TAXONOMIC CHANGES IN LESSINGIA (COMPOSITAE: ASTEREAE)

STACI MARKOS

Jepson Herbarium, 1001 Valley Life Sciences Building #2465, University of California, Berkeley, CA 94720-2465
smarkos@socrates.berkeley.edu

ABSTRACT

Phylogenetic studies of Lessingia Cham. show that different corolla coloration (pink/white vs. yellow) diagnoses the two major clades of Lessingia sensu stricto. There are no taxonomic changes in the “pink/white group” but two taxa within the “yellow group,” recognized by Lane (1993) as L. glandulifera A. Gray and L. lemmonii A. Gray, are not monophyletic and have therefore been realigned to reflect natural lineages. The circumscription of L. lemmonii sensu Lane (1993) has been expanded and now includes the type specimen of L. glandulifera, a name that has priority over L. lemmonii. Plants included in a narrowed circumscription of L. glandulifera sensu Lane (1993) will now be recognized as L. pectinata Greene. Lessingia glandulifera A. Gray var. peirsonii (J. T. Howell) Markos and L. pectinata Greene var. tomentosa (Greene) Ferris, and some plants that were included in L. glandulifera var. glandulifera by Lane (1993); (2) L. glandulifera var. peirsonii with the same circumscription as L. lemmonii A. Gray var. peirsonii (J. T. Howell) Ferris; and (3) L. glandulifera A. Gray var. tomentosa (Greene) Ferris.


Lessingia pectinata Greene is the earliest available name for plants that have yellow corollas, brown-purple bands in their corolla tubes, and truncate-paniculate style-branch appendages. I recognize two varieties of L. pectinata: (1) L. pectinata Greene var. pectinata with the same circumscription as L. glandulifera A. Gray var. pectinata (Greene) Jepson; and (2) L. pectinata var. tomentosa (Greene) Ferris.

Lessingia pectinata Greene var. tomentosa (Greene) Ferris, and some plants that were included in L. glandulifera var. glandulifera by Lane (1993); (2) L. glandulifera var. peirsonii with the same circumscription as L. lemmonii A. Gray var. peirsonii (J. T. Howell) Ferris; and (3) L. glandulifera A. Gray var. tomentosa (Greene) Ferris.

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**Table 1. Summary of Taxonomic Changes in *Lessingia* (sensu stricto).**

<table>
<thead>
<tr>
<th>Lane (1993)</th>
<th>Markos (this study)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yellow corollas without a brow-purple band in corolla tubes, style-branch appendages lanceolate</strong></td>
<td></td>
</tr>
<tr>
<td><em>L. lemmunii</em> A. Gray var. <em>lemonii</em></td>
<td><em>L. glandulifera</em> A. Gray var. <em>glandulifera</em></td>
</tr>
<tr>
<td>Ferris</td>
<td><em>L. glandulifera</em> A. Gray var. <em>peirsonii</em> (J. T. Howell)</td>
</tr>
<tr>
<td><em>L. lemmunii</em> A. Gray var. <em>ramulosissima</em> (Nelson)</td>
<td>Markos</td>
</tr>
<tr>
<td>Ferris</td>
<td><em>L. glandulifera</em> A. Gray var. <em>glandulifera</em></td>
</tr>
<tr>
<td><em>L. glandulifera</em> A. Gray var. <em>tomentosa</em> (Greene)</td>
<td>Ferris</td>
</tr>
<tr>
<td>Ferris</td>
<td><em>L. glandulifera</em> A. Gray var. <em>glandulifera</em></td>
</tr>
<tr>
<td><em>L. glandulifera</em> A. Gray var. <em>glandulifera</em></td>
<td><strong>Yellow corollas with a brow-purple band in corolla tubes style-branch appendages truncate-penicillate</strong></td>
</tr>
<tr>
<td><em>L. glandulifera</em> A. Gray var. <em>glandulifera</em></td>
<td><em>L. pectinata</em> Greene var. <em>tenuispes</em> (J. T. Howell)</td>
</tr>
<tr>
<td>Jepson</td>
<td>Markos</td>
</tr>
<tr>
<td><em>L. glandulifera</em> A. Gray var. <em>pectinata</em> (Greene)</td>
<td><em>L. pectinata</em> Greene var. <em>pectinata</em></td>
</tr>
</tbody>
</table>

viewer for helpful comments on this manuscript. Specimens and type material were loaned from or observed in CAS, GH, JEPS, ND, UC, and US.

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