

FABACEAE

8. Flowers mostly 4-7(10)mm long; leaflets usually glabrous on upper surface
10. Leaflets of lower leaves mostly broadly oblanceolate to obovate, mostly rounded to obtuse at tip; woods and slopes in mountains; NW,NWC,Cr,We,CW,F,Na,SW,SC var. **rubricaulis** (Greene) Welsh
10. Leaflets of lower leaves narrowly lanceolate or oblanceolate, mostly acute at tip; hills, woods, and slopes; NW,H,Wa,NEC,NE,CW,F,Na,Co,SW,SC,Pl,La var. **laxiflorus** (Dougl. ex Lindl.) Dorn
7. Banner greatly reflexed from wings to form a wide V opening of about 45 degrees or more; flowers 10-17mm long
11. Banner conspicuously bicolored, much darker toward the middle; leaflets usually all 4cm or less long; often sandy plains and hills; Ni,A,SE
L. plattensis Wats.
11. Banner not bicolored, or if so, then lighter toward middle; some leaflets usually 4cm or more long
L. polyphyllus Lindl.
12. Leaflets usually definitely hairy on upper surface; plains, hills, and slopes; NW,NWC,NEC,Ci,Cr,CW,F,Na,Co,SC,Pl
var. **humicola** (A. Nels.) Barneby
12. Leaflets glabrous or glabrate on upper surface; stream banks, woods, and meadows; T,Li,F,Cn
var. **prunophilus** (Jones) Phillips

Medicago Medicago

Annual or perennial; leaves trifoliolate; leaflets toothed above middle; flowers in racemes or heads.

1. Flowers less than 6mm long; annuals, somewhat shallow rooted
2. Pods prickly, several seeded; flowers mostly 4-5mm long; disturbed areas; A
M. polymorpha L.
2. Pods not prickly, 1 seeded; flowers 2-3mm long; moist disturbed areas; Pa,T,NWC,NEC,NE,C,S
M. lupulina L.
1. Flowers 6-10mm long; perennials, deep rooted; disturbed areas
M. sativa L.
3. Petals usually blue-purple, rarely pink or white; pods spirally coiled; leaflets sometimes over 2cm long; Pa,T,NWC,NEC,NE,C,S; Alfalfa var. **sativa**
3. Petals usually yellow, rarely violet; pods often not spirally coiled; leaflets mostly 0.5-2(2.7)cm long; Pa,Ci,We,Sr,SC,G
var. **falcata** (L.) Doell

Melilotus Sweet Clover

Annual or biennial; leaves trifoliolate; leaflets mostly toothed except at very base; flowers in axillary, spike-like, racemes; corolla white or yellow, 4-6mm long.

1. Corolla white; pods reticulate-veined; rangeland and disturbed areas; Pa,T,NWC,NEC,NE,C,S
M. albus Medic.
1. Corolla yellow; pods mostly obscurely cross-corrugated; rangeland and disturbed areas; Pa,T,NWC,NEC,NE,C,S
M. officinalis (L.) Pallas

Onobrychis Sainfoin

Perennial; leaflets 11-27, apiculate; petals pink to lavender with reddish-purple lines; solitary filament united to rest at middle; pod hairy and rugose, 1 seeded.

- O. viciifolia** Scop. Disturbed areas; Pa,T,Sh,We,CW,F,SC

Oxytropis Stemless Locoweed

Perennials, mostly acaulescent or nearly so; leaflets sometimes asymmetrical at base; keel beaked.

1. Stipules free or short-adnate to base of petiole for 1-4mm, the free portion usually longer; pods pendulous; often caulescent
2. Calyx 4-8mm long; stems mostly with soft, often spreading hairs
O. deflexa (Pallas) DC.

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3. Banner about 3 times as long as wide, pale blue or purplish at most; leaflets mostly 23-41; flowers 3-25; meadows, slopes, and stream banks; NW,H,CW,F,Na,SW,SC,La
var. **sericea** T. & G.
3. Banner about twice as long as wide, dark blue-purple; leaflets 9-29; flowers 2-10; mostly alpine or subalpine; Pa,T,CW
var. **foliolosa** (Hook.) Barneby
2. Calyx 2-4(5)mm long; stems glabrous or with stiff, appressed hairs; moist, usually alkaline areas; F,Na,Sr
O. riparia Litv.
1. Stipules adnate to base of petiole for half their length or more or for at least 4mm; pods usually erect to spreading; acaulescent or nearly so
4. Plants glandular especially on calyx lobes; plains, hills, and slopes; NW,CW,F,Na,Sr,A
O. borealis DC. var. **viscida** (Nutt.) Welsh
4. Plants not glandular
5. Racemes 1-3(4) flowered; petals blue, pink, rose, or purple
6. Plants mostly alpine or subalpine; flowers 7-17mm long
7. Banner 13-17mm long; pods stipitate; calyx 8-12mm long; Pa,H,Su,F
O. podocarpa Gray
7. Banner 10mm or less long; pods sessile; calyx 5-8mm long; Pa,T,CW
O. parryi Gray
6. Plants montane or lower; flowers 16-25mm long; rocky hills and slopes; F,Na,S
O. multiceps Nutt.
5. Racemes, or some of them, usually 5 or more flowered; petal color variable
8. Petals white, cream, or yellow
9. Leaflets mostly 7-11 per leaf; calyx somewhat turgid in flower (often 6mm or more wide), the hairs white; pod enclosed by calyx except for beaked tip; rocky or sandy hills; We,F,Na,Co,Sr,SC
O. nana Nutt.
9. Leaflets often over 11 per leaf; calyx often not turgid in flower (usually less than 6mm wide), the hairs sometimes black in part; pod not enclosed by calyx
10. Flowers 18-27mm long; keel 13-19mm long; leaflets mostly 11-19 per leaf; pod walls thick and fleshy or bony
O. sericea Nutt.
11. Corolla white, rarely ochroleucous, keel purple tipped; raceme usually elongate, at least in fruit; plains, hills, meadows, and slopes; Pa,NWC,NEC,NE,C,S
var. **sericea**
11. Corolla, including entire keel, ochroleucous or pale yellow; raceme often subcapitate; meadows and slopes in or near mountains; NW,B,NEC,CW,F,Na,SW,Cn
var. **speciosa** (T. & G.) Welsh
10. Flowers 12-20mm long; keel 9-15mm long; leaflets mostly 7-33 per leaf; pod walls somewhat membranous, thin
O. campestris (L.) DC.
12. Inflorescence usually capitate or subcapitate; leaflets mostly 7-17; rocky places, mostly alpine or subalpine; NW,B,Wa,NEC,CW,F,Cn
var. **cusickii** (Greenm.) Barneby
12. Inflorescence often elongating; leaflets mostly 17-33; woods, meadows, and slopes, mostly montane; Pa,T,B,NEC,NE,Su,F,Na,Co,SC
var. **spicata** Hook.
8. Petals blue, purple, pinkish, or reddish
13. Leaflets of many leaves fascicled, 2 or more attached at same point on each side of rachis; meadows, woods, and stream banks; Ni,SC,La
O. splendens Dougl. ex Hook.
13. Leaflets opposite or scattered
14. Hairs of leaflets in large part attached along body of hair, not at base, one free end sometimes rather short; plains, hills, and slopes; Sh,NE,CE,Sr,SC,SE
O. lambertii Pursh
14. Hairs of leaflets basally attached

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15. Calyx usually with a mixture of short blackish hairs and long white hairs; leaves 10cm or less long; leaflets mostly 2-12(15)mm long; peduncles 13cm or less long; bracts usually shaggy-pilose on back
O. lagopus Nutt.
16. Calyx becoming inflated early, enclosing the short pod, deciduous with pod before dehiscence; rocky slopes in or near mountains; NW,H,Su,F,Na,Cn
var. **lagopus**
16. Calyx little if at all inflated, ruptured by exerted pod, both persistent; hills and slopes; Pa,T,NWC,NEC,Cl,Su,F,Na,Co,Sr,SC,SE
var. **atropurpurea** (Rydb.) Barneby
15. Calyx usually with all white hairs; leaves often over 10cm long; leaflets often over 15mm long; peduncles often over 13cm long; bracts often appressed-pilose on back
17. Calyx somewhat turgid at flowering time (usually 6mm or more wide) and strongly inflated in fruit, enclosing the pod except for the beaked tip, calyx surface often concealed by hairs or nearly so at anthesis; calyx teeth mostly 2-3mm long, triangular; rocky or sandy hills; We,F,Na,Co,Sr,SC
O. nana Nutt.
17. Calyx not turgid at flowering time (usually less than 5mm wide), often ruptured in fruit, not enclosing the entire pod, calyx surface usually easily visible at anthesis; calyx teeth often over 3mm long, narrowly triangular to linear
O. besseyi (Rydb.) Blank.
18. Hairs of calyx mostly spreading or widely ascending, some usually about 2mm long
19. Racemes loose, 2-8cm long at full anthesis, on scapes (6)9-19cm long; leaflets mostly 9-21, somewhat scattered; rocky or sandy hills; Pa,T,NWC,NEC,NE,F,CE,G
var. **besseyi**
19. Racemes dense, subcapitate, 0.5-2(3)cm long, on scapes 2-9(13)cm long; leaflets 5-9(11), crowded; rocky or sandy hills; Pa,NWC,F,Na,Sr,Cn
var. **ventosa** (Greene) Barneby
18. Hairs of calyx mostly appressed or slightly ascending, often all 1.5mm or less long
20. Hairs of calyx usually dense, obscuring surface or nearly so; lowest flower usually surpassed by leaves; sandy or clay desert; F,SW
var. **obnapiformis** (Porter) Welsh
20. Hairs of calyx moderately covering the readily apparent surface; lowest flower often well above leaves; rocky, sandy, or clay slopes and hills; Pa,NWC,F,Na
var. **fallax** Barneby

Pediomelum Indian Breadroot

Perennials; leaves palmately compound; leaflets 3-5(7); corolla white, cream, blue, or purple; seed 1.

1. Roots thick and tuberous; flowers mostly over 1cm long; leaves usually not glandular-punctate
2. Stems and petioles with somewhat soft, long spreading hairs; plains and hills; NEC,NE,CE,A,SE
P. esculentum (Pursh) Rydb.
2. Stems and petioles with stiff, appressed or ascending hairs; plains and hills; J,Cl,We,Co,Pl,La
P. hypogaeum (Nutt. ex T.& G.) Rydb.
1. Roots generally not thick and tuberous; flowers mostly less than 1cm long; leaves usually glandular-punctate
3. Leaves and stems somewhat silvery hairy; plains and hills; NEC,NE,Ni,A,SE
P. argophyllum (Pursh) Grimes
3. Leaves and stems greenish, hairy but not silvery
4. Flowers overlapping in loose racemes, pedicels mostly 4-8mm long; rocky hills; La
P. linearifolium (T.& G.) Grimes

Variety is the only infraspecific rank included in accordance with Article 4 of the International Code. The rank of subspecies is reserved for groups of related varieties when relationships are being represented. Relationships are beyond the scope of this treatment. The appendix includes taxonomic notes as well as new combinations that were necessary for this treatment. Some synonymy can be found in the index, mostly for changes made in this edition.

Standardized abbreviations sometimes have a disadvantage in that they lose continuity with the older literature. Details on authors and references can be found in other places. Standardization tends to lose touch with history and introduces bureaucracy. Historical conventions are used herein for most author names.

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R. Dorn, September 2001

Key to County Distributions

A = Albany	F = Fremont	Na = Natrona	Su = Sublette
B = Big Horn	G = Goshen	Ni = Niobrara	T = Teton*
Cl = Campbell	H = Hot Springs	Pa = Park*	U = Uinta
Cn = Carbon	J = Johnson	Pl = Platte	Wa = Washakie
Co = Converse	La = Laramie	Sh = Sheridan	We = Weston
Cr = Crook	Li = Lincoln	Sr = Sweetwater	Y = Yellowstone Park

* excluding Y

NW = Yellowstone Park, Park, Teton
NWC = Big Horn, Hot Springs, Washakie
NEC = Sheridan, Johnson
NE = Campbell, Crook, Weston
N = NW, NWC, NEC, NE

CW = Lincoln, Sublette
F = Fremont
CE = Natrona, Converse, Niobrara
C = CW, F, CE

SW = Uinta, Sweetwater
SC = Carbon, Albany
SE = Platte, Goshen, Laramie
S = SW, SC, SE

Distributions are given like reading a page:
west to east across the north,
west to east across the central,
and west to east across the south
as in the sequence immediately to the left.