

# Austin's Invasive Species Management Plan

## Top 24 Priority Invasive Species - 2013

- Herbaceous
  - **Giant reed**
  - King Ranch Bluestem
  - Malta star-thistle
  - Bermudagrass
  - Japanese netvein hollyfern
  - Golden bamboo
  - Bastard cabbage
  - Johnsongrass
- Vines
  - Japanese honeysuckle
  - Catclawvine
  - **Kudzu**
- Woody
  - Tree of heaven
  - Paper mulberry
  - Chinese parasol tree
  - Glossy privet
  - **Chinaberry tree**
  - Heavenly (sacred) bamboo
  - Chinese pistache
  - Scarlet firethorn
  - **Salt cedar**
  - **Chinese tallow tree**
- Aquatic
  - Elephant ears
  - **Common water hyacinth\***
  - **Hydrilla\***

TDA Noxious Plant List (§19.300) species

\*TPWD Invasive, Prohibited and Exotic Aquatic Plants List



# Giant reed

## *Arundo donax* [ARDO]



- Perennial grass
- Grows up to 20 feet (6 m)
- Alternate, hairless, droopy leaves
- Spreads by tuberous rhizomes
- Blooms in August to September
- Seeds are not viable



# KING RANCH BLUESTEM

## *Bothriochloa ischaemum* var. *songarica*

[BOISS]

- Perennial grass
- Grows 11-24 inches (30-60 cm)
- Cespitose grass
- Rounded sheaths and flat blades
- Drought resistant
- No tolerance of flooding



Malvastraceae

# *Cenaurea melitensis*

## [CEME2]

- Winter annual
- Grows up to 3.3 feet (1 m) tall
- Spiny head
- Yellow flowers
- Alternate stem leaves
- Stems are stiff and openly branched
- Spine at the bottom of lowest branch



# Bermudagrass

## *Cynodon dactylon* [CYDA]

- Perennial grass
- Grows up to 16 inches (.4 m) tall
- Durable turf material
- Vigorous creeping ability
- Occasional toxicity
- Numerous cultivars



JAPANESE BELLEFERN HOLLYHORN

# *Cyrtomium falcatum*

[CYFA2]



- Evergreen in frost-free areas
- High heat tolerance
- Low water requirement
- Reproduces by spores



# Golden bamboo

## *Phyllostachys aurea* [PHAU8]



- Perennial infestation
- Grows up to 40 feet (12 m) tall
- Named for its yellow green stems
- Fan cluster shaped leaves
- May flower only once in 7-12 yr period



# Annual bastard cabbage

## *Rapistrum rugosum* [RARU]



- Annual herb
- Grows up to 5 feet (1.5 m) tall
- Large taproot
- Small showy yellow flowers
- Unusual fruit, silique
- Two segmented seed capsule



# Johnsongrass

## *Sorghum halepense* [SOHA]



- Perennial grass
- Grows up to 6.5 feet (2 m) tall
- 1 of 10 most noxious weeds
- Reddish to purplish-black panicles
- Folded leaves at base
- Rhizomes distinguish it from corn



# Top 24 Priority Invasive Species

## Vines

COMMON NAME	SCIENTIFIC NAME	USDA Code
Japanese honeysuckle	<i>Lonicera japonica</i>	ARDO
Catclawvine	<i>Macfadyena unguis-cati</i>	BOISS
Kudzu	<i>Pueraria montana var. lobata</i>	CEME2

# Japanese honeysuckle

## *Lyonicera japonica* [LYJA]



L. Piper

- Perennial vine
- Grows up to 80 feet (24 m) long
- Sweetly scented yellow tubular flowers
- Oval, opposite leaves
- Small, black fruits



B. Evans



M.

Calceolaria

# *Macfadyena unguis-cati*

## [MAUN3]

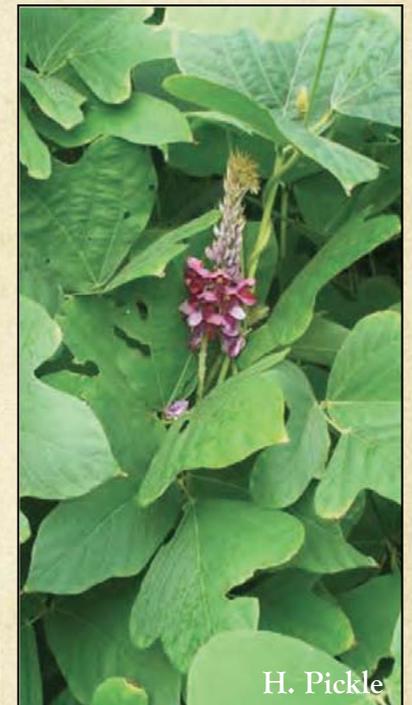


- Climbing, woody vine
- Stems to 6 cm in diameter
- Opposite, compound leaves
- 3-forked tendrils, hooked & “clawlike”
- Showy, tubular flowers
- Flowers are yellow & trumpet shaped
- Fruit is linear, flat capsule

# Kudzu

## *Pueraria montana var. lobata* [PUMOL]

- Deciduous twining rope vine
- Grows up to 100 feet (30 m) long
- Alternate and compound leaves
- Fragrant purple flowers
- Grape like fragrance
- Leguminous pod fruits in fall



# Tree of heaven

## *Ailanthus altissima* [AIAL]

- Deciduous tree
- Grows up to 80 feet (24 m) +
- Large compound leaves, 1-4 feet long
- 11-25 alternate leaflets
- Glandular teeth near leaflet base
- Small yellow-green flowers in spring
- Numerous papery samaras
- Gray bark and smooth stems



Paper mulberry

# *Broussonetia papyrifera*

## [BRPA4]

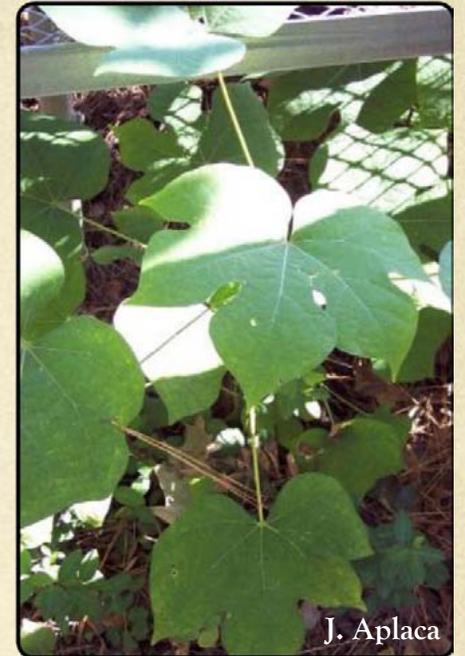
- Deciduous large shrub or tree
- Grows up to 50 feet (15 m) tall
- Rough and fuzzy leaves, velvety underneath
- Fruit and seeds from July to August



# Chinese parasoltree

## *Firmiana simplex* [FISI2]

- Deciduous tree
- Grows up to 50 feet tall
- Large 5-lobed leaves ( up to 12 inches across)
- Darker green leaves with lighter green palmate veins
- Flowers from May to July
- Fruit from June to April



# Glossy privet

## *Ligustrum lucidum* [LILU2]



C.  
Phillip

- Evergreen shrub
- Grows up to 15 feet (4.6 m) tall
- Opposite, leathery leaves
- Tiny white flower plumes
- Dark blue-black berries in fall



G. Hindss



J. Wallace

# Chinaberry tree

## *Melia azadirach* [MEAZ]



- Deciduous tree
- Grows up to 50 feet tall
- Up to 2 feet in diameter
- Lacy, dark-green leaves, musky odor
- Lavender flower clusters
- Flowers are fragrant
- Poisonous yellow berries

# Heavenly (sacred) bamboo

## *Nandina domestica* [NADO]



- Evergreen shrub
- Grows up to 8 feet (2.5 m) tall
- Bipinnately compound leaves
- Pink to white or cream flowers
- Bright red berries
- Bright yellow wood
- Resembles bamboo

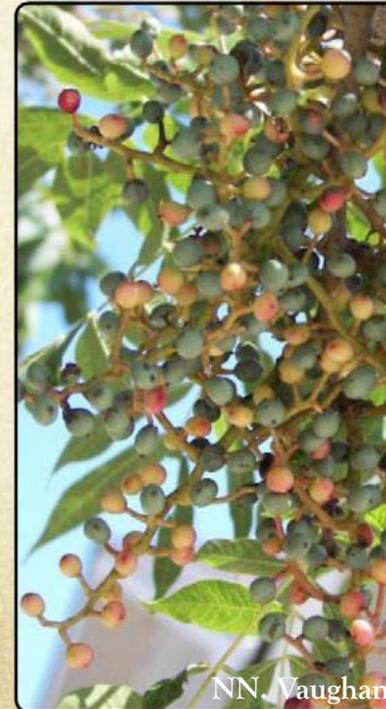


# Chinese pistache

## *Pistacia chinensis* [PICH4]



- Deciduous tree
- Grows up to 40 feet (12 m) tall
- 10 paired leaflets
- Heat and drought tolerant
- Red seed pods attract birds



# Scarlet firethorn

## *Pyracantha coccinea* [PYCO2]

- Evergreen shrub
- Grows up to 10 feet (6 m) tall
- Dark glossy leaves & sharp thorns
- Tolerant of dry, alkaline soils
- Bright colored yellow to red berries in fall
- White spring flower clusters, 2 inches long



# Salt cedar

## *Tamarix ramosissima* [TARA]



- Deciduous shrub or small tree
- Grows up to 20 feet (6 m) tall
- Alternate scale-like leaves
- Pale pink to white flowers
- Flowers small spike-like racemes
- Fruit is a capsule



# Chinese tallow tree

## *Triadica sebifera* [TRSE6]

- Deciduous tree
- Grows up to 60 feet (18 m) tall
- Alternating nearly heart-shaped leaves
- Leaves have orange to red fall color change
- Flowers are 8 inch dangling spikes with yellow-green sepals & no petals
- Fruits are 3-lobed clusters that split to form “popcorn-like” seeds



# Elephant ear

## *Colocasia esculenta* [COES]

- Perennial 4 feet (1.5 m) tall
- Dark green to purple ornamental leaves
- Leaves shaped like fat arrowhead or elephant's ear
- Tiny flowers on fleshy stalk



# Common water hyacinth

## *Eichhornia crassipes* [EICR]



- Floating aquatic
- Grows up to 3 feet (1 m) tall
- Dark and feathery roots
- Bulbous spongy leafstalk (petiole)
- Thick shiny bright green leaves, 1-6 inches wide
- Flowers grow in groups of 8-15 forming up to a 16 inch spike
- 6-petaled flowers are lavender with a central yellow oval-shaped spot

# Hydrilla

## *Hydrilla verticillata* [HYVE3]

- Submerged aquatic
- Tiny reddish brown flowers
- Toothed leaf margins & reddish veins
- Stems root as deep as 40 ft.
- Tip resembles bottlebrush

