

S1 Table Literature data overview on wild and cultivated plants associated with *Hyalesthes obsoletus* feeding, aggregation and/or development resulting in polyphagous perception of this vector.

Country	Plant	Note	Reference	
Russia	<i>Convolvulus arvensis</i>	nymphs and adults	Sukhov & Razvyazkina 1955	
	<i>Lepidium draba</i>			
	<i>Solanum tuberosum</i> (potato)	adults	Imo <i>et al.</i> 2013	
Turkey	<i>Cistus</i> sp.	adults	Hoch & Remane 1985	
	<i>Crataegus</i> sp.			
	<i>Myrtus</i> sp.			
	<i>Paliurus</i> sp.			
	<i>Quercus coccifera</i>			
	<i>Quercus ilex</i>			
	<i>Rubus</i> sp.			
	<i>Sesamum indicum</i>			
	<i>Vitex</i> sp.			
	<i>Capsicum anuum</i> (paprika)			
	<i>Convolvulus arvensis</i>	overwintering hosts for the		Güclü & Ozbek 1988
	<i>Crambe orientalis</i>	nymphs; adults aggregate		
	<i>Falcaria vulgaris</i>	mainly on <i>Medicago sativa</i>		
	<i>Geranium tuberosum</i>	but also found on diverse		
	<i>Isatis glauca</i>	crops (potato, sugar beet,		
<i>Lepidium draba</i>	sainfoin, red clover, bean			
<i>Melilotus officinalis</i>	and rarely sunflower and			
<i>Onosuma armeneum</i>	squash)			
<i>Rumex crispus</i>				
<i>Taraxacum</i> sp.				
<i>Medicago sativa</i> (alfalfa)				
<i>Onobrichis sativa</i> (sainfoin)				
Israel	<i>Tamarix</i> sp.	adults	Hoch & Remane 1985	
	<i>Gossypium</i> sp. (cotton)			
	<i>Solanum tuberosum</i> (potato)			
	<i>Zea mays</i> (corn)			
	<i>Amaranthus retroflexus</i>	adults;	Sharon <i>et al.</i> 2005	
	<i>Convolvulus arvensis</i>	nymphs were found on the		
	<i>Myrtus communis</i>	<i>V. agnus-castus</i> roots		
<i>Olea europaea</i> ,				

Vitex agnus-castus
Vitis vinifera (grapevine)

Greece	<i>Acer campestre</i>	adults;	Hoch & Remane 1985
	<i>Arbutus</i> sp.	the most common host	
	<i>Arundo</i> sp.	plant is <i>Vitex</i> sp. in	
	<i>Artemisia</i> sp.	coastline habitats	
	<i>Carpinus betulus</i>		
	<i>Cistus</i> sp.		
	<i>Convolvulus</i> sp.		
	<i>Crataegus</i> sp.		
	<i>Cynodon</i> sp.		
	<i>Erica arborea</i>		
	<i>Euphorbia dendroides</i>		
	<i>Galium</i> sp.		
	<i>Hipparhenia hirta</i>		
	<i>Imperata cylindrica</i>		
	<i>Juncus</i> sp.		
	<i>Ligustrum vulgare</i>		
	<i>Myrtus</i> sp.		
	<i>Oreganum</i> sp.		
	<i>Quercus coccifera</i>		
	<i>Quercus cerris</i>		
	<i>Quercus ilex</i>		
	<i>Quercus pubescens</i>		
	<i>Paliurus</i> sp.		
	<i>Phragmites</i> sp.		
	<i>Platanus</i> sp.		
	<i>Populus</i> sp.		
	<i>Prunus spinosa</i>		
	<i>Pteridium</i> sp.		
	<i>Rubus</i> sp.		
	<i>Salix</i> sp.		
	<i>Tamarix</i> sp.		
	<i>Ulmus</i> sp.		
	<i>Vitex</i> sp.		
	<i>Capsicum anuum</i> (paprika)		
	<i>Gossypium</i> sp. (cotton)		
	<i>Sesamum indicum</i> (sesame)		

Solanum tuberosum (potato)

Zea mays (corn)

Cyprus and Greek islands (Crete, Lesbos, Ikaria, Rhodes)	<i>Arbutus</i> sp. <i>Arundo</i> sp. <i>Erica arborea</i> <i>Euphorbia dendroides</i> <i>Imperata cylindrica</i> <i>Juncus</i> sp. <i>Phragmites</i> sp. <i>Platanus</i> sp. <i>Pteridium</i> sp. <i>Tamarix</i> sp. <i>Quercus pubescens</i> <i>Vitex</i> sp.	adults; the most common host plant is <i>Vitex</i> sp. in coastline habitats	Hoch & Remane 1985
Romania	<i>Solanum tuberosum</i> (potato)	adults	Imo <i>et al.</i> 2013
Macedonia	<i>Convolvulus arvensis</i> <i>Urtica dioica</i>	adults collected using sweep net and mouth aspirator	Atanasova <i>et al.</i> 2015
Montenegro	<i>Convolvulus arvensis</i> <i>Urtica dioica</i> <i>Vitex agnus-castus</i>	adults collected using sweep net and mouth aspirator	Kosovac <i>et al.</i> 2016
Serbia	<i>Convolvulus arvensis</i>		Aleksić <i>et al.</i> 1967
	various vineyard weeds	first data of <i>Crepis foetida</i> as a member of weed community where adults were non selectively captured by sweeping net	Cvrković Tatjana, PhD thesis, 2010
	<i>Convolvulus arvensis</i> <i>Urtica dioica</i> <i>Crepis foetida</i>	adults collected using sweep net and mouth aspirator	Kosovac <i>et al.</i> 2013
Bosnia and Herzegovina	<i>Convolvulus arvensis</i> <i>Vitex agnus-castus</i>	adults collected using sweep net and mouth aspirator	Đurić <i>et al.</i> 2017
Croatia	<i>Vitex agnus-castus</i>	very often found on <i>V. agnus-castus</i>	Horváth 1891
Slovenia	<i>Convolvulus arvensis</i> <i>Urtica dioica</i>	adults collected using yellow sticky traps or by sweep net sampling	Mehle <i>et al.</i> 2011

	<i>Convolvulus arvensis</i> <i>Urtica dioica</i>	adults collected on a single plant species with an exhaustor or with sweep nets in monoculture plant stands	Imo <i>et al.</i> 2013
Hungary	<i>Urtica dioica</i>	adults collected with D-Vac aspirators	Palermo <i>et al.</i> 2004
Austria	<i>Urtica dioica</i> <i>Convolvulus arvensis</i>	association with <i>U. dioica</i> is dominant	Aryan <i>et al.</i> 2014
Switzerland	<i>Urtica dioica</i> <i>Convolvulus arvensis</i>	adults collected with mouth aspirators mainly on <i>U. dioica</i> ; nymphs present on the root in the field and confirmed as laboratory plant for nymphs development	Kessler <i>et al.</i> 2011
	<i>Calystegia sepium</i> <i>Lepidium draba</i> <i>Cardaria draba</i> <i>Clematis vitalba</i>	adults were captured on yellow sticky traps positioned above the specific plant	
	<i>Polygonum aviculare</i> <i>Calystegia sepium</i> <i>Taraxatum officinale</i> <i>Plantago lanceolata</i> <i>Calystegia sepium</i>	adults were taken with a D-vac vacuum insect collector	
Germany	<i>Convolvulus arvensis</i> <i>Festuca</i> sp. <i>Allium</i> sp.	on limestone	Hoch & Remane 1985
	<i>Convolvulus arvensis</i> <i>Solanum nigrum</i> <i>Vitis vinifera</i> (grapevine)		Maixner 1994
	<i>Ranunculus bulbosus</i>		Weber & Maixner 1998
	<i>Convolvulus arvensis</i> <i>Urtica dioica</i> <i>Calystegia sepium</i>		Langer & Maixner 2004
France	<i>Calystegia sepium</i> <i>Cardaria draba</i> <i>Convolvulus arvensis</i>	adults collected by sweeping net	Sforza <i>et al.</i> 1999

Galium verum
Lavandula angustifolia
Linaria striata
Plantago cynops
Satureia montana

	<i>Convolvulus arvensis</i> <i>Urtica dioica</i>	adults collected with D-Vac aspirators	Bressan <i>et al.</i> 2008
	<i>Salvia sclarea</i>	adults collected with D-Vac aspirators and yellow sticky traps; nymphs collected on uprooted individual plants	Chuche <i>et al.</i> 2018
	<i>Convolvulus arvensis</i> <i>Urtica dioica</i>	adults collected with D-Vac aspirators and yellow sticky traps	
	<i>Lavandula angustifolia</i> (lavander) <i>Lavandula x intermedia</i> (lavandin)	adults were captured on yellow sticky traps in fields planted with diverse lavender and lavandin cultivars	Yvin <i>et al.</i> 2017
	<i>Salvia sclarea</i>	nymphs counted on uprooted plants; adults collected with emergence traps	Hossard <i>et al.</i> 2018
	<i>Convolvulus arvensis</i> <i>Lavandula hybrida</i>	adults collected with emergence traps	
Spain	<i>Trifolium pratense</i>		Hoch & Remane 1985
	<i>Convolvulus arvensis</i>		Sabate <i>et al.</i> 2014
Italy	<i>Urtica dioica</i> <i>Convolvulus arvensis</i>	nymphs found on <i>U. dioica</i> roots	Lessio <i>et al.</i> 2007
Italy (Sicily)	<i>Dactylis</i> sp. <i>Juncus</i> sp. fam. <i>Lamiaceae</i> <i>Ulmus</i> sp. <i>Urtica</i> sp.		Hoch & Remane 1985
Morocco	<i>Clematis</i> sp. <i>Pistacia</i> sp. <i>Tamarix</i> sp <i>Quercus coccifera</i>		Hoch & Remane 1985

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