

UniMAP

is expanding its
greenery with
more plants across campus.



Through **SDG 6.3.5**
Water-conscious Planting,

UniMAP uses drought-tolerant and native species, early morning watering, mulching, and drip irrigation — keeping the campus vibrant while saving water.

LANDSCAPE PROJECT/ EVENT	TOTAL AMOUNT OF PLANTS
Existing plants / before 2024	6175 nos
Students Event with Pejabat Hutan	34 nos
COSCEM Event with Pejabat Hutan	
Harum Manis by INSAT/Agroteknolgi Lestari	163 nos
Pusat Kesihatan Universiti	385 nos
Dewan Besar Tuanku Canselor	409 nos
Total Plantation in UniMAP	7166 nos



UniMAP's Student Event with Pejabat Hutan



COSCEM UniMAP Event with Pejabat Hutan



Harum Manis by INSAT/Agroteknolgi Lestari



Pusat Kesihatan Universiti



Dewan Besar Tuanku Canselor

6.3.5 Water-conscious planting - UniMAP is making great strides in sustainable landscaping by incorporating drought-tolerant plants. Using species like *Hamelia patens* (Fire bush), *Pachystachys lutea* (Golden shrimp), *Lantana camara* (Bunga Tahi Ayam), *Leucophyllum frutescens* (Texas sage) and *Heptapleurum* (Schefflera) is an excellent choice for conserving water while still maintaining aesthetic appeal.



Watering in the early morning is indeed a best practice for gardeners. This timing **minimizes evaporation losses** due to cooler temperatures and lower wind speeds, allowing plants to **absorb more water effectively**. Additionally, watering in the morning helps prevent fungal diseases that can occur when plants remain wet overnight.

Hamelia patens Jacq.

Family Name: Rubiaceae

Synonyms: *Hamelia erecta*

Common Name: Fire Bush, Scarlet Bush, Coloradillo, Hummingbird bush, Firecracker Bush, 长隔木, 希茉莉



Full Sun



Semi Shade



Little Water



Bird-
Attracting
Plant



Butterfly-
Attracting
Plant



Ornamental
Flowers



Drought
Tolerant



Shrub



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Lantana camara 'Hybrida'

Family Name: Verbenaceae



Full Sun



Moderate
Water



Butterfly-
Attracting
Plant



Butterfly
Host Plant



Coastal
Plant



Indoor Plant



Fragrant
Plant



Ornamental
Flowers



Drought
Tolerant



Shrub



Lantana camara L.

Family Name: Verbenaceae

Synonyms: *Caryopteris hispida*, *Lantana aculeata*

Common Name: Lantana, Common Lantana, Shrub Verbena, Spanish Flag, Tick Berry,

Name: Bunga Tahi Ayam, Bunga Pagar, 五色梅, 马缨丹



Full Sun



Semi Shade



Little Water



Moderate Water



Bee-Attracting Plant



Bird-Attracting Plant



Butterfly-Attracting Plant



Butterfly Host Plant



Coastal Plant



Fragrant Plant



Ornamental Flowers



Drought Tolerant



Shrub



Heptapleurum arboricola Hayata

Family Name:	Araliaceae
Synonyms:	<i>Schefflera arboricola</i> (Hayata) Merr.
Common Name:	Dwarf Umbrella-Tree, Umbrella Shrub, Star Leaf, Hawaiian Elf
Name:	Schefflera, Hawaiian Elf

The Dwarf Umbrella-Tree (*Heptapleurum arboricola*) has attractive, glossy palmate leaves comprising 7 to 9 oval leaflets arranged in a whorl, resembling the spokes of an umbrella. In its native range of Hainan and Taiwan, this evergreen shrub is found growing along stream banks, wet forests and sometimes epiphytic on trees. It is commonly planted in Singapore as a hedge and screening plant and does best in semi-shade on well-drained, moist soil.



Full Sun



Semi Shade



Moderate
Water



Ornamental
Leaves



Drought
Tolerant



Shrub



Pachystachys lutea

Family Name: Acanthaceae

Common Name: Lollypops, Golden Candles, Golden Shrimp Plant, Lollipop Plant, Yellow Shrimp Plant



Full Sun



Moderate
Water



Ornamental
Flowers



Shrub



6.3.5 Water-conscious planting – *Leucophyllum frutescens* (Texas sage)

Leucophyllum frutescens

Family

Scrophulariaceae

Name:

Synonyms:

Leucophyllum frutescens f. *albiflorum*, *Leucophyllum frutescens* f. *albineum*, *Leucophyllum texanum*, *Terania frutescens*

Common Name:

Barometer Bush, Ash Plant, Cenizo, Texas Ranger, Texas Silver Leaf, Purple Sage

Leucophyllum frutescens is an ornamental compact shrub with silver grey leaves and purple tubular flowers. Flowering is triggered when there is significant high humidity especially after rain, hence the common name, Barometer Bush.



Full Sun



Little Water



Moderate Water



Bee-Attracting Plant



Bird-Attracting Plant



Coastal Plant



Fragrant Plant



Ornamental Flowers



Ornamental Leaves



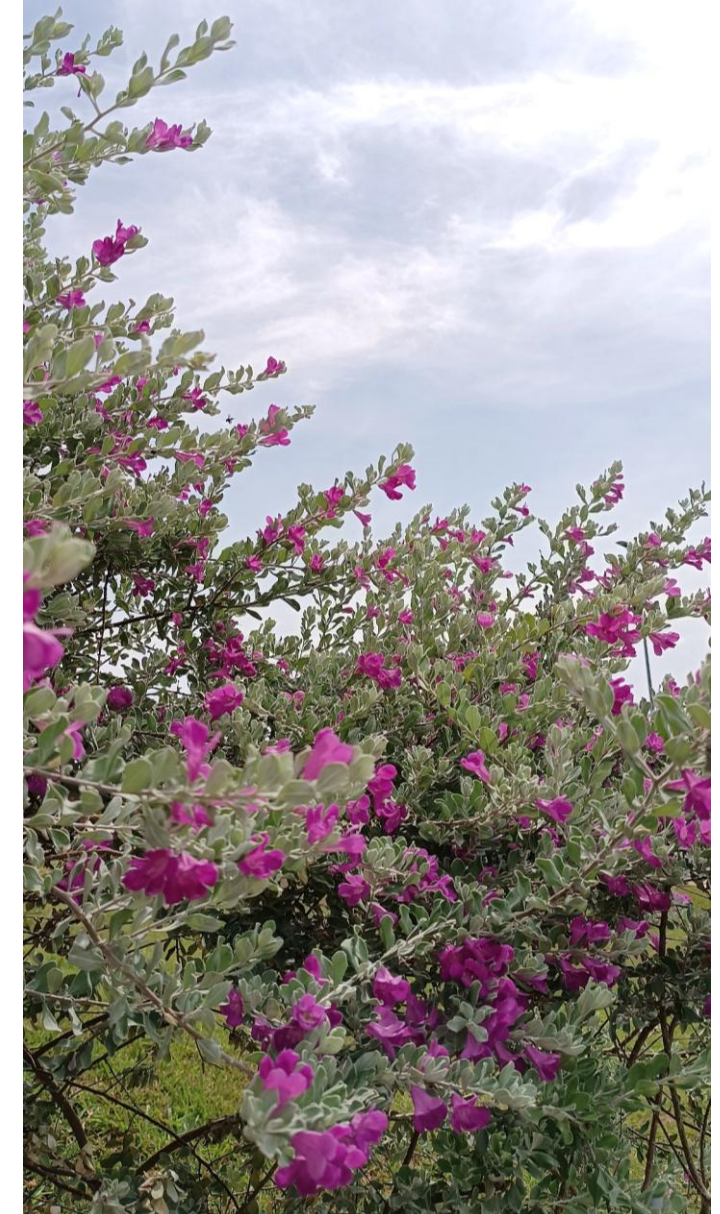
Drought Tolerant



Shrub



6.3.5 Water-conscious planting – Texas sage species in UniMAP.



Texas sage species is suitable for UniMAP environment which is hot and dry.

6.3.5 Water-conscious planting – *Samanea Saman* (Rain Tree) is one of the species planted in UniMAP that are matured enough which can rely on rainwater itself.



6.3.5 Water-conscious planting – *Axonopus compressus* (Cow Grass) is the grass species planted in UniMAP needs daily frequent watering in the first phase of planting only.



6.3.5 Water-conscious planting – UniMAP also implementing **mulch around the plants to retain soil moisture**, using **drip irrigation systems** for targeted watering, and **incorporating native plants** that are well-adapted to the local climate to further enhance the sustainability of these landscape projects. These practices can help ensure that the landscape remains vibrant and healthy while minimizing water usage.



Example of mulching in UniMAP using cocopeat/cocofiber/crushed coconut.



Drip irrigation system is implemented for Harum Manis plantation(native plant) in UniMAP.