

Attachment A (revised 9/26/2014)

Subject: Section 100 Changes to Amend Title 14, Section 670.2, Plants of California Declared to Be Endangered, Threatened, or Rare.

Explanatory Statement

Under existing law, the Fish and Game Commission (the Commission) can designate plants as endangered, threatened, or rare (Fish and Game Code Sections 1904 and 2070). The list of plants designated by the Commission as endangered, threatened, or rare is contained in the California Code of Regulations, Title 14, as Section 670.2. As the scientific understanding of the relationships of plants in the world has changed, the names of some plants have also changed. The current list of plants designated as endangered, threatened, or rare in California (Section 670.2, Title 14) includes some names that are no longer considered valid by the scientific community. The proposed changes will replace some of these obsolete names with valid, currently recognized names. The proposed changes are solely taxonomic and will not result in a change of listing status or protections for any plant species.

Biologists use a system to name organisms called “binomial nomenclature.” In this system, recognized species are given a two-part scientific name. The first part of the scientific name is called the genus and the second part is called the specific epithet; the genus and specific epithet together comprise the scientific name. Some species are also given a third name to denote a variety or subspecies below the level of species. Species that are closely related are classified together in a genus; genera (plural of genus) that are closely related are classified together in a family.

The scientific name of a species identifies a unique taxonomic entity. The scientific names of species are periodically changed to reflect the current scientific understanding of the relationships between species. In proposing a change in the scientific name of a species, specific protocols must be followed. One requirement, for example, is that the name and description of the species is published in scientific literature. When published in this manner, a scientific name is considered to be “valid”. In California, accepted and validly published names are compiled in *The Jepson Manual: Vascular Plants of California, Second Edition (The Jepson Manual; Baldwin et al. 2012)*¹ and online at the Jepson Online Interchange². The Jepson Online Interchange maintains the most current list of accepted name changes, including changes that have occurred after *The Jepson Manual* was published. *The Jepson Manual* and the Jepson Online Interchange do not provide common names for some plant species. The California Natural Diversity Database (CNDDDB) is an inventory of the status and locations of rare plants and animals in California. In instances where the common name for a rare plant is not provided in *The Jepson Manual* and the Jepson Online Interchange, the CNDDDB assigns a unique common name based on the most widely accepted common name used in the botanical community.

¹ Baldwin, B. G., D. H. Goldman, D. J. Keil, R. Patterson, T. J. Rosatti, and D. H. Wilken, editors. 2012. *The Jepson Manual: Vascular Plants of California*, second edition. University of California Press, Berkeley.

² <http://ucjeps.berkeley.edu/interchange/>

Attachment A (revised 9/26/2014)

Plant biologists consider *The Jepson Manual* and the Jepson Online Interchange to be the accepted resource for valid plant names in California. The proposed revisions to Section 670.2 will update the scientific names to be consistent with *The Jepson Manual* and the Jepson Online Interchange. For consistency, proposed changes to common names will reflect the common names used in *The Jepson Manual* and the Jepson Online Interchange. However, if a common name is not listed in *The Jepson Manual* or the Jepson Online Interchange, proposed changes to common names will reflect the common name assigned by the CNDDDB. Each name change is documented in an attached numbered Exhibit which cites each valid plant name as found in the Jepson Online Interchange. The proposed changes will not affect the listing status or protections of any plants in Section 670.2, nor will they add or remove any plants from that section.

The proposed revisions include the following types of changes:

- reclassification of a species to a different family or a newly recognized family;
- reclassification of a species to a different or new genus;
- reclassification of a species to a subspecies or variety;
- reclassification of a subspecies or variety to a different species;
- reclassification of a subspecies to a species;
- reclassification of a variety to a species;
- splitting a species into two varieties;
- reclassification of a variety of one species to the subspecies of a different species;
- reclassification of a subspecies to a different genus and species.

Other changes include updating common names, minor grammatical corrections, and renumbering and reordering the list to retain alphabetical order.

The requested revisions will not materially alter any requirement, right, responsibility, condition, prescription or any other regulatory element of any California Code of Regulations provision. The proposed changes consist solely of replacing obsolete plant names with valid, currently recognized names; revising grammar; and renumbering and reordering regulatory provisions. Therefore, the proposed revisions are without regulatory effect.

List of Changes

1. Subsection 670.2(a)(1) – family removed; species reclassified to a different family under subsection (a)(31) (see Exhibit 1)
2. Subsection 670.2(a)(1)(A) – species reclassified to different family, moved from Agavaceae to Ruscaceae; renumbered to (a)(31)(A) (see Exhibit 1)
3. Subsection 670.2(a)(2) – family removed; species reclassified to a different family under subsection (a)(33) (See Exhibit 2)
4. Subsection 670.2(a)(2)(A) – species reclassified to different family, moved from Amaryllidaceae to Themidaceae; species scientific name corrected to reflect reclassification from subspecies to species; renumbered to (a)(33)(D) (See Exhibit 2)
5. Subsection 670.2(a)(2)(B) – species reclassified to different family, moved from Amaryllidaceae to Themidaceae; renumbered to (a)(33)(A) (See Exhibit 3)
6. Subsection 670.2(a)(2)(C) – species reclassified to different family, moved from Amaryllidaceae to Themidaceae ; renumbered to (a)(33)(B) (See Exhibit 4)
7. Subsection 670.2(a)(2)(D) – species reclassified to different family, moved from Amaryllidaceae to Themidaceae; renumbered to (a)(33)(C) (See Exhibit 5)
8. Renumbering only: Subsection 670.2(a)(3) to (a)(1)
9. Renumbering only: Subsection 670.2(a)(3)(A), (B), (C) to (a)(1)(A), (B), (C)
10. Renumbering only: Subsection 670.2(a)(4) to a(2)
11. Renumbering only: Subsection 670.2(a)(4)(A), (B), (C) to (a)(2)(A), (B), (C)
12. Subsection 670.2(a)(4)(D) – species common name updated; renumbered to (a)(2)(D) (See Exhibit 6)
13. Subsection 670.2(a)(4)(E) – species common name updated; renumbered to (a)(2)(E) (See Exhibit 7)
14. Renumbering only: Subsection 670.2(a)(4)(F), (G) to (a)(2)(I), (J)
15. Renumbering only: Subsection 670.2(a)(4)(H), (I), (J) to (a)(2)(F), (G), (H)
16. Renumbering only: Subsection 670.2(a)(4)(K), (L), (M), (N), (O), (P), (Q), (R) to (a)(2)(K), (L), (M), (N), (O), (P), (Q), (R)

Attachment A (revised 9/26/2014)

17. Renumbering only: Subsection 670.2(a)(5) to (a)(3)
18. Renumbering only: Subsection 670.2(a)(5)(A), (B) to (a)(3)(A), (B)
19. Subsection 670.2(a)(6); **family common name updated; renumbered to (a)(4)** (See Exhibit 8)
20. Renumbering only: Subsection 670.2(a)(6)(A) to (a)(4)(A)
21. Subsection 670.2(a)(6) - Species reclassified to this family pursuant to item 60 below; added as (a)(4)(B) (See Exhibit 8)
22. Subsection 670.2(a)(6)(B) – species common name grammatical error corrected; renumbered to (a)(4)(C) (See Exhibit 9)
23. Renumbering only: Subsection 670.2(a)(7) to (a)(5)
24. Subsection 670.2(a)(7)(A) – Species scientific name spelling corrected; species common name updated; renumbered to (a)(5)(A) (See Exhibit 10)
25. Subsection 670.2(a)(7)(B) – species common name grammatical error corrected; renumbered to (a)(5)(B) (See Exhibit 11)
26. Renumbering only: Subsection 670.2(a)(7)(C) to (a)(5)(C)
27. Subsection 670.2(a)(7)(D) – species common name grammatical error corrected; renumbered to (a)(5)(D) (See Exhibit 12)
28. Renumbering only: Subsection 670.2(a)(7)(E), (F) to (a)(5)(E), (F)
29. Subsection 670.2(a)(7)(G) – species scientific name corrected to reflect reclassification of species to subspecies; species common name grammatical error corrected; renumbered to (a)(5)(G) (See Exhibit 13)
30. Renumbering only: Subsection 670.2(a)(7)(H) to (a)(5)(H)
31. Renumbering only: Subsection 670.2(a)(8) to (a)(6)
32. Renumbering only: Subsection 670.2(a)(8)(A) to (a)(6)(A)
33. Renumbering only: Subsection 670.2(a)(9) to (a)(7)
34. Renumbering only: Subsection 670.2(a)(9)(A) to (a)(7)(A)
35. Renumbering only: Subsection 670.2(a)(10) to (a)(8)

Attachment A (revised 9/26/2014)

36. Renumbering only: Subsection 670.2(a)(10)(A), (B) to (a)(8)(A), (B)
37. Renumbering only: Subsection 670.2(a)(11) to (a)(9)
38. Renumbering only: Subsection 670.2(a)(11)(A), (B) to (a)(9)(A), (B)
39. Renumbering only: Subsection 670.2(a)(12) to (a)(10)
40. Subsection 670.2(a)(12)(A) – Species common name grammatical error corrected; renumbered to (a)(10)(A) (See Exhibit 14)
41. Renumbering only: Subsection 670.2(a)(13) to (a)(11)
42. Subsection 670.2(a)(13)(A) – Species common name updated; renumbered to (a)(11)(A) (See Exhibit 15)
43. Renumbering only: Subsection 670.2(a)(13)(B), (C) to (a)(11)(B), (C)
44. Renumbering only: Subsection 670.2(a)(14) to (a)(12)
45. Subsection 670.2(a)(14)(A) – scientific name corrected to reflect species reclassification to different genus and splitting of species into two varieties; renumbered to (a)(12)(A) (See Exhibit 16)
- 45.a. **Original species common name, Santa Cruz cypress, applied to this variety, *Hesperocyparis abramsiana* var. *abramsiana* (See Exhibit 16A)**
46. Subsection 670.2(a)(14)(A) – species split into two varieties; second variety added as (a)(12)(B) (See Exhibit 17)
- 46.a. **New common name, Butano Ridge cypress, applied to this variety, *Hesperocyparis abramsiana* var. *butanoensis* (See Exhibit 17A)**
47. Renumbering only: Subsection 670.2(a)(15) to (a)(13)
48. Renumbering only: Subsection 670.2(a)(15)(A) to (a)(13)(A)
49. Renumbering only: Subsection 670.2(a)(16) to (a)(14)
50. Renumbering only: Subsection 670.2(a)(16)(A) to (a)(14)(A)
51. Subsection 670.2(a)(16)(B) – species common name grammatical error corrected; renumbered to (a)(14)(B) (See Exhibit 18)
52. Subsection 670.2(a)(16)(C) – species scientific name changed to reflect subspecies reclassification to different species; renumbered to (a)(14)(D) (See

Attachment A (revised 9/26/2014)

Exhibit 19)

53. Renumbering only: Subsection 670.2(a)(16)(D) to (a)(14)(C)
54. Renumbering only: Subsection 670.2(a)(16)(E), (F), (G) to (14)(E), (F), (G)
55. Subsection 670.2(a)(17) – family common name updated; renumbered to (a)(15) (See Exhibit 20)
56. Subsection 670.2(a)(17)(A), (B), (C), (D), (E) – species common name grammatical error corrected; renumbered to (a)(15)(D), (E), (F), (G), (H) (See Exhibits 21 – 25)
57. Subsection 670.2(a)(17)(F), (G), (H) – scientific name corrected to reflect reclassification of species to different genus; renumbered to (a)(15)(A), (B), (C) (See Exhibits 26 – 28)
58. Renumbering only: Subsection 670.2(a)(17)(I), (J), (K) to (a)(15)(I), (J), (K)
59. Subsection 670.2(a)(18) – family removed; species reclassified to different family under Subsection (a)(4) (See Exhibit 8)
60. Subsection 670.2(a)(18)(A) – species reclassified to different family, moved from Hydrophyllaceae to Boraginaceae; renumbered to (a)(4)(B) (See Exhibit 8)
61. Renumbering only: Subsection 670.2(a)(19) to (a)(16)
62. Subsection 670.2(a)(19)(A), (B) – species common name grammatical error corrected; renumbered to (a)(16)(A), (B) (See Exhibits 29 and 30)
63. Subsection 670.2(a)(19)(C) – species scientific name corrected to reflect reclassification of subspecies to species; renumbered to (a)(16)(C) (See Exhibit 31)
64. Renumbering only: Subsection 670.2(a)(19)(D), (E), (F) to (a)(16)(D), (E), (F)
65. Renumbering only: Subsection 670.2(a)(20) to (a)(17)
66. Renumbering only: Subsection 670.2(a)(20)(A), (B), (C) to (a)(17)(A), (B), (C)
67. Subsection 670.2(a)(21) – family common name updated; renumbered to (a)(18) (See Exhibit 32)
68. Subsection 670.2(a)(21)(A) – species reclassified from a variety to a subspecies; renumbered to (a)(18)(B) (See Exhibit 33)

Attachment A (revised 9/26/2014)

69. Renumbering only: Subsection 670.2(a)(21)(B) to (a)(18)(C)
70. Subsection 670.2(a)(21)(C) – species scientific name changed to reflect reclassification of variety of one species to subspecies of a different species; renumbered to (a)(18)(A) (See Exhibits 34 and 34A)
71. Renumbering only: Subsection 670.2(a)(21)(D) to (a)(18)(D)
72. Renumbering only: Subsection 670.2(a)(22) to (a)(19)
73. Renumbering only: Subsection 670.2(a)(22)(A) to (a)(19)(A)
74. Renumbering only: Subsection 670.2(a)(23) to (a)(20)
75. Subsection 670.2(a)(23)(A), (B) – species common names updated; renumbered to (a)(20)(A), (B) (See Exhibits 35 and 36)
76. Renumbering only: Subsection 670.2(a)(23)(C), (D), (E), (F) to (a)(20)(C), (D), (E), (F)
77. Renumbering only: Subsection 670.2(a)(24) to (a)(21)
78. Renumbering only: Subsection 670.2(a)(24)(A), (B), (C), (D) to (a)(21)(A), (B), (C), (D)
79. Subsection 670.2(a)(24)(E) – species common name grammatical error corrected; renumbered to (a)(21)(E) (See Exhibit 37)
80. New family added as Subsection 670.2(a)(22); species reclassified to this family, Orobanchaceae, pursuant to items 110, 111, 112, and 113 below (See Exhibits 38 – 43)
81. New family added as Subsection 670.2(a)(23); species reclassified to this family, Plantaginaceae, pursuant to item 114 below (See Exhibit 44)
82. Renumbering only: Subsection 670.2(a)(25) to (a)(24)
83. Subsection 670.2(a)(25)(A) – scientific name corrected to reflect reclassification of subspecies to different genus and species; species common name updated; renumbered to (a)(24)(G) (See Exhibit 45)
84. Renumbering only: Subsection 670.2(a)(25)(B) to (a)(24)(A)
85. Renumbering only: Subsection 670.2(a)(25)(C) to (a)(24)(B)
86. Renumbering only: Subsection 670.2(a)(25)(D) to (a)(24)(C)

Attachment A (revised 9/26/2014)

87. Renumbering only: Subsection 670.2(a)(25)(E) to (a)(24)(D)
88. Renumbering only: Subsection 670.2(a)(25)(F) to (a)(24)(E)
89. Renumbering only: Subsection 670.2(a)(25)(G) to (a)(24)(F)
90. Renumbering only: Subsection 670.2(a)(25)(H) to (a)(24)(H)
91. Subsection 670.2(a)(25)(I) – species common name updated; renumbered to (a)(24)(I) (See Exhibit 46)
92. Renumbering only: Subsection 670.2(a)(26) to (a)(25)
93. Renumbering only: Subsection 670.2(a)(26)(A), (B), (C) to (a)(25)(A), (B), (C)
94. Renumbering only: Subsection 670.2(a)(27) to (a)(26)
95. Renumbering only: Subsection 670.2(a)(27)(A), (B), (C), (D), (E), (F), (G) to (a)(26)(A), (B), (C), (D), (E), (F), (G)
96. Renumbering only: Subsection 670.2(a)(27)(H) to (a)(26)(J)
97. Renumbering only: Subsection 670.2(a)(27)(I) to (a)(26)(H)
98. Renumbering only: Subsection 670.2(a)(27)(J) to (a)(26)(I)
99. Renumbering only: Subsection 670.2(a)(27)(K) to (a)(26)(K)
100. Renumbering only: Subsection 670.2(a)(28) to (a)(27)
101. Renumbering only: Subsection 670.2(a)(28)(A), (B) to (a)(27)(A), (B)
102. Renumbering only: Subsection 670.2(a)(29) to (a)(28)
103. Subsection 670.2(a)(29)(A) – species scientific name spelling corrected; renumbered to (a)(28)(A) (See Exhibit 47)
104. Renumbering only: Subsection 670.2(a)(30) to (a)(29)
105. Renumbering only: Subsection 670.2(a)(30)(A), (B), (C) to (a)(29)(A), (B), (C)
106. Renumbering only: Subsection 670.2(a)(31) to (a)(30)
107. Renumbering only: Subsection 670.2(a)(31)(A) to (a)(30)(A)

Attachment A (revised 9/26/2014)

108. New family added as Subsection 670.2(a)(31); species reclassified to this family, Ruscaceae, pursuant to item 2 above; added as (a)(31)(A) (See Exhibit 1)
109. Subsection 670.2(a)(33) – Family removed; species reclassified to new families added as Subsections 670.2(a)(22) and (a)(23) (See Exhibits 38 – 44)
110. Subsection 670.2(a)(33)(A) – species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae; renumbered to (a)(22)(A) (See Exhibit 38)
- 110.a. Subsection 670.2(a)(33)(B), (C) – species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae; species common names updated; renumbered to (a)(22)(B), (C) (See Exhibits 39, 40, and 40A)**
111. Subsection 670.2(a)(33)(D) – species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae; scientific name corrected to reflect reclassification of species to different genus and updated spelling of species and subspecies names; renumbered to (a)(22)(D) (See Exhibit 41)
112. Subsection 670.2(a)(33)(E) – species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae; scientific name corrected to reflect reclassification of species to different genus and updated spelling of species name; species common name updated; renumbered to (a)(22)(E) (See Exhibit 42)
113. Subsection 670.2(a)(33)(F) – species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae; renumbered to (a)(22)(F) (See Exhibit 43)
114. Subsection 670.2(a)(33)(G) – species reclassified to different family, moved from Scrophulariaceae to Plantaginaceae; renumbered to (a)(23)(A) (See Exhibit 44)
115. New family added as Subsection 670.2(a)(33); species reclassified to this family, Themidaceae, pursuant to items 4, 5, 6, and 7 above; added as (a)(33)(A), (a)(33)(B), (a)(33)(C) and (a)(33)(D) (See Exhibits 2 – 5)
116. Subsection 670.2(b)(1) – family removed; species no longer in this family, Amaryllidaceae; new family, Alliaceae, added as (b)(1); species reclassified to Alliaceae (See Exhibit 48)

Attachment A (revised 9/26/2014)

117. Subsection 670.2(b)(2)(A) – species scientific name corrected to reflect reclassification of species to **variety**, renumbered to (b)(2)(B) (See Exhibit 49)
118. Renumbering only: Subsection 670.2(b)(2)(B) to (b)(2)(A)
119. Subsection 670.2(b)(2)(D) – species common name updated (See Exhibit 50)
120. Subsection 670.2(b)(3) – family common name updated (See Exhibit 51)
- 120.a. Subsection 670.2(b)(3)(A) – species common name grammatical error corrected (See Exhibit 51)**
121. Subsection 670.2(b)(6) – family common name updated (See Exhibit 20)
122. Subsection 670.2(b)(6)(A) – species common name grammatical error corrected (See Exhibit 52)
123. New family added as Subsection 670.2(b)(7); species reclassified to this family, Hydrangaceae, pursuant to item 130 below; added as (b)(7)(A) (See Exhibit 53)
124. Renumbering only: Subsection 670.2(b)(7) to (b)(8)
125. Renumbering only: Subsection 670.2(b)(7)(A), (B) to (b)(8)(A), (B)
126. Renumbering only: Subsection 670.2(b)(8) to (b)(9)
127. Renumbering only: Subsection 670.2(b)(8)(A) to (b)(9)(A)
128. New family added as Subsection 670.2(b)(10); species reclassified to this family, Orobanchaceae, pursuant to item 139 below; added as (b)(10)(A) (See Exhibit 54)
129. Subsection 670.2(b)(9) – family removed; species reclassified to a different family under subsection (b)(7) (See Exhibit 53)
130. Subsection 670.2(b)(9)(A) – species reclassified to different family, moved from Philadelphaceae to Hydrangeaceae; renumbered to (b)(7)(A) (See Exhibit 53)
131. Renumbering only: Subsection 670.2(b)(10) to (b)(11)
132. Renumbering only: Subsection 670.2(b)(10)(A) to (b)(11)(A)
133. Renumbering only: Subsection 670.2(b)(11) to (b)(12)
134. Subsection 670.2(b)(11)(A) – species common name updated; renumbered to (b)(12)(A) (See Exhibit 55)

Attachment A (revised 9/26/2014)

135. Renumbering only: Subsection 670.2(b)(11)(B) to (b)(12)(B)
136. Renumbering only: Subsection 670.2(b)(12) to (b)(13)
137. Renumbering only: Subsection 670.2(b)(12)(A) to (b)(13)(A)
138. Subsection 670.2(b)(13) – family removed; species reclassified to a different family under subsection (b)(10) (See Exhibit 54)
139. Subsection 670.2(b)(13)(A) – species reclassified to a different family, moved from Scrophulariaceae to Orobanchaceae; species common name updated; renumbered to (b)(10)(A) (See Exhibit 54)
140. Subsection 670.2(b)(14)(A) – species common name updated (See Exhibit 56)
141. Subsection 670.2(c)(1) – family removed; species reclassified to different family, Alliaceae, under subsection (c)(2); new family, Alliaceae, added as (c)(2) (See Exhibit 57)
142. New family added as Subsection 670.2(c)(1); species reclassified to this family, Agavaceae, pursuant to item 171 below; added as (c)(1)(A) (See Exhibit 58)
143. Subsection 670.2(c)(1)(A) – species reclassified to different family, moved from Amaryllidaceae to Alliaceae; renumbered to (c)(2)(A) (See Exhibit 57)
144. Subsection 670.2(c)(1)(B) – species reclassified to different family, moved from Amaryllidaceae to Themidaceae; renumbered to (c)(27)(A) (See Exhibit 59)
145. Renumbering only: Subsection 670.2(c)(2) to (c)(3)
146. Renumbering only: Subsection 670.2(c)(2)(A), (B), (C) to (c)(3)(A), (B), (C)
147. Renumbering only: Subsection 670.2(c)(3) to (c)(4)
148. Renumbering only: Subsection 670.2(c)(3)(A), (B), (C) to (c)(4)(A), (B), (C)
149. Subsection 670.2(c)(3)(D) – species common name spelling corrected; renumbered to (c)(4)(D) (See Exhibit 60)
150. Renumbering only: Subsection 670.2(c)(3)(E), (F), (G) to (c)(4)(E), (F), (G)
151. Subsection 670.2(c)(4) – **family common name updated; renumbered to (c)(5)** (See Exhibit 61)
152. Renumbering only: Subsection 670.2(c)(4)(A) to (c)(5)(A)

Attachment A (revised 9/26/2014)

153. Subsection 670.2(c)(4); species reclassified to this family, Boraginaceae, pursuant to item 170 below; added as (c)(5)(B) (See Exhibit 61)
154. Renumbering only: Subsection 670.2(c)(5) to (c)(6)
155. Renumbering only: Subsection 670.2(c)(5)(A) to (c)(6)(A)
156. Renumbering only: Subsection 670.2(c)(6) to (c)(7)
157. Renumbering only: Subsection 670.2(c)(6)(A), (B) to (c)(7)(A), (B)
158. Renumbering only: Subsection 670.2(c)(7) to (c)(8)
159. Subsection 670.2(c)(7)(A) – species common name grammatical error corrected; renumbered to (c)(8)(A) (See Exhibit 62)
160. Renumbering only: Subsection 670.2(c)(8) to (c)(9)
161. Renumbering only: Subsection 670.2(c)(8)(A) to (c)(9)(A)
162. Renumbering only: Subsection 670.2(c)(9) to (c)(10)
163. Subsection 670.2(c)(9)(A) – species common name grammatical error corrected; renumbered to (c)(10)(A) (See Exhibit 63)
164. Subsection 670.2(c)(10) – family common name updated; renumbered to (c)(11) (See Exhibit 20)
165. Subsection 670.2(c)(10)(A), (B), (C) – species common name grammatical errors corrected; renumbered to (c)(11)(A), (B), (C) (See Exhibits 64 – 66)
166. Renumbering only: Subsection 670.2(c)(10)(D) to (c)(11)(D)
167. Subsection 670.2(c)(10)(E) - species scientific name corrected to reflect reclassification from variety to species; **species common name updated**; renumbered to (c)(11)(E) (See Exhibit 67)
168. Renumbering only: Subsection 670.2(c)(10)(F) to (c)(11)(F)
169. Subsection 670.2(c)(11) – family removed; species reclassified to different family under Subsection (c)(5) (See Exhibit 61)
170. Subsection 670.2(c)(11)(A) – species reclassified to different family, moved from Hydrophyllaceae to Boraginaceae; renumbered to (c)(5)(B) (See Exhibit 61)

Attachment A (revised 9/26/2014)

171. Subsection 670.2(c)(12)(C) – species reclassified to different family, moved from Liliaceae to Agavaceae; renumbered to (c)(1)(A) (See Exhibit 58)
172. Subsection 670.2(c)(13) – family common name updated (See Exhibit 32)
173. Subsection 670.2(c)(14) - species reclassified to this family, Malvaceae, pursuant to item 208 below. Added as (c)(14)(A) and (c)(14)(B) (See Exhibits 68 and 69)
174. Renumbering only: Subsection 670.2(c)(14)(A) to (c)(14)(C)
175. Renumbering only: Subsection 670.2(c)(14)(B) to (c)(14)(D)
176. New family added as Subsection 670.2(c)(15); species reclassified to this family, Montiaceae, pursuant to item 188 below; added as (c)(15)(A) (See Exhibit 70)
177. Renumbering only: Subsection 670.2(c)(15) to (c)(16)
178. Renumbering only: Subsection 670.2(c)(15)(A), (B) to (c)(16)(A), (B)
179. New family added as Subsection 670.2(c)(17); species reclassified to this family, Orobanchaceae, pursuant to items 202, 203, 204, and 206 below; added as (c)(17)(A), (c)(17)(B), (c)(17)(C), (c)(17)(D), and (c)(17)(E) (See Exhibits 71 – 75)
180. New family added as Subsection 670.2(c)(18); species reclassified to this family, Plantaginaceae, pursuant to item 205 below; added as (c)(18)(A) (See Exhibit 76)
181. Renumbering only: Subsection 670.2(c)(16) to (c)(19)
182. Renumbering only: Subsection 670.2(c)(16)(A), (B), (C) to (c)(19)(A), (B), (C)
183. Renumbering only: Subsection 670.2(c)(17) to (c)(20)
184. Renumbering only: Subsection 670.2(c)(17)(A) to (c)(20)(A)
185. Renumbering only: Subsection 670.2(c)(18) to (c)(21)
186. Renumbering only: Subsection 670.2(c)(18)(A), (B), (C), (D), (E) to (c)(21)(A), (B), (C), (D), (E)
187. Subsection 670.2(c)(19) – family removed; species reclassified to a different family under Subsection (c)(15) (See Exhibit 70)

Attachment A (revised 9/26/2014)

188. Subsection 670.2(c)(19)(A) – species reclassified to different family, moved from Portulacaceae to Montiaceae; renumbered to (c)(15)(A) (See Exhibit 70)
189. Renumbering only: Subsection 670.2(c)(20) to (c)(22)
190. Renumbering only: Subsection 670.2(c)(20)(A) to (c)(22)(A)
191. Subsection 670.2(c)(20)(B) – species common name updated; renumbered to (c)(22)(B) (See Exhibit 77)
192. Renumbering only: Subsection 670.2(c)(21) to (c)(23)
193. Subsection 670.2(c)(21)(A) – species common name grammatical error corrected; renumbered to (c)(23)(A) (See Exhibit 78)
194. Renumbering only: Subsection 670.2(c)(21)(B), (C), (D) to (c)(23)(B), (C), (D)
195. Renumbering only: Subsection 670.2(c)(22) to (c)(24)
196. Renumbering only: Subsection 670.2(c)(22)(A) to (c)(24)(A)
197. Renumbering only: Subsection 670.2(c)(23) to (c)(25)
198. Renumbering only: Subsection 670.2(c)(23)(A), (B), (C) to (c)(25)(A), (B), (C)
199. Renumbering only: Subsection 670.2(c)(24) to (c)(26)
200. Renumbering only: Subsection 670.2(c)(24)(A) to (c)(26)(A)
201. Subsection 670.2(c)(25) – family removed; species reclassified to different families under Subsection (c)(17) and (c)(18) (See Exhibits 71 – 76)
202. Subsection 670.2(c)(25)(A) – species scientific name spelling corrected; species common name updated; species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae; renumbered to (c)(17)(A) (See Exhibit 71)
203. Subsection 670.2(c)(25)(B) – scientific name corrected to reflect reclassification of species to different genus and updated species and subspecies spelling; species common name updated; species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae ; renumbered to (c)(17)(B) (See Exhibit 72)
204. Subsection 670.2(c)(25)(C), (D) – species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae; renumbered to (c)(17)(C), (D) (See

Attachment A (revised 9/26/2014)

Exhibits 73 and 74)

205. Subsection 670.2(c)(25)(E) – species reclassified to different family, moved from Scrophulariaceae to Plantaginaceae; renumbered to (c)(18)(A); (See Exhibit 76)
206. Subsection 670.2(c)(25)(F) – species reclassified to different family, moved from Scrophulariaceae to Orobanchaceae; renumbered to (c)(17)(E) (See Exhibit 75)
207. Subsection 670.2(c)(26) – family removed; species reclassified to different family under Subsection (c)(14) (See Exhibits 68 and 69)
208. Subsection 670.2(c)(26)(A), (B) – species reclassified to different family, moved from Sterculiaceae to Malvaceae; renumbered to (c)(14)(A), (B) (See Exhibits 68 and 69)
209. New family added as Subsection 670.2(c)(27); species reclassified to this family, Themidaceae, pursuant to item 144 above; added as (c)(27)(A) (See Exhibit 59)