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Flora of the southeastern United States; being descriptions of the seed-plants, ferns and fern-allies growing naturally in North Carolina, South Carolina, Georgia, Florida, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, and in Oklahom by John Kunkel Small.

New York, The author, 1913.

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| <p>Fruits globose-obovoid.
Fruits club-shaped.
Spines brown, blackish or white.
Spines several, white, spirally twisted.
Spines 1 or 2, brownish black, straight.
Spines none or imperfectly developed: corolla salmon-red.
Joints readily separating when shocked: flowers small.
Joints ovoid to obovoid: spines pale.
Joints oblong to linear-oblong: spines dark brown at the tip.
Fruits dry.
Joints terete, slender.</p> | <p>9. <i>O. Lindheimeri</i>.
10. <i>O. leptocarpa</i>.
11. <i>O. tortispina</i>.
12. <i>O. fusco-atra</i>.
13. <i>O. inermis</i>.
14. <i>O. Pes-Corvi</i>.
15. <i>O. Tracyi</i>.
16. <i>O. polyacantha</i>.
17. <i>O. leptocaulis</i>.</p> |
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1. *Opuntia Opuntia* (L.) Coulter. Stems prostrate from fibrous roots, the joints orbicular to obovate, pale or light green, 5–10 cm. long, bearing thick leaves 4–5 mm. long: bristle-cushions rather remote, usually unarmed: bristles few, yellowish green: spines few, when present solitary, less than 2.5 cm. long, variegated: flowers pale yellow, 5–6 cm. broad: fruits obovoid or clavate-obovoid, 2–3 cm. long: seeds 4 mm. wide or less, thick-margined. [*O. vulgaris* Mill.]

In sand or sandy soil, or on rocks, Massachusetts to Florida and Alabama. Spring to fall.

2. *Opuntia Pollárdi* Britton & Rose. Stems prostrate, similar to those of *O. Opuntia* in habit, the joints obovate, about 10 cm. long: bristle-cushion remote, the lower ones of each joint unarmed: spines solitary in the bristle-cushion toward the top of each joint, 2.5–4 cm. long: fruits short-obovoid, about 2.5 cm. long: seeds 5 mm. wide or more.

Near Biloxi, Mississippi.

3. *Opuntia humifusa* Raf. Stems prostrate, from fibrous roots, diffusely spreading, the joints obovate to suborbicular, 7.5–12 cm. long, deep green, with subulate leaves often 6–8 mm. long: bristle-cushions remote, with reddish brown bristles, usually unarmed, or spines few, straight, whitish or often reddish at the base and apex, terete, mostly marginal, 1.5–2.5 cm. long, straight: flowers sulphur-yellow and often reddish in the center, 6–8.5 cm. broad: fruits club-shaped, 3.5 cm. long, barely $\frac{1}{2}$ as thick with an edible purplish acid or sweetish pulp: seeds 5 mm. broad, flattened, acutish margined. [*O. Rafinesquei* Engelm.]

In sandy or rocky soil, Minnesota to Missouri, Kentucky and Texas.

4. *Opuntia Roseana* Mackensen. Stems erect or ascending, from terete, more or less tuberous roots, the joints thick, obovate to orbicular, 4–13 cm. long, with leaves 4–7 mm. long; bristle-cushions remote, the bristles pale yellow or whitish: spines on the upper part of each joint, or wanting, slender twisted, solitary or 2 or 3 together, the upper ones erect or spreading, the lower one usually deflexed: flowers pale yellow, except the claret-colored center, about 6 cm. broad: fruits obovoid-oblong or elliptic-oblong, pink or rose-purple, 3.5–4.5 cm. long: seeds 2.5 mm. thick.

In dry soil, southern Texas.

5. *Opuntia macrorhiza* Engelm. Stems prostrate or ascending from fusiform or thick-tuberous roots, the joints narrowly obovate or oblong-obovate, bright green, 5–8 cm. long, with small leaves about 10 mm. long: bristle-cushions remote, near the base or margins of the joints, the bristles yellowish brown: spines scattered over the joints or chiefly near the top, solitary or 2–3 together, white or variegated, slender, spreading or deflexed: flowers pale yellow, red at the base, 5–7.5 cm. broad: fruits obovoid, green or pale purple, 3.5 cm. long: seeds 5 mm. thick, acute-margined.

In sterile soil, Kansas to Arkansas, Texas and Arizona.

6. *Opuntia austrina* Small. Stems more or less spreading, shrubby at the base, from tuberous roots, the joints broadly obovate or orbicular-obovate, deep green, 5–11 cm. long, or rarely somewhat longer, with early deciduous leaves mostly less than 10 mm. long: bristle-cushions chiefly near the margins of the joints, the bristles sordid or tawny: spines above the middle of the joints and near the edge, usually 2 together but one of them very small or deciduous, whitish or pinkish and reddish near the base and apex, twisted: flowers bright yellow, 6–7 cm. broad: petals cuneate, truncate or retuse at the slightly eroded top, and mucronate: fruits 2.5–3 cm. long.

In coral sand, southern peninsular Florida and the Keys.

7. *Opuntia grandiflora* Engelm. Stems ascending, branching, the joints suborbicular to obovate, 12–15 cm. long, bright green: bristle-cushions remote, the bristles slender: spines sometimes wanting or obsolete: flowers yellow except the red center, 11–12.5 cm. broad: fruits narrowly club-shaped, 6 cm. long: seeds 5–6 mm. broad.

In sandy soil, along the Brazos River, Texas.