Introduction
This cultivar of Honeylocust is smaller than others, growing to 35 feet with a flat-topped, vase-shaped canopy. Branches emerge fairly low on the trunk and some training would be needed to force branches to clear tall vehicles along streets. The species has undesirable thorns on the trunk and main branches and large seed pods but this cultivar is thornless and usually fruitless. The tree is strong-wooded and casts light shade. Lawns grow fairly well beneath the tree and there is little to rake up in the fall since the tiny leaflets filter in between the blades of grass or are washed away in the rain. Honeylocust has a yellow or golden fall color in the northern part of its range. Trees often defoliate early in the south and are bare by October.

General Information
Scientific name: *Gleditsia triacanthos var. inermis*

Pronunciation: gleh-DIT-see-uh try-uh-KANTH-oase variety ih-NER-miss

Common name(s): ‘Imperial’ Thornless Honeylocust

Family: *Leguminosae*

USDA hardiness zones: 4A through 8A (Fig. 2)

Origin: native to North America

Invasive potential: little invasive potential

Uses: street without sidewalk; shade; specimen; parking lot island 100-200 sq ft; parking lot island > 200 sq ft; sidewalk

Figure 1. Young *Gleditsia triacanthos var. inermis* ‘Imperial’: ‘Imperial’ Thornless Honeylocust

Credits: Ed Gilman

Figure 2. Range

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cutout (tree pit); tree lawn 4-6 feet wide; tree lawn > 6 ft wide; urban tolerant; highway median; reclamation
Availability: not native to North America

Description
Height: 30 to 35 feet
Spread: 30 to 35 feet
Crown uniformity: symmetrical
Crown shape: vase
Crown density: moderate
Growth rate: fast
Texture: fine

Foliage
Leaf arrangement: alternate (Fig. 3)
Leaf type: bipinnately compound, odd-pinnately compound
Leaf margin: crenate
Leaf shape: oblong, lanceolate
Leaf venation: pinnate
Leaf type and persistence: deciduous
Leaf blade length: less than 2 inches
Leaf color: green
Fall color: yellow, copper
Fall characteristic: showy

Trunk and Branches
Trunk/bark/branches: branches don’t droop; showy; typically one trunk; thorns
Pruning requirement: needed for strong structure
Breakage: resistant
Current year twig color: brown
Current year twig thickness: thin
Wood specific gravity: unknown

Culture
Light requirement: full sun, partial sun or partial shade
Soil tolerances: sand; loam; clay; acidic; alkaline; well-drained; occasionally wet
Drought tolerance: high
Aerosol salt tolerance: high

Other
Roots: can form large surface roots
Winter interest: yes
Outstanding tree: no
Ozone sensitivity: unknown
Verticillium wilt susceptibility: resistant
Pest resistance: resistant to pests/diseases

Use and Management
The tree has no particular soil preferences and is useful in dry or alkaline areas, although its native habitat is along stream banks. It tolerates compacted, poorly aerated soil and flooding for a period of time and does well in confined soil spaces. Honeylocust adapts well as a city street tree and is tolerant to small planting pits in concrete. It is susceptible to breakage in ice storms.

Unfortunately, it has been overplanted in some areas and insect problems are beginning to catch up with Honeylocust, including the cultivars. Recommend planting only small numbers of this tree to avoid catastrophe if insects or diseases invade. It might be best to plant Pistacia, Zelkova, Taxodium, Quercus or some other proven urban tough tree in place of Honeylocust to avoid potential insect, disease and early defoliation problems.

Most garden centers will have at least one cultivar of Honeylocust in stock. Some of the cultivars may develop thorns and/or seed pods when they get older and they may be best suited for areas north of USDA hardness zone 8b. The cultivars are: ‘Cottage Green’ - semi upright, seedless, thornless; ‘Majestic’ - upright, seedless, thornless; ‘Maxwell’ - upright, seedless, thornless; ‘Moraine’ - spreading, usually seedless, thornless; ‘Rubylace’ - new reddish foliage,
seedless, thornless, color not outstanding, may need staking when young; ‘Shademaster’ - upright, spreading, usually seedless and thornless until 10 to 15-years-old when some seeds do develop - perhaps the best cultivar; ‘Skyline’ - pyramidal, generally seedless, thornless; ‘Sunburst’ - new yellow foliage, seedless, thornless, favored by plant bugs and leafhoppers.

**Pests**

Mimosa webworm has become a serious pest on Honeylocust in some communities.

Boring insects may be largely prevented by keeping trees healthy with regular fertilization. They usually attack trees under stress from other problems.

The combination of plant bug and leafhopper feeding causes the leaves to drop. Plant bugs may be more common on the yellow leaved cultivar ‘Sunburst’ than on green leaved types. Both insects are green so they will be hard to detect.

Pod gall midge causes unusual reddish galls at the tips of the branches. Leaflets become pod-like. The galls appear in late spring and may be most common on thornless, seedless cultivars. These have become quite a problem in many areas. Control is difficult.

Spider mites cause an autumn-like yellowing of the leaves. Diagnosis of this problem is difficult due to the small size of the insect and leaflets. Look for the mites and their webbing near the midrib at the base of the leaflets.

Leafminers and bagworm can also be a problem.

**Diseases**

Canker causing fungi or bacteria attack branches and trunks causing dieback of parts or the entire tree. Keep the trees healthy and avoid unnecessary wounding. Infected areas have discolored bark, peeling bark, discolored sapwood, or a crack between the diseased and healthy bark. The ronectria canker is especially damaging.

Leaf spot may be a problem. Rake up and dispose of infected leaves.

Powdery mildew may cause a white coating on the leaves but is seldom serious.