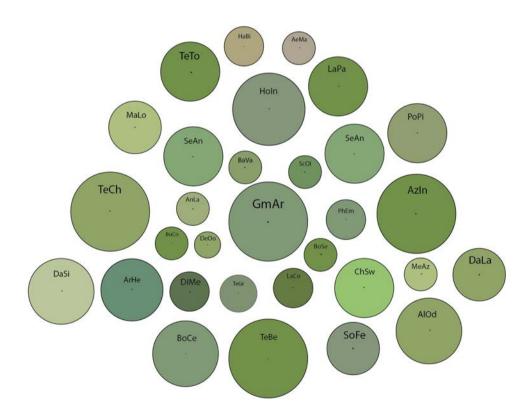
CHIRP



Upland Ecosystem Restoration

All Titles link to the plant database polyculture page

This polyculture contains plants with a variety of ecological functions aimed at restoring the different Upland ecosystems. Alter the layout of the plants to fit the needs of each microclimate.





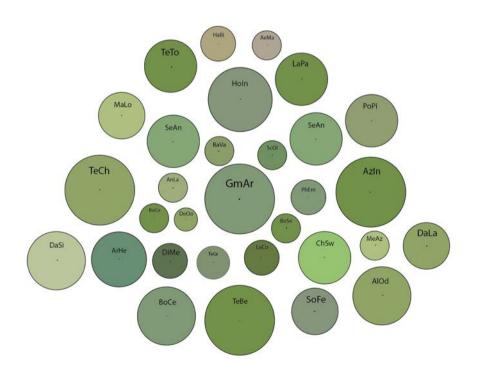
Human Uses

- Aromatics/Fragrance
- Biomass
- Cleanser/Scourer
- Compost
- Coppice
- Dye\Essential Oil
- Fiber
- Insecticide Spray
- Insect Repellent
- Medicine
- Oil
- Ornamental
- Pollard
- Resin or Polish
- Soap
- Wax
- Wood

- Aromatic Pest Confuser
- Frosion Control
- Domestic Animal Forage
- Dynamic Accumulator
- Fungicide
- Hedge
- Insecticide
- Insectory
- Reclamator
- Nitrogen Fixer
- Nurse
- Soil Builder
- Soil Cultivator
- Toxin Absorber
- Water Purifier
- Wildlife Food
- Wildlife Habitat
- Windbreak



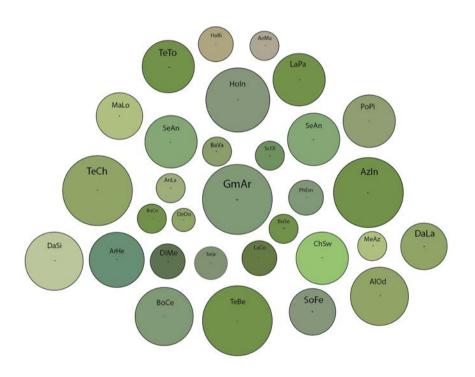
Upland Ecosystem Restoration Plant List page 1





Common Name	Scientific Name	Binomial
Achar	Buchanania cochinchinensis	BuCo
Anjan	Hardwickia binata	НаВі
Bael	Aegle marmelos	AeMa
Baheda	Terminalia bellirica	ТеВе
Bhilwa	Semecarpus anacardium	SeAn
Bhira	Chloroxylon swieenia	ChSw
China Berry	Melia azedarach	MeAz
Chirol	Holoptelea integrifollia	Holn
Dhaora	Anogeissus latifolia	AnLa
Emblic	Phyllanthus emblica	PhEm
Gumhar	Gmelina arborea	GmAr
Harra	Terminalia chebula	TeCh
Jackfruit	Artocarpus heterophyllus	ArHe
Jarul	Lagerstroemia parviflora	LaPa
Kachnar	Bauhinia variegata	BaVa
Karanj	Pongamia pinnata	PoPi
Kusum	Schleichera oleosa	ScOl

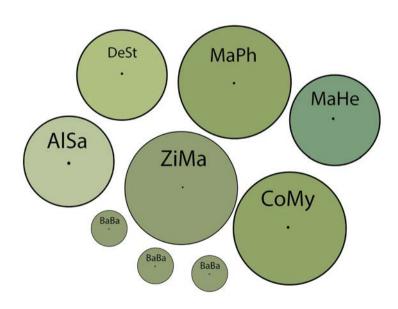
Upland Ecosystem Restoration Plant List page 2



Common Name	Scientific Name	Binomial
Mahua	Madhuca longifolia var. latifolia	MaLo
Moi	Lannea coromandelica	LaCo
Neem	Azadirachta indica	AzIn
Passi	Dalbergia lanceolaria sub. paniculata	DaLa
Rohini	Soymida febrifuga	SoFe
Saaj	Terminalia tomentosa	ТеТо
Salai	Boswellia serrata	BoSe
Sandan	Desmodium oojeinense	DeOo
Semal	Bombax ceiba	ВоСе
Siris	Albizia odoratissima	AlOd
Sisam	Dalbergia sissoo	DaSi
Teak	Tectona grandis	TeGr
Tedu	Diospyros melanoxylon	DiMe

Lowland Ecosystem Restoration

These plants will help create richer diversity, more fertile soils and greater yields. Take a look at the functions of each plant to understand how to apply them effectively throughout the property.





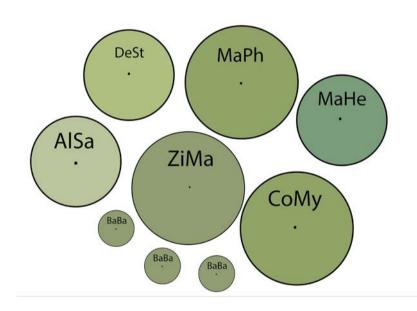


Human Uses

- Aromatics/fragrance
- Biomass
- Cleanser/Scourer
- Coppice
- Dye
- Essential Oil
- Fiber
- Food
- Insecticide Spray
- Medicine
- Oil
- Ornamental
- Pollard
- Resin or Polish
- Soap
- Wax
- Wood

- Air Cleaner
- Aromatic Pest Confuser
- Domestic Animal Forage
- Erosion Control
- Fungicide
- Hedge
- Insecticide
- Insectory
- Reclamator
- Mulch Maker
- Nurse
- Soil Builder
- Windbreak
- Wildlife Food
- Wildlife Habitat

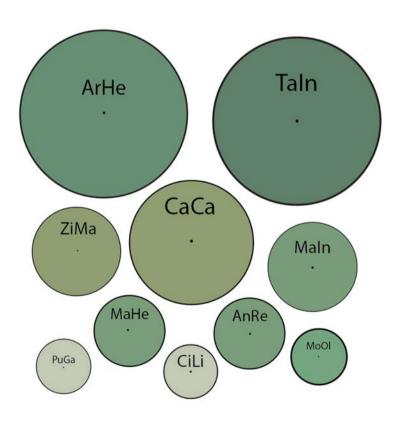
Lowland Ecosystem Restoration Plant list



Common Name	Scientific Name	Binomial
Ankol	Alagium salviifolium	AlSa
Ber	Ziziphus mauritiana	ZiMa
Cgondi	Cordia myxa	СоМу
Indian Thorny Bamboo	Bambusa bambos	BaBa
Khirni	Manilkara hexandra	МаНе
Putranjiva	Putranjia roxburghii	PuRo
Sinduri	Mallotus philippensis	MaPh
Solid Bamboo	Dendrocalamus strictus	DeSt

Wadi Ecosystem Restoration

Restoring Wadi's can produce significant gains in agricultural productivity. These plants will help with erosion control, water harvesting, soil fertility, vegetation cover and biodiversity.





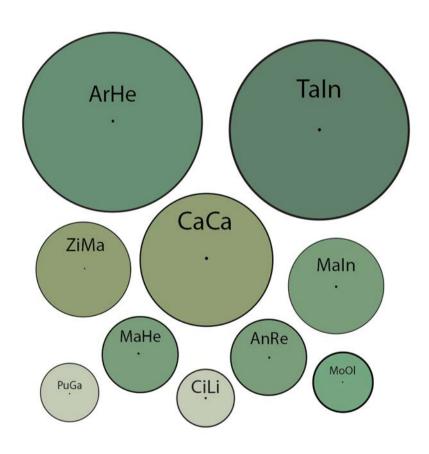


Human Uses

- Aromatics/Fragrance
- Biomass
- Cleanser/Scourer
- Compost
- Coppice
- Container Garden
- Dye
- Essential Oil
- Food
- Fiber
- Medicine
- Oil
- Ornamental
- Pollard
- Resin or Polish
- Soap
- Wax
- Wood

- Domestic Animal Forage
- Erosion Control
- Hedge
- Insectory
- Insecticide
- Mulch Maker
- Nitrogen Fixer
- Nurse
- Reclamator
- Soil Builder
- Water Purifier
- Wildlife Food
- Wildlife Habitat
- Windbreak

Wadi Ecosystem Restoration Plant List

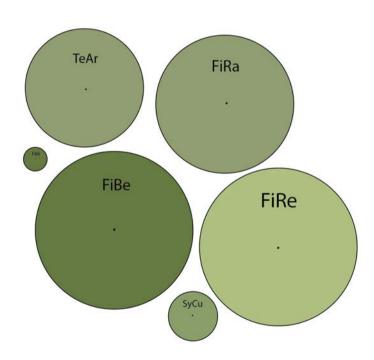


Common Name	Scientific Name	Binomial
Ber	Ziziphus mauritiana	ZiMa
Custard-Apple	Annona reticulata	AnRe
Jackfruit	Artocarpus heterophyllus	ArHe
Karaunda	Carrisa carandas	CaCa
Khirni	Manilkara hexandra	МаНе
Lemon	Citrus Limon	CiLi
Mango	Mangifera indica	Maln
Moringa	Moringa oleifera	MoOl
Pomegranate	Punica granatum	PuGr
Tamarind	Tamarindus indica	Taln



Watershed Areas of Streams and Water Bodies

Healthy watersheds provide many ecosystem services including, but not limited to: nutrient cycling, carbon storage, erosion/sedimentation control, increased biodiversity, soil formation, wildlife movement corridors, water storage, water filtration, flood control, food, timber and recreation, as well as reduced vulnerability to invasive species, the effects of climate change and other natural disasters. These goods and services are essential to our social, environmental and economic well-being. Combine these powerful trees with perennials, shrubs and grasses.





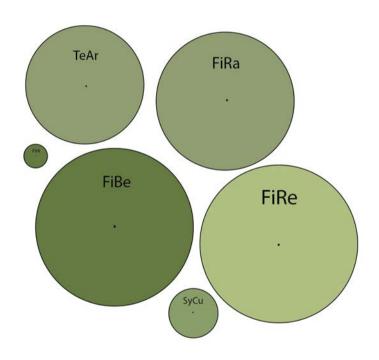


Human Uses

- Aromatics/Fragrance
- Biomass
- Cleanser/Scourer
- Container Garden
- Coppice
- Cut Flower
- Dye
- Essential Oil
- Food
- Fiber
- Medicine
- Oil
- Ornamental
- Pollard
- Resin or Polish
- Wax
- Wood

- Air Cleaner
- Domestic Animal Forage
- Erosion Control
- Fungicide
- Hedge
- Insectory
- Mulch Maker
- Nurse
- Reclamator
- Toxin Absorber
- Water Purifier
- Wildlife Food
- Windbreak

Watershed Areas of Streams and Water Bodies Plant List

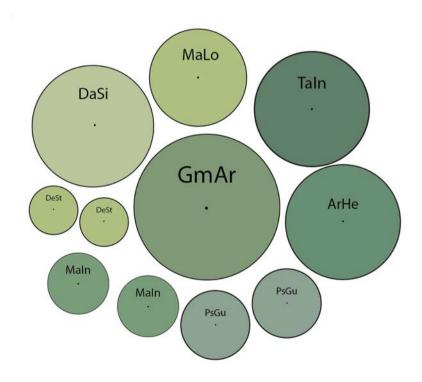


Common Name	Scientific Name	Binomial
Arjuna	Terminalia arjuna	TeAr
Banyan	Ficus benghalensis	FiBe
Gular	Ficus racemosa	FiRa
Jamun	Syzygium cumini	SyCu
Kat Gular	Ficus hispida	FiHi
Mango	Mangifera indica	Maln
Pipal	Ficus religiosa	FiRe



Agroforestry

Effective agroforestry systems create environmental, economic and social benefits. These productive trees combined with functional bamboo can produce high yields. Combine shrubs and perennials of your liking for an even more productive understory.





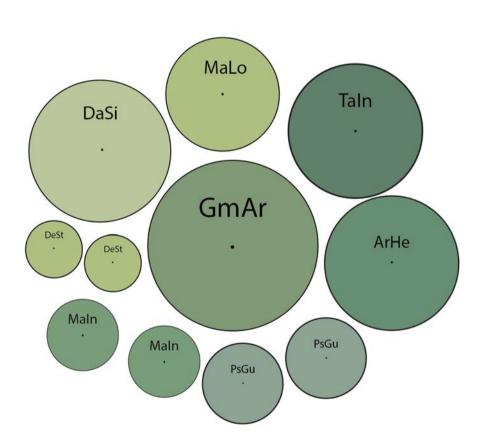
Human Uses

- Biomass
- Cleanser/Scourer
- Coppice
- Dye
- Essential Oil
- Fiber
- Food
- Medicine
- Oil
- Resin or Polish
- Ornamental
- Soap
- Wax
- Wood

- Air Cleaner
- Aromatic Pest Confuser
- Domestic Animal Forage
- Erosion Control
- Fungicide
- Hedge
- Insecticide
- Insectory
- Reclamator
- Mulch Maker
- Nurse
- Soil Builder
- Windbreak
- Wildlife Food
- Wildlife Habitat



Agroforestry Plant list



Common Name	Scientific Name	Binomial
Common Guava	Psidium guajava	PsGu
Gumhar	Gmelina arborea	GmAr
Jackfruit	Artocarpus heterophyllus	ArHe
Mahua	Madhuca longifolia var. latifolia	MaLo
Mango	Mangifera indica	Maln
Sisam	Dalbergia sissoo	DaSi
Solid Bamboo	Dendrocalamus strictus	DeSt
Tamarind	Tamarindus indica	Taln

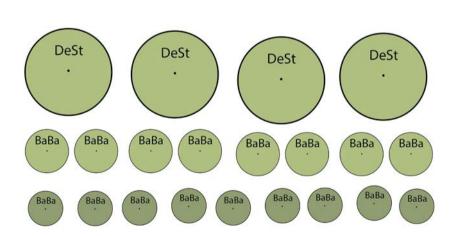


Bamboo

Bamboo is one of the most versatile plants in the world.

Primary uses include:

- 1) Commercial production for use in construction
- 2) Domestic use around the farm
- 3) Ornamental, landscape and conservation uses





Human Uses

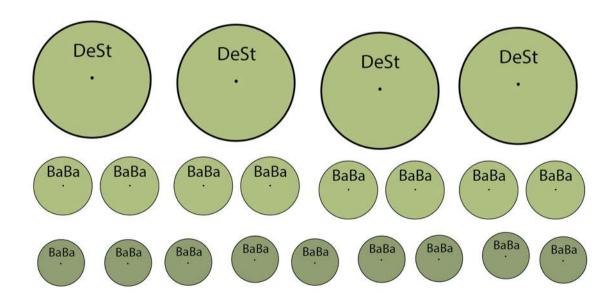
- Biomass
- Cleanser/Scourer
- Fiber
- Insecticide Spray
- Medicine
- Wood

- Air Cleaner
- Domestic Animal Forage
- Erosion Control
- Hedge
- Mulch maker
- Reclamator
- Soil Builder
- Windbreak



Bamboo Plant List

Common Name	Scientific Name	Binomial
Bhaluka	Bambusa balcooa	ВаВа
Indian Thorny Bamboo	Bambusa bambos	BaBa
Solid Bamboo	Dendrocalamus strictus	DeSt

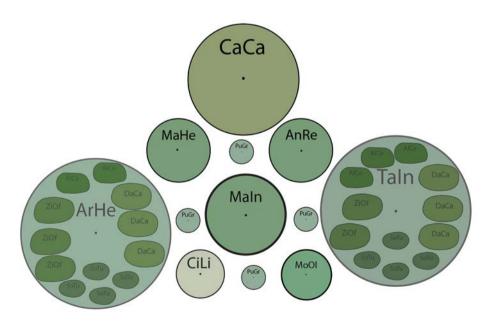




Food Forest Above and Below Ground Layers

<u>Link to Above and Below Ground Layer</u> <u>Link to Canopy Layer</u>

This food forest guild is a representation of the combinations you can create with the above and below ground layers. Mimic the natural forest architecture with multi-functional edibles to create a perennial system that produces higher yields year after year.



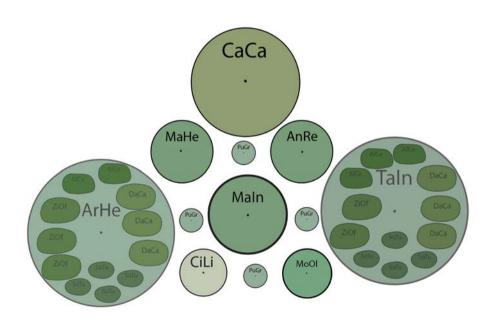


Human Uses

- Aromatics/Fragrance
- Biomass
- Container Garden
- Dye
- Essential Oil
- Food
- Insect Repellent
- Medicine
- Oil
- Resin or Polish
- Wax

- Aromatic Pest Confuser
- Fungicide
- Insecticide
- Wildlife Food

Food Forest Above and Below Ground Layers Plant List





Scientific Name

Annona reticulata

Binomial

AnRe

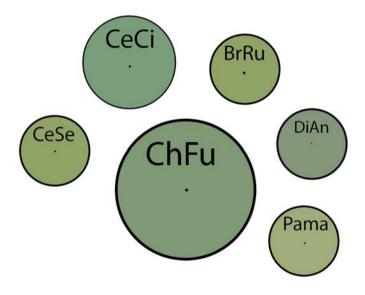
Common Name

Custard-Apple



Grassland

These grasses listed will provide valuable services to aid in livestock production, regulation of water flow and many other benefits that healthy grasslands offer.





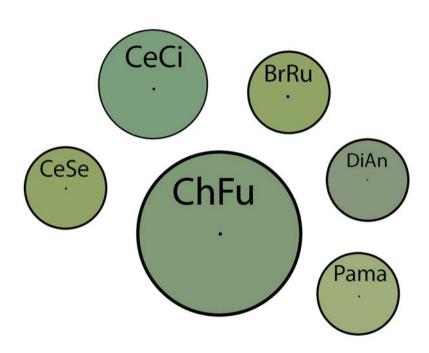
Human Uses

- Biomass
- Fiber
- Food
- Medicine
- Ornamental

- Domestic Animal Forage
- Dynamic Accumulator
- Erosion Control
- Groundcover
- Mulch Maker
- Nitrogen Fixer
- Reclamator
- Wildlife Food
- Wildlife Habitat



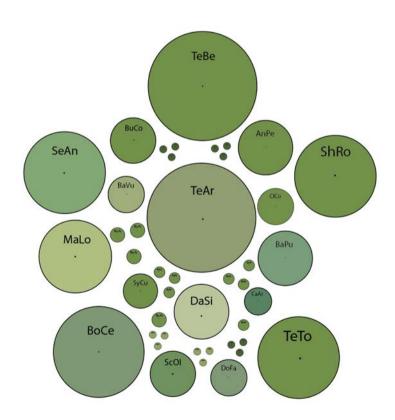
Grassland Plant List



Common Name	Scientific Name	Binomial
Birdwood Grass	Cenchrus setiger	CeSe
Buffel Grass	Cenchrus ciliaris	CeCi
Congo grass	Brachiaria ruziziensis	BrRu
Dhaulu	Chrysopogon fulvus	ChFu
Guinea grass	Panicum maximum	PaMa
Kleerg's Bluestem	Dichanthium anunlatum	DiAn

Plantation Focused on Meeting the Immediate Needs for Fuelwood and Fodder

This highly productive guild is specifically designed to supply fuelwood and fodder quickly. Intersperse the smaller plants around the foundational trees to create a bountiful ecosystem.



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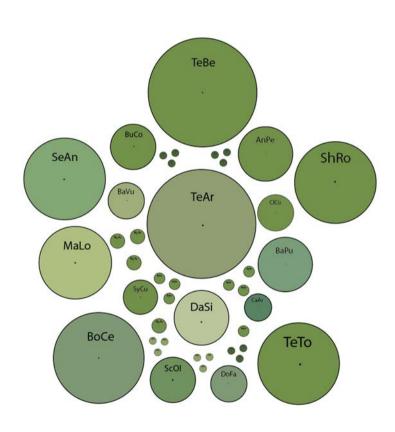


Human Uses

- Aromatics/Fragrance
- Biomass
- Coppice
- Compost
- Dye
- Essential Oil
- Food
- Insect Repellent
- Insecticide Spray
- Medicine
- Ornamental
- Oil
- Pollard
- Resin or Polish
- Soap
- Wood
- Wax

- Domestic Animal Forage
- Dynamic Accumulator
- Erosion Control
- Groundcover
- Mulch Maker
- Nitrogen Fixer
- Reclamator
- Wildlife Food
- Wildlife Habitat

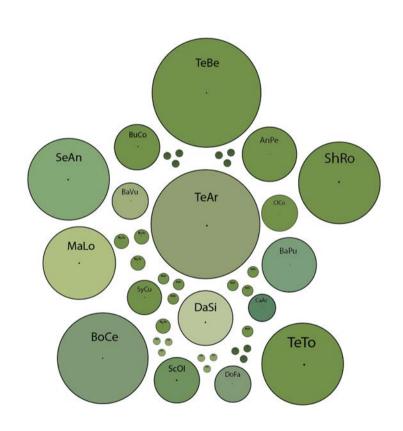
Plantation Focused on Meeting the Immediate Needs for Fuelwood and Fodder Plant List page 1



-	UNITED DESIGNERS	_
	INTERNATIONAL	

Common Name	Scientific Name	Binomial
Achar	Buchanania cochinchinensis	BuCo
Arjuna	Terminalia arjuna	TeAr
Baheda	Terminalia bellirica	TeBe
Bhilwa	Semecarpus anacardium	SeAn
Common Bamboo	Bambusa vulgaris	BaVu
Dhok Tree	Anogeissus pendula	AnPe
Jamun	Syzygium cumini	SyCu
Kadasali	Nyctanthes arbor- tristus	NyAr
Karra	Cleistanthus collinus	CICo
Koliyari	Bauhinia purpurea	BaPu
Kudi	Holarrhena pubescens	HoPu
Kummi	Schleichera oleosa	ScOl
Mahu	Madhuca longifolia var. latifolia	MaLo

Plantation Focused on Meeting the Immediate Needs for Fuelwood and Fodder Plant List page 2

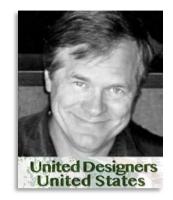


Common Name	Scientific Name	Binomial
Pengu	Celastrus paniculatus	СеРа
Saaj	Terminalia tomentosa	ТеТо
Sal Tree	Shorea robusta	ShRo
Semal	Bombax ceiba	ВоСе
Siadi	Bauhinia vahlii	BaVa
Sisam	Dalbergia sissoo	DaSi
Tutlani	Dolichandrone falcata	Dofa
White Leadtree	Leucaena leucocephala	leLe

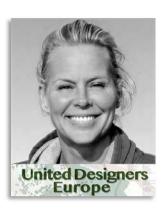


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Plant
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Brandon Dean

















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