC does not publish a fall–winter seasonal hail forecast map (convective outlooks are short-range, Day 1–8). No SPC seasonal hail product is reproduced or invented here.

This section IS	This section is NOT
Public climatology baseline from real 2025 Oct–Dec counts	A filled Oct–Dec 2026 hail forecast
Honest YTD vs prior-year season-so-far	A town-by-town hit list
Sourced CPC ENSO pattern language	A damage certificate or insurance document
A bridge to Live map + membership	Permission to invent 2027 El Niño hail guts

Watch the season finish on the Live map. Membership unlocks the deeper archive, alerts, and forecast products as spots open — opening more spots soon at haildatahub.com.

Rest-of-year live monitoring · members unlock · haildatahub.com

SECTION J

2027 El Niño Year

Members unlock the 2027 forecast

This frame is blank by design. HailDataHub does **not** invent predicted 2027 hail reports, town lists, corridor maps, or filled forecast maps in this brief. The complete 2027 forecast unlocks with membership on haildatahub.com.

MEMBERS UNLOCK · FULL FORECAST AVAILABLE ON HAILDATAHUB.COM

2027 El Niño Year — intentionally blank

No predicted 2027 hail reports here · the chart that hangs is the one members see

MEMBERS UNLOCK · FULL FORECAST AVAILABLE ON HAILDATAHUB.COM

What you have in this brief: the 2025 baseline, the 2026 YTD tier spine, tornado report areas, and honest rest-of-year climatology. What waits behind membership: the 2027 El Niño forecast product and the street-level continuity that turns these boards into an operating picture.

Purchase / membership unlocks the 2027 frame · haildatahub.com

SECTION K

Closing

Terms · source · what this brief is and is not

HailDataHub Yearly Composite Presidential Brief. Public intelligence spine with membership unlocks at haildatahub.com. Not a damage certificate.

Full public source list is on the next page. Not a damage certificate. Not insurance advice. Not a town-by-town forecast.

Site / Terms: <https://haildatahub.com>

The public spine ends here. The operating picture continues on the Live map — membership unlocks deeper archive, alerts, and the 2027 forecast product as spots open.

haildatahub.com · Terms

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ANNEX Σ — EPISTEMIC APPARATUS / PROVENANCE LATTICE

Sources, Method, Caveats & Non-Claims

Public NOAA / SPC / CPC provenance

This annex records the full public provenance for the Yearly Composite: schema notes, filter math, temporal framing, spatial assumptions, ENSO context limits, exclusions, and disclaimers.

§0. Reading contract

Boards in the main brief are for decision glance. This annex is the full methodological record. Membership unlocks the deeper operating picture on haildatahub.com.

§1. Primary hail corpus — object identity

Hail strata ingest NOAA/NWS Storm Prediction Center (SPC) climo/reports daily Local Storm Report (LSR) CSV objects named YYYYMMDD_rpts_hail.csv at <https://www.spc.noaa.gov/climo/reports/>. Canonical row fields observed in-parser: Time, Size, Location, County, State, Lat, Lon, Comments. Size is an integer in **hundredths of a statute inch** ($100 \equiv 1.00''$, $175 \equiv 1.75''$, $200 \equiv 2.00''$). Non-integer Size tokens are dropped. Missing Size drops. Comments are retained in raw archives but are not rendered as free-text evidence in presidential plates.

Tier membership is an inclusive lower-bound (and-up) filter $\tau \in \{125, 150, 175, 200\} \Rightarrow \text{keep Size} \geq \tau$. Optional baseline $\tau=100$ ($1.00''+$) appears only as a context board. Cardinality is therefore nested: $N(2.00''+) \subseteq N(1.75''+) \subseteq N(1.50''+) \subseteq N(1.25''+) \subseteq N(1.00''+)$. A Size=250 LSR increments all five counters. Interpreting tier deltas as mutually exclusive size bins is a category error.

Known public-spine non-corrections (explicit): no office-to-office reporting-rate normalization; no duplicate-cluster collapse across near-identical Lat/Lon/Time; no MESH/MRMS cross-validation; no Canadian/European merge on these plates; no social-media LSR ingest; no insurance claim overlay. Those reductions, when productized, live behind membership — not in Annex Σ.

§2. Primary tornado corpus — object identity

Tornado boards ingest parallel daily objects YYYYMMDD_rpts_torn.csv from the same SPC climo endpoint. These are LSR point enumerations. They are **not**: (a) tornado-segment polylines; (b) EF-scale damage surveys from Damage Assessment Toolkit; (c) NWS warning polygons / WarnGen footprints; (d) radar-indicated rotation tracks; (e) casualty tables. Density / state rollups describe report geography, not areal probability. Conflating LSR density with tornado risk surfaces is refused in prose and in product claims.

§3. Temporal algebra & right-censoring

Let Y2025 = closed interval [2025-01-01, 2025-12-31]. Let Y2026_YTD = [2026-01-01, 2026-09-12] with stamp **Sep 2026 partial YTD**. Shared-month YoY comparisons use month set M = {Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep} with September 2026

incomplete. Full-year 2025 totals must not be ratioed against YTD 2026 without the censor label. Rest-of-year exposition substitutes empirical 2025 Oct–Dec $\geq 1.00''$ counts (Oct 73 · Nov 118 · Dec 2 · Σ 193) as a climatological prior only. Imputation of 2026 Oct–Dec hail atoms is forbidden. The 2027 El Niño panel is a blank purchase teaser — forecast guts are not serialized in this brief.

§4. Spatial rendering contract

CONUS density plates are hexbin aggregations over rows where Lat/Lon parse as finite floats inside an approximate CONUS bounding box. Rows failing geocode contribute to national cardinality but not to the hex lattice; plate footnotes report geocoded n. Projection is a simple lon/lat Cartesian scatter for presidential readability — not an equal-area cartogram, not Albers, not a county choropleth. Street-level pin disclosure, corridor toponyms, and live overlays unlock with membership.

§5. ENSO / CPC — pattern context only

ENSO prose cites the Climate Prediction Center ENSO Diagnostic Discussion (public release dated 10 Sep 2026) as synoptic pattern context. No causal identification from ONI / Niño-3.4 to county hail intensity is claimed. No regression coefficients are published here. Treating ENSO phase as a deterministic hail forecast is refused.

§6. Headline counts locked at build (public spine)

Hail and-up (build stamp): 1.25"+ : 2025=4,529 · 2026_YTD=4,211 · 1.50"+ : 2025=3,401 · 2026_YTD=3,262 · 1.75"+ : 2025=2,367 · 2026_YTD=2,363 · 2.00"+ : 2025=1,166 · 2026_YTD=1,278. Tornado LSR: 2025=1,741 · 2026_YTD=1,617. Baseline $\geq 1.00''$: 2025=8,711 · 2026_YTD=8,085. Rebuilds supersede prior stamps.

§7. Explicit exclusions

Out of scope on these plates: insurance actuarial tables; CAT-model output; proprietary radar MESH/MRMS products; Canadian/European severe databases except where separately productized on-site; social LSRs; claim-level loss; vehicle ZIP exposures; and any invented forward hail for late-2026 or 2027.

§8. Disclaimer lattice (non-negotiable)

Not a damage certificate. Not insurance advice. Not a government forecast. Not a town-by-town hail guarantee. Buy $\neq$ post. No republic of paid packs except as Terms allow. Terms: <https://haildatahub.com/terms-of-service/> · Site: <https://haildatahub.com>

§9. Operational reduction (members) — soft close

The public spine ends at aggregate boards + this annex. The operational reduction (de-duplication heuristics, street continuity, alert fan-out, filled 2027 forecast object, live map continuity) unlocks on haildatahub.com. If you read this far, you Membership continues the operating picture on haildatahub.com.

§10. Micro-footnotes

- F10.1 Parser drops blank Size; coerces Size via `int(str.strip())`; HTTP 404 days contribute zero rows.
- F10.2 Fetch UA identifies as research inventory bot; polite sleep between day GETs.
- F10.3 State boards rank by report cardinality, not by population-normalized rate.
- F10.4 Hexbin color scales are per-plate relative — do not cross-compare absolute hues across tiers without reading n.
- F10.5 YoY $\Delta\%$ on shared months is descriptive; no significance tests are published in this brief.
- F10.6 CPC URL/fetch failure $\Rightarrow$ prose must say so — inventing ENSO text is forbidden.
- F10.7 Build stamps and STATUS JSON supersede prior editions.
- F10.8 No personal bylines appear on any plate or annex.
- F10.9 Brand wall: HailDataHub only — no 217 Dent / HRT / RUA4 marks.
- F10.10 Schema drift upstream may invalidate parsers; newer DRAFT STATUS JSON wins.
- F10.11 Rest-of-year empty 2026 Oct–Dec bars are intentional nulls, not missing-data bugs.
- F10.12 Tornado missing-day count at last VERIFY was 0/0 for 2025/2026 panels fetched.
- F10.13 Membership CTA language is soft-unlock only — no hard-sell chapter in body.
- F10.14 Street pins unlock with membership; aggregate boards use geocoded subsets.
- F10.15 Annex Σ may span multiple pages.

Canonical endpoints (non-authoritative): SPC climo reports · CPC ENSO Diagnostic Discussion archive · haildatahub.com Live/membership. If this annex felt like too For a plain start, return to How to Use These Tools. Deeper archive: haildatahub.com.

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