

Evarts-Bunders P. & Evarte-Bundere G. (2020): Development and approbation of methodology for monitoring invasive plant species: the case of Latvia. – *Thaiszia – J. Bot.* 30 (1): 059-079.

Appendix 3 Analysis of invasive species identified during monitoring approbation.

Monitoring status in Latvia: 1 – prioritised monitorable species, 2 – monitorable species, 3 – other found invasive species; Invasion status in Latvia: Cas = casual, Nat = naturalized; (Pyšek et al. 2004, Blackburn et al. 2011, Yazlik et al. 2018); Vector: A – as or with fodder or other foodstuffs or straw for animals; As – with agricultural or horticultural seeds; F – as human foodstuffs, including herbs and spices, as plants, seeds or fruits; G – with grain; Gs – with grass-seed and wildflower mixes; H – horticultural introductions, mainly ornamentals, but also grassland, hedging, game cover and green manure; I – contaminants of horticultural introduction; T – with timber, V - inadvertently with people, animals or vehicles (Stace and Crawley 2015); S/V status indicates whether species reproduces in Latvia from seed (S) and/or from vegetative propagation (V); Species distribution in grid cell of monitoring approbation, whole number of grid cells – 16; Species distribution in Latvia – according to our data and literature, whole number of grid cells - 1077 (* Laiviņš et al. 2009, ** Rurāne et al. 2018); - no data.

No	Species	Family	Monitoring status in Latvia	First reported in the area	Native range	Status	Vector	S/V	Localities in monitoring grid cells ($\Sigma=16$)	Species distribution in Latvia ($\Sigma=1077$)
1.	<i>Acer negundo</i> L.	Aceraceae	1	1817	N America	Nat	H	S	2	86
2.	<i>Amelanchier spicata</i> (Lam.) K. Koch.	Rosaceae	1	1888	N America	Nat	H	S	1	237
3.	<i>Armoracia rusticana</i> P. Gaertn., B.Mey. et Scherb.	Brassica-ceae	3	1870	Europe	Nat	F	S/V	1	-
4.	<i>Aronia prunifolia</i> (Marshall) Rehder	Rosaceae	2	1902	N America	Nat	H	S/V	1	307
5.	<i>Aster salignus</i> Willd.	Asteraceae	1	1895	N America	Nat	H	S/V	1	123
6.	<i>Brassica napus</i> L.	Brassica-ceae	3	-	S Europe	Cas	A	S	1	594**
7.	<i>Bunias orientalis</i> L.	Brassica-ceae	2	1829	Europe	Nat	A	S	1	187
8.	<i>Caragana arborescens</i> Lam.	Fabaceae	3	1902	Asia, Europe	Nat	H	S/V	1	314*
9.	<i>Conyza canadensis</i> (L.) Conquist	Asteraceae	3	-	N America	Nat	A,V	S	2	-
10.	<i>Cotoneaster lucidus</i> Schultdl.	Rosaceae	1	1884	Asia, Europe	Nat	H	S	1	64
11.	<i>Echinocystis lobata</i> (Michx.) Torr. & A. Gray	Cucurbita-ceae	1	1971	N America	Nat	H	S	-	55
12.	<i>Elaeagnus argentea</i> Moench	Elaeagna-ceae	2	1817	N America	Cas	H	V	-	19
13.	<i>Elodea canadensis</i> Michx.	Hydrochari-taceae	2	1872	N America	Nat	H	V	4	235

14.	<i>Epilobium adenocaulon</i> Hausskn.	Onagraceae	2	1918	N America	Nat	I	S	1	163
15.	<i>Gypsophila paniculata</i> L.	Caryophyllaceae	2	-	Asia, Europe	Cas	H	S	-	27
16.	<i>Grossularia reclinata</i> (L.) Mill.	Grossulariaceae	3	-	Europe	Nat	F	S	1	160*
17.	<i>Helianthus tuberosus</i> L.	Asteraceae	2	1974	N America	Nat	Bs, F	S/V	1	55
18.	<i>Hippophaë rhamnoides</i> L.	Elaeagnaceae	2	1817	Asia, Europe	Nat	-	S/V	-	106
19.	<i>Impatiens glandulifera</i> Royle	Balsaminaceae	1	1898	Asia, Europe	Nat	H	S	1	142
20.	<i>Impatiens parviflora</i> DC.	Balsaminaceae	1	1907	Asia, Europe	Nat	A,I,T	S	5	143
21.	<i>Juncus tenuis</i> Wild.	Juncaceae	3	1950	N America	Nat	A	S	1	-
22.	<i>Lactuca serriola</i> L.	Asteraceae	3	1839	Asia, Europe	Nat	G	S	1	-
23.	<i>Lactuca tatarica</i> (L.) C.A.May	Asteraceae	2	1921	Asia, Europe	Cas	G	S	-	21
24.	<i>Ligustrum vulgare</i> L.	Oleaceae	2	1805	Europe	Cas	H	S/V	-	16
25.	<i>Lupinus polyphyllus</i> Lindl.	Fabaceae	1	1921	N America	Nat	H	S	-	242
26.	<i>Malus domestica</i> Borkh.	Rosaceae	2	1778	CV	Nat	F,H	S	3	58
27.	<i>Parthenocissus quinquefolia</i> (L.) Planch.	Vitaceae	2	1847	N America	Nat	H	V	1	8
28.	<i>Petasites hybridus</i> (L.) P. Gaertn., B. Mey. et Scherb.	Asteraceae	2	1852	Asia, Europe	Nat	H	V	-	111
29.	<i>Phalacrolooma septentrionale</i> (Fernald & Wiegand) Tzvelev	Asteraceae	3	1866	N America	Nat	Gs,H	S	3	-
30.	<i>Prunus cerasifera</i> Ehrh.	Rosaceae	3	1883	Europe	Nat	H	S/V	1	122*
31.	<i>Quercus rubra</i> L.	Fagaceae	3	1859	N America	Nat	H	S	1	61*
32.	<i>Reynoutria japonica</i> Houtt.	Polygonaceae	1	1888	Asia, Europe	Nat	-	V	-	236
33.	<i>Reynoutria sachalinensis</i> (F.Schmidt) Nakai	Polygonaceae	1	1887	Asia, Europe	Nat	-	V	-	112
34.	<i>Ribes rubrum</i> L.	Grossulariaceae	3	-	Europe	Nat	F	S	1	469*
35.	<i>Robinia pseudoacacia</i> L.	Fabaceae	2	1890	N America	Nat	H	S	-	30

36.	<i>Rosa pimpinellifolia</i> L.	Rosaceae	3	1805	W Europe, Asia	Nat	H	V	2	284*
37.	<i>Rosa rugosa</i> Thunb.	Rosaceae	1	1888	Asia, Europe	Nat	H	S/V	-	114
38.	<i>Rumex confertus</i> Willd.	Polygonaceae	2	1920	Europe	Nat	A	S	2	383
39.	<i>Sambucus nigra</i> L.	Caprifoliaceae	2	1805	S Europe, N Africa	Nat	F,H	S	1	30
40.	<i>Sambucus racemosa</i> L.	Caprifoliaceae	1	1805	Europe	Nat	H	S	3	267
41.	<i>Syringa vulgaris</i> L.	Oleaceae	3	1805	Europe	Nat	H	S/V	3	391*
42.	<i>Solidago canadensis</i> L.	Asteraceae	1	1906	N America	Nat	H	S/V	5	315
43.	<i>Solidago gigantea</i> Aiton	Asteraceae	1	1989	N America	Nat	H	S/V	1	16
44.	<i>Sorbaria sorbifolia</i> (L.) A. Braun	Rosaceae	1	1805	Eurasia	Nat	H	S/V	1	85
45.	<i>Spiraea alba</i> Du Roi	Rosaceae	3	1885	N America	Nat	H	V	1	239*
46.	<i>Spiraea chamaedryfolia</i> L.	Rosaceae	2	1817	S Europe	Nat	H	S/V	1	211*
47.	<i>Swida alba</i> (L.) Opiz	Cornaceae	2	1805	Asia, Europe	Nat	H	V	-	62
48.	<i>Swida sericea</i> (L.) Holub	Cornaceae	2	1817	N America	Nat	H	V	-	8