

# Work Truck Incyte

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## GVWR vs. Legal Payload — Practical Example Worksheet

### Example Configuration (for illustration purposes only)

**Truck:** Ford F-750 Regular Cab

**GVWR:** 33,000 lb.

**Body:** 14' open-top container, 4' sides (15 cu. yd.)

**Equipment:** Roll-off hoist + tarp system

CHASSIS (cab & frame)	10,000 lb.
OPEN-TOP CONTAINER (14' x 4')	3,400 lb.
ROLL-OFF / HOIST EQUIPMENT	2,500 lb.
TARP SYSTEM	800 lb.
FUEL (full tank)	500 lb.
HYDRAULIC FLUID (tank & equipment)	300 lb.
DRIVER + BASIC GEAR	250 lb.
<b>TOTAL NON-PAYLOAD WEIGHT</b>	<b>17,750 lb.</b>

**33,000 - 17,750 = 15,250 lb.**

**Estimated usable payload: 15,250 lb. (7.6 tons)**

(Actual legal payload will vary based on configuration, axle ratings, and load placement.)

**GVWR:** Gross Vehicle Weight Rating

**GAWR:** Gross Axle Weight Rating

### Payload Reality Check

With 15,250 lb. available:

- Roofing Debris (loose, tear-off) @ 1,800 lb/yd<sup>3</sup> (8.5 yd. max)
- Sand (dry) @ 2,700 lb/yd<sup>3</sup> (5.6 yd. max)
- Garbage (wet) @ 1,240 lb/yd<sup>3</sup> (12.3 yd. max)

This shows how easy it is to overload a truck by volume alone.

### Axle Weight & Load Placement — Critical Safety Note

- GVWR compliance does NOT guarantee axle compliance.
- Loads must also meet front and rear GAWR at the scale.

### Practical Setup Guidance:

- It is much harder to keep weight on the front axle than the rear axle.
- To improve axle balance:
  - Push the rear axle back as far as practical.
  - Keep the container/body as close to the back of the cab as practical.

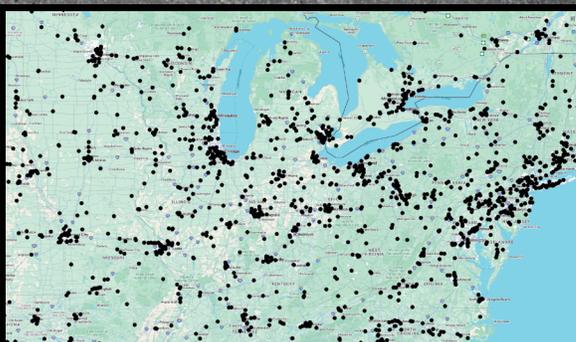
### Cab-to-Body Clearance (important):

- With tarp system: allow 12"
  - Without tarp system: allow 3–4"
- Accounts for cab movement and frame flex under load.

**Avoid** rear-axle overload and steering-axle underload, which can cause handling and braking issues and DOT violations.

### Safety Reminder

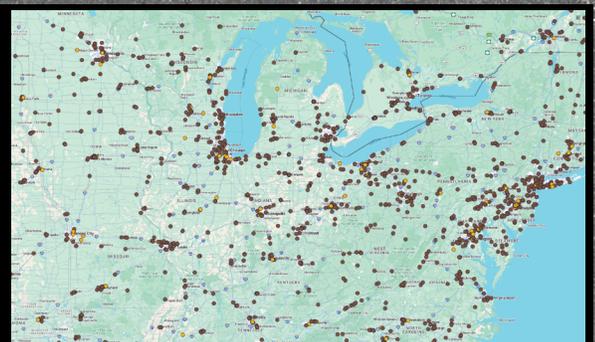
Always verify actual axle and gross weights on a certified scale. This worksheet is intended to improve planning, safety, and equipment longevity — not replace real-world weighing.



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