

## More New Plants from Oregon

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The following new species and varieties are to be added to the flora of Oregon. The type material is in the Herbarium of Willamette University.

***Brodiaea dissimulata*** sp. nov., bulbo fere globoso 15–20 mm. lato lamina externa fibrata tenua; scapis tenuis 3–4.5 dm. altis; foliis viridibus usque ad anthesem brevioribus quam scapis 2.5–5 mm. latis; umbellis 5–13 floris, bracteis involucri lanceolatis albo-scariosis pedicellis 8–16 mm. longis; perianthio lato-campanulato 12–15 mm. longo fere per longitudinem partito pallide croceo vel purpureo-tincto, lobis oblongis vel anguste ovatis medionervis nigroviridibus valde notatis; staminibus 6 albis omnibus similibus, filamentis lato-delhoideis basi confluentibus, antheris fere basifixis 2.5–3 mm. longis paullo brevioribus quam filamentis; ovariis capsulisque brevistipitatis.—Type *Mrs. Lilla Leach*, 2945, in dry rocky ground along the Illinois River, near Selma, Curry County, June 3, 1930.

This species is most nearly related to *B. Hendersoni* Wats. but differs in the smaller size, narrower leaves, smaller flowers and shorter, more dilated filaments. It is locally plentiful.

***Brodiaea Leachiae*** sp. nov., bulbo ovoideo 1.5–2 cm. alto lamina fibrata crassa; scapa tenuissima scabriuscula obscure purpurea 1.5–2.5 dm. alta; foliis plerumque 2 scapam aequantibus vel superantibus 4–7 mm. latis valde complicatis, ante inflorescentiam non flaccescentibus; umbellis 4–7-floris, bracteis anguste subulato-lanceolatis, pedicellis filiformis 12–25 mm. longis; perianthio 1.5–2 cm. longo campanulato-infundibuliformi vel lobis valde patentibus paullo plus  $\frac{1}{2}$  longitudinem partito tubo in basin angustissimam gradatim contracto albo vel caeruleo-tincto, lobis linea lata caerulea saturatius vel purpureo-caerulea distinctis usque ad basin tubi excurrenti; staminibus omnibus similibus, antheris versatilibus coeruleis 2.5–3 mm. longis, filamentis aliquid longioribus anguste subulatis non valde ad basin dilatatis, ovario stipitato stipo bis longiori quam corpore.—Type *Mrs. Lilla Leach* 3260 on a dry hillside along the Illinois River, near Agnes, Curry Co., May 5, 1931, deposited in the Herbarium of Willamette University. A handsome species probably very local. Not closely related to any hitherto described.

***Silene pulverulenta***, sp. nov., dense brevi-pilosa et viscidoglandularis omnino capillis articulatis; caulibus e caudice brevi fasciculatis copiose ramosis et a basi patentibus crassioribus 6–12 cm. altis; foliis crassioribus inferioribus lato-oblancheolatis acutis sessilibus vel interdum alato-petiolaris 4–8 cm. longis, superioribus angustioribus multoque minoribus; floribus multis, pedicellis 6–12 mm. longis post inflorescentia abrupte reflexis; calyce cylindrato 12–15 mm. longo lobis triangularis actuis 4–7 mm. longis; petalis pallentirubris vel albidis quam calyce 1 cm. longioribus, lamina aut profunde 4-lobata et lobis mediis multo longioribus aut 2-lobatis et eis solum dentatis, squamis coronae integerrimis, auriculis obsolitis; capsulis fere globosis calycem valde distendentibus 7–8 mm. longis stipe 2 mm. longo; seminibus crasso-papillois.—Type *Peck 14975*, on a dry sandy slope, 2 mi. north of Central Point, Jackson County, June 18, 1927.

This is most nearly related to *S. Hookeri* Nutt. from which it is distinguished by its lower, more condensed habit, and especially by the very viscid character of the pubescence. The specific name is suggested by the fact that the glandular foliage is usually found thickly covered with dust. It has been collected several times in eastern Josephine and western Jackson Counties.

***Silene oraria*** sp. nov., caulibus multis e ligneis rhizomatibus horizontalibus 1–1.5 dm. altis simplicibus tomentosis fere ad basin; foliis oblanceolatis acutis 2–3.5 cm. longis sessilibus vel inferioribus in petiolos alatos angustantibus, caulinis 3–7 jugis altissimo solum jugo multum redacto; floribus 1–3 in pedicellis 6–20 mm. longis; calyce anguste campanulato maturitate multum inflato late elliptico membranaceoque 11–14 mm. longo lobis ovatis et obtusis 4 mm. longis; petalis roseis vel albescentibus 18–22 mm. longis, lamina circiter 1 cm. longa profunde secta, lobis latis rotundisque integerrimis vel 2–3-sectis dentatisve, ungue latis, squamis oblongis integerrimis 3 mm. longis, auriculis latis conspicuisque; capsulis anguste ovoideis 10–12 mm. longo; seminibus universe tuberculatis valdius tergo.—Type *Peck 16513*, from bluffs above the sea at the mouth of Salmon River, Tillamook County, August 10, 1930.

The relationship of this species to *S. Douglasii* Hook. is undoubtedly close; it may be distinguished, however, by the elongated rootstocks, more numerous and broader cauline leaves, more strongly inflated and membranous calyx and larger petals.

*Arenaria Franklinii* Dougl. var. **Thompsoni** var. nov., caulis teretibus et foliis clare viridibus et dense adpressis fere tectis; cymis apertioribus, pedicellis 1.5–4 mm. longis; sepalis 5–6 mm. longis petalis subaequilongis.—Type *J. William Thompson 4769*, collected in dry sandy sagebrush plains near Arlington, Gilliam County, June 13, 1928.

**Anemone felix** sp. nov., rhizomate horizontale simplice 1–1.5 cm. longo 2–2.5 mm. crasso fusco aut nigriscenti in exemplis florescentibus spisse vestito squamis tenuibus fuscis lucidis amplectentibus, squamis in exemplis frugescentibus brevibus firmisque; caule graciliore purpurescenti 5–30 cm. alto sparse villosa capillis patentibus crispisque; foliis omnibus trifoliatis imo interdum cum caule florescente sed frequentius e rhizomatibus sterilibus, foliolis late ovatis aut orbicularibus, duobus vel omnibus saepe 2-partitis fere ad basin vel plus minusve profunde incisus vel crenatis, segmentis rotundis vel mucronatis valde ciliatis aliter fere glabris, petioli foliorum involucris plerumque brevibus crassis planisque, foliolo medio angustissime usque ad late rhomboideo, lateralibus obliquis omnibus profunde incisus dentatisve apicibus acutis marginibus ciliatis et venis supra saepe cum capillis rectis adpressisque; pedunculo patenti-villoso; flore 18–30 mm. lato; sepalis ovatis oblongisve inaequallimis 5–7 intus albis extus saepe in marginibus vel per medium purpurea clara notatis; staminibus multis 60–75 brevioribus quam sepalis plus demidio, filamentis albis vel rubescentibus; carpelibus in flore lanceolatis subtus pubescentibus stylis rectis; achaeniis anguste ellipticis 4 mm. longis, brevistipitatis rostro angusto rectoque, pubescentia densiore capillis brevibus patentibusque.—Type *Peck 16325*, collected in and along the margin of a sphagnum bog near De Lake, Lincoln County, March 27, 1931.

A handsome species, probably quite local differing from *A. oregana* Gray, its nearest relative, in the black, very scaly root-stock, the character of the pubescence, and the large white sepals touched here and there with bright rose-purple.

**Myosurus clavicaulis** sp. nov., foliis lineari-filiformis patentibus 2–4 cm. longis; scapis cum fructu fere folia aequantibus apices versus dilatatis patentibus; sepalis spatulatis inaequalibus 3–5-nervatis; receptaculis maturatis scapos aequantibus vel superantibus conspicue sursum curvatis; achaeniis maturis parvis minoribus quam 1.5 mm. longis rostro  $\frac{1}{2}$ – $\frac{2}{3}$  breviori quam

corpore recto vel paullo patenti, corpore oblongo tergo valde carinato minime rhomboideo sub rostro abrupte coarctato laterale ventraleque villosulo paullo inflato; seminibus oblongis ovario-brunnescentibus.—Type *Peck 13886*, from a dry streambed 7 mi. west of Riley, Harney County, June 22, 1925.

Most nearly related to *M. apetalus* Gray, but distinguished by the stout, conspicuously clavate scapes, curved fruiting receptacles and small, narrow achenes.

*Thelypodium Howellii* Wats. var. **spectabilis** var. nov., floribus magnis clare purpureis; marginibus sepalorum petalorumque conspicue albo-scariis; sepalis 8–9 mm. longis vix basi saccatis; petalis 16–20 mm. longis ungue paene bis longiore quam lamina spatulata; staminibus muto brevioribus quam petalis filamentis omnibus libris.—Type *Peck 16066*, in a low alkaline meadow 10 mi. east of Ironside, Malheur County, June 19, 1927.

**Cardamine rariflora** sp. nov., perennis, caule e rhizomate horizontali compluribus in locis dilatato tubera parva globosa formantibus, fere simplice erecta vel basin versus decumbente glabra 2.5–4 dm. alta; foliis cum petiolis 6 cm. longis foliolis 5–9, remotioribus anguste oblongis ovatis aut linearibus, terminale plerumque maximo, superioribus foliis similibus inferioribus; racemis sparsis maturitate, usque ad 2.5 dm. longis; sepalis basi saccatis oblongis 3–4 mm. longis marginibus scariosis; petalis albis 8–12 mm. longis; staminibus quam petalis  $\frac{1}{3}$  brevioribus; siliquis cum rostris 2.5–5 cm. longis 1.5–2 mm. latis rostro 4–6 mm. longo; seminibus 12–24.—Type *Peck 14803*, in swampy woods near Grand Ronde, Yamhill County, May 15, 1927.

This species is a near relative of *C. occidentalis* (Wats.) How., but is readily distinguished by the remarkably long and loose fruiting racemes, the larger flowers and the long beak of the siliques.

**Potentilla indiges** sp. nov., pubescentia tota recta plane adpressa caulium et petiolorum sparsa brevique solum in marginibus venisque infra, inflorescentia pubescentiore cinerea; caulibus fasciculatis gracilibus rubescentibus 3–5 dm. altis ad basin patentibus supra erectis; foliis obscure viridibus crassis firmis infimis longo-petiolatis foliolis 7–9 in longitudinem complicatis  $\frac{2}{3}$  ad  $\frac{4}{5}$  ad medium sectis segmentis lanceolato-linearibus et acutis, foliis caulinis majoribus 1–2; stipulis 3–4 cm. longis sectis

ut foliolis; inflorescentia minore densioreque; petalis 8–10 mm. longis apice leve obcordatis lobis calycis dimidio brevioribus.—Type *Peck 16034*, in a meadow along the John Day River 15 mi. above Dayville, Grant County, June 17, 1927.

One should hesitate to add another name to this already over-named section of *Potentilla*, but the present form is so well marked by its pubescence and leaf-characters as to demand specific recognition. It was found plentiful in the type locality.

*Oenothera andinum* Nutt. var. **anomala**, var. nov., simillima facie formae typicae; floribus plane trimeris; lobis calycis 1–1.5 mm. longis tubo longioribus; petiolis 1–1.5 mm. longis; capsulis paullo triquetris; seminibus fuscis fusiformis aut anguste obovatis.—Type *Peck 15670*, on a dry slope 6 mi. northwest of Paisley, Lake County, July 15, 1927. *Peck 15176*, 10 mi. north of Bonanza, Klamath County, is the same.

**Arctostaphylos viscosissima** sp. nov., fruticosa ramosissima 6–12 dm. alta, ramulis gracilibus dense pubescentibus capillis brevibus patentibusque et glandulosissimis; foliis anguste ellipticis vel lineari-oblongis vel oblanceolatis valde mucronatis dense viscido-pubescentibus aetate fere glabris 2–3 cm. longis in petiolis 5 mm. longis vel fere sessilibus; paniculis parvis 2–6-divisis minute glandulari-pubescentibus bracteis 2–4 mm. longis, pedicellis glabris 2–5 mm. longis; corolla rubente 4–5 mm. longa; fructibus globosis vel depresso-globosis 4–5 mm. latis glabris, nucleis interdum binis conjunctis.—Type *Peck 8974*, from the dry rocky summit of Bald Mountain, 5 mi. east of the mouth of Euchre Creek, Curry County, July 26, 1919.

This species is well marked by its densely branched habit and narrow, very viscid-pubescent leaves. It was found in abundance in the locality cited.

**Mertensia Cooperae**, sp. nov., caulibus congestis e caudice ramoso brevi crassoque erectis simplicibus 15–20 cm. altis sparse pubescentibus pilis brevibus basin versus inflexis; foliis infimis vix productis caulinis 8–12 stricte adscendentibus linearibus vel lineari-oblongis obtusis ad petiolos alatos gradatim angustatis cum petiolis 4–8 cm. longis vel supremis brevioribus et basi lata complectentibus, omnibus supra aspere adpressi-pubescentibus setis pustulatis infra sparsius pilosis vel glabris; inflorescentia densissima floribus multis pedicellis copiose adpressi-pubescentibus; calyce 4–5 mm. longa fere ad basin partita, lobis lanceolatis acutis plus minusve strigosis et conspicue cili-

osis; corolla 7–8 mm. longa tubo pallido minus bis quam limbo langiore coerulea vix aperta lobis brevibus rotundisque; staminibus paullo sub faucibus insertis vix inclusis filamentis antheras fere aequantibus et vix angustioribus; style 2–3 mm. exserta.—Type collected by *Mrs. R. D. Cooper* in damp ground along Silver Creek, Harney County, 6 mi. west of Riley, June 1922.

This species is readily distinguished by the very dense panicles of small flowers with strongly exerted styles.

***Cryptantha fragilis***, sp. nov., annua gracilis 3–4 dm. alta sparse ramosa per totam fere longitudinem caulis; ramis longis patentibus pallidis fragilibus sparse hirsutis setis tenuis patentibusque; foliis basin versus congestis linearibus 2–4 cm. longis tenuis hirsutis setis basi saepe pustulatis; spicis geminatis rare ternatis vel solitariis longe pedunculatis primo densis tardius elongatis floribus sessilibus et conspicue 2-seriatis; calyce fructuque prompte maturitate decadentibus; calycibus maturis 3–3.5 mm. longis lobis lanceolatis aliquid obtusis adpresso-hispidis dorso mediali apicibus conniventibus; tubo corollae quam calyce longiore limbo 3.5 mm. lato cristis glandulisque faucis flavulis; nuculis 1–2 late ovatis 2 mm. longis ventrale conspicue carinatis, sulco furcato basin versus sine areola plana, dorso convexulo marginibus rotundis, superficie minutissime muricata et sparse spinulosa; gynobasi circiter dimidio quam nuculo brevior; stylo paullo quam nuculis brevior.—Type collected by *Mrs. Lilla Leach* along the Rogue River 5 mi. below Almeda, Josephine County, June 11, 1928. *Peck 3995*, from 2 mi. east of the Douglas-Curry County line on the trail from West Fork to Marial is the same.

The species is related to *C. Hendersoni* (Nels.) Piper, but is seeming distinct.

***Pentstemon hesperius***, sp. nov., caule e rhizomate plerumque simplice, basi saepe persistente 6–12 dm. alta simplice vel basin versus divisa glabra ad basin vel sub petiolis in lineis puberula supra pubescentiore; jugis foliorum remotis internodis interdum 2 dm. longis; foliis omnibus integerrimis plerumque obtusis, inferioribus lanceolatis vel oblanceolatis gracili-petiolatis 4–7 cm. longis, superioribus lanceolatis supremis solum redactissimis; inflorescentia densa angustaque omnino conferta vel interrupta, fasciculis inferioribus interdum remotis, puberula aut fere glabra haud glandulare, bracteis superioribus angustis-

simis setaceis; lobis calycis variabilibus 4-9 mm. longis plerumque longoacuminatis marginibus scariis saepe erosis; corolla 12-15 mm. longa clare coerulea vel tubo infra albedo paullo gradatimque ad faucem dilatata non valde bilabiata, lobis brevi-oblongis patentibus labro inferiore intus conspicue flavo-barbato; loculis antherarum omnino dehiscentibus; filamento sterile stamina breviora aequanti flavo-barbato.—Type *Peck 16187*, collected at Gaston, Washington County, in a boggy meadow June 27, 1930, where it occurred plentifully.

A well marked species, taller than any other herbaceous form hitherto known from Oregon. Its discovery is the more interesting from the fact that *Pentstemons* are rare in north-western Oregon. The habitat is also remarkable.

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