

Table T.1.1. Tolerances for Unmarked Scales						
Type of Device	Subcategory	Minimum Tolerance	Acceptance Tolerance	Maintenance Tolerance	Decreasing-Load Multiplier ¹	Other Applicable Requirements
Vehicle, axle-load, livestock, railway track (weighing statically), crane, and hopper (other than grain hopper)		Class III L, T.N.3.1 (Table 6) and T.N.3.2.			1.0	T.N.2., T.N.3., T.N.4.1., T.N.4.2., T.N.4.3., T.N.4.4., T.N.5., T.N.7.2., <i>T.N.8.1.4.⁴</i> , T.N.9.
Grain test scales	n ≤ 10 000 n > 10 000	Class III, T.N.3.1. (Table 6) and T.N.3.2. Class II, T.N.3.1. (Table 6) and T.N.3.2.			1.0	<i>T.N.8.1.4.⁴</i> , T.N.9.
Railway track scales weighing in motion		T.N.3.6. except that for T.N.3.6.2. (a), no single error shall exceed four times the maintenance tolerance.			1.0	<i>T.N.8.1.4.⁴</i> , T.N.9.
Monorail scales, in-motion		T.N.3.8.			1.0	<i>T.N.8.1.4.⁴</i> , T.N.9.
Customer-operated bulk-weighing systems for recycled materials		± 5 % of applied material test load. Average error on 10 or more test loads ≤ 2.5 %.			1.0	<i>T.N.8.1.4.⁴</i> , T.N.9.
Wheel-load weighers and portable axle-load scales	Tested individually or in pairs ²	0.5 d or 50 lb, whichever is greater	1 % of test load	2 % of test load	1.5 ³	<i>T.N.8.1.4.⁴</i> , T.N.9.
Prescription scales		0.1 grain (6 mg)	0.1 % of test load	0.1 % of test load	1.5	<i>T.N.8.1.4.⁴</i> , T.N.9.
Jewelers' scales	Graduated	0.5 d	0.05 % of test load	0.05 % of test load	1.5	<i>T.N.8.1.4.⁴</i> , T.N.9.
	Ungraduated	Sensitivity or smallest weight, whichever is less				
Dairy-product test scale	Loads < 18 g 18 g load	0.2 grain 0.2 grain	0.2 grain 0.3 grain	0.2 grain 0.5 grain	1.5	<i>T.N.8.1.4.⁴</i> , T.N.9.
Postal and parcel post scales designed/used to weigh loads < 2 lb	Loads < 2 lb	15 grain, 1 g, 1/32 oz, 0.03 oz, or 0.002 lb	15 grain, 1 g, 1/32 oz, 0.03 oz, or 0.002 lb	15 grain, 1 g, 1/32 oz, 0.03 oz, or 0.002 lb	1.5	<i>T.N.8.1.4.⁴</i> , T.N.9.
	Loads ≤ 2 lb	Table 5	Table 5	Table 5		
Other postal and parcel post scales		Table 5	Table 5	Table 5	1.5	<i>T.N.8.1.4.⁴</i> , T.N.9.
All other scales (including grain hopper)	n > 5000	0.5 d or 0.05 % of scale capacity, whichever is less	0.05 % of test load	0.1 % of test load	1.5	T.N.2.5., T.N.4.1., T.N.4.2., T.N.4.3., T.N.5., T.N.7.2., <i>T.N.8.1.4.⁴</i> , T.N.9.
	n ≤ 5000	Class III, T.N.3.1., Table 6 and T.N.3.2.			1.0	T.N.2., T.N.3., T.N.4.1., T.N.4.2., T.N.4.3., T.N.5., T.N.7.2., <i>T.N.8.1.4.⁴</i> , T.N.9.
¹ The decreasing load test applies only to automatic indicating scales.						
² If marked and tested as a pair, the tolerance shall be applied to the sum of the indication.						
			³ The decreasing load test does not apply to portable wheel load weighers.			
			⁴ <i>T.N.8.1.4. Operating Temperature. is nonretroactive and effective for unmarked devices manufactured as of January 1, 1981.</i>			

(Table Added 1990) (Amended 1992, 1993, and 2012)