ate-Flowers

A ligulate head consists entirely of a single flower type, which superficially resembles the ray floret on the radiate head of a compound member of the sunflower family. Tubular at the base and flattened out to look like the petals of an ordinary flower, it is actually a strap-like ligule. However, a ligule differs from a ray floret in that it is a perfect (bisexual) flower, and consists of all five lobes of the corolla manifested by five terminal "teeth" reminiscent of the tines on a spork (combination spoon/fork utensil).

ASTRACTIAN (Dandylions)

Kaibab Lake; Williams, AZ



LV Municipal GC; LV, NV



Las Vegas Municipal GC; LV, NV



LV Municipal GC; LV, NV



LV Municipal GC; LV, NV

Flowers: ligulate; bisexual, solitary; 1.5"; yellow; 40 - 100+ individual ligules

Stems: mostly glabrous, hollow; green to purplish; upright to spreading; milky sap; to ~15"

Leaves: lanceolate; toothed to deep lobed; mostly in basal rosettes; vivid green; 2 - 10"

Blooms: April through September; year-round in some areas

Range: originally native to Asia, now cosmopolitan in temperate regions

Habitat: disturbed areas, lawns, meadows, fields, etc.; Lower Sonoran to Transition Life Zones

Notes:

very common; herbaceous perennial; grows to ~15" in deserts, chaparral, pine woodlands, etc., throughout NA at elevations up to ~9,000'; fruit produced by apomixis (asexual reproduction without fertilization); glaucous (grayish green) calyculi (cuplike grouping of bracts) with ~18 segments forms an involucre that supports the flower head; greenish-brown to straw-colored cypsela fruit (single-seeded from double ovary); silver-white, silky, parachute-like pappus; found world-wide in temperate regions as a naturalized/invasive plant; aka Dandylion, Blowball, Faceclock; 2 subspecies; leaves, flowers and roots used in herbal medicine (poultice, pain relief, laxative, tonic, etc.) and as food; important food source for numerous insect species

Mojave presence: naturalized native



ASTRACTBATE (Dandylions)

Desert Dandylion



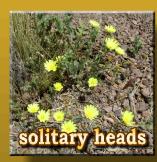
Xmas Tree Pass; Laughlin, NV



Boulder City, Nevada



Dolan Springs, Arizona



Red Spring; Red Rock NCA



Dante's View; DVNP

Flowers: ligulate; mostly solitary; young central heads reddish; ~2"; lt. yellow to yellow; 40+ 5-lobed rays

Stems: erect to spreading; green to purple; mostly glabrous; hollow; milky sap; 2 - 16" tall toothed to deep lobed; mostly basal rosettes, some linear to pinnate; alternate; green

Blooms: February to July Range: sw deserts of NA

Habitat: arid, sandy to gravelly soils; washes, slopes, roadsides, etc.; Lower to Upper Sonoran Life Zones

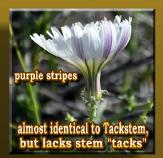
Notes:

very common; herbaceous annual; grows to 16" in creosote and saltbush scrub to pinyon-juniper woodlands in the Mojave and Sonoran Deserts up to an elevation of ~6,000'; .75" hairless phyllaries; small cypsela fruit (single-seeded from double ovary) with bristly pappus; similar to Common Dandylion, but paler yellow; used by the Navajo to induce vomiting

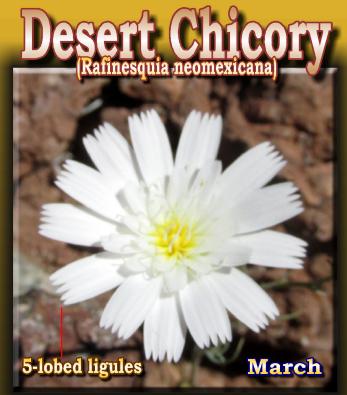
ASTRA(CHAIL) (Chicories)



Valley of Fire SP; Nevada



Willow Bch, AZ; LMNRA



Boulder City, Nevada



Dante's View; DVNP



Dante's View; DVNP

Flowers: ligulate; ~2"; white with yellow centers, purple stripes under ligules; solitary; 20+ ligules

Stems: erect, purplish, zig-zagged; glabrous (hairless); milky sap; usually grows through shrubs; to 24"

Leaves: pinnately lobed, toothed*; basal rosette, alternate elsewhere; glabrous; 1.5 - 4"

Blooms: February to June

Range: Mojave and Sonoran Desert, east to TX, south to n MEX

Habitat: dry, sandy, gravelly soils along washes, etc.; Lower Sonoran Life Zone

Notes:

common; herbaceous annual; weak stems grow 6 - 24" tall through shrubs (for support and protection from herbivores) in creosote bush scrub to Joshua woodlands from ~200 to 3,500' elevations; .5 - 1" phyllaries; cypsela with pappus of white to dark gray, plumose bristles; aka Plumbseed

(* distinguished from White Tackstem; both very similar and found growing together; see pg As L6)

Mojave presence: native; ephemeral



ASTRACTIAN (Gravel Ghost)



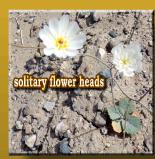
Salt Creek; DVNP



Salt Creek; DVNP



Badwater Road; Death Valley NP



Badwater Road; DVNP



Badwater Road; DVNP

Flowers: ligulate; ~1.5"; white with yellow to purple centers, sometimes purple tips; fragrant; 20+ ligules

Stems: erect; branched; glaucose; glabrous; 1 - 5'

Leaves: oblong; dentate; sessile; flat basal rosette; tiny scales on stems; green above, purple below; 1 - 4"

Blooms: February to May

Range: sw NA; Mojave and Sonoran Deserts

Habitat: dry desert slopes and mesas; Lower to Upper Sonoran Life Zones

Notes:

common locally; herbaceous winter annual; grows to 30+" mainly in the Mojave Desert (CA, NV, UT, AZ), but also the Sonoran Desert (AZ, nw MEX) in creosote bush scrub, desert valleys, and washes to 4,500' elevations; 2- to 4-layered phyllaries with club-shaped cypsela fruit and white pappus; monotypic (only 1 species); aka Parachute Plant, Tobacco Weed; very similar appearance to Desert Chicory, but not closely related other than being a member of the sunflower family; seeds are an important food source for birds and small mammals

ASTRACTIAN (Tackstems)

Willow Beach, AZ; LMNRA



Willow Beach, AZ; LMNRA



Willow Beach, AZ; Lake Mead NRA



Willow Beach, AZ; LMNRA



Willow Beach, AZ; LMNRA

Flowers: ligulate; ~2"; white with yellow centers; purple stripes below; 20+ ligules

Stems: low branching; glabrous, pale; tack-shaped glands; milky sap; ~12"

Leaves: narrow linear (filiform) and linear-lobed, mostly basal; alternate; 1.5 - 4"

Blooms: March to June

Range: Mojave and Sonoran deserts, east to TX, south to nw MEX

Habitat: dry gravelly slopes, washes, etc.; Lower to Upper Sonoran Life Zones



Willow Beach, AZ; LMNRA

Notes:

fairly common; herbaceous annual; grows to ~12" tall in creosote bush scrub and mesquite stands mainly in the eastern Mojave Desert (CA, NV, UT, AZ) and Sonoran Desert of nw MEX (Baja, Sonora) at elevations of 500 to 5,000'; 2 rows of green, membranous-edged phyllaries (outer row short, uneven; inner row long, linear); brown cypsela with bristly pappus; aka Desert Chickory (not same as Desert Chicory, Rafinesquia neomexicana)

(*distinguished from Rafinesquia neomexicana; see pg As L4)

ASTRACTOATS (Tackstems)

Yellow Tackstem (Calycoseris parryi)



Kingston Mountain; CA



Kingston Mountain; CA



Kingston Mountain Range; San Bernardino Co.; CA



Kingston Mountain; CA



Kingston Mountain; CA

Flowers: ligulate, solitary; ~1.5"; light yellow with darker yellow center; 20+ ligules

Stems: branched from base; dark red, tack-shaped glands; milky sap; glabrous; 12"

Leaves: linear; pinnately divided; alternate; sessile, mostly basal, and inconspicuous; 1 - 5"

Blooms: March to May (June in some areas)

Range: sw US; Mojave and Sonoran deserts, into Mexico (Sonora, Baja)

Habitat: limestone/sandy soils; dry slopes, washes, etc.; Lower to Upper Sonoran Life Zones

Notes:

fairly common; herbaceous annual; grows to ~12" tall in creosote bush scrub to pinyon-juniper woodlands mainly in the Mojave Desert (CA, NV, UT, AZ) and Sonoran Desert (se AZ, nw MEX) at elevations below 6,000'; numerous, membranous-edged phyllaries; beaked, red to purple cypsela with white, bristly pappus; often confused with Desert Dandylion (lacks tack-shaped stem glands); important to birds, small mammals, insects (butterflies, bees, etc.)



ASIRA(CHAR) (Wirelettuces)

Brownplume Wirelettuce



First Creek; RRCNCA; NV



Dolan Springs, Arizona



Dolan Springs, Arizona



First Creek; RRCNCA; NV



First Creek; RRCNCA; NV

Flowers: ligulate; solitary; ~ .75"; pale purple, white, pink; tubular with 3 - 7 five-lobed ligules

Stems: upright; one to five, intricately branched*; pale, wood-like caudex*; milky sap; 1 - 2'

Leaves: basal: sharply lobed; cauline: tiny, scale-like, clasping, entire; alternate; 1 - 3"

Blooms: May to August; to October under right conditions

Range: s CA east to TX, WY south to n MEX

Habitat: deserts, open/disturbed areas, washes, woodlands, etc.; Lower to Upper Sonoran Life Zones

Notes:

common; perennial herb; grows to ~2' in creosote bush scrub, Joshua and pinyon-juniper woodlands up to ~6,000' elevations in the Mojave and Sonoran deserts and elsewhere in the sw US and MEX; 5 glabrous phyllaries; 5-angled achenes with partly plumose, usually tawny* pappus; aka Desert Straw, Fewflower Wirelettuce, Prairie Skeletonplant; produces latex; closely related to chicories; very difficult to distinguish from other wirelettuces; favorite food of burros in e Mojave; important food, cover, and shelter source for small rodents, birds, insects; used by indigenous peoples for chewing gum (from latex), narcotic, childbirth aid, etc.

(* Slender-Leaf {Stephanomeria tenuifolia} is rhizomous; fully plumose white pappus)

(* Whiteplume {Stephanomeria exigua} is rhizomous; less branched, wiry appearance; tan to white pappus)



ASTRACTANT (Wirelettuces)

Whiteplume Wirelettuce



First Creek; RRCNCA



First Creek; RRCNCA



Red Rock Canyon National Conservation Area; NV



First Creek; RRCNCA



First Creek; RRCNCA

Flowers: ligulate; ~ .5"; pale purple, white, pink, rarely rose; tubular with 3 - 7 five-lobed ligules

Stems: upright or spreading; usually one branched stem arising from rhizome*; milky sap; 1 - 2'

Leaves: lower: pinnate, upper: tiny, bract-like, clasping, entire; alternate

Blooms: April to October

Range: sw US into nw MEX

Habitat: dry desert scrub, flat areas, hillsides, etc.; Lower Sonoran to Transition Life Zones

Notes:

common; herbaceous annual, rarely perennial; grows to 2' at elevations of ~2,000 - 8,000' in desert scrub to pine woodlands throughout w US from CA east to NM, and OR south to nw MEX (Baja, Sonora); .75" phyllaries with small bract-like leaves at base; cypsela fruit with tan or white, plumose* pappus; inconspicuous and spindly, usually growing within stout plants for support; 5 subspecies, including 1 in NY; aka Small Wirelettuce; attracts birds, small rodents, and insects (particularly pollinating bees); used by indigenous peoples as a diuretic and to treat measles

(*distinguished from Brownplume {Stephanomeria pauciflora} that has a woody base and partly plumose pappus)



ASTRACTAL (Wirelettuces)

Narrowleaf Wirelettuce



First Creek; RRCNCA



First Creek; RRCNCA



Red Rock Canyon National Conservation Area; NV



First Creek; RRCNCA



Flowers: ligulate; solitary; ~ .75"; pale purple, white, pink, lt blue; tubular with 3 - 7 five-lobed ligules

Stems: upright; rhizomous; divaricately branched, woody root crown*; glabrous; milky sap; 8 - 28"

Leaves: basal: linear to filiform, entire to toothed; cauline: bract-like, clasping, entire; alternate

Blooms: May to September

Range: w US into CAN and MEX

Habitat: rocky ridges, slopes, cliff bases, etc.; Lower Sonoran to Canadian Life Zones

Notes:

common; herbaceous perennial; most widespread of the genus Stephanomeria, growing to ~2' at elevations of 1,000 - 9,800' in desert scrub to pine woodlands throughout w US from w CA east to the Great Plains, and CAN (BC, Saskatchewan) south to n MEX (Baja, Sonora, Chihuahua); .75" phyllaries with small bract-like leaves at base; grooved, tan cypsela with up to 25 bright white, plumose pappi; aka Lesser Wirelettuce, Slender-Leaf Wirelettuce; difficult to distinguish from other wirelettuces, but very similar to Brownplume (Stephanomeria pauciflora); attracts birds, small rodents, and insects (particularly pollinating bees)

(* less woody than Brownplume)

