SHED HAPPENS · WILDLIFE DATA COMPANY

What Shed Hunter Steve Knows About Your Country

The intelligence layer of a wildlife data platform — built from the ground that hunters actually walk.

ARCHITECTURE OVERVIEW · MAY 2026

THE PREMISE

The app is the collection mechanism. The dataset is the product.

Most hunting apps help you kill more efficiently. **Shed Happens tracks whether there will be animals to hunt in ten years.** The four data pillars feed one system. The system gives ground truth back to the sportsmen who built it.

I.

AI Antler Measuring

Photo → score → location → time. Trophy quality, year over year, by unit. Patent-protected.

II.

Steve Capture

Sportsmen tagging beds, rubs, sheds, deadheads, tracks, sightings. The bulk of the dataset.

III.

Manual Input

Hunters who tape-measure their own antlers. Gold-standard ground truth.

IV.

Trail Cameras

Whitetail farms, outfitters, serious hunters. Hundreds of thousands of timestamped observations.

EVERY PIN CAPTURES

One drop in the field becomes a structured observation.

A single pin is not a dot on a map. It is a multi-dimensional observation of the country at one moment in time — captured at the moment of contact, before context can fade.

CAPTURED AT THE SOURCE	WHAT IT TELLS US
Species	Elk, mule deer, whitetail, antelope, and beyond
Pin type	Shed find, sighting, rub, bed, track, deadhead, generic
Geographic position	GPS to ±6 meters (Build 91 validated, Rock Springs WY)
Time of capture	Calendar date, season-window aware

CAPTURED AT THE SOURCE	WHAT IT TELLS US
Camera bearing	What direction the photographer was facing
Photo + notes	Visual + free-form context, voice transcribable
Source	Native capture, GPX import, trail-cam ingest

All coordinates are encrypted at rest. Decryption is in-memory only, server-side. The privacy contract is non-negotiable: Steve never reveals other users' pins. Aggregates only, unit-level only.

THE ENRICHMENT LAYER

Raw observations become contextual intelligence.

Every captured pin is automatically enriched against authoritative geographic and regulatory data. This is what turns "I dropped a pin here" into "I dropped an elk shed inside hunt area 6, at 7,232 feet elevation, on an east-facing slope, eight meters from running water."

SHED HUNTER STEVE

Steve reasons over enriched observations, not loose dots on a map.

STEP 01 · RAW PIN

What the hunter dropped

Species, type, encrypted coordinate, timestamp, photo.

STEP 02 · GEOGRAPHIC RESOLUTION

Where on the map this actually is

Coordinate resolved against Wyoming Game & Fish hunt-unit polygons, with species-aware boundary type prioritization. Antelope unit, elk unit, and mule deer unit are computed separately — overlapping polygons, distinct numbers.

`state_code` `hunt_unit` `unit_species` `boundary_type`

STEP 03 · TERRAIN ENRICHMENT

The physical character of the spot

USGS 3DEP elevation, computed slope aspect (degrees and cardinal direction), and distance to the nearest hydrography feature. Failure-aware: when an external service is unreachable, the pin is honestly flagged for later backfill rather than silently filled with bad data.

`elevation_ft` `aspect_degrees` `aspect_cardinal` `distance_to_water_m`

STEP 04 · REGULATORY CROSS-REFERENCE

What the rules say about this place

The pin's unit is joined against Wyoming Game & Fish harvest reports, season structures, and license-type history. Trends are computed apples-to-apples: a 2025 general-season unit's deltas are compared only against prior general-season years.

ORIGINAL ENRICHMENT FLOW AND FIELD NAMES PRESERVED FROM SHED HUNTER STEVE — DATA ACCESS TOOLS

WHAT STEVE REASONS OVER

The intelligence Steve brings into every conversation.

When a user asks Steve a question, Steve is handed a structured briefing built from that user's entire pin history — species distribution, top hunt units by species, pin-type breakdown, and live state regulatory data for the user's primary species and unit.

Privacy note. No coordinates appear in any Steve context. The privacy contract is enforced by a server-side tripwire that aborts the request if any float-valued coordinate were ever to leak into the prompt.

LIVE EXAMPLE — A USER'S ACTUAL CONTEXT BLOCK

```
<user_context>
  <pin_summary>
    total_pins: 354
    total_tagged_pins: 77
    primary_species: elk
    states_present: WY
  </pin_summary>
  <species_counts>
    elk: 57
    mule_deer: 20
  </species_counts>
  <top_hunt_areas>
    elk: 98, 30, 69
    mule_deer: 168, 132, 130
  </top_hunt_areas>
  <pin_type_counts>
    shed: 44
    sighting: 23
    sign: 16
  </pin_type_counts>
  <harvest_data>
    hunt_area: 98
    latest_year: 2025
    latest_year_harvest: 81
    active_hunters: 464
    success_pct: 17.5
    change_3yr_harvest: -35
    change_3yr_success_pct: -8.1
    // signed deltas vs. 3 years prior, apples-to-apples license type
  </harvest_data>
```

STEVE IN ACTION

From data to plain English, with a hunter's voice.

> "27 percent success in a unit with 1,400-plus hunters means pressure is real. This isn't a sleeper unit."

STEVE, NARRATING LIVE WYOMING HARVEST DATA, MAY 2026

EARNED OPINIONS, NOT GENERIC CHAT

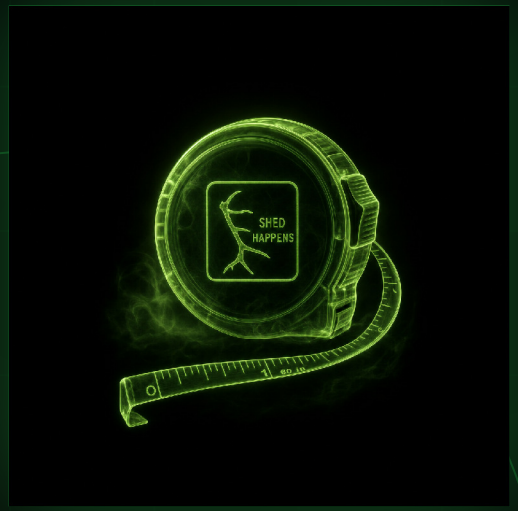
Steve is grounded in real data and instructed never to fabricate. When information is missing, he says so plainly. When it's there, he interprets it the way a hunting partner would — direction, pressure, what's trending, what's worth a closer look.

HONEST GAPS OVER CONFIDENT WRONGS

Steve's hardest-locked behavior is to refuse to guess. A blank-species pin, a unit with no harvest record, a year where the data hasn't published — each gets named, never papered over. Trust is the moat.

THE FOUNDATION

Numbers as of May 2026.



AI-BASED ANIMAL SCORING

1,071 users

V1 USER BASE, 40+ STATES

2,663 scores

ANTLERS SCORED ACROSS 3 SPECIES

±6 m

VALIDATED GPS ACCURACY

±2.5” target

ELITE-TIER SCORING GOAL, WHITETAIL

5,003

WYOMING HARVEST REPORT ROWS INGESTED

2,345

IDAHO HUNT-UNIT BOUNDARY POLYGONS

12,412,293

US PATENT — AI-BASED ANIMAL SCORING

CIP

CONTINUATION FILED APR 2026 — ALL SPECIES + AI ASSISTANTS

ORIGINAL FOUNDATION METRICS PRESERVED FROM SHED HUNTER STEVE — DATA ARCHITECTURE

THE LONG VIEW

Why this dataset has no peer.

01

Broad spatial coverage

Thousands of users walking the country every week. State biologists fly one survey a year. We see what the helicopter misses.

02

High temporal frequency

Drop timing, winter mortality, rut activity, habitat use — sampled continuously, by the people who care most about the answer.

03

Per-pin enrichment at scale

Every observation auto-enriched with unit, terrain, regulatory context. Every observation becomes a usable data point the moment it's captured.

04

Ground truth, not modeled

Antler scores from photos. Sheds found at known coordinates. Sightings logged by people who know what they saw. The dataset is built from contact, not inference.

ORIGINAL THESIS PRESERVED

Broad coverage, high frequency, enrichment, and ground truth define what Steve can look at.

IN CLOSING

“The mountains and hunting saved my life. I want to return the favor.”

SHED HAPPENS LLC · CHARLES MCFARLAND, FOUNDER · SHEDHAPPENSLLC.COM