

Common Weeds of Guam by Chin-Tian Lee, Ph.D.

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COMMON WEEDS OF GUAM

The need for comprehensive information about Guam weeds has long been expressed by the general public and farmers interested in one or more aspects of identifying and controlling weeds. More than 50 weeds are described and illustrated in this publication. It is hoped this publication will assist the agriculturists, gardeners, farmers and students in identifying the common weeds of Guam.

What Is A Weed?

A weed is a pest. It is an enemy of agriculture and many related branches of human activity. Man has been at war against weeds since the beginning of agriculture. Although we have a general concept as to what a weed is, there is no one definite definition. The reason s this: the concept of a weed is relative and the situation when a plant is considered a weed depends mainly upon the economic importance attributed to it by human beings. There are many useful plants which have turned into pestiferous weeds simply because of the relative value that man has accorded them. What one could call a weed, however, may be described as follows:

- A plant growing out of place.
- A plant growing where something else should grow.
- A plant growing where nothing should grow.
- A plant that is noxious, useless, or poisonous.
- A plant whose economic importance is yet to be discovered.

Thus many plants that affect the beneficial utilization of the environment by man falls under the category of a weed until such time he discovers some use or need for that plant. Some crop plants can become weeds when they appear where they are not wanted. On the other hand, a number of plants usually thought of as weeds may actually be useful under some condidtions or in some areas. For example, tangantangan (*Leucaena leucocephala* Lam.) may help to control soil erosion or may serve as firewood.

Why Are Weeds Troublesome?

Weeds reduce crop yields by competing with crops for the essential energy source such as nutrients, light, moisture, and carbon dioxide. The work of eradicating weeds from crop fields increase costs of production. Weeds reduce the quality of crop products. Also, weeds harbour insects and diseases by acting as alternate hosts for insects and organisms causing diseases. Some weeds can cause skin irritation and hay fever.

Classification of Weeds

- I. Based on Morphology
 - 1. Grass Weeds:

Grass weeds are monocots and have the following distinct properties: two-ranked leaves that are usually long, narrow and upright with parallel venations, protected apical meristem (growing point), and hollow stem.

- 2. Broadleaf Weeds: Broadleaf weeds are mainly dicots and have the following distinct properties: leaves usually broad with netted venation, exposed apical meristem.
- II. Based on Life Cycle
 - 1. Annual Weeds:

These plants complete their life cycle in one year or less. They grow from seed, mature, and produce seed for the next generation in one year or less.

- 2. Biennial weeds: Plants with a two-year life cycle. They grow from seed and develop a heavy root and compact cluster of leaves the first year. In the second year they mature, produce seed, and die.
- 3. Perennial weeds:

Plants which live for more than two years and may live indefinitely are perennials. During the winter, many lose their foliage and the stems of others may die back to the ground. Others produce tubers, bulbs, rhizomes (below-ground rootlike stems), or stolons (above-ground stems that produce roots).

a. Creeping perennials:

Plants produce seeds but also produce rhizomes or stolons.

b. Simple perennials:

Plants normally reproduced by seeds. But a root piece may produce new plants folowing mechanical injury during cultivation.

c. Bulbous perennials:

Plants may reproduce by seed, bulblets or bulb.



Family Name	:	Amaranthaceae
Scientific Name	:	Amaranthus spinosus I
Common Name	:	Spiny Amaranth
Local Name	:	Enmosa Biaja

An erect, broad-leaf, annual plant, 1 to 4 feet high. Stems angled or with longitudial line or ridges, green or brown. Leaves alternate, broadly lanceolate to ovate, margins entire, with a pair of straight spine up to 1/2 inch long at the base. Flowers long, slender, terminal, with axillary spikes in clusters, greenish. Fruits one-seeded, opening by a line around the center. Seeds very small, reddish brown, lens-shaped, shinny.

Propagation:

By seeds which have a long viability. Dispersed principally by wind and water.

Local Occurrence:

A very troublesome weed especially of newly plowed or disturbed areas.



Family Name	: Amaranthaceae
Scientific Name	: Gomphrena serrata L. (= Gomphrena dispersa Standley)
Common Name	: Gomphrena

A small, creeping, hairy, broad-leaf, annual plant. Leaves shortpetioled, opposite. Flowers white, small globose headed.

Propagation:

By seeds.

Local Occurrence:

Found along roadsides, lawns and waste places.



Family Name	: Boraginaceae
Scientific Name	: Heliotropium procumbens L. (=Heliotropium ovalifolim Forsskal)
Common Name	: Heliotrope
Local Name	: Huning-Tasi

A small, branching, prostrate, broad-leaf, annual plant. Leaves opposite. Flowers tiny, white, along one side of a slender, coiled forked stem or circinus.

Propagation:

By seeds.

Local Occurrence:

Found along roadsides and waste places.



Family Name	: Compositae
Scientific Name	: Bidens pilosa L. (=Bidens Alba L.)
Common Name	: Beggar Tick, Guam Daisy, Spanish Needle

An erect, branching, broad-leaf, annual plant, 2 to 3 feet high. Leaves opposite, serrate margins, vary in size and shape, the upper trifoliate in the upper leaves and the lower one simple. Flower heads about 1 inch in diameter with white petals, on long stems at branch tip, ray flower around the outer edge yellow, disk flower in the center brownish-yellow. Fruits an achene, barbed with 2 straight or slightly curved awns.

Propagation:

By seeds. Flower head consists of 30 - 50 achenes. The barbed seeds stick to clothes and are dispersed.

Local Occurrence:

Very common, all over the island not only in waste ground and along roadsides but sometimes at the fringes of forest, sometimes forming dense thickets nearly 3 feet tall.



Family Name	: Compositae
Scientific Name	: Chromolaena odorata L. (=Eupatorium odoratum L.)
Common Name	: Eupatorium, Masigsig
General Description	

A large, erect, branching, broad-leaf, perennial plant, 2 to 6 feet high. Stems tough, short bristly hair. Leaves opposite, ovate, 2 to 6 inches long, hairy, coarsely serrate, conspicuously three vein from the base. Flowering clusters purplish or white, in more or less terminal and axillary flowering flat-topped infloresence. Seeds small, slim with hairs at the top.

Propagation:

By seeds which are produced in great numbers and which are airborne.

Local Occurrence:

It is an aggressive weed found in waste places and along roadsides.



Family Name	: Compositae
Scientific Name	: Conyza canadensis (L.) cronq
Common Name	: Small-Leaf Horseweed

An erect, broad-leaf, annual plant, varying from a few inches to 5 to 6 feet at blossom time. Stems single up to the flower branches, densely clothed with erect leaves; the lower ones dying but remaining attached and hanging downward. Leaves linear-lanceolate, 2 to 4 inches long, the lower ones toothed or entire, tapering into short petioles. Inflorescence a spreading, leafy pancile bearing numerous small cylindrical heads with inconspicuous white florets, each head supported on a short stalk. Seeds, flat, each with a tuft of bristly hair.

Propagation:

By seeds. A single plant produces thousands of seeds which are dispresed by wind.

Local Occurrence:

Very common in lawns and waste places, especially on limestone soil.



Family Name	: Compositae
Scientific Name	: Mikania scadens L.
Common Name	: Mikania
General Description	

A climbing, twining perennial plant. Leaves opposite, palmately veined, dentate. Flowering heads white, in terminal clusters.

Propagation:

By seeds.

Local Occurrence:

Grows in dense mass over vegetation along roadsides or in disturbed areas.



Family Name	: Compositae
Scientific Name	: Tridax procumbens L.
Common Name	: Coat Buttons, Wild Daisy
General Description	

A sprawling, small, broad-leaf, annual plant, 1 to 2 feet high. Leaves opposite, sharply lobed, petioles with long white hairs. Flower heads terminal, white ray flowers, yellow disk florets.

Propagation:

By seeds.

Local Occurrence:

Very common in lawns and waste places. More common on limestone on limestone soil then volcanic.



Family Name	: Compositae
Scientific Name	: Vernonia cinera (L.) Less.
Common Name	: Vernonia, Little Ironweed
Local Name	: Chaguan-Santa-Maria

An erect, broad-leaf, annual plant, 1 to 2 feet high. stems covered with fine hairs. Leaves opposite, ovate acute, variously shaped; the upper ones narrow, small, and sessile, the lower ones broadly lanceolate with prominent leafstalk and entire margin. Flower head purplish or pinkish, small, on slender stalk, 20-25 flowers forming a terminal pancile. Fruits an achene, small with shitish ring of hairs at the top.

Propagation:

The achenes of seeds are easily dispersed by wind.

Local Occurrence:

Found mostly in waste places and lawns



Family Name	: Compositae
Scientific Name	: Youngia japonica L.
Common Name	: Youngia, Asiatic Hawkbeard

An erect, low growing, broad-leaf, annual plant, ½ to 2 feet high. Stems smooth, hollow with a milky sap. Leaves mostly at base of stem with arosette of petiolate, oblanceolate, lobed. Flower head yellow with 15 to 20 small yellow florets occurring in a slender panicle. Seeds topped with a soft white ring of hairs.

Propagation:

By seeds.

Local Occurrence:

Found usually in shady spots near houses and buildings.



Family Name	: Convolvulaceae:
Scientific Name	: Ipomoea congesta R. B
Common Name	: Blue Morning Glory

A broad-leaf, twining, perennial plant. Stems twining, climbing. Leaves heart-shaped, 3 to 4 $\frac{1}{2}$ inches, entire flowers single or few on each stalk, bracts linear-lanceolate; corolla blue in the morning, fading to pink in the afternoon, about 2 $\frac{1}{2}$ inches long. Fruit a capsule, subglobose, 5/8 inch in diameter. Seeds 2, dark brown, pubescent.

Propagation:

By seeds.

Local Occurrence:

This is the most common morning-glory in guam. These vines are aggressive, which quickly cover old fields, especially on limestone soils, and sometimes smothering the shrubs and trees in a dense mat of stems.



Family Name	: Convolvulaceae
Scientific Name	: Ipomoea pescaprae (L.) Roth
Common Name	: Beach Morning - Glory
Local Name	: Alalag-Tasi

A broad-leaf, perennial plant. Stems long, prostrate, running, containing tough fibers and milky juice. Leaves 2 to 3 inches in diameter, thick and leathery, leafstalks 2 or 3 inches long, ovate to almost circular, with small sharp points in the notch at the tip. Flower pink, bell-shaped, sepals short, broadly ovate, corolla about 2 inches across. Frist a capsule, 2-celled. Seeds brown, covered with hairs.

Propagation:

By seeds and by stolons which are very long and often rooting at the nodes.

Local Occurrence:

Common on sandy or rocky beaches just above the high tide line, sometimes along roadsides.



Family Name	: Convolvulaceae
Scientific Name	: Ipomoea triloba (L.)
Common Name	: Little Bell, Aiea Morning Glory
Local Name	: Fofgu-Sabária

Usually a small, broad-leaf, twining, perennial plant. Leaves cordate, acuminate, 3-lobed, mostly ³/₄ to 2 inches long, longer than wide. Stems somewhat angled, glabrous or pubscent. Flowers red or purple, up to 1 inch across, one to a few on a stem. Fruit a capsule, pubscent. Seed glabrous or with a few minute hairs.

Propagation:

By seeds.

Local Occurrence:

Usually found in an old pastures or in savannahs, chiefly in southern hilly regions, locally abundant.



Family Name	:	Cucurbitaceae
Scientific Name	:	Momordia charantia L
Common Name	÷	Wild Bitter-Melon
Local Name	:	Almagosa

A slender, herbaceous climber. Stems pubscent. Leaves 4-5 inches long, palmately 5-7 lobed. Flowers bright yellow. Fruits warty, orange when ripe. Seeds bright red.

Propagation:

By seeds.

Local Occurance:

Very commonly found along roadsides and in waste areas.



Family Name	: Cyperaceae
Scientific Name	: Cyperus kyllingia Endlicher
Common Name	: White Kyllinga
Local Name	: Chaguan Lemae, Botoncillo

A small, perennial grass with creeping rhizome. Leaves many, short, leaf sheath thin, membranous, pale to purphish. Flower stems often 3 to 18 inches high, ridged, soft, with 3 to 4 dark brown leafy bracts at the top. Flower spike 1, ovoid, 14 inch in diameter. Spikelets flat, white, numerous, 1 to 2 flowered, flower scales membranous, strawlike. Fruit a nut, brown.

Propagation:

By seeds and creeping rhizones.

Local Occurrence:

A weed found in waste and grassy places.



Family Name	: Cyperaceae
Scientific Name	: Cyperus liqularis L.
Common Name	: Rocket Sedge

An erect, perennial grass with short rhizomes, 2 to 4 feet high. Stems trianular, 3 feet long. Flowers with dark, reddish-brown inflorescence, several dense, cylindrical spikes at the ends of short branches.

Propagation:

By seed and creeping rhizomes.

Local Occurrence:

Found in waste plaes and along roadsides.



Family Name	: Cyperaceae
Scientific Name	: Cyperus polystachyos Rottboell
Common Name	: Cyperus, Sedge

An erect, annual, rarely perennial grass, $1 - 2\frac{1}{2}$ feet high. Stems triangular. Leaves about $\frac{1}{4}$ inch wide. Flowers brown inflorescences, head-like several branches bearing spikelets to about $\frac{1}{2}$ inch long.

Propagation:

Usually by seeds.

Local Occurrence:

Commonly found in waste places and along roadsides.



: Cyperaceae
: Cyperus rotundus L.
: Purple Nutsedge
: Chaguan Humatag

A perennial grass. Stems unjointed, triangular, solid stem, 6 to 8 inches high. Leaves of young plant upright, penetrating, spreading in later growth; involucral leaves 3 or 4, at the top of the stem. Inflorescence a simple umbel 3 branches 4 to 6 in number, slender, up to 2½ inches long, each ending in a cluster of brown, narrow spikelets. Fruits an anchere, 3 - angled.

Propagation:

By rhizomes and underground tubers.

Local Occurrence:

A widely spread weed usually found in waste or cultivated areas, often in lawns.



Family Name	: Euphorbiaceae
Scientific Name	: Acalypha indica L.
Common Name	: Acalypha
Local Name	: Hierba del Cancer

A small, erect, broad-leaf, annual plant with a few ascending branches, 1 to 2 feet high. Leaves alternate, rather coarsely toothed, broadly ovate, long petioled. Flowers small, sessile, in axillary spikes from leaf axils; male and female flowers separate but borne together, male flower minute. Seed pod containing 3 seeds, small, dull reddish-brown to gray.

Propagation:

By seeds.

Local Occurrence:

Found in waste lands, lawns and cultivated areas.



Family Name	: Euphorbiaceae
Scientific Name	: Euphorbia hirta L.
Common Name	: Garden Spurge, Euphorbia
Local Name	: Golondrina

An ascending, broad-leaf, annual plant, about 1½ feet high. Stems more or less hairy. Leaves opposite, narrowly ovate, short petioled, sharply serrate, asymmetrical, dark green and often purple above, palex green beneath. Flowers green, small, on very short axillary flower st Fruit a capsule, hairy. Seeds 6 elonged, wrinkled, light brown.

Propagation:

By seeds. A single plant produces a lot of seeds.

Local Occurrence:

Usually found in lawns and roadsides.



Family Name	: Euphorbiaceae
Scientific Name	: Phyllanthus amarus Schum. & Thonn.
Common Name	: Phyllanthus
Local Name	: Maigo-Lalo

A small, broad-leaf, annual plant, usually under 1 foot tall. Stems green or reddish. Leaves numerous small oblong-elliptic or squarish, glarous, about 3/8 inch long, regularly arranged one above another in two opposite rows. Flowers very small, in cymules hidden under the leaves, cymules bisexual, of 1 male and 1 female flower. Fruit a small capsule, depressed-globose. Seeds 5-7 ribbed.

Propagation:

By seeds.

Local Occurrence:

Found in shady areas of moist soil. A common weed in lawns and cultivated areas.



Family Name	: Gramineae
Scientific Name	: Brachiaria mutica (Forsk.) Stapf (=Panicum purpurascens Raddi)
Common Name	: Para Grass, Tall Panicum

A stout, spreading, perennial grass, rooting from the stolons. Stems 6 to 8 feet long, trailing and interwining, forming dense masses, the joints and sheath hairy. Leaves 4 to 12 nches long, 1/4 to 1/2 inch wide, flat smooth, with stiff hairs at the base. Flowering panicle 6 to 12 inches long, usually purplish, densely flowered branches somewhat separated, subracemose.

Propagation:

By seeds and stolons.

Local Occurrence:

It thrives best in damp locations such as wet ditches, fields, and gullies. A very troublesome weed in cultivated areas, in waste lands, and along roadsides.



amily Name	:	Gramineae
Scientific Name	:	Cenchrus echinatus L.
Common Name	:	Southern Sandbur, Sandbu

An errect, branching, annual grass, 1 to 2 feet high, decumbent and spreading at the base, somewhat tufted. Stems flattened, dark green. Leaves flat, 2 to 7 inches long, 1/8 to 3/8 inch wide, lower surface smooth, upper side rough, slightly hairy at the base. Inflorescene a spike, dense, cylindric, 1 to 4 inches long. Burs 5 to 50 or more, globular, densely arranged; the barbed spines or bristles, usually turning to purple with age, sometimes straw colored.

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Propagation:

By seeds. Barbed burs of seed head which easily detach from the racemes and attach to clothing or animal hair.

Local Occurrence:

Common in moist disturbed places especially near the coast or on limestone soil. A troublesome weed in lawns, cultivated areas, waste places and along roadsides.



Family Name	: Gramineae
Scientific Name	: Chloris barbata (L.) Swartz
Common Name	: Swollen Fingergrass
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An annual grass, 1 to 2 feet high. Stems erect or sometimes bent at the base and rooting at the lower joints, smooth, flattened and purple at the base. Leaves flat, 1 to 5 inches long, 1/10 to 1/8 inch wide, bluish-green, rough on the edges, often long-hairy near the base on the upper side. Flowering heads of 2 to 11 flexous, purple, fingerlike spikes, 1 to 2 inches long at the tips of the stems. Spikelets closely imbricate, purplish, broad with 3 slender bristles.

Propagation:

By seeds. A single plant produces a lot of seeds.

Local Occurrence:

Abundant in abandoned fields, roadsides, vacant lots, particulary in dryer areas.



Family Name	: Gramineae
Scientific Name	: Chloris radiata (L.) Swartz
Common Name	: Radiate Fingergrass

An annual grass, 1 to 2 feet high. Stems smooth, flattened, sometimes purplish at the joints, spreading and much branched at the bases. Leaves 2 to 6 inches long, 1/16 to 1/8 inch wide with a boat-shaped rounded tip, rough throughout and usually with a few long hairs near the base on the upper side. Flowering heads of numerous delicate fingerlike spikes 1 to 3 inches long, close together and upright at the tips of the stems. Spikelets slender, with delicate bristles.

Propagation:

By seeds. A single plant produces a lot of seeds.

Local Occurrence:

A very common weed in drier waste lands, cultivated areas and along roadsides.



Family Name	: Gramineae
Scientific Name	: Chrysopogon aciculatus (Retz.) Trin.
Common Name	: Chrysopogon
Local Name	: Infuk, Palaii

A perennial grass, 1 to 2 feet high, with short rhizomes and long leafy usually prostrate stolons. Leaves mostly basal, linear lanceolate, subobtuse, 1 to 5 inches long, 1/8 to 1/4 inch wide, flat or folded, glabrous but margin scabrid. Flowering panicle rather slender, erect, up to 3 inches long, of fine simple branches, ascending. Spikelets sessile, slender, accuminate.

Propagation:

A very widespread weed with a very effective dispersal mechanism; the sharp spikelet may be carried in the fur of mammals, in feathers, in mud, and in stockings and trousers.

Local Occurrence:

An annoying grass in lawns and an aggressive weed which withstands trampling, poor soils and mowing.



Family Name	: Gramineae
Scientific Name	: Cynodon dactylon (L.) Pers
Common Name	: Bermuda Grass
Local Name	: Grama

A long-lived, prostrate, fine-leaved, perennial grass. Stems smooth, flattened, usually prostrate but sometimes somewhat upright. Leaves narrow, usually 1 to 4 inches long, 1/4 to 1/8 inch wide, rough on edges. Flowering head with 4 to 5 purplish spikes in one whorl in a fingerlike arrangement (digitately) at the tips of the stems. Spikelets in two rows tightly pressed to one side of rachis.

Propagation:

By seeds, creeping stolons and underground rhizomes.

Local Occurrences:

Frequent in lawns and sometimes in cultivated areas.



Family Name	: Gramineae
Scientific Name	: Dactyloctenium aegyptium (L.) Richt.
Common Name	: Crowfoot Grass, Beach Wiregrass

A spreading to slightly ascending annual grass, ¹/₂ to 1¹/₂ feet high. Leaves flat, rather narrow, smooth, or sparsely covered with soft hairs, with hairs swollen at the bases on both surfaces. Flowering stems erect, naked, with 2 to 6 short, thick, dark-colored spikes arranged in a fingerlike fashion (digitate).

Propagation:

By seeds.

Local Occurrence:

Mostly found around buildings, in waste places and lawns.



Family Name	: Gramineae
Scientific Name	: Digitaria sanguinalis (L.) Scop.
Common Name	: Large Crabgrass

A branching, spreading, annual grass. Stems stout, 1 to 3 feet long, usually decumbent at base, smooth, rooting at the nodes. Leaves 2 to 6 inches long, $\frac{1}{4}$ to $\frac{1}{2}$ inch wide, somewhat hairy. Flowering heads in spikes 2 to 6 inches, 5 to 13 fingerlike branches, 2 to 6 inches long, in whorls or whorlike at tip of stem. Spikelet, paired along one side of rachis.

Propagation:

Mainly by seeds and sometimes by stolon. A single flowering stem produces hundreds of seeds.

Local Occurrence:

Very commonly found in cultivated fields, waste areas and lawns.



Family Name	: Gramineae
Scientific Name	: Digitaria violascens Link
Common Name	: Small Crabgrass, Smooth Crabgrass

An annual grass, 1 to 2 feet high, erect to spreading at the base and forming dense clumps. Stems smooth, stout. Leaves flat, 1 to 4 inches long, 1/8 to 1/4 inch wide, often reddish, usually smooth. Flowering heads with 2 to 9 slender fingerlike branches (smaller than the large crabgrass), 1 to 4 inches long, at the tip of the flowering stem or closely arranged along 1 to 2 inches of the upper part. Spikelets very small, always less than 1/10 inch long, dark-colored, closely pressed to the branches.

Propagation:

By seeds. A single flowering stem produces hundreds of seeds which are easily brushed off at maturity.

Local Occurrence:

Found abundant in moist and semi-dry areas. Common weed in cultivated areas and lawns.



Family Name	: Gramineae
Scientific Name	: Echinochloa colonum (L.) Link
Common Name	: Jungle Rice
Local Name	: Chaguan-Agaga

A smooth annual grass, $\frac{1}{2}$ to 2 feet high, usually prostrate, sometimes erect. Stems flattened, often reddish-purple, usually swollen at the joints, often in large tufts, rooting at the lower nodes. Leaves rather lax, $1\frac{1}{2}$ inches long, 1/16 to $\frac{1}{2}$ inch wide. Flowering heads 4 to 7 racemes, green or tinged with reddish purple. Spikelets crowed, nearly sessile, awnless or shortly awned.

Propagation:

By seeds.

Local Occurrence:

Found in very moist or swamp areas, near marshes and around water pipes.



Family Name	: Gramineae
Scientific Name	: Eleusine indica (L.) Gaertn.
Common Name	: Goosegrass, Wiregrass
Local Name	: Umog

A branching, erect or prostrate, annual grass. Stems ascending, compressed, 12-24 incheshigh, flattened, pale green. Leaves 6 to 10 inches long, boat-shaped, long hairy at the base. Flowering head with 2 to 6 flattened, fingerlike branches, 2 to 4 inches long. Seeds about 1/16 inch long, dark reddish-brown with conspicuous ridges.

Propagation:

By seeds.

Local Occurrence:

Found in disturbed areas, especially in sandy soil. It is quick-growing and long lived.



Family Name	: Gramineae
Scientific Name	: Eragrostis tenella (L.) Roem. & Schult.
Common Name	: Lovegrass

A small, rather delicate annual grass, usually widely spreading at the base but sometimes erect. Stems $\frac{1}{2}$ to $1\frac{1}{2}$ feet long, delicate but rather wiry. Leaves $1\frac{1}{2}$ to 4 inches long, 1/16 to $\frac{1}{4}$ inch wide, slightly rough on the upper surfaces, smooth on the lower, with tufts of long hairs at the sumits of the sheath. Flowering heads 2 to 6 inches long, rather delicate, with short branches and numerous spikelets, often reddish-purple.

Propagation:

By seeds. It grows quickly.

Local Occurrence:

Common in waste places, along roadsides and in lawns. Prefers sandy and limestone soils.



Family Name	: Gramineae
Scientific Name	: Miscanthus floridulus Labill
Common Name	: Swordgrass, Sawgrass
Local Name	: Neti

A large, evergreen, perennial grass, up to 9 feet high. Leaves finely toothed about 1 inch wide, pale glaucous green, above pubsescent near base. Inflorescence paniculate, about 1²/₃ feet long, white at maturity. Spikelets in pairs, one sessile, one pedicellate.

Propagation:

Mostly by short rhizomes.

Local Occurrence:

Usually on volcanic hills throughout southern Guam, rare and local on limestone soils.



Family Name	: Gramineae
Scientific Name	: Panicum maximum Jacq.
Common Name	: Guinea Grass

A tall, vigorous, tufted, perennial grass, up to 12 feet high, in large bunches with very short, thick rootstalks. Stems stout, somewhat flattened, nodes hairy. Leaves linear finely pointed, 6 to 30 inches long, ½ to 1 inch wide, usually erect, yellowish-green, very rough on the edges and usually with long stiff hairs at the base on the upper sides. Flowering heads 9 to 20 inches long, 3 to 6 inches wide, with stiff ascending branches 4 to 8 inches long. Spikelets awnless, alike, symmetrical.

Propagation:

By seeds and short rhizomes.

Local Occurrence:

Common in cultivated areas and along roadsides. Often rather weedy, especially in ditches.

Note: Withstands long periods of drought. Young plants are palatable and nutritious. Therefore, they are used as forage.



Family Name	: Gramineae
Scientific Name	: Paspalum conjugatum Berg
Common Name	: T-grass, Sour Paspalum

An extensively creeping, stoloniferous, perennial grass. Stolons leafy, rooting at the nodes often reddish - purple. Leaves lanceolate, acute, 2 to 5 inches long, 1/4 to 1/2 inche wide, pale yellow green. Flowering stems 5 to 10 inches long, erect from the creeping base, with two spreading racemes forming a typical T-shape inflorescene. Spikelets flat, silky-hairy on the edges.

Propagation:

By seeds and stolons. It spreads rapidly.

Local Occurrence:

Found in cultivated areas and lawns.



Family Name	: Gramineae
Scientific Name	: Pennisetum polystachyon (L.) Schultes
Common Name	: Mission Grass, Foxtail

A tufted annual or perennial grass, 3 to 5 feet high. Leaves narrow, 12-14 inches long, about ¼ inch wide, smooth to hairy. Flowering heads a dense spike, yellow-brown, 2 to 10 inches long, ½ to 1 inch wide. Spikelets alike but surrounded by numerous bristles and falling from the spike with bristles attached.

Propagation:

By seed and stolons.

Local Occurrence:

Found in most dense savannah but can also be found growing in sparse patches along many roadsides.



Family Name	: Gramineae
Scientific Name	: Phragmites karka (Retz.) Trin.
Common Name	: Reed
Local Name	: Karriso

An erect, strongly tufted, robust, aquatic or subaquatic, perennial grass, with creeping stolons. Stems 9 to 12 feet high, simple or branches. Leaves coarse, sword-shaped with a broad base and an acute tip up to 22 inches long and $1\frac{1}{2}$ inches wide. Flowering head green at first, but maturing to a light brown color, a long oblong panide 8 to 28 inches long, with a robust central axis and with wide-spreading alternate, roughened, threadlike, nodding branches.

Propagation:

A vigorous, branched rhizome system that runs quickly to new areas in either the water or the substrate.

Local Occurrence:

Grows in thick pure stands on swamp lands and wet lands.



Family Name	: Gramineae
Scientific Name	: Saccharum spontaneum L.
Common Name	: Wildcane

A tall perennial grass, in habit much like the cultivated sugar cane but somewhat more slender. Stems stout, erect. Leaves narrow, pale green. Flower a large, silvery plume-like inflorescene, hairy penduncles and very fragile rachises.

Propagation:

By short rhizomes and stem cuttings.

Local Occurrence:

Found commonly along roadsides.



Family Name	: Gramineae
Scientific Name	: Sorghum halepense (L.) Pers.
Common Name	: Johnson Grass

An aggressive perennial grass. Stems erect, stout, ½ to 9 feet high, arising from extensively creeping rhizomes. Leaves narrow, 6 to 20 inches long, ¼ to ¾ inch wide, alternate, smooth or rough on the edges, many-nerved, with conspicuous midribs. Flowering head a spreading panicle, purplish, hairy, 6 to 12 inches long, 1 to 3 inches wide. Spikelets pale to deep purple, laceolate, 1/5 to ¼ long.

Propagation;

By seeds and short rihzomes.

Local Occurrence:

A very common weed found in all areas. Prefers well-drained soil. A problem weed in cultivated areas and along roadsides.

Note: Useful as forage, but at times poisonous to stock due to the accumulation of prussic and selenium.



Family Name	: Gramineae
Scientific Name	: Sporobolus poiretii (Roem. & Schult.) Hitchc.
Common Name	: Smutgrass

A perennial grass. Stems erect, solitary or in small clumps, 1 to $3\frac{1}{2}$ feet high. Leaves flat or with edges rolled partly inward, rather firm, 1/10 to 1/4 inch wide at base, long, tapering to a fine point. Flowering heads a panicle, usually spikelet but more or less interrupted, 3 to 6 inches long, the branches of the inflorescence lying against the main axis or ascending. Spikelets about 1/16 inch long.

Propagation:

By seeds.

Local Occurrence:

Found in moist areas especially in lawns.



Family Name	: Gramineae
Scientific Name	: Stenotophrum secundatum (Walt.) Kuntaz
Common Name	: St. Augustine Grass, Buffalo Grass

A perennial grass with creeping runners, rooting at the joints. Stems branched, pale green at the base, flattend, the flowering ones somewhat upright, 4 to 12 inches long. Leaves stiff, usually rather leathery, short, broad and rounded at the tips. Flowering heads spikelike, flat, single at the tips of the stems with the spikelets sunken in the corky axis.

Propagation:

By stolons.

Local Occurrence:

It is particularly tolerant to salt. Thrives in dry, open and shaded areas. A weed in lawns and wasteland.



Family Name	: Leguminosae
Scientific Name	: Alysicarpus vaginalis (L.) DC.
Common Name	: Alysicarpus, One-Leaved Clover

A more or less prostrate, broad-leaf, perennial plant. Stems numerous, jointed, with stiff hairs, under favorable conditions stems may become 1 or 2 feet long. Leaves somewhat dimorphic, the proximal elliptic, the distal narrow, lanceolate, simple, rounded at tips, obtuse, or truncate at the base, with short petioles. Flowers reddish-purple, in terminal racemes, 1/8 inch long, corolla pea-shaped. Pods about 34 inch long, cylindrical, rugose, jointed. Seeds usually 5-7, oblong-oval, dark brown.

Propagation:

By seeds.

Local Occurrence:

Usually found in lawns, by roadside ditches and in waste areas.



Family Name	: Leguminosae
Scientific Name	: Leucaena leucocephala Lam.
Common Name	: Tangantangan

A small, thornless, shrub or upright tree, 10 to 30 feet high. Leaves opposite, compound, bipinnate, about 20 paried leaflet. Flower white, in globular heads, axillary from branch end, on long stalks. Pods flat, 4 to 6 inches long, 15 to 20 seeds. Seeds glossy brown, ovla-oblong, flattish.

Propagation:

By seeds.

Local Occurrence:

It is fast-growing, tolerates disturbed habits, preferring limestone soil. Hence it is found more abundant in central and northern Guam than in southern Guam.

Note: It can be used as forage due to high protein content in the leaves and stems. However, it contains a chemical "Mimosine" which can cause loss of hair in nonruminant animals. It is a good source of wood for charcoal and of leaves for green manure.



Family Name	: Leguminosae
Scientific Name	: Mimosa pudica L.
Common Name	: Sensitive plant, Sleeping Grass

A prostrate, creeping, broad-leaf, perennial plant. Stems reddishbrown, with interstipular thorn and scattered prickles on internode. Leaves compound, having 12 to 25 paired leaflets that fold together if touched. Flowering heads pinkish, ovid about 0.5 inch in diameter. Seed pods flat and prickly.

Propagation:

By seeds. Bristles on seed pod can stick to fur of animals or to clothing and be dispersed.

Local Occurrence:

Very common in cultivated areas, lawns and waste lands.

Note: The sleeping movement of Mimosa is due to a rapid depletion of water from leaf tissues.



Family Name	: Leguminosae
Scientific Name	: Sesbania cannabina (Retz.) Pers.
Common Name	: Sesbania

A small, slender, annual shrub, about 3 feet high. Leaves are large compounded, having 30-40 blunt, graying-green leaflets. Flowers rather small, pale yellow about 3/8 inch long. Pods slender, curved, round in section, pendant, slightly constricted between the seeds. Seeds numerous, small.

Propagation:

By seeds.

Local Occurrence:

Mostly found along roadsides.



Family Name	: Lobeliaceae
Scientific Name	: Laurentia longiflora I
Common Name	: Star-of-Bethlehem

A low growing, broad-leaf, perennial plant, 1 to 2 feet high with few or no branches. Leaves dark green, rosette, sessile, sharply lobed. Flowers white, erect, starlike, borne singly at leaf axis. Fruits a nodding capsule about $\frac{1}{2}$ inch long. Seeds many, ovate, light brown, minute.

Propagation:

By seeds.

Local Occurrence:

Found in cultivated lands, roadsides and in waste places.

Note: The plant has an abundance of milky sap which may cause blindness if it gets in the eyes.



Family Name	: Malvaceae
Scientific Name	: Sida acuta Burmann
Common Name	: Sida
Local Name	Escobilla Papago, Escobilla Adumelon

A low growing, slender, annual shrub, about 3 feet high. Leaves laceonate or linear-lanceolate, acute, obtuse or rounded at base, sharply serrate, light green beneath. Flowers 1 or 2 in axils, yellow.

Propagation:

By seeds.

Local Occurrence:

Commonly found in waste grounds and along roadsides.



Family Name	: Oxalidaceae
Scientific Name	: Oxalis corniculata L.
Common Name	: Yellow Wood-Sorrel
Local Name	: Agsom, Apsom

A creeping, broad-leaf, anual or perennial plant, 1 feet or more in hight. Leaves clovelike, digitately trifoliate, long petioles and round leaflets. Flowers yellow, 1 to 5 arranged in umbels. Fruits an oblong capsule containing about 20 small brown seeds.

Propagation:

By seed and by creeping stolons.

Local Occurrence:

Commonly found in lawns and waste lands.



Family Name	: Passifloraceae
Scientific Name	: Passiflora foetida L. var. hispida
Common Name	: Love-in-a-mist, Scarlet-fruited Passion Flower
Local Name	: Kinahulo Atadao

A smooth, broad-leaf, perennial plant, vine trailing and climbing with tendrils. Leaves 1 to 1 ½ inches long, blade cut halfway down three times, heart-shaped at the base, surface uneven, velvety, venation distinct. Flowers solitary, axillary, white and purple flowers up to 2 inches in diameter. Fruits orange, ¾ inch in diameter, roung rind of 3 or 4 sections. Seeds flat, numerous.

Propagation:

By seeds.

Local Occurrence:

Grows well on both volcanic and limestone soils. Commonly seen in waste areas and along the roadsides.



Family Name	: Polygonaceae
Scientific Name	: Antigonon leptopus Hooker & Arnott
Common Name	: Chain-of-Love, Love Vine
Local Name	: Cadena de Amor

A broad-leaf, trailing vine with tendril, perennial plant. Leaves angular, textured, broadly ovate, 1 ¼ to 3 inches long, simple, usually undulate leaves. Flower red, pink or white in many-flowered racemes. Fruit an achene.

Propagation:

By underground tubers.

Local occurrence:

Commonly found along roadsides.



Family Name	: Portulacaceae
Scientific Name	: Portulaca oleracea L.
Common Name	: Purslane, Pigweed
Local Name	: Botdologas, Bodulagas, Donkulu

Entire plant showing fleshy stems, prostrate, broad-leaf, annual. Stems juicy, smooth, often reddish, either completely prostrate or turned up at the ends, sometimes forming mats 1 foot or more in diameter. Leaves alternate or clustered, simple, juicy, and smooth. Flowers small, yellow, in axils of leaves and branches. Seeds small, flattened, broadly oval, glossy black.

Propagation:

By seeds. Each plant produces hundreds of seed.

Local occurrence:

Very commonly found in cultivated ares, waste places and in lawns. The fleshy stems and leaves make this weed drought-resistant, difficult to kill.



Family Name	:	Solanaceae
Scientific Name	:	Physalis peruviana L.
Common Name	:	Poha, Cape Gooseberry

A partially erect, spreading shrub, woody at the base, 1 to 3 feet high. Leaves scattered, soft, ovate or heart-shaped. Flowers axillary, solitary, bell-shaped, pale yellow with purple blotches within calyx becomes large, bladderlike and dry, loosely enclosing the fruit. Fruit a berry, globular, yellow, about ³/₄ inch in diameter. Seeds small, in jucy pulp, flesh partly acidic, juicy, with pleasing flavor.

Propagation:

By seeds.

Local occurrence:

Common on open mountain slopes. A weed in cultivated areas.



Family Name	: Verbenaceae
Scientific Name	: Stachytarpheta indica L. (=Dysvhyystphrys jamaicensis L.)
Common Name	: Jamaica Vervain, False Verena

An erect, sparesely-branched, perennial plant, 1 to 6 feet high. Leaves opposite, slightly hairy or smooth, pale green ablong ovate, serrate, contracting at base into short leafstalks. Flowers pale violet, numerous on green elongated, terminal spikes, 2 to 3 opening at a time. Fruits small, 2-seeded.

Propagation:

By seeds.

Local occurrence:

Commonly found in cultivated areas, waste places and roadsides.



Family Name	: Verbenaceae
Scientific Name	: Stachytarpheta urticaefolia (Salisb.) Sims.
Common Name	: Nettled-Leaved Vervain

A perennial, woody herb or small shrub, branched. Stems smooth, 1 to 4 feet high. Leaves ovate, wedge-shaped, sharply pointed at the tip, serrate, 1 to 2 inches long. Flower blue, sessile, about 3/16 inch long, borne on slender spike 6 to 12 inches long. Fruits a nutlet in a drupe, enclosed by a persistent calyx.

Propagation:

By seeds.

Local occurrence:

Found in waste areas and cultivated lands.

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Gomphrena dispers	o Standley	 	 		.,	ě.	 è			i.	1	4		 ŝ		i.	4
Gomphrena serrata	L	 ÷	 1.	+			 ŝ	5				ŝ	2	ŝ	÷		4

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Ipomoea pescaprae (L.) Roth			 +					÷	ė,	i.			÷	÷			d,	. 1	4
Ipomoea triloba L		+	 ÷	÷	 ÷	i,	i	ł,	i,	÷	5		ŝ	ė)	ġ	ų,	ų.	, 1	5

Cucurbitacea

Momordia charantia L	
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Cyperaceae

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Cyperus liqularis L	 3
Cyperus polystachyos Rottboell	 1
Cyperus rotundus L)

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Cynodon dactylon (L.) Pers
Dactyloctenium aegyptium (L.) Richt
Digitaria sanguinalis (L.) Scop
Digitaria violascens Link
Echinochloa colonum (L.) Link
Eleusine indica (L.) Gaertn
Eragrostis tenella (L.) Roem. & Schult
Miscanthus floridulus Labill
Panicum maximum Jacq
Panicum purpurascens Raddi
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