

- Acacia albida* **Ecology:** Thorny tree, 30m tall, altitude 270-2700 m, rainfall 250-1200 mm. **Uses:** Food, fodder, apiculture, timber, medicine, shade & shelter, soil reclamation. **Propagation:** Scarify seed **or** place seeds in boiled water and let the water cool; then soak 24 hours. High failure rate for direct seeding.
- Acacia angustissima* **Ecology:** 2-7 m tall, altitude 0-2600 m, rainfall 895-2870mm, cold tolerant. **Uses:** Fodder, medicine, soil improvement and nitrogen fixation. **Propagation:** Soak seed in *cold water* for 12 hours. Do not sow too deeply.
- Acacia mangium* **Ecology:** Evergreen tree, 25-35m tall, altitude 0-800m, rainfall 1500- 3000mm. Does not coppice well. **Uses:** Food (germinating seeds), fodder, fiber, fuel, timber, erosion control, shade, nitrogen fixation. **Propagation:** Direct sow or nursery. Scarify seed **or** place seeds in boiled water for 30 seconds and add cool water; then soak 24 hours.
- Acacia nilotica* **Ecology:** 25m tall, altitude 0-1340 m, rainfall 200- 1270 mm, cold & drought tolerant. **Uses:** Food, fodder, fuel, fiber, apiculture, medicine, & soil reclamation. **Propagation:** Direct seeding common. Place seeds in boiled water & let water cool; then soak 24 hours. Bare root seedling not recommended due to high incidence of root injury.
- Acacia senegal* **Ecology:** 15m tall, altitude 100-1700m, rainfall 300-1200mm, cold tolerant. **Uses:** Food (seed), fodder, apiculture, fuel, fiber, timber, gum & resin, oil, erosion control, nitrogen fixation, intercropping. **Propagation:** No pretreatment required for fresh seeds. Soak older seeds in water for 12-24 hours. Direct seeding successful. Cuttings also successful. Needs good protection from weeds, fire, & grazing for first 2 years.
- Albizia lebbek* **Ecology:** Deciduous tree, 20-30m tall, altitude 0-1800m, rainfall 500-2500mm. Coppices well. Poor fire tolerance. **Uses:** Fodder, timber, medicine, shade (coffee), apiculture, soil improver, & erosion control. **Propagation:** Scarify seed **AND** place in boiled water. Let water cool, then soak 24hrs. Bare root & direct seeding can be used.
- Azadirachta indica* **Ecology:** Evergreen tree 15m tall, altitude 0-1500 m, rainfall 400-1200 mm. **Uses:** Food (fruit), fodder (leaves), fuel, timber, tannin, shade, erosion control, and soil improvement. **Propagation:** Seeds do not store well & are best used fresh. No pretreatment required for fresh seed.
- Calliandra calothyrsus* **Ecology:** Vigorous pioneer tree, 12m tall, altitude 250-1800 m, rainfall 700-4000 mm. **Uses:** Fodder (leaves & pods), apiculture, fuel, fiber, erosion control, shade, nitrogen fixing, soil improvement, intercropping. **Propagation:** No pretreatment needed, but 24 hour cold water soak helpful. Seeds germinate between 4 and 21 days.
- Cassia fistula* **Ecology:** Deciduous tree, 10 m tall, altitude 0-1200 m, rainfall 480-2 720mm. Coppices well. **Uses:** Apiculture, fuel, timber, tannin, and ornamental. **Propagation:** Scarify seed. Direct sowing can be successful.
- Cassia siamea* **Ecology:** Evergreen tree, 18m tall, altitude 0-1200 m, rainfall 400-2800mm. **Uses:** Fodder (TOXIC to non-ruminants e.g. pigs, poultry!), fuel, timber, medicine, erosion control, shade, soil improver, intercropping, ornamental. **Propagation:** No pretreatment required. Direct seeding successful. Sow in FULL sunlight, shade reduces germination.
- Cedrela odorata* **Ecology:** Deciduous tree to 35m tall, altitude 1200 m, rainfall 1200-2400mm. **Uses:** timber, shade (coffee & cacao), fiber, fuel, apiculture, ornamental, & intercropping.

Propagation: Fresh seed germinates in 2-4 weeks with no pretreatment. Seed does not store well. Can use direct seeding, cuttings, layering, or transplanting wild seedlings.

- Gliricidia sepium*** **General Ecology:** 2-15m tall, altitude 0-1200 m, rainfall 600-3500mm. **Uses:** Fodder, fuel, erosion control, shade, nitrogen fixation, soil improvement. **Propagation:** Cuttings very common. No pretreatment for fresh seeds. For older seeds, place seeds in hot water & let water cool; then soak 12 hours & plant immediately.
- Grevillea robusta*** **General Ecology:** Drought tolerant tree, 18-30m tall, altitude 1,500 - 2,700m, rainfall 700-2000mm. **Uses:** Apiculture, furniture, firewood, charcoal, construction, cattle fodder, and shade for coffee and tea. **Propagation:** No pretreatment required. Cuttings from young trees successful.
- Leucaena collinsii*** **General Ecology:** 10–15m tall, altitude 100-900 m, rainfall 500-1000mm. Aggressive seeder, could become invasive. **Uses:** Food (pod), fodder, fuel, gum or resin, nitrogen fixing, soil improvement, intercropping. **Propagation:** Scarifying seed is best, or soak in boiled water for 30 seconds and add cool water; then soak seed for 24-72 hours.
- L. leucocephala*** **General Ecology:** Evergreen tree, 15-20m tall, altitude 800m, rainfall 600-1000mm. Aggressive seeder, could become invasive. **Uses:** Fodder, living fence, windbreaks, wood, & alley cropping. **Propagation:** Scarify seed, or soak in hot water for 2 mins. Bare root and direct seeding is successful.
- L. salvadorensis*** **General Ecology:** Thornless tree, 10-15m tall, altitude 200-1000 m, rainfall 800-2000 mm. Shy seed production, low risk of invasiveness. **Uses:** Fodder, erosion control, apiculture, fuel, timber, intercropping. **Propagation:** No pretreatment required. Transplanting natural seedlings more successful. Seeds store well.
- Moringa oleifera*** **General Ecology:** 12m tall, altitude 0- 1000 m, rainfall 500mm. Exceptionally nutritious, high in vitamin A, B,& C, and protein. **Uses:** Food, medicine, firewood, apiculture, oil. **Propagation:** No pretreatment required. Cuttings easily rooted.
- Prosopis juliflora*** **General Ecology:** Evergreen tree, 5-10 m tall, altitude 0-1500 m, rainfall 50-1200mm. **Uses:** Food, fodder, apiculture, fuel, fiber, timber, erosion control, shade and shelter, nitrogen fixation, intercropping and soil reclamation. **Propagation:** Scarify seed.
- Sesbania grandiflora*** **General Ecology:** Fast growing tree, 15m tall at maturity. Grows well in Vertisol at altitude 800 – 1000m; temperature 22 -30°C; rainfall 2000 – 4000mm. **Uses:** Food, fodder, fuel, shade, soil improver, nitrogen fixer, intercropping. **Propagation:** Seedlings or cutting. No seed pretreatment is required.
- Sesbania sesban*** **General Ecology:** 7m tall, altitude 100-2300 m, rainfall 500-2000 mm. Rapid early growth rate. **Uses:** Food, fodder, fuel, fiber, shade, soil improver, intercropping. **Propagation:** Scarify seed.

The information above was compiled using:

- a) The World Agroforestry Center Database (www.worldagroforestry.org)
- b) Firewood Crops: National Academy of Sciences, 1980