

### Supplemental Table S1. Examples of habitats and growth habits for duckweed.

Species	Size (length / width / length to width ratio)	Morphological features		Turion formation	Anthocyanines	Climate	Species distribution		Invasiveness	Reference
		Roots	Flowering <sup>a</sup>				Region			
<i>Spirodela polyrrhiza</i>	1.5-10 mm / 1.5-8.0 / 1-1.5	multiple	very rarely	present	present	cold temperate-tropical	cosmopolitan (except southern and eastern South America)		n.s.	1
<i>Lemna minor</i>	1-10 mm / 0.6-7 mm / 1,3-2	single	occasionally	absent	present	cold temperate-mediterranean	Africa, Asia, Europe, North America, Oceania		introduced to Oceania	1
<i>Lemna minuta</i>	0.8-4 mm / 0.5-2.5 mm / 1-2	single	occasionally	absent	absent	temperate-subtropical	Central America, Europe, Japan, North America, South America		introduced to Europe and Japan	1,2
<i>Lemna gibba</i>	1-8 mm / 0.8-6 mm / 1-1.5	single	often	absent	present	temperate - mediterranean	cosmopolitan (except Oceania)		introduced to Japan	1
<i>Lemna aequinoctialis</i>	1-6,5 mm / 0.8-4.5 mm / 1-3	single	often	present	absent	warm temperate - tropical	cosmopolitan		introduced to temperate zones	1,3
<i>Wolffia microscopica</i>	0.4-1 mm / 0.3-0.8 mm / 1-1.5	absent	very often	absent	absent	tropical	India, Pakistan		n.s.	1,3
<i>Wolffia arrhiza</i>	0.5-1.5 mm / 0.4-1.2 mm / 1-1.3	absent	occasionally	present	absent	temperate-tropical	Africa, Brazil, Europe, Western Asia		n.s.	1,3
<i>Wolffiella gladiata</i>	3-9 mm / 0.25-0.80 mm / 4-20	absent	occasionally	absent	absent	temperate	North America		rarely distributed by man	1,3

**References and notes**

n.s. not specified

1 Landolt, E. (1986). Biosystematic investigation in the family of duckweeds ("Lemnaceae"). Vol. 2 : the family of "Lemnaceae" : a monographic study. Volume 1. Veröffentlichungen des Geobotanischen Institutes der Eidg. Tech.Hochschule, Stiftung Rübel, in Zürich

2 Les, D., Landolt, E., & Crawford, D. (1997). Systematics of the Lemnaceae (duckweeds): Inferences from micromolecular and morphological data. *Plant Systematics and Evolution*, 204 (3/4), 161-177

3 Bog, M., Appenroth, K.J. and Sree, K.S. (2020). Key to the determination of taxa of Lemnaceae: an update. *Nordic Journal of Botany*, 38:. doi:10.1111/njb.02658