

oblong, dense, 1-2 inches long: bracts round-ovate or oval, fleshy-herbaceous and scarious-margined: sepals similar to the bracts but almost wholly scarious: flowers perfect: corolla-lobes oval: stamens 4, exserted: capsule ovoid-oblong, 3-4 lines long, 1-2-seeded: seeds narrowly oblong, flat or slightly concave on the face. Along the coast, Washington to Alaska.

*P. maritima* L. Sp. 114. Leaves linear, fleshy, glabrous, very obscurely nerved, 2-10 inches long, 2-4 lines wide, entire or remotely few-toothed, sessile or narrowed into short margined petioles: rootstock rather slender, branched, perennial: scapes as long or longer than the leaves, more or less pubescent: spikes dense, linear-cylindrical, blunt, 1-5 inches long: bracts ovate, acuminate, as long as the perfect flowers: sepals ovate-lanceolate to nearly orbicular, green, somewhat keeled: corolla pubescent outside, its lobes spreading: capsule ovoid-oblong, obtuse, 2-4-seeded, circumscissile at about the middle, nearly twice as long as the calyx: seeds nearly flat on the face. On rocky banks along the coast, California to Alaska.

*P. lanceolata* L. Sp. 113. More or less pubescent: rootstock short with tufts of brown hairs at the base of the leaves, perennial or biennial: leaves narrowly lanceolate, mostly erect, entire, acute or acuminate, gradually narrowed into petioles, 3-5-ribbed, 2-12 inches long, 3-12 lines wide: scapes slender, channelled, 6-30 inches high: spikes very dense, at first short and ovoid, becoming cylindrical, blunt,  $\frac{1}{2}$ -4 inches long in fruit: flowers perfect: sepals ovate, with a narrow green midrib and broad scarious margins, the 2 lower ones commonly united: corolla glabrous, its tube very short: stamens exserted: capsule oblong, very obtuse, 2-seeded, slightly longer than the calyx, circumscissile at about the middle: seeds deeply excavated on the face. Common in fields and waste places: introduced from Europe.

*P. Purshii* R. & S. Syst. iii, 120. *P. Patagonica* var. *gnaphalioides* Gray. White-woolly or silky pale green annual: leaves ascending, linear, acute or acuminate, narrowed into margined petioles, 1-3-nerved, 2-10 inches long, entire or with a few small teeth: scapes 2-15 inches high: spikes very dense, hoary, cylindrical, obtuse, 1-6 inches long, very woolly: bracts rigid, equalling or slightly longer than the perfect flowers, linear-subulate: sepals oblong, obtuse, scarious-margined: corolla-lobes broadly ovate, spreading: stamens 4, just exserted from the tube or with long capillary filaments: capsule oblong, obtuse: seeds 2, light brown, oblong, convex on the back, deeply concave on the face. On dry plains, Oregon to Brit. Columbia and Illinois.

*P. spinulosa* Decaisne in DC. Prodr. xiii, 713. *P. Patagonica* var. *spinulosa* Gray. A light to bright green glabrate to villous annual: leaves linear to linear-lanceolate, acuminate and involute at the apex callous-tipped, entire, narrowed to a margined sheathing petiole in which 3 ribs remain free, 3-6 inches long, 1-4 lines wide, 3-5 ribbed: scapes 2-8 inches high, pubescent: spikes cylindrical, 2-4 inches long, at length somewhat interrupted, pubescent: bracts rather rigid-herbaceous, 2 or more times as long as the perfect flowers, linear-subulate to aristate, acute: calyx-lobes pubescent, scarious, with light green midribs or the lower ones nearly herbaceous, spatulate-oblong, a line long: corolla-lobes strongly reflexed: stamens 4, and with the style just exserted from the tube or a little longer: capsule oval, circumscissile at the middle: seeds 2, dark brown, oblong, finely pitted. Oregon to lower California and east to Texas and Dakota.

*P. aristata* Michx. Fl. i, 95. *P. Patagonica* var. *aristata* Gray. A dark green villous to glabrate annual: leaves narrowly to broadly linear, acute or acuminate and callous-tipped, entire, narrowed below to margined petioles, 3-8 inches long, 1-3 lines wide, 3-5-nerved: scapes stout, 6-10 inches high, glabrous to pubescent: spikes in glabrate forms when young