Lyis: Maclura pomifera (Osage Orange / Hedge Apple)

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1 Introduction to Maclura pomifera (Osage Orange / Hedge Apple)

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1.1 Description of the Plant

Maclura pomifera is a thorn-armed, decid-Nuclear pointer is a morn-armed, decar-nous tree native to the south-central United States. On favourable soils it reaches 8–15 m in height with a broad, rounded crown and milky sap. Simple, glossy leaves (5–12 cm) turn clear yellow in autumn. The species is dioecious: male and female flowers occur on separate trees in late spring. Fe-male trees bear grapefruit-sized, knobbly drupes (8-15 cm Ø) that mature green-yel-low in early autumn—often called "hedge ap-ples."

1.2 Historical and Cultural Context

1 Highly valued by the Osage Nation for superior how-making wood, the tree was dubbed 1 "Bols d'Arc" (bow-wood) by French explorers. In the 19 century it gained fame as the 1 "Osage living fence"—thousands of kilometres were planted at 30 cm spacing to form impenetrable, thorny hedgerows across the American Midwest before barbed wire ex-2 isted. Its rot-resistant timber later became the gold-standard for fence posts and tool 2 handles.

2 1.3 Edible, Medicinal, and Useful Properties

Edible? The fruit pulp is largely inedible 3 to humans; latex may irritate sensitive skin. Squirrels relish the seeds which are edible,

3 but pulp is fibrous and toxic.

Medicinal & Traditional Uses Folk practice boiled chips for a mild yellow dye and insect-repelling wash. Modern lab work notes anti-fungal isoflavones in the wood.

- Timber Janka hardness 5 700 N, among North America's toughest; heartwood bright golden-orange, weathering to brown; unsurpassed for ground-contact posts (50 + year service life).
- Fuelwood $32 \,\mathrm{MJ} \,\mathrm{kg}^{-1}$ (similar to coal), burns hot with little ash—excel-lent for efficient stoves.

- Hedge/Shelterbelt Fast juve-nile growth, dense thorny branches, wind-breaks, wildlife cover.
- Pollinator support Nectar and pollen for early summer insects. Fruit provides late-season wildlife forage.

2 Polination

Osage Orange (Mactura pomirera, seed-grown) Planting & Use Guide					
Trees Planted	Chance of at Laut 1 Female	Chance of Fruit (If mixed one)	Years to First Frui		
	-50%	X (Artyrone (Freds)	8-10 years		
2	-29%	A Prooble (F 194 x 197)	6-10 pears		
)	-80%	Maderator	6-19 years.		
4	-94%	Caod	8-12 years.		

3 Planting Outdoors

 Site Selection — Full sun; toler-ates a wide pH (5.5–8.0) and soils from sand to clay if drainage is fair. Hardy to -35 °C (USDA zone 4).

- Timber orchard: 4 m \times 4 m.
- Living hedge: 0.3-0.5 m between whips in a single row.
- Soil Preparation Loosen top 30 cm; incorporate 5 cm compost for establishment—tree is nitrogen-effi-cient and drought-tough once rooted.
- 4. Pollination Plant at least one male for every 8-10 female trees within 30 m if fruit is desired (e.g. wildlife mast or seed production).
- 5. Companion Planting Good along field margins with black locust, mul-berry, or serviceberry; avoid shading delicate understory crops due to dense canopy.

4 Ongoing Plant Care

- 1. Watering 10 L weekly during first summer; after year 2 survives long droughts unaided.

3. Pruning / Training

- Timber form: Single central leader; remove lower limbs gradnally.
- \bullet Hedge: Top at 30–40 cm during vear 1: thereafter clip annually to force dense branching.
- 4. **Pest & Disease** Remarkably resistant; minor webworm or scale rarely warrants action.

5 Harvesting and Usage

- Fruit Collect October-November for decorative use or seed extraction; wear gloves (latex). Compost pulp or leave for wildlife.
- Timber Fell in winter when sap is low; air-dry under cover (12–24 months / 25 mm thickness) to minimise checking.
- Dye wood chips Simmer 100 g chips L⁻¹ water 1 h; strain and use hot with alum-mordanted fabrics for fast vellow dve.

Propagation

- Seed Extract seeds, cold-stratify 60 days at 4 °C; sow 1 cm deep, ger-mination 70 – 80 %.
- Cuttings Semi-hardwood cuttings in midsummer under mist; rooting 6–8 weeks with 2 000 ppm IBA.
- Grafting Rarely needed; scion on seedling rootstock for named thorn-less male clones.

7 Caution & Myths

Though sometimes claimed to repel spiders summer; after year 2 survives long droughts unaided.

2. Mulching — 6 cm wood chips suppress weeds and speed root establishment.

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8 Summary

Tough, adaptable, and multi-purpose, Os-age Orange excels as a living fence, high-BTU firewood, and source of legendary

bow-wood—all while shrugging off pests and drought. Plant it where thorns and vigorous