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LIST

OF A COLLECTION OF DRIED PLANTS MADE BY L. J. XANTUS,
 AT FORT TEJON, AND VICINITY, CALIFORNIA, NEAR LAT.
 35°, AND LONG. 119°, 1857-8. BY ASA GRAY, M. D.

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| 1. <i>Clematis ligusticifolia</i> , Nutt. | 14. <i>Claytonia perfoliata</i> , Don. |
| 2. <i>Delphinium Menziesii</i> , DC. | 15. <i>Sidalcea malvaeflora</i> , Gray. |
| 3. <i>Eschscholtzia Californica</i> , Cham. | 16. <i>Fremontia Californica</i> , Torr. |
| 4. <i>Eschscholtzia tenuifolia</i> , Benth. | 17. <i>Erodium cicutarium</i> , L'Her. |
| 5. <i>Dicentra</i> (<i>Chrysocarpus</i> , Torr.)
<i>chrysantha</i> , H. & A. | 18. <i>Frangula Californica</i> , Gray. |
| 6. <i>Meconopsis heterophylla</i> , Benth. | 19. <i>Rhus diversiloba</i> , Torr. & Gr. |
| 7. <i>Streptanthus heterophyllus</i> , Nutt. | 20. <i>Aesculus Californica</i> , Nutt. |
| 8. <i>Erysimum asperum</i> , DC. var.
(<i>elatum</i> , Nutt.) | 21. <i>Lupinus microcarpus</i> , Sims. |
| 9. <i>Raphanus sativus</i> , Linn. "In can-
ons, &c." | 22. " <i>bicolor</i> , Lindl. |
| 10. <i>Isomeris arborea</i> , Nutt. | 23. " <i>leptophyllus</i> , Benth. var.
<i>foliolis latioribus</i> . |
| 11. <i>Viola pedunculata</i> , var. <i>petalis 2</i>
<i>superioribus extus praesertim</i>
<i>fusco-purpureis</i> . | 24. <i>Hosackia Purshiana</i> , Benth. |
| 12. <i>Silene Californica</i> , Durand, (var.
of <i>S. laciniata</i> .) | 25. " <i>scoparia</i> , Nutt. |
| 13. <i>Calandrinia Menziesii</i> , Hook. | 26. <i>Cercocarpus parvifolius</i> , Nutt. |
| | 27. <i>Oenothera biennis</i> , L. var. |
| | 28. " <i>distorta</i> , Nutt.? |
| | 29. " <i>tenella</i> , Cur. |
| | 29 a. " <i>rubicunda</i> , Lindl. |
| | 30. <i>Clarkia elegans</i> , Lindl. |

31. *CLARKIA XANTIANA* (sp. nov.): foliis linearibus seu lanceolatis; floribus quasi racemosis; calycis tubo ore villosissimo; petalis cuneatis alte bilobis cum lancinula subulata interposita deorsum in unguiculam latam edentatam sensim angustatis; staminibus 8 fertilibus; stigmatis lobis late ovalibus brevibus; capsula sessili.—An interesting species from its holding an intermediate position between the original *Clarkia pulchella* and *C. (Phacostoma, Spach.) elegans*; the foliage (which, with the ovaries and flower-buds, is minutely cinereous-puberulent) resembling the former, as do the lobed petals, but here the middle lobe is reduced to a mere lacinula, and the broader and shorter

claw is toothless: while the blossoms are racemosely disposed along the simple stem or branches as in *C. elegans*, in bud strongly drooping. There are no scales at the base of the filaments; but the throat of the short funnel-form tube of the calyx is evenly and densely bearded with villous hairs. Petals purple or pink, often with a deeper-colored spot toward the base of the blade. Capsules rather slender, sessile, or the lowest subsessile.

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| 32. <i>Zauschneria Californica</i> , <i>Prest.</i> | 48. <i>Bahia Wallacei</i> , <i>Gray</i> , in <i>Pl.</i> |
| 33. <i>Epilobium coloratum</i> , <i>Muhl.</i> | <i>Whipp.</i> |
| 34. <i>Meutzelia albicaulis</i> , <i>Dougl.</i> | 49. <i>Monolopia major</i> , <i>DC.</i> |
| 35. <i>Megarrhiza Californica</i> , <i>Torr.</i> | 50. <i>Layia gaillardiioides</i> , <i>Hook. & Arn.</i> |
| 36. <i>Cicuta maculata</i> , <i>L.</i> | <i>var. pappo albo: foliis pinnatif-</i> |
| 37. <i>Berula angustifolia</i> , <i>Koch.</i> | <i>idis.</i> |
| 38. <i>Edosmia Gairdneri</i> , <i>Nutt.</i> | 51. <i>Madaria corymbosa</i> , <i>DC.</i> |
| 39. <i>Peucedanum utriculatum</i> , <i>Nutt.</i> | 52. <i>Achillea Millefolium</i> , <i>L.</i> |
| 40. <i>Galium boreale</i> , <i>L. var.</i> | 53. <i>Senecio Douglasii</i> , <i>DC.</i> |
| 41. <i>Erigeron Douglasii</i> , <i>Torr. & Gray.</i> | 54. <i>Sonchus asper</i> , <i>Vill.</i> |
| 42. <i>Balsamorhiza deltoides</i> , <i>Nutt.</i> | 55. <i>Calis linearifolia</i> , <i>DC.</i> |
| 43. <i>Leptosyne Douglasii</i> , <i>DC.</i> | 56. <i>Maerorhynchus grandiflorus</i> , <i>Nutt.</i> |
| 44. <i>Helianthus lenticularis</i> , <i>Dougl.</i> | 57. <i>Arctostaphylos glauca</i> , <i>Lindl.</i> |
| 45. <i>Chamaetis glabriuscula</i> , <i>DC. var.</i> | 58. <i>Collisia bicolor</i> , <i>Benth.</i> |
| <i>megacephala, Gray, in Pl.</i> | 59. " " <i>var. parviflora.</i> |
| <i>Whipp.</i> | 60. <i>Scropanularia nodosa</i> , <i>L.</i> |
| 46. <i>Buxiella gracilis</i> , <i>DC.</i> | 61. <i>Pentstemon centranthifolius</i> , <i>Benth.</i> |
| 47. <i>Bahia confertiflora</i> , <i>DC.</i> | <i>fol. latioribus.</i> |

62. *PENTSTEMON BREVIFLORUS*, *Lindl. var.* Sbrubby; lower leaves short (half an inch or less in length,) oblong or somewhat obovate, very obtuse: sepals glandularvillous (as they are, less conspicuously, in Douglas's specimens); corolla strongly bearded, especially at the summit of the lobes, with long and glandular hairs. The expression "labio superiore villosa" does not adequately express it.

63. *PENTSTEMON TERNATUS* (*Torr. in Mex. Bound. Surv.*) glaber, basi fruticosus; caulibus floridis ramisque virgatis simplicissimis glaucis; foliis ternato-verticillatis lineari-lanceolatis (policaribus) utrinque acutis subsessilibus rigidis cartilagineo-serratis denticulatisve, floralibus subulatis; paniculâ angustatâ; calyce (segmentis lanceolato-ovatis) pedicellisque glanduloso-puberis; corollâ (purpureâ? extus pruinoso-puberulâ) longè cylindricâ, limbo brevi, labiis æquilongis, superiore oblongo erecto apice bifido, inferiore tripartito, segmentis patentibus angustè oblongis; filamentis sterilibus corollâ dimidio brevioribus hinc valdè barbato.—

Stem or simple branches slender, one or two feet long, leafy to the inflorescence, the leaves about the length of the internodes. Flowers in a virgate panicle. Tube of the corolla an inch long, only two lines in diameter, scarcely ampliate at the summit, the lobes and upper lip only three lines long. Fertile filaments glabrous except at their base, where they are sparsely hirsute; anthers scarcely exerted, glabrous; sterile filament very strongly bearded on the posterior side for its whole length. A very distinct species of Bentham's section *Elmigeræ*; the leaves in threes in all the specimens.

64. *PENTSTEMON LÆTUS* (sp. nov.): pallidus, puberulus, supernè glandulosus; caulibus subpedalibus adscendentibus; integerrimis crassiusculis, inferioribus spatulatis seu oblan-
 ceolatis in petiolum marginatum attenuatis, superioribus oblongo-
 lanceolatis basi latâ arcuè sessilibus, floralibus parvis; paniculâ
 laxâ; pedunculis sæpius trifloris; calycis segmentis oblongis
 herbaceis immarginatis; corollâ cœruleâ supernè campanulato-
 ampliata, lobis rotundatis subæqualibus; antheris (§ *Saccan-
 theræ*) rimâ hispido-ciliatis juxta insertionem villosulis; filamento
 sterili glaberrimo apice dilatato.—A depauperate specimen of
 this is what, in the account of Lieut. Beckwith's collection,
 (*Pacific Railroad Explorations*, 2, p. 122,) I doubtfully referred
 to *P. heterophyllus*. It proves to be a very distinct species of
 the same section, and a handsome one, the (apparently bright
 blue) corolla over an inch in length.

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| 65. <i>Mimulus cardinalis</i> , Dougl. | 76. <i>Mentha Canadensis</i> , Linn. |
| 66. " <i>luteus</i> , Linn. | 77. <i>Monardella candicans</i> , Benth. |
| 67. <i>Eriogonum Fremonti</i> , Benth. var. | 78. <i>Salvia Columbariæ</i> , Benth. |
| 68. <i>Castilleia affinis</i> , Hook. & Arn. | 79. " <i>carduacea</i> , Benth. |
| 69. " <i>hispida</i> , Hook. & Arn. | 80. <i>Stachys pycnantha</i> , Benth. & var. |
| 70. " <i>candens</i> , Durand & Hil-
gard, in <i>Pacif. R. R. Expt.</i> 5,
pp. 12, 13? | foliis albo-tomentosis. |
| 71. <i>Castilleia linariæfolia</i> , Benth. (Folia
floralia sæpius trifida; calyx pos-
ticè etiam bifidus; corolla nunc
bipollicaris.) | 81. <i>Amsinckia spectabilis</i> , Fisch. &
Meyer. |
| 72. <i>Orthocarpus purpurascens</i> , Benth. | 82. <i>Amsinckia spectabilis</i> , var. minor. |
| 73. <i>Solanum umbelliferum</i> , Eschsch. | 83. <i>Eritrichium fulvum</i> , A. DC. |
| 74. <i>Datura meteloides</i> , DC. | 84. <i>Krynitzia leiocarpa</i> , Fisch. &
Meyer. |
| 75. <i>Nicotiana</i> , n. sp.? <i>N. plumbagini-
folia</i> , var. <i>f. Bigelovii</i> , Torr. in
<i>Pacif. R. R. Expt.</i> 4, p. 137. | 85. <i>Eritrichium angustifolium</i> , Torr.
in <i>Pacif. R. R.</i> 5, p. 353. |
| | 86. <i>Eritrichium</i> , n. sp.? too young to
characterize. |
| | 87. <i>Nemophila insignis</i> , Dougl. |
| | 88. <i>Ellisia membranacea</i> , Benth. |

89. *Phacelia circinata*, Jacq.
 90. " *tanacetifolia*, Benth.
 91. " " *var. tenuifolia*, Thurber.
 92. *Phacelia ramosissima*, Benth. *forma evoluta*.
 93. *Emmenanthe penduliflora*, Benth.
 94. *Eriodyction tomentosum*, Benth.
 95. *Gilia densifolia*; etiam *G. elongata*. Benth.
 96. *Gilia achilleæfolia*, Benth.
 97. " *tricolor*, Benth.
 98. " (*Linanthus*) *dichotoma*, Benth.
99. *Gilia* (*Leptosiphon*) *androsacea*, Benth.
 100. *Apocynum cannabinum*, Linn.
 101. *Acerates* (*Anantherix*) *tomentosa*, Torr. *Mex. Bound. Surv.*
 102. *Asclepias fascicularis*, Decaisne.
 103. *Mirabilis* (*Quamoclidion*) *multiflora*, Torr.
 104. *Blitum Bonus-Henricus*, Moq. *var.* (*Chenopodium anthelminticum*, *var. ? hastatum*, Moquin.)
 105. *Eriogonum polifolium*, Benth.
 106. " *angulosum*, Benth.
 107. *Chorizanthe procumbens*, Nutt. (*An C. staticoides*, *var. ?*)

108. CHORIZANTHE (MUCRONEA) PERFOLIATA (sp. nov.): glabella; foliis chartaceis, caulinis triangulatis trilobisve sæpissimè perfoliatis; involucri tetraquetri quadridentato, dentibus subæqualibus subulato-aristulatis; perigonii segmentis exterioribus 2-4-dentatis leviter erosis, interioribus magis laciniato-fimbriatis.—Repeatedly dichotomous from the annual root, divaricate-diffuse, a sessile and solitary involucrium in each fork; on the branchlets the involucries rather crowded and somewhat spicate or paniced, through the less forking and the gradual reduction of the leaves to bracts. Radical leaves spatulate. The cauline leaves are larger, less lobed, more amplexicaul, (and most of them really perfoliate,) and the angles or lobes less awn-pointed than in *C.* (*Mucronea*, Benth.) *Californica*; the four triangular teeth of the involucrie also tipped with a shorter awn, not exceeding the perigonium when that is fully developed; the divisions of the latter, especially the three inner ones, conspicuously fimbriate-laciniate. Otherwise this plant closely resembles Bentham's *Mucronea Californica*, and confirms his doubts of the distinctness of the genus from *Chorizante*, notwithstanding the peculiarity of habit. *Centrostegia*, with a similar habit, is distinguishable only by the spurred appendages of the involucrium, and is probably to be reduced, along with *Mucronea*, to a section of *Chorizante*. To this, however, does not belong Remy's *C. commissuralis*, which differs from true *Chorizante* merely in the laxer inflorescence. *Acanthogonum*, Torr. (which has a short-pedicelled flower and nine stamens,) is an interesting link, plainly connecting *Lastarria*, Remy, with the other Eriogoneous genera. The verticil-

late upper leaves of the latter answer to the involucre, which, however, incloses a proliferous shoot as well as a flower.

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| 109. <i>Anemonopsis Californica</i> , Nutt. | 117. <i>Calochortus venustus</i> , Benth. |
| 110. <i>Euphorbia albomarginata</i> , Torr.
(<i>E. stipulacea</i> , Engelm.) | 118. <i>Juncus xiphioides</i> , E. Meyer. |
| 111. <i>Quercus lobata</i> , Née, (Q. Hindsii,
Benth.) Foliage only. | 119. <i>Polypogon Monspeliensis</i> , Linn. |
| 112. <i>Ephedra antisyphilitica</i> , Berl. | 120. <i>Triticum repens</i> , Linn. |
| 113. <i>Epipactis Americana</i> , Lindl. | 121. <i>Elymus dasystachys</i> , Trin. ex
Munro in <i>Pl. Hartw.</i> , p. 342,
(= forma <i>luxurians</i> , Hartw. No.
2082.) |
| 114. <i>Brodiaea capitata</i> , Benth. | 122. <i>Allosorus andromedæfolius</i> , Kaulf. |
| 115. <i>Calliproa lutea</i> , Lindl. | |
| 116. <i>Tritelia laxa</i> , Lindl. | |