

Table S1: Summary of *Aquilegia* samples used in this study.

Species	Population	Num. Individuals	Sample
<i>A. barnebyi</i>	Rifle Falls, CO	3	Second
<i>A. brevistyla</i>	Alberta, Canada	5	Second
<i>A. canadensis</i>	Kimbalton, Virginia	5	Second
<i>A. canadensis</i>	Ontario, Canada	5	Second
<i>A. chaplensei</i>	Sitting Bull Falls, NM	5	Second
<i>A. chrysantha</i>	Ash Canyon, NM	5	Second
<i>A. chrysantha</i>	El Salto, NM	4	Second
<i>A. coerulea</i> var. <i>alpina</i>	Jackson Hole, WY	5	Second
<i>A. coerulea</i> var. <i>coerulea</i>	Loveland Pass, CO	5	Second
<i>A. coerulea</i> var. <i>coerulea</i>	Sugarloaf, WY	5	Second
<i>A. coerulea</i> var. <i>coerulea</i>	Tony Grove, UT	5	Second
<i>A. pinetorum</i>	Sawmill, AZ	5	Second
<i>A. desertorum</i>	Horse Spring, AZ	1	Second
<i>A. elegantula</i>	Hyde Memorial, NM	5	Second
<i>A. eximia</i>	Porter Camp, CA	2	Second
<i>A. flavescens</i>	High Creek, UT	5	Second
<i>A. formosa</i>	Alaska	1	First
<i>A. formosa</i>	Bass Lake, CA	5	Second
<i>A. formosa</i>	Bishop Creek, CA	5	First
<i>A. formosa</i>	Cascades, WA	5	First
<i>A. formosa</i>	Fresno, CA	5	First
<i>A. formosa</i>	Las Vegas, NV	5	First
<i>A. formosa</i>	Po Island, British Columbia	5	Second
<i>A. formosa</i>	Po Island, British Columbia	5	First
<i>A. formosa</i>	Upper Lehman Creek, NV	5	Second
<i>A. formosa</i>	Upper Lehman Creek, NV	10	First
<i>A. formosa</i>	Ventura, CA	4	First
<i>A. formosa</i>	White Mountains, CA	5	First
<i>A. hinckleyana</i>	Capote Falls, TX	5	Second
<i>A. jonesii</i>	Medicine Wheel, WY	2	Second
<i>A. laramiensis</i>	Friend Camp, WY	2	Second
<i>A. longissima</i>	Baboquivari, AZ	4	Second
<i>A. longissima</i>	Maple, TX	5	Second
<i>A. micrantha</i>	Escalante, CO	5	Second
<i>A. pubescens</i>	Lamarck Trail, CA	16	First
<i>A. pubescens</i>	Morgan Pass, CA	4	First
<i>A. pubescens</i>	Piute Pass Trail, CA	5	Second
<i>A. pubescens</i>	Piute Pass Trail, CA	15	First

Supp. Table 1: continued

Species	Population	Num. Individuals	Sample
<i>A. saximontana</i>	Pikes Peak, CO	5	Second
<i>A. scopulorum</i>	Charleston Peak, NV	5	Second
<i>A. shockleyi</i>	Charleston Library, NV	5	Second
<i>A. skinneri</i>	Mesa del Campanero, Sonora, Mexico	5	Second
<i>A. triternata</i>	Zion, UT	5	Second
<i>A. caucasica</i>	Europe	1	Second
<i>A. flabellata</i>	Japan	3	Second
<i>A. fragrans</i>	Europe	1	Second
<i>A. glandulosa</i>	Asia	1	Second
<i>A. olympica</i>	Europe	2	Second
<i>A. pyrenaica</i>	Europe	2	Second
<i>A. viridiflora</i>	Siberia	3	Second
Hybrids (<i>formosa</i> and <i>pubescens</i>)	Lamarck Lakes, CA	11	First
Hybrids (<i>formosa</i> and <i>pubescens</i>)	Piute, CA	5	First
<i>Sp. nov.</i>	Stella Lakes, NV	5	Second