



**[i]Ludwigia grandiflora subsp. hexapetala[/i]
(Onagraceae) becomes an invasive weed on flood-prone
meadows in Brière marsh (Western France)**

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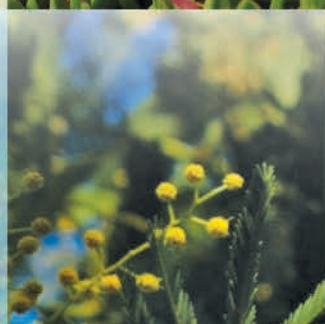
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***Ludwigia grandiflora* subsp. *hexapetala* (Onagraceae)
becomes an invasive weed on flood-prone meadows
in Brière marsh (Western France)**

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Large Waterprimrose, *Ludwigia grandiflora* subsp. *hexapetala* (Hook. & Arn.) G.L.Nesom & Kartesz (Onagraceae), is expanding on flood-prone meadows in many places, especially in Brière marsh. Thus can we explain such expansion and what are its effects on the biodiversity and the cattle breeding?

Our hypotheses are:

- (i) that tropical plant becomes invasive due to its large ecological range, but some patterns of distribution can appear, leading both to local risk analysis and areas to survey;
- (ii) adaptations to terrestrial conditions lead to changes in biomass and plant morphology,
- (iii) it has an effect on the meadow biodiversity.

Considering field research since 1998 on its distribution and local plant diversity, phenology, biomass and distribution mapping, adaptations are summarized and consequences for managers are underlined.

Keywords: Wetlands; Biological invasion; *Ludwigia*; biomass; Phenoplasticity