

W. SCOTT ARMBRUSTER, CHRISTA P. H. MULDER, BRUCE G. BALDWIN, SUSAN KALISZ, BRIDGET WESSA, AND HELEN NUTE. 2002. Comparative analysis of late floral development and mating-system evolution in tribe Collinsieae (Scrophulariaceae s.l.) *American Journal of Botany* 89(1): 37-49.

Appendix 1. Dates of observation/collection and localities/vouchers of populations studied of *Collinsia* and *Tonella*. Baldwin, Baldwin and Armbruster, and Neese vouchers are deposited at the Jepson Herbarium, University of California, Berkeley (JEPS), and Armbruster vouchers are deposited at the University of Alaska Herbarium (ALA). Populations included in the molecular phylogenetic analyses are indicated by an asterisk (*). GenBank accession numbers are given in parentheses under the taxon. CA = California, MO = Missouri, WA = Washington.

Species	Dates of study	Location (latitude, longitude), voucher
* <i>Collinsia bartsiiifolia</i> Benth. var. <i>bartsiiifolia</i> (AF385344)	May 1995, April 1999	S of Lakeport, Lake Co., CA (39° 00' N, 122° 54' W), <u>Baldwin and Armbruster 858</u>
* <i>C. callosa</i> Parish (AF385354)	May 1997	NW side of Cerro Noroeste, Kern Co., CA (34° 50' N, 119° 13' W), <u>Baldwin and Armbruster 947</u> ,
<i>C. childii</i> Parry ex A. Gray (pop. 1)	July 1978	Chews Ridge, Carmel Valley, Monterey Co., CA (36° 21' N, 121° 34' W), <u>Armbruster s.n.</u>
* <i>C. childii</i> Parry ex A. Gray (pop. 2), (AF385355)	May 1996	E edge of Pinehurst, Fresno Co., CA (36° 41' N, 119° 01' W), <u>E. C. Neese 21501</u>
* <i>C. concolor</i> Greene (AF385350)	April 1997	W side of San Jacinto Mountains, Riverside Co., CA (33° 34' N, 116° 56' W), <u>E. C. Neese 21539A</u>
* <i>C. corymbosa</i> Herder (AF385345)	May 1979, May 1995, April 1999	MacKerricher Dunes, Mendocino Co., CA (39° 31' N, 123° 46' W), <u>E. C. Neese 21140</u>
<i>C. grandiflora</i> Douglas ex Lindl. (pop. 1)	May 1980	Whites Gulch, near Sawyers Bar, Siskiyou Co., CA (41° 18' N, 123° 05' W), <u>Armbruster s.n.</u>
* <i>C. grandiflora</i> Douglas ex Lindl. (pop. 2) W), (AF385341)	July 1996	NW side of Horse Mountain, Trinity Alps, Humboldt County, CA (40° 53' N, 123° 44' <u>E. C. Neese 21359</u>

* <u>C. greenei</u> A. Gray (AF385338)	May 1995	N of Middletown, Lake Co., CA (38° 46' N, 122° 34' W), <u>Baldwin and Armbruster 851</u>
<u>C. heterophylla</u> Buist ex Graham (pop. 2 - Sierra form)	April 1978	Nimbus Dam, American River, Sacramento Co., CA (38° 38' N, 121° 13' W), <u>Armbruster s.n.</u>
<u>C. heterophylla</u> Buist ex Graham (pop. 4 - Coastal form)	June 1993	Sisar Canyon, Ventura Co., CA (34° 27' N, 119° 08' W), <u>Baldwin and Armbruster 950,</u>
* <u>C. heterophylla</u> Buist ex Graham (pop. 5) (AF385337)	April 1995	W of Mt. Bullion, Mariposa Co., CA (37° 28' N, 120° 04' W), <u>Baldwin and S. J. Bainbridge 828,</u>
<u>C. linearis</u> A. Gray (pop. 1)	June 1979	Sawyers Bar, Siskiyou Co., CA (41° 18' N, 123° 07' W), <u>Armbruster s.n.</u>
* <u>C. linearis</u> A. Gray (pop. 2) (AF385343)	July 1995	W side of Horse Mountain, Trinity Alps, Humboldt Co., CA (40° 52' N, 123° 44' W), <u>E. C. Neese 21358</u>
* <u>C. multicolor</u> Lindl. & Paxton (AF385353)	May 1995	Swanton Road, Santa Cruz County, CA (37° 04' N, 122° 14' W), <u>E. C. Neese 21122</u>
<u>C. multicolor</u> Lindl. & Paxton	May 1995, April 1998	Crystal Springs Rd., San Mateo Co., CA (37° 32' N, 122° 20' W), <u>Baldwin and Armbruster 860</u>
* <u>C. parryi</u> A. Gray (AF385349)	April 1997	W end of San Bernardino Mountains, San Bernardino County, CA, (34° 19' N, 117° 25' W), <u>E. C. Neese 21530</u>
<u>C. parviflora</u> Douglas ex Lindl. (pop. 1)	May 1978	Snake Lake, Plumas Co., CA (39° 58' N, 121° 00' W), <u>Armbruster s.n.</u>
<u>C. parviflora</u> Douglas ex Lindl. (pop. 2)	June 1979	Boulder Creek Trail, Marble Mtns., Siskiyou Co., CA (41° 35' N, 123° 05' W), <u>Armbruster s.n.</u>
* <u>C. parviflora</u> Douglas ex Lindl. (pop. 3) (AF385340)	May 1995, April 1998	Tarraville Creek, Alameda Co., CA (37° 29' N, 121° 32' W), <u>Baldwin and Armbruster 845</u>

<u>C. rattanii</u> A. Gray (pop. 1)	May 1980	W of Etna, Marble Mtns., Siskiyou Co., CA (41° 25' N, 122° 56' W), <u>Armbruster s.n.</u>
* <u>C. rattanii</u> A. Gray (pop. 2) (AF385342)	May 1995	Boggs Lake, Lake Co., CA (38° 53' N, 122° 46' W), <u>Baldwin and Armbruster 849</u>
<u>C. sparsiflora</u> Fisch. & C. A. Mey. var. <u>arvensis</u> (Greene) Jeps. (pop. 1)	April 1979	Soda Creek/Capell Creek confluence Napa, Co., CA (38° 29' N, 122° 15' W), <u>Armbruster s.n.</u>
<u>C. sparsiflora</u> Fisch. & C. A. Mey. var. <u>arvensis</u> (Greene) Jeps. (pop. 2)	April 1998	MP 18, Hwy. 121, Napa, Co., CA (38° 25' N, 122° 12' W), <u>Armbruster and Kalisz 98-02</u>
<u>C. sparsiflora</u> Fisch. & C. A. Mey. var. <u>collina</u> (Jeps.) Newsom (pop. 1)	April 1978	Hastings Natural History Reserve, Carmel Valley, Monterey Co., CA (36° 23' N, 121° 33' W), <u>Armbruster s.n.</u>
* <u>C. sparsiflora</u> Fisch. & C. A. Mey. var. <u>collina</u> (Jeps.) Newsom (pop. 2) (AF385339)	May 1995, April 1998	Tarraville Creek, Alameda Co., CA. (37° 29' N, 121° 32' W), <u>Baldwin and Armbruster 854</u>
<u>C. sparsiflora</u> Fisch. & C. A. Mey. var. <u>collina</u> (Jeps.) Newsom (pop. 3)	May 1995, April 1998	Boggs Lake, Lake Co., CA. (38° 53' N, 122° 46' W), <u>Baldwin, Armbruster, and Kalisz 1066</u>
<u>C. sparsiflora</u> Fisch. & C. A. Mey. var. <u>sparsiflora</u> (pop. 1)	April 1998	Mi. 2, Suisun Valley Rd., Napa Co., CA. (38° 19' N, 122° 08' W), <u>Armbruster and Kalisz 98-01</u>
<u>C. sparsiflora</u> Fisch. & C. A. Mey. var. <u>sparsiflora</u> (pop. 2)	April 1998	Boggs Lake, Lake Co., CA (38° 53' N, 122° 46' W), <u>Baldwin, Armbruster, and Kalisz 1067</u>
<u>C. tinctoria</u> Hartw. ex Benth. Co. (pop. 1)	May 1979	Sierra Foothill Range Field Station, Yuba Co. (39° 15' N, 121° 16' W), <u>Armbruster s.n.</u>
* <u>C. tinctoria</u> Hartw. ex Benth. (pop. 2) (AF385346)	May 1995	Duvoul Creek, Sonoma Co., CA (38° 26' N, 122° 58' W), <u>Baldwin and Armbruster 857</u>

<u>C. tinctoria</u> Hartw. ex Benth. (pop. 3)	May 1997	Mt. Diablo, Contra Costa Co., CA (37° 52' N, 121° 56' W), <u>Baldwin and Armbruster 951</u> ,
<u>C. torreyi</u> A. Gray var. <u>torreyi</u> (pop. 2)	May 1979	White's Gulch, near Sawyers Bar, Siskiyou Co., CA (41° 18' N, 123° 05' W), <u>Armbruster s.n.</u>
<u>C. torreyi</u> A. Gray var. <u>torreyi</u> (pop. 3)	May 1979	Boulder Creek Trail, Marble Mountains, Siskiyou Co., CA (41° 35' N, 123° 05' W), <u>Armbruster s.n.</u>
* <u>C. torreyi</u> A. Gray N, var. <u>torreyi</u> (pop. 4) (AF385347)	June 1995	Near Pinecrest, Tuolumne Co., CA (38° 11' 119° 59' W), <u>E. C. Neese 21356</u>
* <u>C. torreyi</u> A. Gray var. <u>wrightii</u> (S. Watson) I. M. Johnst. (AF385348)	May 1997	E of Mt. Pinos, Kern Co., CA (34° 50' N, 119° 05' W), <u>Baldwin and Armbruster 948</u> ,
* <u>C. verna</u> Nutt. (AF385351)	May 1982	Raccoon Grove (near Monee), Will Co., IL (41° 24' N, 087° 45' W), <u>Kalisz s.n.</u>
* <u>C. violacea</u> Nutt. (AF385352) <u>21533B</u>	May 1997	6 miles W of Osceola, St. Clair Co., MO (38° 03' N, 093° 49' W), <u>E. C. Neese</u>
* <u>Tonella floribunda</u> A. Gray (AF385336)	May 1997	3 miles S of Asotin, Asotin Co., WA, (45° 56' N, 117° 01' W), <u>E. C. Neese 21538B</u>
* <u>T. tenella</u> (Benth.) A. Heller (AF385335)	May 1995	Boggs Lake, Lake Co, CA (38° 53' N, 122° 46' W), <u>Baldwin and Armbruster 852</u>
