

## War of the Weeds

Some folks call them weeds, to others they're just a plant growing where it's not wanted. They seem to sprout overnight and can outgrow the plants you pamper in a heartbeat. Recent rains have prompted vigorous growth. Left unchecked they can steal water and nutrients from neighboring plants. Where do they come from? How can they be controlled so they don't take over your yard? Read on for tips on controlling these pesky invaders.

Weed seeds arrive in your yard either by wind or carried in by birds. They could be brought in with yard equipment, grass seed, organic soil amendments or 'hitch' a ride on shoes, clothing or even on the fur of pets.

The two basic groups of weeds are *grasses* and *broadleaf* weeds. Control methods will differ depending on which type you are dealing with. Some herbicides target only broadleaf weeds, while others may affect both types.

### Grass Type Weeds



*Crabgrass*



*Bermudagrass*

#### Characteristics

- Veins in the leaves don't cross over each other = parallel veins.
- Leaves are generally long and narrow.



*Nutgrass / nutsedge*



*Johnson grass*

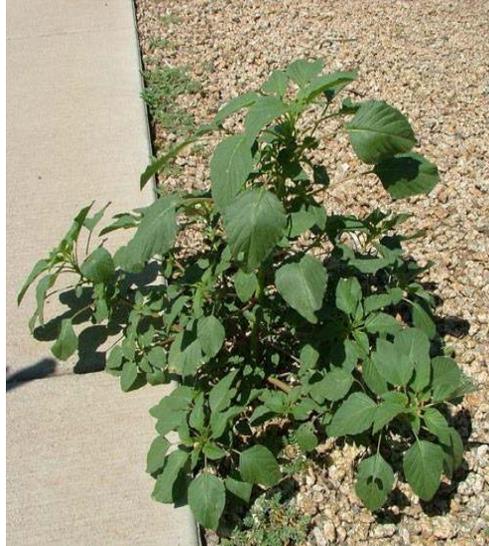


*Foxtail*

## Broadleaf Weeds



*Puncture Vine*



*Pigweed*



*Cheese Weed*



*Bur Clover*

### Characteristics

- Veins in the leaves cross over each other or intersect.
- Leaves are generally oval or wide.



*London Rocket*

Some weeds sprout from seeds and grow, flower, produce seed and die within one season. These are referred to as *Annual* weeds. *Perennial* weeds can live for several years and may be harder to control.

### Control

If you only have a few weeds in a relatively small area, mechanical removal is often the most desirable. This can be accomplished with sharp hoes, shovels, or hand pulling. C'mon, this is good exercise - therapeutic even. If applications of herbicides are warranted, it is important to select one that will target the weed you are dealing with and not harm surrounding vegetation. If you use grass killer on the crabgrass or nutsedge growing in your hybrid Bermuda lawn, it won't discriminate and will kill all grass it contacts. A broad-spectrum herbicide may kill anything green it touches.

**In gravel areas** both annual and perennial weeds can be controlled with the application of a **post-emergent** herbicide. Post-emergent meaning it controls weeds that have already sprouted and are growing. The most common products for this application contain Glyphosate or Glufosinate as active ingredients listed on the label. These herbicides work by translocating the product through the leaves to the roots where they interfere with the growth process. The best control is accomplished when applied to young plants. Both these products are non-selective, meaning they will kill any growing vegetation, both grass and broadleaf plants.

**In lawn areas** the best weed control is a healthy lawn. Turf will out-compete most weeds and regular mowing will remove the growing tips of the weeds. Any chemical weed control should be practiced only on well established lawns as newly installed or seeded lawns are often injured by weed control agents. Spot treatment with Glyphosate is effective especially in dormant winter Bermuda lawns.

**Pre-emergents** work very well in preventing weed seeds from sprouting and work best in gravel areas. Do not use a pre-emergent if you plan to establish a Bermuda grass lawn by seeding. The same is true in the fall if you overseed your hybrid Bermuda or Bermuda grass lawn - it will prevent the winter rye grass seeds from sprouting! Many pre-emergents are available from your local nursery or home improvement store. For example, one common pre-emergent herbicide has a chemical name of: 3, 5-dinitro-N<sub>4</sub>, N<sub>4</sub>-dipropylsulfanilamide and has the chemical name is oryzalin. Ask the sales staff for assistance if you are unsure which product is a pre-emergent. Other brand names you might find include Weed Stopper, Weed and Grass Preventer, Weed Preventer, Surflan, Barricade and Amaze. Apply twice a year in March or April for summer weeds and September for control of winter weeds.

Many homes in Chandler are built on old irrigated agricultural fields where nut sedge is sometimes a problem. For control of nut sedge (nut grass) in lawns, several applications of the products that contain imazaquin (Image), Trifloxysulfuron (Monument) or halosulfuron (Manage or Sedgehammer) from July through September will provide effective control. Some follow-up may be necessary.

**Caution:** Some products are labeled **total or complete vegetation killers**. These products kill existing vegetation, but can persist in the soil for many years and leach into surrounding areas seriously affecting or killing plants there. If you have an area in your yard where nothing will grow, a total vegetation killer or soil sterilant may have been applied there in the past.

Be careful when using products that contain 2-4-D. They are designed to be applied when the temperatures are below 80 degrees or so. On warm days, this product volatilizes (turns to a gas) and can cause damage to surrounding vegetation as it drifts through the air.

Remember! Always follow label directions exactly! We sometimes think if a little is good, more is a whole lot better. The average homeowner applies **9 times** more chemicals to their property than a farmer does on the same size land. With herbicides and insecticides, this can be deadly - to plants, pets and humans. Wear protective clothing and avoid skin contact with the product.

Common broadleaf weeds: Desert broom, purslane, goosefoot, pigweed, puncture vine, London rocket, bur clover, cheese weed, tumbleweed (Russian thistle), purple nightshade, prostrate spurge.

Common grass type weeds: crabgrass, Bermuda grass, nutgrass / nutsedge (not really a grass), brome grass, orchard grass, common foxtail.

For more information on weeds use the on-line reference <http://ag.arizona.edu/urbanipm/weeds> and <http://ag.arizona.edu/urbanipm/weeds/weedcontrol.html>

***Be sure to visit the City of Chandler Water Conservation web pages for free landscape workshops, landscaping tips, rebates, frequently asked questions and more.***  
[www.chandleraz.gov/water](http://www.chandleraz.gov/water)

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