

Appendix B

EF–SCALE RATING FOR RANDOM RESIDENTIAL STRUCTURES

Building ID Number ¹⁶⁰	Pictometry Analysis Damage Level ¹	NIST EF Analysis			NIST Wind Field Model	
		Damage Indicator ¹⁶¹ (DI)	Degree of Damage ¹⁶² (DOD)	Estimated Wind Speed (mph)	Estimated Wind Speed (mph)	Closest Grid Point Number
1387	Light	2	1	65	75	2691
1528	Light	2	2	75	100	3712
1957	Light	2	2	79	100	500
3442	Light	2	2/4	85	115	1542
3453	Light	2	1/2	85	90	1504
3914	Light	2	1/2	75	100	1664
4167	Light	2	2/4	85	130	1855
5841	Light	2	1	65	90	1326
6350	Light	2	2/4	85	110	1732
8317	Light	2	2	85	110	1744
565	Medium	2	4	90	90	1908
1313	Medium	2	2	80	100	1489
2357	Medium	2	2/4	85	155	858
2674	Medium	2	2/4	85	135	1099
3009	Medium	2	4	100	105	1221

¹⁶⁰ Data Source: Pictometry®. Used with Permission.

¹⁶¹ DI 2 description: One–and Two–Family Residences (TTU, 2006).

¹⁶² Degree of Damage descriptions for DI 2 (TTU, 2006):

DOD Description

- 1 Threshold of visible damage
- 2 Loss of roof covering material (<20%), gutters and/or awning; loss of vinyl or metal siding
- 3 Broken glass in doors and windows
- 4 Uplift of roof deck and loss of significant roof covering material (>20%); collapse of chimney; garage doors collapse inward; failure of porch or carport
- 5 Entire house shifts off foundation
- 6 Large sections of roof structure removed; most walls remain standing
- 7 Exterior walls collapsed
- 8 Most walls collapsed, except small interior rooms
- 9 All walls
- 10 Destruction of engineered and/or well–constructed residence; slab swept clean

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4254	Medium	2	4	95	140	1896
5540	Medium	2	4/6	110	110	528
6002	Medium	2	6	120	135	1412
6188	Medium	2	4	95	130	1613
7101	Medium	2	2/4	90	80	4943
1761	Heavy to Totaled	2	6	115	140	4147
2831	Heavy to Totaled	2	4/6	95	135	1139
2874	Heavy to Totaled	2	4	115	170	1136
3948	Heavy to Totaled	2	4	115	105	1704
4954	Heavy to Totaled	2	4/6	105	160	2823
5075	Heavy to Totaled	2	6	130	165	173
5121	Heavy to Totaled	2	6	125	170	92
5364	Heavy to Totaled	2	6	125	105	207
5570	Heavy to Totaled	2	6	122	125	650
5797	Heavy to Totaled	2	6/7	125	170	1293
1403	Demolished	2	6	130	170	3106
1580	Demolished	2	6	120	160	3788
3559	Demolished	2	6/7	130	170	1495
3683	Demolished	2	8/9	155	165	1619
3781	Demolished	2	6	130	170	1656
4321	Demolished	2	8/9	160	170	2020
4672	Demolished	2	9	175	170	2584
5502	Demolished	2	9	175	170	374
5888	Demolished	2	4	110	170	1415
7181	Demolished	2	8	155	170	4776