



SHIPPING TIPS – PALLETIZED & FLOOR-LOADED WHISKEY BARRELS

Victory Spirits Development | Kentucky Bourbon Logistics Guide

Assumptions (Standard Kentucky Aging)

- 53-gallon American oak barrel
- Whiskey weight \approx 7.1 lbs/gal
- Empty barrel (tare): \sim 100 lbs
- Heavy-duty pallet: \sim 50 lbs
- Pallet config: 4 barrels per pallet
- 53' dry van payload (typical): \sim 45,000 lbs (weight limit varies by tractor, trailer, and legal GVW)

4-Barrel Pallet Weight Summary

Barrel Age	Angel's Share	Weight / Barrel	4-Barrel Pallet
KY 4-Year	\sim 18%	\sim 408 lbs	\sim 1,680 lbs
KY 6-Year	\sim 25%	\sim 382 lbs	\sim 1,580 lbs
KY 8-Year	\sim 32%	\sim 356 lbs	\sim 1,475 lbs

Mini Chart – How Many Pallets Per Truck?

Truck Type	Max Payload	Pallets (4-Barrel)
26' Box Truck	\sim 26,000 lbs	15–16 pallets
53' Dry Van (FTL)	\sim 45,000 lbs	26–28 pallets
LTL Freight	Weight-based	1–10 pallets typical

Estimate – Full 53' Trailer Floor-Loaded (Not Palletized)

Typical single-layer floor-load capacity is constrained by BOTH space and weight.

- **Space cap (single layer):** \sim 96–104 barrels (assumes \sim 24–25" diameter barrels, upright, tight layout).
- **Weight cap (typical payload \sim 45,000 lbs):** max barrels = payload \div weight per barrel.

Practical planning rule: **use 90–100 barrels** depending on age and securement needs (dunnage/straps reduce usable space).

Scenario	Weight / Barrel	Max by Weight (\sim 45k)	Practical Max (Space-Limited)
New / near-full barrel	\sim 476 lbs	\sim 94 barrels	\sim 90–94
KY 4-Year	\sim 408 lbs	\sim 110 barrels	\sim 96–100
KY 6-Year	\sim 382 lbs	\sim 118 barrels	\sim 96–100

KY 8-Year	~356 lbs	~126 barrels	~96–100
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Recommended Carriers (Barrel Experience)

Sunteck TTS – Alyssa Gianino | Alyssa.gianino@suntecktts.com | 201-808-8398

Top Shelf Logistics – Brendan Hinton | bhinton@topshelflogistics.com | 209-627-3101

C.W. Whalbring Trucking – Garry Henzerling | Garry@tsttrans.com | 800-230-1808

Planning Note: Always book freight at the HIGH end of the weight range. Warehouse position, proof/volume loss, and stave saturation can shift actual weights.