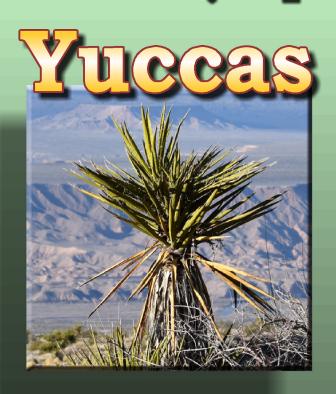
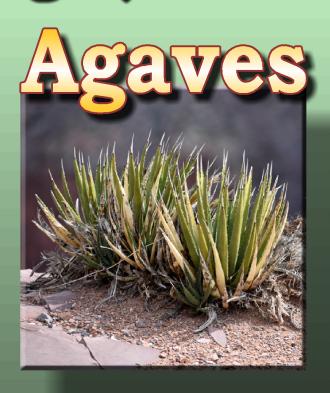
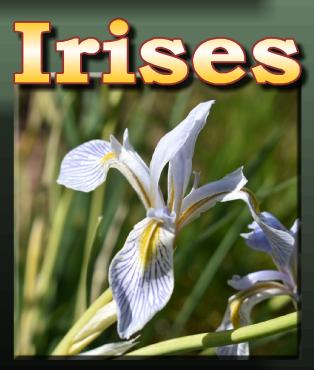
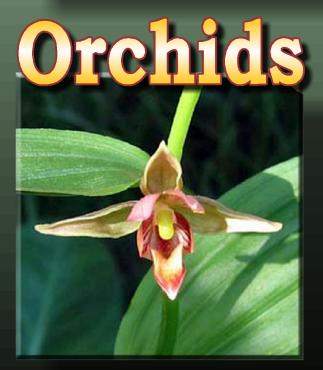
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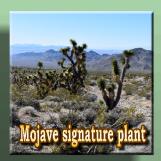




(14 Families Worldwide)

ASPARACIONE

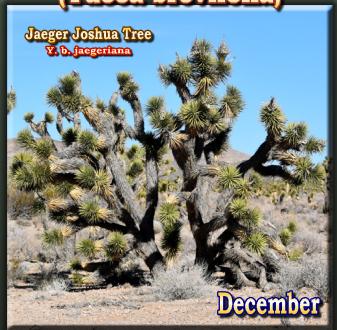
Joshua Tree Yucca brevifolia



S. Virgin Mtns; NV



Oak Creek; RRCNCA; NV



Red Rock Canyon NCA; Nevada



Red Rock Cyn NCA; NV



Clark Mtn Range: CA

Floyers: dense panicle infloresence, 10-20"; 6-parted, lanceolate to oblong fleshy tepals; cream; 1.5-3"

Stems: arborescent (tree-like); branched, fibrous (lacks annual growth rings); 20-50'

Leaves: linear; dentate; spiral at branch tips; rigid, fibrous, spined tip, rough back, blue green; 18"

Blooms: March to May (late winter to mid spring in CA); not every year (depending on winter freeze)

Range: southwestern US (Mojave Desert)

Habitat: gravelly/rocky soils in open flats, slopes, etc.; Lower to Upper Sonoran Life Zones

Notes:

common locally; evergreen perennial; grows to 50' (usually less) in the Mojave Desert (reportedly spreading to nw MEX) at elevations of 1,500-6,000'; deep, extensive root system; edible, 3-chambered, 2-4" capsule fruit; 2 subspecies; aka Yucca Palm, Tree Yucca; pollinated solely by the Joshua Tree Yucca Moth (Tegeticula synthetica); seeds and flower buds important food source, fibers used as cordage for basket weaving and sandles, and dye and soap made with chemicals (saponins) obtained from the roots; important host to the Desert Night Lizard (Xantusia vigilis)

Mojave presence: endemic Comments:

Formerly placed in the now-archaic family Agavaceae, the long-lived (over 700 years) Joshua Tree is the signature plant of the Mojave Desert. According to desert ecologist J.W. Cornett, less than one in a million seeds grow to adulthood! Despite its name, the Joshua Tree--often found growing with Saguaro cactus in transition zones between the Mojave and Sonoran Deserts--is not actually a true tree (I personally refer to the plant simply as a Joshua).

ASPARACIONES DATES

Jaeger's Joshua Tree



Cerbat Mtns; Mohave Co., AZ



Red Rock Cyn NCA; NV



Clark Mountain Range; San Bernardino Co.; CA



Red Rock Cyn NCA; NV



Red Rock Cyn NCA; NV

Flowers: dense panicle infloresence, 10-20"; 6-parted, lanceolate to oblong fleshy tepals; cream; 1.5-3"

Stems: short arborescent; branched (starting lower on trunk); fibrous; gray bark; 20'

Leaves: linear; dentate; spiral at branch tips; rigid, fibrous, spined tip, rough back, blue green; 18"

Blooms: March to May; not every year (depending on winter freeze)

Range: eastern Mojave Desert

Habitat: gravelly/rocky soils in open flats, slopes, etc.; Lower to Upper Sonoran Life Zones

Notes:

common locally; evergreen perennial; grows to 20' (occasionally taller) in the eastern Mojave Desert (se CA, se NV, sw UT, nw AZ) at elevations of 2,500-6,000'; edible, 3-chambered, 2-4" capsule fruit; aka Eastern Joshua Tree; drought resistant; seeds and flower buds important food source, fibers used as cordage for basket weaving and sandles, and dye and soap made with chemicals (saponins) obtained from the roots

Mojave presence: endemic; eastern region

Comments:

This subspecies is easily recognized by its more compact form due to lower branching on the trunk. This gives it a somewhat shrubby appearance compared to its western brethren (page 4). Though the Jaeger's prevalance in the eastern portion of the Mojave Desert is also characteristic, the western variety can be spotted growing amongst them, as the "tall genes" are occasionally manifested.

ASPARACIOAD (Excess)

Western Joshua Tree



Meadview, AZ





Meadview, AZ

Joshua Forest; Meadview, AZ

Flowers: dense panicle infloresence, 10-20"; 6-parted, lanceolate to oblong fleshy tepals; cream; 1.5-3"

Stems: tall arborescent (tree-like); branched higher on trunk; fibrous; gray bark; to 50'

Leaves: linear; dentate; spiral at branch tips; rigid, fibrous, spined tip, rough back, blue green; 18"

Blooms: February to May; not every year (depending on winter freeze)

Range: western Mojave Desert

Habitat: gravelly/rocky soils in open flats, slopes, etc.; Lower to Upper Sonoran Life Zones



Range Map

Notes:

common locally; evergreen perennial; grows to 50' (usually less) in the western Mojave Desert (s CA) at elevations of 1,500-6,000'; edible, 3-chambered, 2-4"capsule fruit; seeds and flower buds important food source, fibers used as cordage for basket weaving and sandles, and dye and soap made with chemicals (saponins) from the roots

Mojave presence: endemic; western region

Comments:

This subspecies is recognized by its tall, open form, unbranched until higher up the trunk. This gives it a more arborescent appearance than its smaller eastern brethren (page 3). Though the western variety can occasionally be seen mingling with its Jaeger cousin to the east, its primary residence is in the western Mojave Desert in California.





Dolan Springs; Arizona



South Virgin Mountains; Mesquite; NV



Christmas Tree Pass; NV



Clark Mtn Range: CA

dense, bulbous infloresence; bell shaped, 6 incurved segments, fleshy, waxy; cream; 1-2" Flowers:

Stems: trunk: solitary/branched, fibrous; 3-15'; flower stalk (scape): erect, branched, leafless; 2-4' Leaves: convex linear; filiferous curls; spiral; rigid, fibrous, spine tip, rough back, yellow green; 1-5'

Blooms: April to May

southwestern US, northwestern MEX Range:

dry, rocky soils; open flats, bajadas, etc.; Lower to Upper Sonoran Life Zones Habitat:

Notes:

common; rhizomatous, evergreen perennial; grows to 15' in creosote scrub to pinyon-juniper woodlands of the Mojave, Sonoran, and Chihuahuan deserts of the sw US and nw MEX at elevations of 1,000-5,000'; edible, fibrous, 2-5" capsule berry fruit; aka Spanish Dagger; important food source for moth larvae (in return, adult moths pollinate the plant); many important uses by indigenous people: 1) fibers used for cordage, cloth, sandle making, etc., 2) flowers and fruit eaten raw or cooked, seeds ground into flour, 3) used medicinally to treat headaches, bleeding, arthritis, etc., 4) chemicals in roots used to make soap; contemporaneously used as a deodorizer, dog food additive

Mojave presence: native

Comments:

More common and widespread than most other yuccas, it is readily recognized by its tuft of rigid leaves atop a dead-leaf-covered pedestal, unlike the closely related Banana Yucca (Yucca baccata) that lacks such a trunk.

BEWARE: spines on leaf tips are dangerously sharp!

ASPARACIONE

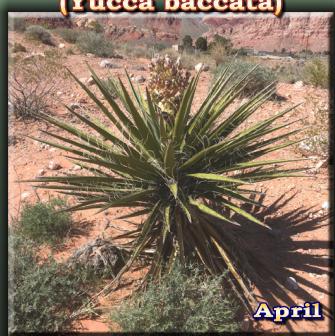
Banana Yucca (Yucca baccata)



RR Escarpment; RRNCA; NV



Potosi Mtn; southern NV



Calico Basin; Red Rock Canyon NCA; NV



First Creek; RRNCA; NV



Potosi Mtn; southern NV

Flowers: short, crect panicle, 20-30"; monecious, 5-parted, drooping; cream tinged with purple; 2-5"

Stems: nearly trunkless to stacks of short ascending stems; solitary to colonial; 4'

Leaves: convex linear; filiferous curls; rosette; rigid, fibrous, rough back, spine tip; blue green; 18-30"

Blooms: April to July

Range: southwestern US, northwestern MEX

Habitat: dry, sandy to gravelly soils; open flats, slopes, mesas, etc.; Lower to Upper Sonoran Life Zones

Notes:

common; evergreen perennial; grows to 30" (usually much less) in the sw US from CA east to w TX, south into nw MEX in desert scrub to pinyon-juniper communities at elevations of 1,000-7,500'; edible, succulent, roughly banana-shaped, 7" fruit bearing wingless, black, .25" seeds; 3 subspecies; aka Broadleaf Yucca, Spanish Bayonet*, Blue Yucca, Datil; closely related to Mojave Yucca; traditionally important food and materials source for southwestern American native peoples; host to several skipper and moth species

(*not to be confused with Hesperoyucca whipplei and others)

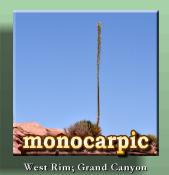
Mojave presence: native

Comments:

CAUTION: leaves can be dangerous daggers to unwary hikers! More than once I learned this the hard way, and it's much more painful--and bloodier--than a flu shot! PS: though the fruit is technically edible, that doesn't mean it tastes good! I've tried baking, barbequing, frying (almost everything tastes good fried!), etc. Nope!

ASPARACIOAD (Agaves)

Utah Agaves (Agave utahensis)







Cerbat Mtns; Arizona

Hualapai Reservation; West Rim; Grand Canyon

Flowers: branched, spicate, raceme infloresence; bulbous, waxy; light yellow; 1.5" (2-12 per cluster)

Stems: trunkless; short central stem; solitary/cespitose; single, yellowish, monocarpic* flower stalk; 6-15'

Leaves: linear; marginal spines*; basal rosette; rigid, concave tips, spiny tip; yellow green; 20", 2+" wide

Blooms: April to August (depending on subspecies)

Range: southwestern US (Mojave Desert)

Habitat: mainly limestone ridges, slopes, canyons, etc.; Lower to Upper Sonoran Life Zones

Notes:

common locally; succulent, evergreen perennial; grows up to 2' (15' including flower stalk) in desert scrublands to pinyon-juniper woodlands of the Mojave Desert at elevations of 2,500-6,000'; generally grows at higher elevations than yuccas; most cold-tolerant of all agaves; 1" capsule fruit bearing black seeds; 4 subspecies; aka Century Plant; used traditionally by native peoples as a source of food, and fibers utilized for cordage, making blankets, etc.

(*marginal spines characteristic of all agaves; *monocarpic, i.e. blooms once, then the plant dies)

Mojave presence: native

Comments:

The aged stems make for supurb walking sticks; they're super lightweight, yet exceptionally strong, and best of all, absolutely free! Find one that is no longer green, cut it to about shoulder high in length, and wrap duct tape around the bottom and top for grip and to resist splintering. When it wears out, just go get another one. I've had several that lasted for years before needing replacement.

ASPARACIOAD (Agaves)

Utan Agave utahensis utahensis



Cerbat Mtns; Arizona



Cerbat Mtns; Arizona



Cerbat Mountains; Dolan Springs, AZ



West Rim; Grand Canyon



West Rim; Grand Canyon

Flowers: narrow, raceme inflorescence; spicate arrangement; bulbous, waxy; pale yellow; 1.5"

Stems: trunkless; short central stem; cespitose; single, yellowish, monocarpic flower stalk (scape); 6-12'

Leayes: linear; .1" marginal spines, 3" apical spines; basal rosette; rigid, concave tips; blue green; 18"

Blooms: April to July (depending on elevation)

Range: eastern Mojave Desert (Lake Mead area, southern Spring Mountains, swUT, nw AZ)

Habitat: rocky; canyons, slopes, etc.; Upper Sonoran Life Zone

Notes:

uncommon; succulent multiannual; grows to abour 1.5' (12' including flower stalk) in the mid-elevations of eastern Mojave Desert mountains and the Colorado Plateau Province from 4.000-6.000'; 1" oblong capsule fruit bearing black seeds; one of the lesser-common subspecies; lives for 7-10 years before blooming and dying; aka Utah Century Plant; hearts traditionally roasted in what has become known as "agave roasting pits"

Mojave presence: native

Comments:

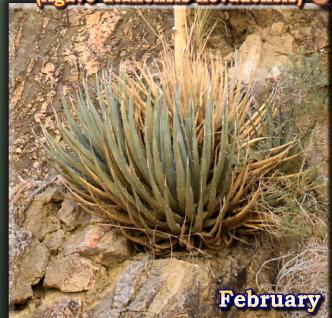
This and the other subspecies were called "century plants," because it was once thought that it took a century before the plants would bloom (actually about 5 years). A. u. utahensis is differentiated from other subspecies by 1) smallest marginal and apical spines, 2) gray to brown apical spines, 3) location, and 4) from A. u. kaibabensis by smaller rosette and narrower leaves (about 1"). CAUTION: dangerously sharp apical spines



Clark Mountain Utah Agave



S. Virgin Mtns; NV



seed pods

S. Virgin Mtns: NV



Clark Mtn Range; CA

S. Virgin Mountains; Clark County; NV

Flowers: raceme infloresence; spicate arrangement; bulbous, waxy; lt. yellow; 1.5"

Stems: very short; solitary to colonial; single, fibrous, yellowish, monocarpic flower stalk (scape); 5-13'

Leaves: linear; .25" marginal spines, 3" apical spines; basal rosette; rigid, concave tips; blue green; 12"

Blooms: April to July

Range: eastern Mojave Desert (San Bernardino Co., CA, to Clark Co., NV)

Habitat: rocky; canyons, slopes, etc.; Upper Sonoran Life Zone

Notes:

common; succulent multiannual; grows to abour 2' (13' including flower stalk) in the mid-elevations of eastern Mojave Desert mountains from 4,000-6,000'; dry, 1" oblong capsule fruit bearing black seeds; most common subspecies; aka Century Plant, Pygmy Agave

Mojave presence: native

Comments:

A. u. nevadensis is differentiated from other subspecies by 1) .25" long marginal teeth (curved or straight), 2) brown to white apical spines that grow up to 3" long, and 3) location. CAUTION: dangerously sharp apical spines



ASPARACIOAD (Agaves)

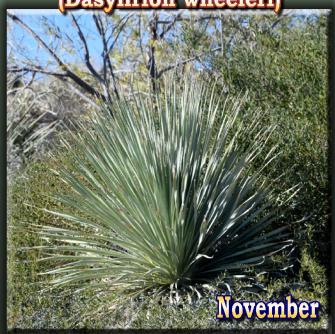
Desert Spoon (Dasylirion wheeleri)



Coyote Springs; Clark Co., NV



Coyote Springs; Clark Co., NV



Coyote Springs; Clark Co., NV



Coyote Springs; Clark Co., NV



Coyote Springs; Clark Co., NV

Flowers: dense inflorescence; monecious (separate sex plants); 6 tepals; M: white to cream, F: pinkish; 1"

Stems: trunk: branchless, subterranean caudex, 5'; flower stalk (scape): 16'

Leaves: narrow linear; curved marginal spines; basal rosette; flexible; brown, fibrous tip; L: 40' W: .5"

Blooms: May to August

Range: southwestern US south to northern MEX

Habitat: arid, rocky; desert scrub, flats, slopes, etc.; Upper Sonoran Life Zone

Notes:

rare (common locally); rounded, evergreen perennial; grows to 5' (16' including scape) in sw US from AZ east to w TX, south into n MEX at elevations of 4,000-6,000'; dry, 3-wing, .3" capsule with solitary seed; aka Common Sotol; inner cores (hearts) fermented to produce sotol, an alcoholic drink similar to tequila and mescal (mezcal); used by native peoples for food, fiber for basket making and bedding, etc.

Mojave presence: native; extreme eastern

Comments:

Desert Spoon is not native to NV, but is a hardy plant that finds great success in landscape applications. This explains the specimen pictured above growing at the Coyote Springs Golf Course off of US 93 about 40 miles northwest of Las Vegas.



ASPARACIOAD (NO MARCINA)

Beargrass Nolina Nolina microcarpa



Big Wash Rd; Mohave Co.; AZ



Big Wash Rd; Mohave Co.; AZ



Big Wash Road; Cerbat Mountains; Mohave Co.;



Big Wash Rd; Mohave Co.; AZ



Big Wash Rd; Mohave Co.; AZ

Flowers: dense clusters on paniculate inflorescence; dioecious (bisexual plants); tiny yellow-white tepals

Stems: trunkless; stemless; scape (flower stalk) to 6'; rounded grouping of leaves up to 5' tall and wide

Leaves: narrow linear, fibrous; serrulate; basal rosette; grass-like appearance; L: 3-4' W: to .5"

Blooms: May to June (sometimes later depending on elevation and precipitation)

Range: southwestern US, northern MEX

Habitat: rocky; slopes, chaparral, woodlands, etc; Lower Sonoran to Transition Life Zones

Notes:

uncommon (except locally); perennial shrub; grows to 6' (including flower stalk) in desert grasslands to pinyon-juniper woodlands of the eastern Mojave Desert (nw AZ, sw UT) east to NM and south into n MEX at elevations of 2,500-7,000'; grows from a woody, underground caudex (rootstock); 3-sided, papery, .4" capsule fruit; aka Sacahuista, Palmilla; grazed on by deer; used by native peoples for cordage, thatching, food, making soap, treatment for various ailments (e.g. rheumatism), and more.

Mojave presence: native; far eastern region

Comments:

These are not common plants, unless you find yourself during the spring bloom in the Cerbat Mountains north of Chloride, Arizona. Here you will find the slopes adorned in multitudes of conspicuous specimens that are easily identified when they show off their tall scapes clustered with small flowers waving in the breeze.

ASPARACIONES EN ASPARACIONALES EN ASPARACIONALES

Patry's Nolina Parry



Kingston Mtn Range; CA



Kingston Mtn Range; CA



Kingston Mountain Range; San Bernardino Co.; CA



Kingston Mtn Range; CA



Kingston Mtn Range; CA

Flowers: large, dense clusters on 10' stalk with massive 2-4'-wide inflorescence; 6 parted; cream; .25"

Stems: 1.5' thick trunk; branched; fibrous; 15'

Leaves: linear; dentate; dense rosettes of up to 200 leaves; erect, gray green; L: 2-5' W: 1.5"

Blooms: April to June

Range: s CA (Laguna Mountains, Kingston Range, Kern Plateau; Joshua Tree NP; Colorado Desert)

Habitat: well-drained granitic soils; foothills, bajadas, etc.; Lower to Upper Sonoran Life Zones

Notes:

uncommon to rare; evergreen perennial; grows to ~15' in Joshua and pinyon-juniper woodlands within limited areas of the Mojave and Sonoran deserts at elevations of 3,500-7,000'; highly variable in appearance from tall in some areas (e.g. Kingston Range) to short in others; 3-compartmented, 5" capsule fruit; aka Giant Nolina, Parry's Beargrass; pollinated by moths of the Mesepiola genus (related to yucca moths), various bee species, etc.

Mojave presence: native

Comments:

To say this plant is impressive is like saying Mt Everest is tall! It certainly dominates its neighborhood, towering above all visitors (center photo), and making an indelible first impression!



TRIDACES)

Blue-Eved Grass (Sisyrinchium demissum)



Red Spring RRCNCA; NV



Red Spring RRCNCA; NV



Kingston Mountain Range; San Bernardino Co.; CA



Red Spring RRCNCA; NV



Red Spring RRCNCA; NV

Flowers: solitary; 6 sharp-pointed tepals, dark purple veins; yellow throat;; blue, violet, white (rare); 1"

Stems: erect; branched inflorescence arises from a bulb; L: 20" W: .25"

Leaves: narrow linear; entire; basal; grass like; 12"

Blooms: April to June

Range: western TX to NV

Habitat: alkaline moist meadows, springs, streams, etc; Upper Sonoran to Transition Life Zones

Notes:

rare; herbaceous perennial; not a true grass; grows to 1.5' in higher-elevation riparian environments (e.g. alpine meadows, springs) at 3,000-7,500'; can propagate by seeds or division of rhizome; aka Dwarf Blue-Eyed Grass, Blue Star Grass; infusion made from roots and leaves used to treat indigestion; considered to be threatened

Mojave presence: native

Comments:

Though relatively rare and of conservation concern, this species of blue-eyed grass can be common locally, such as in the spring-fed meadow at Red Spring in the Calico Basin section of Red Rock Canyon National Conservation Area.



TRIDACIDAD (LESS)

Western Blue Flag



Kaibab Lake; Williams, AZ



Kaibab Lake; Williams, AZ



Kaibab Lake; Williams, AZ



Kaibab Lake; Williams, AZ



Kaibab Lake; Williams, AZ

Flowers: inflorescence of 1-4 flowers (3 spread sepals, 3 erect petals, purple veins); lilac, blue, violet; 3"

Stems: erect, reed-like; rhizomatous; leafless, unbranched scape; solitary to dense clumps; green; 1-2'

Leaves: linear; entire; basal; stiff, light green with whitish base; L: 1-2' W: .5"

Blooms: May to July Range: western NA

Habitat: wetlands, alpine meadows, seeps, open woodlands, etc.; Lower Sonoran to Transition Life Zones

Notes:

common; drought-resistant, herbaceous perennial; grows to 2' in western NA from Pacific Coast east to the Great Plains, and s British Columbia, CAN, south to n MEX at elevations of 2,500-10,000'; pods produce numerous small, indented, whitish seeds; several years before flowers and bulbs develop; aka Rocky Moutain Iris, Missouri Flag; 3 subspecies; only iris species west of the Sierra Nevada range; source of fiber for cordage, and chemicals in roots once used by some native peoples to treat toothache

Mojave presence: native; high elevations

Comments:

While common as a species in western North America, it is rather uncommon in the Mojave region. Though drought tolerant, this iris is not a desert plant, so don't look for it in the arid lowers elevations. It only grows in riparian areas (springs, streams, ponds, etc.) in the higher montane habitats. The specimens shown here made their home along Kaibab Lake on the Coconino Plateau south of the

TRIDACIDAD (LES CONTROLLES CONTRO

Yellow Hag Iris pseudacorus)



Cornerstone Pk; Hend., NV



Cornerstone Pk; Hend., NV



Cornerstone Park; Henderson, NV



Cornerstone Pk; Hend., NV



Cornerstone Pk; Hend., NV

Flowers: panicle; 1-3 per stem; 3 drooped sepals, 3 erect petals; yellow with brown-striped throat; 4"

Stems: erect, reed-like; rhizomatous (submerged); glabrous, unbranched scape; dense stands; green; to 5'

Leaves: linear; entire; basal, whorled; green to blue-green with pale base; L: 3' W: 1-3"

Blooms: January to July

Range: Europe, western Asia, northwestern Africa; invasive elsewhere

Habitat: riparian margins (wetlands, ponds, marshes, etc.); Lower Sonoran Life Zone

Notes:

common; aquatic, herbaceous perennial; native to Europe, w Asia, nw Africa where it grows to 5' in riparian habitats at elevations up to ~3,500'; dry, 1.5-3" 3-sided capsule fruit producing many light-brown seeds; escaped cultivation in US and elsewhere to become an invasive/naturalized species; adaptable and aggressive, spreading by rhizomes or seeds; aka Yellow Iris, Water Flag; somewhat toxic to wildlife; used in herbal medicine, as a decorative plant in garden ponds, and to absorb dissolved heavy metals

Mojave presence: invasive/naturalized

Comments:

This iris is cultivated in North America as an ornamental, but as with many other non-native plants, often escapes into the wild where it outcompetes native species. Fortunately, it seems to be restricted in the Mojave to urban wet environments, such as small community lakes and ponds. An example is Cornerstone Park in Henderson, NV, where I encountered the specimens above in April of 2021.

The park is the only place I have seen it so far!