

A LOOK AT ORANGE COUNTY GRASSES (POACEAE) IN JEPSON 2

Many of you have the new Jepson Manual and have had a chance to thumb through it. You may have noticed that under the grasses (Poaceae), there have been quite a few changes since the first Jepson Manual was published in 1993. If splitting became the theme of the Asteraceae, the Poaceae went the opposite way, with re-unification of traditional genera the main theme. Three genera especially stand out, *Stipa*, *Elymus*, and *Festuca*. *Achnatherum* and *Nassella*, the needlegrasses, are once again *Stipa*. *Piptatherum* (rice grass) is tossed in for good measure. *Leymus* is once again folded back into *Elymus* (wild rye). Not only was the annual genus *Vulpia* returned to *Festuca* (fescues) as subgenus, so were plants we've long known under the genus *Lolium*.

For those of you that are interested and not sure you really want to go to the trouble of figuring out what happened to your favorite Orange County grass, I've summarized the changes for you below.

Vascular Plants of Orange County, an Annotated Checklist (Roberts 2008) already reflects many of these changes.

POACEAE – GRASS FAMILY

Achnatherum coronatum (Thurb.) Barkworth = *Stipa coronata* Thurb.
Agrostis viridis Gouan = *Polypogon viridis* (Gouan) Breister
Alopecurus pratensis L. NEW ADDITION TO S. CALIF. FLORA. Previously known from farther north.
Arrhenatherum elatius (L.) J. Presl & C. Presl NEW ADDITION TO S. CALIF. FLORA [WTR]. Previously known from farther north. Presence in Santa Ana Mtns. [PR] (Roberts 2008) suggest it is more widespread than indicated in Jepson 2.
Bromus carinatus Hook. & Arn. var. *carinatus*. Some plants previously considered under this variety now represent the following:
Bromus carinatus var. *marginatus* (Steud.) Barkworth & Anderton NEW ADDITION TO S. CALIF. FLORA [CA]. A new segregate derived from *B. carinatus* var. *carinatus*.
Bromus pseudolaevipes Wagnon NEW ADDITION TO S. CALIF. FLORA. Resurrected name. Previously treated under *B. laevipes*.
Cenchrus ciliaris L. = *Pennisetum ciliare* (L.) Link.
Cortaderia selloana (Schult.) Asch. & Graebn. = *C.s.* (Schult. & Schuff. f.) Asch. & Graebn. Author correction.
Deschampsia danthonioides (Trin.) Benth. = *D.d.* (Trin.) Munro. Author correction.
Eleusine coracana (L.) Gaertn. subsp. *africana* (Kenn.-O'Byrne) Hilu & de Wet NEW ADDITION TO S. CALIF. FLORA [SCo, WTR, PR].
Elytrigia intermedia (Host) Nevski subsp. *i.* = *Elymus hispidus* (Opiz) Melderis
Elytrigia repens (L.) Nevski = *Elymus repens* (L.) Gould
Gastridium ventricosum (Gouan) Schinz & Thell. = *G. phleoides* (Nees & Meyen) C.E. Hubb. The name *G. ventricosum* misapplied.
Leptochloa uninervia (J. Presl) Hitchc. = *L. fusca* (L.) Kunth subsp. *u.* (J. Presl) N. Snow
Leymus condensatus (Scribn. & Merr.) A. Love = *Elymus c.* J. Presl
Leymus triticooides Buckley = *Elymus t.* Buckley
Lolium multiflorum Lam. = incl. under *Festuca perennis* (L.) Columbus & J.P. Sm.
Lolium perennis L. = *Festuca perennis* (L.) Columbus & J.P. Sm.
Lolium temetulum L. = *Festuca temetula* (L.) Columbus & J.P. Sm.
Monanthochloe littoralis Engelm. = *Distichlis littoralis* (Engelm.) H.L. Bell & Columbus
Muhlenbergia asperifolia (Nees & Meyen) Parodi = *M.a.* (Trin.) Parodi. Author correction.
Muhlenbergia filiformis (Thurber) Rydb. = *M.f.* (S. Watson) Rydb. Author correction.
Nassella cernua (Stebbins & A. Love) Barkworth = *Stipa c.* Stebbins & A. Love
Nassella lepida (Hitchc.) Barkworth = *Stipa l.* Hitchc.
Nassella pulchra (Hitchc.) Barkworth = *Stipa p.* Hitchc.
Panicum acuminatum var. *fasciculatum* (Torr.) Lelong NEW ADDITION TO S. CALIF. FLORA. Includes some specimens previously identified as *D.a.* var. *acuminatum*. Presumably, Orange County plants belong here but I have not had the opportunity to examine the specimens.
Panicum dichotomiflorum Michx. Our plants are *P.d.* subsp. *dichotomiflorum*. Other subspecies in E. North America.
Panicum miliaceum L. Our plants *P.m.* subsp. *miliaceum*.
Paspalum vaginatum Sw. NEW ADDITION TO S. CALIF. FLORA [SCo, DSo].
Piptatherum miliaceum (L.) Cosson = *Stipa miliacea* (L.) Hoover var. *miliacea*
Secale cereale L. NEW ADDITION TO S. CALIF. FLORA. Previously known from northern California.
Setaria adhaerens (Forssk.) Chiov. NEW ADDITION TO S. CALIF. FLORA.
Setaria gracilis Kunth. = *S. parviflora* (Poir.) Kerguelen. More widespread.
Setaria pumilia (Poir.) Roem. & Schult. Our plants now *S.p.* subsp. *pumila*.
Triticum aestivum L. NEW ADDITION TO S. CALIF. FLORA.
Vulpia bromoides (L.) S.F. Gray = *Festuca b.* L.
Vulpia microstachys (Nutt.) Benth. var. *ciliata* (Beal) Lonard & Gould = *Festuca microstachys* Nutt. Varieties not recognized.
Vulpia microstachys var. *pauciflora* (Beal) Lonard & Gould = *Festuca microstachys* Nutt. Varieties not recognized.
Vulpia myuros (L.) CC. Gmelin var. *hirsuta* Hack. = *Festuca myuros* L. Varieties not recognized.
Vulpia myuros var. *myuros* Hack. = *Festuca myuros* L. Varieties not recognized.
Vulpia octoflora (Walter) Rydb. var. *hirtella* (Piper) Henrard = *Festuca o.* Walter. Varieties not recognized.
Vulpia octoflora var. *octoflora* (Piper) Henrard = *Festuca o.* Walter. Varieties not recognized.