

Supplementary Material

Fig. S1 - Melting curves (a) and Amplification curves (b) obtained from real-time PCR of DNA from *V. dahliae* infected samples in a SyberGreen assay using VertBt primers set. Lines in red correspond to standard DNA of *Verticillium dahliae*, whereas lines in blue and green correspond to plant DNA samples and negative control (water) respectively.

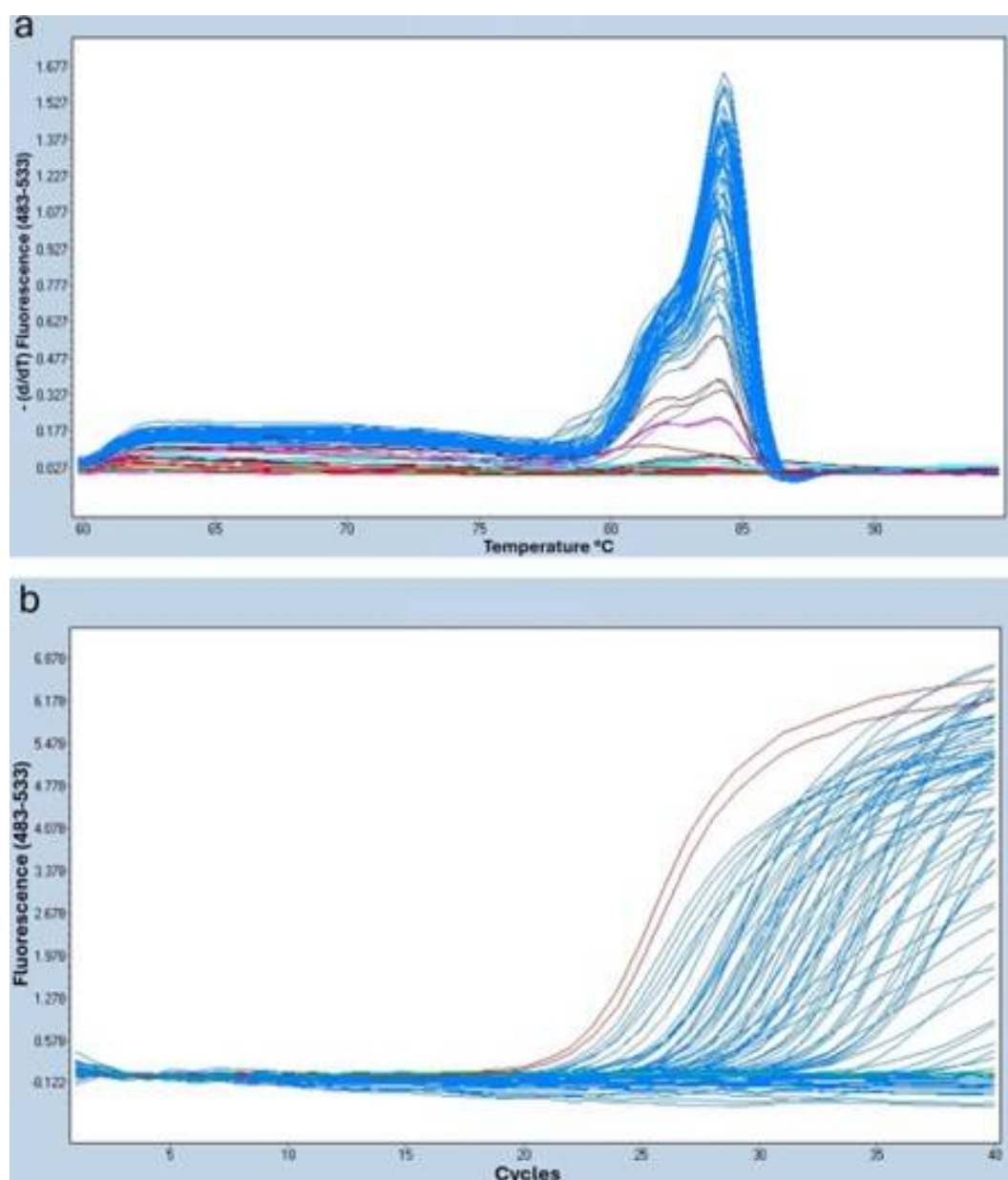


Fig. S2 - Effect of the artificial inoculation of *Verticillium dahliae* on *Ailanthus altissima* seedlings: the decolouration of wood tissues is indicated by the red arrows.



Tab. S1 - Foci of *Ailanthus altissima* wilt in Trentino South-Tyrol: site characteristics, disease damages and *Verticillium dahliae* presence. Yes = damaged regeneration presence; No= absence of damaged regeneration; Nt= not tested, ns = not sampled, + = *V. dahliae* detected , - = *V. dahliae* not detected.

N	Year	Site	Province	Y	X	Altitude m	slope %	aspects	substrate	Soil	Position	Ailanthus stand	Affected plants	Dead plants	Damaged regeneration	Presence of other species	Context	Isolation on PDA	V. dahliae fruiting bodies in moist chamber	± C %
1	2017	Rovereto	TN	45,87714	11,02665	177	0	SE	limestone	deep soil	valley bottom	>10	>10	>10	Yes	No	periurban	+	nt	nt
2	2018	Rovereto	TN	45,85868	11,00118	169	0	E	limestone	deep soil	valley bottom	>10	>10	>10	Yes	No	urban	+	nt	+
3	2018	Rovereto	TN	45,86171	11,00244	172	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	-	Yes	No	urban	-	-	+
4	2018	Mori	TN	45,85885	11,001072	169	0	O	limestone	surface soil	valley bottom	>10	>10	>10	Yes	<i>Populus x canadensis, Celtis australis</i>	urban	-	nt	+
5	2018	Mori	TN	45,85504	10,94724	248	40	S	limestone	surface soil	slope	>10	>10	>10	No	<i>Robinia pseudoacacia</i>	periurban	nt	+	+
6	2018	Isera	TN	45,88747	11,007	259	20	SE	limestone	surface soil	slope	>10	>10	>10	Yes	<i>Celtis australis</i>	wood	-	-	+
7	2018	Aldeno	TN	46,00682	11,1063	197	30	E	limestone	surface soil	slope	>10	>10	>10	No	<i>Ostrya carpinifolia, Celtis australis</i>	wood	-	-	-
8	2018	Aldeno	TN	46,00469	11,10576	209	0	E	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	<10	No	No	periurban	+	nt	+
9	2018	Romagnano	TN	46,01177	11,10503	199	10	E	limestone	surface soil	slope	>10	from 2 to 10	<10	Yes	No	wood	nt	nt	+
10	2018	Mezzolombardo	TN	46,23427	11,06043	261	30	N	limestone	surface soil	slope	>10	>10	>10	No	<i>Corylus avellana, Ostrya carpinifolia, Fraxinus ornus</i>	wood	nt	nt	+
11	2018	Gargazzone	BZ	46,581	11,21186	251	40	SE	siliceon	surface soil	slope	>10	from 2 to 10	>10	Yes	<i>Celtis australis, Robinia pseudoacacia</i>	wood	+	nt	+
12	2018	Gargazzone	BZ	46,57872	11,21968	449	25	SE	siliceon	surface soil	slope	>10	from 2 to 10	>12	Yes	<i>Fraxinus ornus, Ostrya carpinifolia, Robinia pseudoacacia</i>	wood	-	-	-
13	2018	Lana	BZ	46,57731	11,17277	248	40	NO	siliceon	surface soil	slope	>10	>10	>13	Yes	<i>Ulmus minor</i>	wood	-	nt	+
14	2018	Levico	TN	46,02387	11,37211	440	0	SE	limestone	deep soil	valley bottom	>10	from 2 to 10	>14	Yes	<i>Robinia Pseudoacacia, Corylus avellana</i>	periurban	-	-	+
15	2018	Roncegno	TN	46,0445	11,42137	403	0	N	limestone	deep soil	valley bottom	>10	from 2 to 10	<10	Yes	<i>Fraxinus ornus, Acer campestre, Robinia pseudoacacia</i>	wood	nt	+	+
16	2018	Mezzolombardo	TN	46,21927	11,08459	286	20	N	limestone	surface soil	slope	1	1	1	No	<i>Corylus avellana, Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	+	+
17	2018	Denno	TN	46,25547	11,0582	302	0	N	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	-	Yes	<i>Corylus avellana, Robinia pseudoacacia, Fraxinus ornus</i>	wood	nt	-	+
18	2018	Dro	TN	46,00776	10,93361	239	0	E	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	-	No	No	wood	nt	nt	+

N	Year	Site	Province	Y	X	Altitude m	slope %	aspects	substrate	Soil	Position	Ailanthus stand	Affected plants	Dead plants	Damaged regeneration	Presence of other species	Context	Isolation on PDA	V. dahliae fruiting bodies in moist chamber	Q _{PCR}
19	2018	Dro	TN	45,98273	10,92011	204	0	NE	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	1	Yes	<i>Ostrya carpinifolia</i> , <i>Fraxinus ornus</i>	periurban	-	-	+
20	2018	Dro	TN	45,97562	10,92428	184	0	E	limestone	surface soil	valley bottom	>10	from 2 to 10	<10	Yes	<i>Fraxinus ornus</i>	periurban	-	-	+
21	2018	Arco	TN	45,92083	10,85761	102	0	E	limestone	surface soil	slope	>10	from 2 to 10	<10	Yes	<i>Robinia pseudoacacia</i>	wood	-	nt	+
22	2018	Arco	TN	45,91886	10,85515	169	0	E	limestone	surface soil	valley bottom	>10	from 2 to 10	<10	Yes	<i>Olea europea</i> , <i>Morus</i>	wood	-	-	+
23	2018	Riva del Garda	TN	45,89906	10,83623	99	0	E	limestone	surface soil	slope	from 2 to 10	from 2 to 10	<10	Yes	No	wood	+	-	+
24	2018	Trento	TN	46,05564	11,11168	183	0	E	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	<10	No	No	wood	nt	+	+
25	2018	Trento	TN	46,05456	11,11161	183	0	E	limestone	surface soil	valley bottom	>10	>10	>10	Yes	No	wood	nt	+	+
26	2018	Besenello	TN	45,95028	11,1067	187	0	SO	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	<10	Yes	No	periurban	nt	-	+
27	2018	Dolce	TN	45,68635	10,91324	141	0	O	limestone	surface soil	valley bottom	>10	>10	<10	No	<i>Ostrya carpinifolia</i> , <i>Robinia carpinifolia</i> , <i>Populus x canadensis</i>	wood	nt	-	+
28	2018	Avio	TN	45,69435	10,92554	128	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	-	Yes	No	periurban	-	-	+
29	2018	Rovereto	TN	45,85065	11,01351	175	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	<10	Yes	<i>Pinus x canadensis</i> , <i>fraxinus ornus</i> , <i>frutiferi</i>	wood	-	nt	-
30	2018	Marco di R.	TN	45,84193	11,01232	181	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	<10	No	<i>Robinia pseudoacacia</i>	wood	nt	-	+
31	2018	Mezzocorona	TN	46,22146	11,09946	224	0	E	limestone	surface soil	valley bottom	>10	from 2 to 10	-	No	<i>Robinia pseudoacacia</i> , <i>Corylus avellana</i> , <i>Fraxinus ornus</i> , <i>Ulmus minor</i>	wood	-	-	+
32	2018	Cavedine	TN	45,99036	10,94242	247	0	O	limestone	surface soil	valley bottom	>10	from 2 to 10	<10	Yes	<i>Fraxinus Ornus</i> , <i>Corylus avellana</i> , <i>Robinia pseudoacacia</i> , <i>Pinus x canadensis</i>	wood	-	nt	+
33	2018	Trento	TN	46,07722	11,13081	302	30	O	limestone	surface soil	valley bottom	1	1	1	No	<i>Celtis australis</i> , <i>Picea abies</i> , <i>Prunus laurocerasus</i>	urban	nt	+	+
34	2018	Ora	BZ	46,33659	11,29438	377	10	O	siliceon	surface soil	slope	>10	>10	>10	Yes	<i>Ostrya carpinifolia</i> , <i>Pinus silvestre</i> , <i>populus</i>	wood	nt	nt	-
35	2018	Bronzolo	BZ	46,39189	11,31589	221	20	O	siliceon	surface soil	valley bottom	>10	>10	-	No	<i>Fraxinus ornus</i> , <i>Pinus silvestre</i> , <i>Robinia pseudoacacia</i>	wood	nt	nt	+
36	2018	Rovere	TN	46,24762	11,16471	224	0	E	limestone	surface soil	valley bottom	>10	>10	>10	Yes	No	periurban	+	nt	+
37	2018	Mezzocorona	TN	46,22616	11,13561	200	0	E	limestone	surface soil	valley bottom	>10	>10	>10	Yes	<i>Fraxinus ornus</i>	periurban	nt	nt	+
38	2018	Nomi	TN	45,93163	11,08371	179	10	E	limestone	surface soil	slope	>10	from 2 to 10	<10	Yes	<i>Fraxinus ornus</i> , <i>Robinia pseudoacacia</i>	periurban	nt	nt	+

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39	2018	Mesiano/uni	TN	46,06493	11,13935	272	10	O	limestone	surface soil	slope	>10	>10	>10	Yes	<i>Robinia pseudoacacia</i>	wood	nt	-	-
40	2018	TN/Vela	TN	46,08697	11,0952	226	10	E	limestone	surface soil	valley bottom	>10	>10	>10	Yes	<i>Robinia pseudoacacia, Fraxinus ornus, Corylus avellana</i>	wood	-	-	-
41	2018	Mezzolombardo	TN	46,23146	11,06957	289	10	S	limestone	surface soil	valley bottom	>10	>10	<10	No	<i>Fraxinus ornus</i>	wood	-	-	+
42	2018	Denno	TN	46,2676	11,06279	300	30	N	limestone	surface soil	slope	>10	>10	<10	Yes	No	wood	nt	nt	+
43	2018	Denno	TN	46,26387	11,05989	302	20	N	limestone	surface soil	slope	>10	>10	-	Yes	No	wood	nt	+	+
44	2018	Zambana	TN	46,15967	11,07179	210	0	E	limestone	surface soil	slope	>10	>10	<10	Yes	No	wood	nt	nt	+
45	2018	Zambana	TN	46,15224	11,07674	199	10	E	limestone	surface soil	valley bottom	>10	>10	-	No	No	wood	nt	nt	+
46	2019	Ravina	TN	46,04167	11,10461	246	10	E	limestone	surface soil	slope	>10	>10	>10	Yes	<i>Ulmus minor, Ostrya carpinifolia</i>	wood	nt	+	+
47	2019	Mattarello	TN	46,01139	11,13888	311	20	E	limestone	surface soil	slope	>10	>10	>10	Yes	<i>Robinia pseudoacacia, Catalpa Bignonioides</i>	periurban	nt	nt	+
48	2019	Mattarello parccheggio	TN	46,02129	11,14808	482	10	E	limestone	surface soil	slope	>10	>10	-	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	periurban	nt	nt	+
49	2019	Terlano	BZ	46,52594	11,253	255	0	S	limestone	surface soil	valley bottom	1	1	-	No	No	periurban	nt	nt	+
50	2019	wood S.Margh	BZ	46,51728	11,2649	272	0	S	limestone	surface soil	valley bottom	>10	from 2 to 10	<10	Yes	<i>Corylus avellana, Robinia pseudoacacia</i>	wood	nt	nt	-
51	2019	Caldaro	BZ	46,416	11,24928	407	10	E	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	<10	No	No	urban	nt	nt	+
52	2019	Rovere	TN	46,26864	11,20948	218	20	E	limestone	surface soil	slope	>10	from 2 to 10	<10	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	nt	+
53	2019	Livo	TN	46,39555	11,03224	538	20	SO	limestone	surface soil	slope	>10	>10	<10	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia, Picea abies, Fraxinus ornus</i>	wood	nt	nt	+
54	2019	Meano/Gazzadina	TN	46,13208	11,12481	402	40	no	siliceon	surface soil	slope	from 2 to 10	> 10	-	No	No	wood	nt	nt	-
55	2019	Meano/S.Lazzaro	TN	46,13302	11,11545	284	10	O	limestone	surface soil	slope	>10	>10	<10	No	<i>Robinia Pseudoacacia</i>	perurban	nt	nt	-
56	2019	Ledro/Pregasina	TN	45,85665	10,82972	358	10	NO	limestone	surface soil	slope	>10	>10	-	No	No	wood	nt	nt	-
57	2019	Ledro	TN	45,86404	10,81241	478	10	NO	limestone	surface soil	slope	1	1	-	No	No	wood	nt	nt	+
58	2019	Bolzano	BZ	46,50695	11,46333	346	10	E	limestone	surface soil	valley bottom	>10	from 2 to 10	<10	Yes	<i>Populus x canadensis, Robinia pseudoacacia, Alnus x canadensis</i>	wood	nt	+	+
59	2019	Appiano	BZ	46,49189	11,24906	318	5	NE	siliceon	deep soil	valley bottom	>10	from 2 to 10	<10	Yes	<i>frutiferi</i>	wood	nt	nt	+

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60	2019	Appiano	BZ	46,4901	11,24731	366	15	N	limestone	surface soil	slope	>10	>10	-	No	No	wood	-	nt	-
61	2019	Appiano	BZ	46,44712	11,25563	469	40	E	limestone	surface soil	plateau	>10	>10	<10	Yes	No	urban	-	nt	+
62	2019	Pietramurata	TN	46,00317	10,92915	244	5	SE	limestone	surface soil	valley bottom	>10	>10	<10	Yes	<i>Populus x canadensis, Robinia pseudoacacia</i>	wood	nt	+	+
63	2019	Riva del garda	TN	45,90004	10,83442	148	40	E	limestone	surface soil	slope	>10	from 2 to 10	<10	Yes	<i>Olea europea</i>	periurban	nt	nt	+
64	2019	Nago / salita	TN	45,87868	10,88648	196	5	O	limestone	surface soil	slope	>10	>10	>10	Yes	<i>Ficus carica, Fraxinus ornus</i>	wood	nt	nt	+
65	2019	Nago	TN	45,87808	10,90033	240	20	S	limestone	surface soil	valley bottom	from 2 to 10	>10	<10	Yes	<i>Celtis australis, Robinia pseudoacacia, Vitis</i>	periurban	nt	nt	+
66	2019	Rovereto/zingari	TN	45,859155	11,022832	174	0	O	limestone	surface soil	valley bottom	>10	>10	<10	No	<i>Pinus x canadensis, Pinus wallichiana, Robinia, pseudoacacia, Populus x canadensis</i>	periurban	nt	nt	-
67	2019	Rovereto	TN	45,88725	11,03463	190	0	S	limestone	surface soil	valley bottom	1	1	-	No	<i>Ulmus minor</i>	urban	nt	nt	+
68	2019	Trento/castello	TN	46,0735	11,12684	203	0	SO	limestone	surface soil	valley bottom	>10	>10	<10	No	<i>Robinia pseudoacacia</i>	urban	nt	nt	-
69	2019	Trento sud	TN	46,04363	11,13905	273	0	SO	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	<10	No	<i>Ulmus minor</i>	urban	nt	nt	-
70	2019	Trento sud/enoteca	TN	46,03339	11,13032	185	40	S	limestone	surface soil	slope	>10	>10	>10	Yes	<i>Ulmus minor, Acer campestris</i>	periurban	nt	+	+
71	2019	Trento/sardagna	TN	46,06821	11,0932	659	40	E	limestone	surface soil	slope	>10	from 2 to 10	-	No	<i>Robinia pseudoacacia</i>	wood	nt	nt	-
72	2019	Trento/sardagna	TN	46,07273	11,09341	524	40	E	limestone	surface soil	slope	>10	>10	<10	Yes	No	wood	nt	nt	+
73	2019	Trento/sardagna	TN	46,07043	11,10127	452	40	E	limestone	surface soil	slope	>10	from 2 to 10	<10	Yes	<i>Corylus avellana, Ostrya carpinifolia</i>	wood	nt	+	+
74	2019	Trento	TN	46,07318	11,09893	333	40	E	limestone	surface soil	slope	>10	>10	>10	Yes	<i>Ostrya carpinifolia, Robinia pseudoacacia</i>	periurban	-	nt	-
75	2019	Trento	TN	46,074	11,10237	250	20	E	limestone	surface soil	slope	>10	>10	<10	No	<i>Robinia pseudoacacia, Corylus avellana</i>	wood	-	nt	ns
76	2019	Sorni (TN)	TN	46,17731	11,12289	208	45	SO	limestone	surface soil	slope	>10	1	1	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	-	nt	-
77	2019	Mezzolombardo	TN	46,22486	11,0751	351	25	N	limestone	surface soil	slope	>10	>10	-	No	<i>Ostrya carpinifolia, Robinia pseudoacacia, Pinus silvestre</i>	wood	-	nt	-
78	2019	Martignano	TN	46,08581	11,13348	392	0	SO	limestone	surface soil	plateau	from 2 to 10	from 2 to 10	<10	No	<i>Acer campestre, Lonicera, Acer negundo</i>	periurban	nt	nt	+
79	2019	Martignano	TN	46,08164	11,12687	392	5	SO	limestone	surface soil	plateau	from 2 to 10	from 2 to 10	<10	Yes	<i>Robinia pseudoacacia</i>	urban	nt	nt	+
80	2017	Silandro	TN	46,619005	10,754467	771	15	NO	limestone	surface soil	conca	>10	>10	>10	Yes	No	wood	+	nt	nt

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81	2020	Villetta ala	TN	45,80346	11,01241	155	30	E	limestone	surface soil	slope	from 2 to 10	from 2 to 10	<10	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia, Ulmus minor</i>	wood	nt	nt	-
82	2020	Vosinistro	TN	45,73522	10,96311	170	5	N	limestone	deep soil	slope	>10	from 2 to 10	from 2 to 10	Yes	<i>Ostrya carpinifolia, ulmus minor</i>	wood	nt	nt	-
83	2020	Confine veneto	TN	45,68655	10,9135	166	0	O	limestone	deep soil	valley bottom	from 2 to 10	<2	<2	No	<i>Populus, Robinia pseudoacacia, Salix</i>	wood	nt	nt	-
84	2020	Mori cem	TN	45,83536	10,99754	157	10	NE	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	<10	Yes	<i>Cotinus, fraxinus ornus</i>	wood	nt	nt	+
85	2020	Rov viale verona	TN	45,87153	11,03129	186	0	O	limestone	deep soil	valley bottom	1	1	1	No	No	urban	nt	nt	-
86	2020	Marco vecchio	TN	45,85482	11,01853	193	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	3	Yes	No	periurban	nt	nt	-
87	2020	Rovereto via zeni	TN	45,88752	11,03172	193	10	E	limestone	deep soil	valley bottom	1	1	1	No	No	urban	nt	nt	ns
88	2020	Rovereto nord	TN	45,90764	11,03637	175	0	O	limestone	profodo	valley bottom	from 2 to 10	1	-	No	No	periurban	nt	nt	-
89	2020	Via brennero rov	TN	45,88588	11,0329	188	0	O	limestone	deep soil	valley bottom	1	from 2 to 10	1	No	No	urban	nt	nt	ns
90	2020	Volano	TN	45,91521	11,04891	226	5	O	limestone	surface soil	slope	from 2 to 10	from 2 to 10	2	Yes	<i>Ulmus minor, Ostrya carpinifolia</i>	periurban	nt	nt	-
91	2020	Moietto	TN	45,8827	11,07617	533	25	S	limestone	surface soil	slope	from 2 to 10	from 2 to 10	2	Yes	No	periurban	nt	nt	-
92	2020	Stenico	TN	46,05917	10,81572	614	20	S	limestone	deep soil	valley bottom	from 2 to 10	>10	3	No	No	wood	nt	nt	-
93	2020	Cortaccia	BZ	46,31556	11,20403	647	30	E	limestone	surface soil	slope	from 2 to 10	3	-	No	<i>Robinia pseudoacacia</i>	wood	nt	nt	ns
94	2021	Rotonda nassiria	TN	46,08518	11,11808	192	0	N	limestone	deep soil	valley bottom	1	1	-	No	No	urban	nt	nt	-
95	2021	Riva san giacomo	TN	45,89641	10,83466	122	5	E	limestone	surface soil	valley bottom	2	from 2 to 10	from 2 to 10	No	No	urban	nt	nt	ns
96	2021	Tenno	TN	45,90945	10,83176	325	50	NE	limestone	surface soil	slope	<10	>10	-	Yes	<i>Robinia pseudoacacia</i>	wood	nt	nt	ns
97	2021	Stenico	TN	46,05494	10,84636	664	45	S	limestone	surface soil	slope	<10	<20	<20	No	<i>Robinia pseudoacacia</i>	wood	nt	nt	ns
98	2021	Ragoli	TN	46,05913	10,811	612	40	S	limestone	surface soil	slope	>10	from 2 to 10	2	No	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	nt	-
99	2021	Dro ferrata	TN	45,97317	10,93426	210	10	O	limestone	surface soil	plateau	from 2 to 10	from 2 to 10	-	Yes	mixed wood	wood	nt	nt	-
100	2021	Dro marocche	TN	45,97662	10,9381	271	30	SO	limestone	surface soil	slope	from 2 to 10	from 2 to 10	2	No	mixed wood + <i>Pinus nigra</i>	wood	nt	nt	+
101	2021	Arco discarica	TN	45,89155	10,8914	163	20	O	limestone	surface soil	slope	<10	>10	5	Yes	No	periurban	nt	nt	+
102	2021	Nago belvedere	TN	45,88037	10,88541	185	40	S	limestone	surface soil	slope	from 2 to 10	from 2 to 10	-	Yes	No	wood	nt	nt	-
103	2021	Rovereto casello	TN	45,85011	11,00262	160	0	SO	siliceon	surface soil	slope	from 2 to 10	from 2 to 10	5	Yes	No	wood	nt	nt	-
104	2021	Mattarello sud	TN	45,97674	11,1143	197	10	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	3	Yes	<i>Robinia Pseudoacacia</i>	wood	nt	nt	-
105	2021	Taio bivio iscle	TN	46,2749	11,06387	332	5	S	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	-	Yes	No	wood	nt	nt	-

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106	2021	Mezzocorona bronzetti	TN	46,22216	11,13292	209	5	E	limestone	surface soil	slope	<10	from 2 to 10	1	Yes	No	wood	nt	nt	-
107	2021	Mezzocorona inerti	TN	46,23565	11,14629	235	0	E	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	1	No	No	periurban	nt	nt	+
108	2021	Rovere alto	TN	46,25905	11,16016	431	30	E	limestone	surface soil	slope	<10	from 2 to 10	1	No	No	wood	nt	nt	-
109	2021	Rovere vigneto prima ferrata	TN	46,25542	11,20073	231	0	E	limestone	surface soil	valley bottom	<10	1	1	Yes	No	wood	nt	nt	-
110	2021	Vivaio for scarpata	TN	46,35478	11,2865	258	50	E	siliceon	no soil	cliff	1	1	1	No	No	wood	nt	nt	+
111	2021	Laimburg	BZ	46,37376	11,28972	278	10	E	siliceon	deep soil	valley bottom	<10	>10	>10	No	<i>Robinia pseudoacacia</i>	wood	nt	nt	-
112	2021	Brenta caldonazzo	TN	46,00453	11,27616	460	5	S	siliceon	deep soil	valley bottom	<10	>10	-	Yes	No	wood	nt	nt	-
113	2021	Bivio levico steakhouse	TN	46,0028	11,28375	457	10	S	siliceon	deep soil	slope	>10	>10	10	Yes	No	wood	nt	nt	-
114	2021	Borgo valsugana ponte x olle	TN	46,05022	11,45674	394	0	O	limestone	deep soil	valley bottom	1	1	-	No	No	urban	nt	nt	-
115	2021	Strada x san giorgio	TN	46,03586	11,45761	486	20	NO	limestone	surface soil	slope	from 2 to 10	from 2 to 10	4	Yes	<i>Robinia pseudoacacia</i>	wood	nt	nt	+
116	2021	Strada martignano	TN	46,07981	11,12666	278	10	O	limestone	surface soil	slope	from 2 to 10	from 2 to 10	2	Yes	No	urban	nt	nt	+
117	2021	ponte alto	TN	46,24867	11,04439	389	30	SE	limestone	surface soil	slope	from 2 to 10	from 2 to 10	4	Yes	No	urban	nt	nt	ns
118	2022	Verso lover	TN	46,24867	11,04439	390	40	O	limestone	deep soil	valley bottom	>10	from 2 to 10	3	No	<i>Robinia pseudoacacia</i>	wood	nt	nt	ns
119	2022	Mori est	TN	45,83774	10,99975	169	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	-	No	No	periurban	nt	nt	+
120	2022	Mori ovest	TN	45,83797	10,9987	185	0	S	limestone	surface soil	slope	from 2 to 10	from 2 to 12	-	No	No	periurban	nt	nt	+
121	2022	Mori nord	TN	45,84316	10,99486	188	40	NE	limestone	surface soil	slope	from 2 to 10	from 2 to 13	-	No	No	wood	nt	nt	+
122	2022	Mori superstr6	TN	45,846027	10,992234	184	45	E	limestone	surface soil	slope	from 2 to 10	1	-	No	No	periurban	nt	nt	ns
123	2022	Besenello autostrada	TN	45,94609	11,09997	178	0	S	limestone	deep soil	valley bottom	from 2 to 10	1	-	No	No	periurban	nt	nt	+
124	2022	Besenello nord	TN	45,954601	11,110298	179	20	O	limestone	deep soil	slope	>10	>10	>10	Yes	No	wood	nt	nt	+
125	2022	Trento sopra bici grill	TN	46,03539	11,12387	184	0	S	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	2	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia, Populus</i>	wood	nt	nt	-
126	2022	Avio	TN	45,68807	10,917065	123	0	SO	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	>10	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia, Populus</i>	periurban	nt	nt	+
127	2022	Avio borghetto	TN	45,698056	10,928056	132	0	O	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	-	Yes	<i>Robinia pseudoacacia, Populus</i>	periurban	nt	nt	-
128	2022	Ala	TN	45,752222	10,983889	147	0	E	limestone	surface soil	slope	from 2 to 10	from 2 to 10	2	No	<i>Fraxinus excelsior, Robinia Pseudoacacia</i>	wood	nt	nt	+
129	2022	Santa lucia ala	TN	45,801389	11,012222	212	0	E	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	3	No	<i>Ulmus minor, Fraxinus Excelsior</i>	wood	nt	nt	-

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130	2022	Ala santa cecilia	TN	45,825647	10,999112	201	100	E	limestone	no soil	cliff	from 2 to 10	from 2 to 10	5	Yes	No	urban	nt	nt	+
131	2022	Verso lenzima	TN	45,89111	11,005833	286	20	E	limestone	surface soil	slope	from 2 to 10	from 2 to 10	-	No	<i>Morus</i>	periurban	nt	nt	-
132	2022	Lenzina alto	TN	45,894606	11,008553	346	20	E	limestone	surface soil	slope	from 2 to 10	from 2 to 10	2	Yes	No	wood	nt	nt	+
133	2022	Prima ruina	TN	45,840095	11,011556	192	5	O	limestone	surface soil	slope	from 2 to 10	from 2 to 10	1	No	No	periurban	nt	nt	-
134	2022	Strada x noriglio	TN	45,88483	11,062929	240	25	SO	limestone	surface soil	slope	>10	from 2 to 10	3	Yes	No	wood	nt	nt	+
135	2022	Strada x serraia	TN	45,87805	11,08503	521	25	SO	limestone	surface soil	slope	from 2 to 10	from 2 to 10	3	Yes	<i>Juglans regia</i> , <i>Ostrya carpinifolia</i>	wood	nt	nt	+
136	2022	Dopo bivio x moietto	TN	45,880638	11,076579	450	40	S	limestone	surface soil	slope	from 2 to 10	from 2 to 10	2	Yes	No	wood	nt	nt	+
137	2022	Strada x moietto alto	TN	45,882336	11,077494	495	25	SO	limestone	surface soil	slope	from 2 to 10	from 2 to 10	-	No	<i>Ostrya carpinifolia</i>	wood	nt	nt	-
138	2022	Prima del depuratore	TN	45,960619	11,110358	216	20	O	limestone	surface soil	slope	from 2 to 10	from 2 to 10	3	Yes	<i>Ostrya carpinifolia</i>	wood	nt	nt	ns
139	2022	Strada vecchia valsugana	TN	46,080676	11,162104	420	30	S	limestone	surface soil	slope	from 2 to 10	from 2 to 10	3	No	<i>Robinia pseudoacacia</i>	wood	nt	nt	+
140	2022	Vezzano ufficio postale	TN	46,076691	11,003455	431	5	NO	limestone	surface soil	slope	from 2 to 10	from 2 to 10	1	No	<i>Robinia pseudoacacia</i> , <i>Cornus mas</i>	wood	nt	nt	-
141	2022	Dro marocche 2	TN	45,976431	10,936363	334	20	S	limestone	surface soil	slope	from 2 to 10	from 2 to 10	1	No	<i>Ostrya carpinifolia</i> , <i>Cupressus</i> , <i>Pinus</i>	wood	nt	nt	+
142	2022	Lungo adige braile	TN	46,083472	11,107086	190	0	S	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	-	No	No	periurban	nt	nt	+
143	2022	Bivio mezzolombardo	TN	46,185971	11,099039	206	0	O	limestone	profond	valley bottom	from 2 to 10	from 2 to 10	2	Yes	No	periurban	nt	nt	-
144	2022	Mezzolombardo	TN	46,20605	11,10068	220	0	O	limestone	deep soil	valley bottom	1	1	1	No	No	periurban	nt	nt	ns
145	2022	Mezzolombardo	TN	46,20573	11,09744	219	0	S	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	2	No	No	urban	nt	nt	+
146	2022	Grigno	TN	46,030008	11,582577	288	0	SO	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	-	Yes	<i>Robinia pseudoacacia</i> , <i>Ostrya carpinifolia</i>	wood	nt	nt	+
147	2022	Grigno	TN	46,02976	11,58294	288	0	SO	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	-	Yes	<i>Robinia pseudoacacia</i> , <i>Ostrya carpinifolia</i>	wood	nt	nt	+
148	2022	Terlago	TN	46,08715	11,05092	448	15	O	limestone	surface soil	slope	from 2 to 10	from 2 to 10	-	No	No	wood	nt	nt	+
149	2022	Mezzolombardo	TN	46,227918	11,074736	253	0	E	limestone	deep soil	valley bottom	1	1	-	No	No	wood	nt	nt	ns
150	2022	Laives	BZ	46,41851	11,33248	236	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	-	No	No	urban	nt	nt	-
151	2022	Bronzolo	BZ	46,40459	11,32461	252	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	-	No	No	urban	nt	nt	+
152	2022	Bronzolo	BZ	46,40036	11,31873	229	0	O	limestone	deep soil	slope	from 2 to 10	from 2 to 10	-	Yes	No	urban	nt	nt	-
153	2022	Egna	BZ	46,32233	11,2767	230	0	O	limestone	surface soil	valley bottom	from 2 to 10	from 2 to 10	-	No	No	urban	nt	nt	+
154	2022	Egna	BZ	46,31744	11,28195	269	10	O	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	-	No	No	urban	nt	nt	+

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155	2022	Montagna	BZ	46,33676	11,30427	469	20	O	siliceon	surface soil	slope	>10	>10	2	Yes	No	wood	nt	nt	+
156	2022	Montagna	BZ	46,339826	11,305848	496	40	O	siliceon	surface soil	slope	from 2 to 10	1	-	No	No	wood	nt	nt	ns
157	2022	Montagna	BZ	46,31923	11,28443	300	30	O	siliceon	surface soil	slope	from 2 to 10	from 2 to 10	-	No	No	urban	nt	nt	+
158	2022	Dro	TN	45,97576	10,92535	157	0	E	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	2	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	nt	+
159	2022	Dro	TN	45,98507	10,92527	199	10	E	limestone	deep soil	slope	>10	>10	3	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	nt	+
160	2022	Ora	BZ	46,35872	11,28367	262	10	E	siliceon	deep soil	slope	from 2 to 10	from 2 to 10	2	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	nt	+
161	2022	Mori	TN	45,86166	10,99365	193	0	E	limestone	deep soil	valley bottom	>10	>10	4	Yes	No	periurban	nt	nt	-
162	2022	Mori	TN	45,86448	10,99717	187	0	E	limestone	surface soil	valley bottom	from 2 to 10	1	1	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	periurban	nt	nt	+
163	2022	Vezzano	TN	46,07909	11,0305	425	0	N	limestone	deep soil	Conca	>10	1	-	No	No	wood	nt	nt	-
164	2022	Santa massenza	TN	46,07031	10,98163	297	0	E	limestone	surface soil	slope	>10	>10	3	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	nt	+
165	2022	Santa massenza	TN	46,06395	10,97927	243	40	E	limestone	surface soil	slope	from 2 to 10	1	1	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	nt	+
166	2022	Trento	TN	46,05253	11,11183	189	0	S	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	2	Yes	<i>Robinia pseudoacacia</i>	urbana	nt	nt	+
167	2022	Trento	TN	46,04133	11,12018	188	0	S	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	2	Yes	<i>Robinia pseudoacacia</i>	periurban	nt	nt	+
168	2022	Mezzocorona	TN	46,23302	11,14474	217	0	E	limestone	deep soil	valley bottom	from 2 to 10	from 2 to 10	3	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	periurban	nt	nt	+
169	2022	Ciclabile val di non	TN	46,27905	11,06366	368	0	S	limestone	deep soil	slope	from 2 to 10	from 2 to 10	3	No	<i>Robinia pseudoacacia, Ostrya carpinifolia</i>	wood	nt	nt	+
170	2022	Trento	TN	46,08127	11,08499	403	40	S	limestone	surface soil	slope	from 2 to 10	from 2 to 10	2	No	No	wood	nt	nt	-
171	2022	Canale san Bovo	TN	46,161195	11,724388	802	0	O	siliceon	deep soil	valley bottom	>10	from 2 to 10	-	Yes	<i>Robinia pseudoacacia, Ostrya carpinifolia, fraxinus excelsior</i>	wood	nt	nt	+