



Corporate Report on the 8 July 2015 Tornado of Mira (VE), Italy

Attachment 2: List of damage ratings

No.	latitude	longitude	DI	DoD	Rating	direction of fallen trees (direction opposite to wind direction)	Other information
1	45.446	120.393	J	2	F1+	120	NW-SE tree fell down
2	45.448	120.471	C	2.5	F1+		first touchdown according to house. Eyewitness house owner: trees were lifted up
3	454.478	120.476	I	5	F1-	90	vineyard flattened dir W-E
4	454.484	120.482	E	1	F2-		cone moved up and down according to eyewitness
5	454.467	120.467	I	5	F1-	90	vineyard flattened dir W-E
6	454.472	120.465	E	1	F2-		
7	45.448	120.453	J	4	F2-	90	few young trees snapped
8	454.491	120.397	E	0	F1-		some shingles gone
9	454.502	120.428	E	0.5	F1+		
10	454.497	120.466	E	1	F2-		roof damaged, some trees gone
11	454.496	120.471	E	1	F2-		tornadic convergence (street signs, corn)
12	454.496	120.471					electric pole bent
13	454.423	120.609	F	0.5	F2-		industrial fence broken. Around 17:40 wind noise: all doors closed - less damage than neighbors factory. Truck flipped over small wall
14	454.437	120.665	F	1	F2+		metal roof cover blown away
15	454.432	120.643	J	2	F1+	90	uprooted tree
16	454.427	120.643	J	2	F1+	180	iron fence, trees fell towards S
17	454.415	120.645				90	debris, waste containers
18	454.421	120.671	B	3	F2-	270	broken concrete wall
19	454.411	120.671				180	mais/corn bent
20	454.404	120.671	E	1	F2-		
21	454.391	12. Jul	E	1	F2-		
22	454.392	12. Jul	C	2	F2-		
22a	454.392	12. Jul	E	1	F2-		
23	45.441	12.074	E	0	F1-		
24	454.393	120.742	E	1	F2-		
25	454.355	120.748	E	1	F2-		
26	454.337	12.075	E	0	F1-		
27	454.286	120.909	J	4	F2		field of young trees snapped
28	454.315	120.958	J	4	F2	320	large tree
29	454.315	120.948	E	1	F2-	220	corn
30	454.314	120.934	E	2	F3-		
31	454.303	120.924	E	2	F3-		
32	454.295	12.094	D	2.5	F3-		three times next to each other
33	454.286	120.937	E	1	F2-		
34	454.274	121.001					southern end of strong field erosion (soy beans)
35	454.288	121.002					northern end
36	454.276	120.987	C	4	F3+		
37	454.268	121.018	D-E	3	F3+		
37a	454.268	121.018	D	4	F4		
38	454.276	121.017	D	4	F4		debarking
39	454.271	121.027	D	4	F4		weak brick connections (mortar very old and sandy, therefore not F5)
40	454.266	121.103	E	0	F1-		
41	454.255	121.107	E	1	F2-		
42	454.244	121.108	E	2	F3-		
43	45.423	121.118	E	3	F4		
44	45.423	121.122	D	3	F3+		
44a	45.423	121.122	E	2.5	F3+		
45	454.228	121.133				80	concrete power pole snapped
46	454.224	121.153					concrete debris in field
47	454.221	121.165	K	5	F3	40	snapped and debarked tree
48	454.249	12.106	E	2.5	F3+		circulation center
49	454.184	121.294	E	0	F1-		
50	454.188	12.125	K	5	F3-		group of trees snapped
51	454.177	121.268	K	5	F3-		railway dam, central tornado line

52	454.173	121.265	D-E	2	F2+		roof gone
53	454.134	121.342				150	tree
54	454.084	121.409	E	1	F2-		trees snapped
55	454.083	121.453	J	4	F2-		many smashed windows
55a	454.084	12.145	F	1	F2+		
56	454.082	121.489	E	1	F2-		
57	454.057	121.525				110	broken wooden pole (overgrown phone line)
58	454.008	121.595	C	1	F1		farm outbuilding in open field, debris track in harvested field
59	453.988	121.672					open field near coastal sand dune: no visible damage (only DI is a soy bean field that seems untouched), but leightweight debris visible
60	454.264	121.039	E	3	F4		via photo
61	454.297	120.904	F	1	F2+		
62	454.238	121.076			F2		Twisted high voltage mast close to tornado center
63	454.224	121.145	E	2	F3		
64	454.227	121.147					Steel-reinforced concrete construction part (about 20 by 20 by 200 cm) found in trench
65	454.288	121.078	A	0	F0		7 Alberto
66	454.276	121.050	E	1	F2-		13 Alberto
67	454.277	121.051	J	3	F1+		13 Alberto
68	454.275	121.049	J	4.5	F2		16 Alberto
69	454.274	121.048	E	1	F2		16 Alberto
70	454.269	121.057	E	1	F2		17 Alberto
71	454.272	121.046	E	2	F3-		18 Alberto
72	454.269	121.039					22 Alberto, cars flipped and moved into water channel
73	454.267	121.042	J	5	>=F2		23 Alberto
74	454.265	121.038	E	3	F4-		24 Alberto
75	454.267	121.029	E	2	F3		27 Alberto
76	454.262	121.008	J	4	F2		35 Alberto, street sign bent
77	454.264	121.008	E	1	F2		38 Alberto
78	454.262	121.033	D	2.5	F3-		39 Alberto
79	454.240	121.108	E	2	F3-		42 Alberto
80	454.239	121.104	K	5	>=F3		43 Alberto, total except palm tree
81	454.242	121.115	E	1	F2		44 Alberto
82	454.245	121.105	E	1	F2-		45 Alberto
83	454.234	121.117	D	3	F3+		47 Alberto
84	454.246	121.102					49 Alberto, one outer wall collapsed, but roof still there, seems to be a weekness in the outer wall, no rating
85	454.244	121.064	E	2	F3		51 Alberto
86	454.241	121.116	E	1	F2		52 Alberto
87	454.241	121.119	E	1	F2		53 Alberto
88	454.236	121.123	E	2.5	F3		55 Alberto
89	454.227	121.135	D	3	F3+		56 Alberto
90	454.224	121.114	E	1	F2		63 Alberto
91	454.223	121.116	E	1	F2		64 Alberto
92	454.245	121.105					68 Alberto, overturned car displaced to here
93	454.271	121.022	E	3	F4-		71 Alberto
94	454.392	120.701	E	1	F2		72 Alberto
95	454.374	120.729	E	1	F2		73 Alberto
96	454.360	120.752	F	1	F2+		74 Alberto, car thrown and landed here inbetween iron columns
97	454.356	120.760	E	1	F2		75 Alberto
98	454.414	120.674	F	1	F2+		76 Alberto
99	454.402	120.677	E	1	F2		77 Alberto
100	454.399	120.662	E	1	F2		78 Alberto
101	454.392	120.701	E	1	F2		79 Alberto
102	454.312	120.924	E	1	F2		81 Alberto
103	454.310	120.903					82 Alberto, road signs bent, pointing together, center line!?
104	454.203	121.212	D	3	F3+		85 Alberto
105	454.493	120.472	E	1	F2		93 Alberto
106	454.314	120.918	E	2	F3-		101 Alberto
107	454.312	120.930	E	2	F3-		102 Alberto
108	454.311	120.929	E	2	F3-		103 Alberto
109	454.310	120.923	E	2	F3-		104 Alberto
110	454.302	120.923	E	1	F2		105 Alberto
111	454.304	120.923	E	2	F3		106 Alberto
112	454.296	120.941	E	2	F3		109 Alberto
113	454.298	120.942	F	1	F2+		110 Alberto
114	454.293	120.940	D	3	F3		111 Alberto
115	454.293	120.938	F	1	F2+		112 Alberto, very interesting damage: concrete outer walls intact, but inner weak brick wall bent due do Bernoulli effect (gap flow trough large gates of a hall/work shop)
116	454.293	120.937	D	3	F3		113 Alberto, garden wall next to concrete hall partly blown down (wind enhanced because of big neighboring wall!?)
117	454.292	120.939	E	1	F2		114 Alberto
118	454.287	120.956	J	5	>=F2		117 Alberto
119	454.274	120.984	D	3	F3+		119 Alberto
120	454.247	121.063	E	2	F3		124 Alberto