

National Stored Vehicle Tare Study 2005 to 2006

Results as of December 15, 2005

- ✓ 3 States have reported data on 316 Stored Vehicle Tares from 31 locations.
 - The median number of trucks weighed each day at these locations was 137 (Range 70 to 550).
 - The median number of weighments made using stored tare values was 95% (Range 40 % to 100 %).
 - The median cost per-ton of the commodities weighed on scales at these locations was \$37.50 (Range \$5 to \$62).
 - 32 Vehicle Scales were tested
 - 23 (or 71 %) passed NIST HB 44 requirements.
 - Significant errors in stored tare values were found regardless of whether or not the scale passed or failed a test.
 - At locations where weigh-in and weigh-out scales were tested the differences at the same test load between the two scales were 340, 120, 20 and 100 lbs.
 - The frequency of reweighing varied widely at the locations visited: daily, every-other-day, weekly, bi-weekly, monthly, every 90-days, every 6-months, annually, or only on request.
- ✓ Industries surveyed: waste disposal, recycling, agricultural and aggregate.
- ✓ Numbers
 - Of the 316 tares verified
 - 254 (or 81%) were found to exceed +/- 0.2 %
 - 62 (or 19%) were within +/- 0.2 %
 - 157 (or 49%) were negative errors (which favor the seller in some transactions)
 - the errors in 71 (or 22%) were found to be more than 10 times the allowable error of +/- 0.2 %
 - the errors in 29 (or 9%) were found to be more than 20 times the allowable error of +/- 0.2 %
 - several other errors were more than 50 to 127 times the allowable error of +/- 0.2 %
 - Median Error -60 lbs (Range of errors 0 to -9500 lbs)
- ✓ Participating States
 - California
 - Indiana
 - Kansas
 - Maine
 - Maryland
 - Michigan
 - Nevada
 - New Mexico
 - Ohio
 - West Virginia

Keys to Column Headings and Data Entries

Tare Survey Code

1. Count: indicates the number of a stored tare value which was verified.
2. Location: indicates the number of the location where store tare values were verified.
3. State: Michigan = 1
Maryland = 2
California = 3
4. Month
5. Year
6. Business Type:
Quarry/Aggregate = 1
Landfill/Solid Waste = 2
Mining = 3
Asphalt = 4
Recycler = 5
Agricultural = 6
Chemical = 7
7. Frequency of Reweighing
Daily = 1
Every Other Day = 2
Weekly = 3
Bi-Weekly = 4
Monthly = 5
Every 90 Days = 6
Every 6 months = 7
Annually = 8
Only on Request = 9
Weigh-in & Weigh-Out = 10
At the start of the Season (agricultural – tomatoes) = 11
8. Scale Use
Buying = 1
Selling = 2
Buying and Selling = 3
Service
9. Type of Commodity
Waste Disposal/Recycling = 1
Aggregate = 2
Agricultural (tomatoes) = 3
10. Truck Type
Dump Truck = 1
Tractor-Trailer = 2
Compactor = 3
Roll-Off Box = 4
Pick-Up/Flat Bed Truck = 5
Truck-Tractor = 6

Scales

Pass = 1
Fail = 2