Table 15-3. Enhanced Fujita scale for tornado-damage intensity. *(Derived-scale speeds from NOAA Storm Prediction Center.)*

Scale	Derived Max Tangential 3 s Gust Speed (m/s)	Operational Scales		Damage Classification Description (from the old Fujita F scale)	Relative Frequency	
		EF Scale (stat. miles/h)	Old F Scale (km/h)		USA	Canada
EF0	29.1 – 38.3	65 – 85	64 – 116	**Light** damage; some damage to chimneys, TV antennas; breaks twigs off trees; pushes over shallow-rooted trees.	29%	45%
EF1	38.4 – 49.1	86 – 110	117 – 180	**Moderate** damage; peels surface off roofs; windows broken; light trailer homes pushed or turned over; some trees uprooted or snapped; moving cars pushed off road.	40%	29%
EF2	49.2 – 61.6	111 – 135	181 – 252	**Considerable** damage; roofs torn off frame houses leaving strong upright walls; weak buildings in rural areas demolished; trailer houses destroyed; large trees snapped or uprooted; railroad boxcars pushed over; light object missiles generated; cars blown off roads.	24%	21%
EF3	61.7 – 75.0	136 – 165	253 – 330	**Severe** damage; roofs and some walls torn off frame houses; some rural buildings completely destroyed; trains overturned; steel-framed hangars or warehouse-type structures torn; cars lifted off of the ground; most trees in a forest uprooted or snapped and leveled.	6%	4%
EF4	75.1 – 89.3	166 – 200	331 – 417	**Devastating** damage; whole frame houses leveled leaving piles of debris; steel structures badly damaged; trees debarked by small flying debris; cars and trains thrown some distance or rolled considerable distances; large wind-blown missiles generated.	2%	1%
EF5	≥ 89.4	> 200	418 – 509	**Incredible** damage; whole frame houses tossed off foundation and blown downwind; steel-reinforced concrete structures badly damaged; automobile-sized missiles generated; incredible phenomena can occur.	< 1%	0.1%