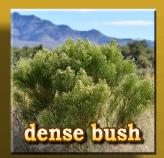
oecious,

Dioecious plants have male (staminate) and female (pistillate) flowers existing on separate and distinct individuals, thus the presence of a plant of the opposite sex is necessary for fertilization to occur. While this arrangement ensures genetic robustness of the species, there are disadvantages that the plants must overcome. First, since they cannot self fertilize, they must rely on out-sourced helpers (insects, birds, mammals, even wind) to get the job done, a risk that is intimately dependant on the well being of the pollinating species (many of which are plant specific) and their direction of foraging (male to female)! Secondly, only 50% of the individual plants (i.e. female) in the population contribute to seed production (unlike monoecious and bisexual plants). At least in this regard, a single male plant can fertilize many nearby female plants.



ASTRACTAL Baccharises)

Desert Baccharis



Corn Creek; Desert NWR; NV



Corn Creek; Desert NWR; NV



Corn Creek; Desert NWR; Clark County; NV



Corn Creek; Desert NWR; NV



Corn Creek; Desert NWR; NV

Flowers: discoid; sessile; open, short-branched panicle; ~.1" male (staminate): white to yellow, 24-33/head

female (carpellate): white, 15-30/head

Stems: erect; branched; smooth, glabrous, angular, nearly leafless; evergreen; resinous; 6'

Leaves: oval to spatulate*; entire to irregular toothed; alternate; sessile; cauline, deciduous; to 1.25"

Blooms: June to October

Range: native to sw US (CA, NV, UT, AZ), nw MEX (Sonora, Baja)

Habitat: moist areas in dry deserts (washes, canyons, streambeds, etc); Lower to Upper Sonoran Life Zones

Notes:

common; perennial; evergreen shrub with branched, fastigiate (curving upward) stems; grows to 10' tall, 6' wide at elevations of ~2,200 - 5,000' in desert scrub to pinyon-juniper woodlands throughout the sw US and nw Mex; flower heads enclosed in glandular, sticky layer of pinkish phyllaries about an inch long; glabrous, ribbed cypsela with bristly pappus .125 to .25"; aka Waterweed; dioecious, i.e. staminate (stamen; pollen-producing male structure) and carpellate (carpel; ovule-producing female structure) flowers occur on separate plants; host to numerous insects

(* wider than leaves on Broom Baccharis {Baccharis sarothroides})

Mojave presence: native; year-round



ASTRACTATION (Baccharises)

Broom Baccharis



Clark Co. Wetlands Park; LV, NV



Bear's Best GC; Las Vegas, NV



Bear's Best GC; Las Vegas, NV



Clark Co. Wetlands Park; LV, NV



Bear's Best GC; Las Vegas, NV

Flowers: discoid; dense panicles; .25 - .58" male (staminate): cream yellow, 24-33/head

female (carpellate): white, 15-30/head

Stems: erect; woody, branching; angular; glabrous, broom-like; almost leafless; resinous; 6' or more

Leaves: linear*, elliptical; entire; alternate; sparse, sessile, deciduous, resinous; to ~1"

Blooms: September to November Range: native to sw US, MEX

Habitat: descrt washes, fields, roadsides, urban areas, etc.; Lower to Upper Sonoran Life Zones

Notes:

common; perennial shrub; grows to 10' at elevations of ~1,000 to 6,000' from CA east to sw TX, and NV/UT south through most of MEX; outer phyllaries broadly ovate (~1"), inner ones linear (~.3"); white, 10-ribbed cypsela (.1") with long, feathery, white pappus (.5"); aka Greasewood, Groundsel, Desertbroom, Rosinbush, etc.; dioecious, i.e. male and female flowers occur on separate plants; provides abundant food for numerous insects that in turn provide food for birds and other predators; used by indigenous peoples as brooms, thatching for homes, and as an infusion to treat coughs and stomachaches

(* narrower than leaves on Desert Baccharis {Baccharis sergiloides}, otherwise difficult to distinguish)

Mojave presence: native; year-round



ASTRACTIAN (Baccharises)

Emory's Baccharis



Ash Meadows NWR; NV



Ash Meadows NWR; NV



Ash Meadows NWR; Amargosea Valley; Nye Co.; NV



Ash Meadows NWR; NV



Ash Meadows NWR; NV

Flowers: discoid; panicles of up to 200 heads; male (staminate): cream whte, 20-25/head; 0.2"

female (carpellate): cream whte, 25-30/head, 0.16"

Stems: erect; branched; angular (5 ridges); glabrous, woody; 3 - 9'

Leaves: linear (upper) to oblomg/oblanceolate; entire to toothed (1-3); alternate; stress-deciduous; 1-4"*

Blooms: May to November Range: sw US; n MEX

Habitat: sandy/gravelly soils; washes, moist canyons, etc.; Lower to Upper Sonoran Life Zones

Notes:

uncommon; perennial; upright evergreen shrub grows to 9' in creosote bush scrub to pinyon-juniper woodlands below 6,000' in sw US from CA east to TX, south to n MEX; gland-dotted, green to reddish phyllaries: (f) 0.36", 6-seriate, ovate (inner), linear (outer), (m) 0.24", 5-seriate; glabrous, 0.08" cypsela; silky white, 0.48" pappi; aka Seepwillow, Willow Baccharis (not related to true willows); dioecious, i.e. staminate (stamen; pollen-producing male structure) and carpellate (carpel; ovule-producing female structure) flowers occur on separate plants; used as a wildland hedge or screen, for making baskets, as a fuelwood, etc.

(* longer leaves than Baccharis sergiloides and Baccharis sarothroides, otherwise difficult to distinguish)

Mojave presence: native; year-round



ASIRA(CHAR) (Pussytoes)

Rosy Pussytoes



Valley of Fire SP; Clark Co.; NV



Valley of Fire SP; Clark Co.; NV





Valley of Fire SP; Clark Co.; NV



Valley of Fire SP; Clark Co.; NV

Flowers: staminate/pistillate; 1" clusters; tufts of white bristles lined with rose-pink bracts

Stems: rhizome; slender, whitish green, erect shoots; woolly; 2 - 12"

Leaves: oblanceolate; entire; basal: rosette, cauline: alternate; woolly, whitish green; to ~1.5"

Blooms: May to August

Range: NA through most of CAN and western US from Great Plains west to CA

Habitat: dry to wet, open areas, meadows, woodlands, etc.; Lower Sonoran to Transition Life Zones

Notes:

common; herbaceous perennial; widespread, morphologically diverse plant forming evergreen mats with stalks that grow to ~1.5'; native to NA throughout CAN and w US at low to high (9,000') elevations (sagebrush to pine woodlands); dioecious, i.e. staminate (male) and pistillate (female) flowers occur on separate plants; though fertile seeds can be produced by pollination from nearby male plants, most are apomitic (produced without sexual recombination), and colonies (mainly female) are usually clones of a single parent with individuals connected to each other by rhizomes; wide, pointy, usually rose-colored phyllaries (also white, yellow, brown); .08" (2mm) achene; .24" (6mm) pappus; cluster of flowers atop stalks give appearance of the toes of a kitten, thus the source of the plant's common name; 4 subspecies; hosts black, bristly caterpillars of the American Lady butterfly (Vanessa virginiensis)

Mojave presence: native; uncommon

