Pendulum[®] 3.3 EC Herbicide

FOR USE IN TURFGRASSES, ORNAMENTALS, LANDSCAPE OR GROUNDS MAINTENANCE, AND NONCROPLAND AREAS

Active Ingredient:

pendimethalin, N-(1-ethylpropyl)-3,4-dimethyl-2, 6-dinitrobenzenamine	37.4%
Other Ingredients*:	62.6%
Total:	100.0%

(1 gallon contains 3.3 lbs of pendimethalin)

EPA Reg. No. 241-341

EPA Est. No.

CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside for additional First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:



^{*} Contains petroleum distillates

FIRST AID			
If in eyes	 Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. 		
If swallowed	 Immediately call a poison control center or doctor. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT GIVE ANY LIQUID TO THE PERSON. DO NOT give anything by mouth to an unconscious person. 		
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 		
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. 		
HOT LINE NUMBER			
In case of emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).			
NOTE TO PHYSICIAN			
This	This product may pose an aspiration pneumonia hazard. Contains petroleum distillates.		

Precautionary Statements

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

CAUTION

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing.

Personal Protective Equipment (PPE) NON-WPS USES:

Applicators and other handlers (except mixers/loaders) who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) - in general, only agricultural-plant uses are covered by the WPS -must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as nitrile rubber (≥ 14 mils)
- Shoes plus socks

Mixers and loaders must wear:

- Long-sleeved shirt and long pants, or coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils
- Shoes plus socks
- Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

WPS USES:

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for **Category F** on an EPA chemicalresistance category selection chart. Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) - in general, agricultural-plant uses are covered - must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils
- Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240)(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.
 Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is toxic to fish. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

ENDANGERED SPECIES PROTECTION

If endangered plant species occur in proximity to the application site, the following mitigation measures are required:

If applied by ground, leave an untreated buffer zone of 200 feet. The product must be applied using a low boom (20 inches above the ground) and ASAE fine to medium/coarse nozzles.

To determine if your county has an endangered plant species, consult the website http://www.epa.gov/espp/usa-map.htm.

Endangered Species Bulletins may also be obtained from extension offices or state pesticide agencies. If the bulletin is not available for your specific area, check with the appropriate local state agency to determine if known populations of endangered plant species occur in the area to be treated.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at time of herbicide application.

DO NOT apply this product through any type of irrigation system.

DO NOT apply by aerial methods.

DO NOT apply **Pendulum® 3.3 EC herbicide** in greenhouses, shadehouses or other enclosed structures. BASF Agricultural Solutions US LLC (hereafter "BASF") does not recommend or authorize the use of this product in manufacturing, processing or preparing custom blends with other products for application to turf or ornamentals.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **24 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils.
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are **NOT** within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

DO NOT enter or allow others to enter the treated area until sprays have dried.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL OR CROP INJURY.

Storage and Disposal

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: DO NOT STORE BELOW

40° F. Extended storage at temperatures below 40° F can result in the formation of crystals on the bottom of the container. If crystallization does occur, store the container on its side at room temperature (70° F) and rock occasionally until crystals redissolve.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Observe all cautions and limitations on this label and the labels of products used in combination with

Pendulum® 3.3 EC herbicide. The use of Pendulum 3.3 EC not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

General Information

Pendulum 3.3 EC provides preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any turfgrass site (lawns, sod, turf areas). Examples of such sites include but are not limited to: grounds or lawns around residential and commercial establishments, multifamily dwellings, military and other institutions, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, prairiegrass areas, and sod farms.

Pendulum 3.3 EC can also be used in and around field-, liner-, and container-grown ornamental nurseries; established landscape ornamentals and ornamental gardens; listed groundcovers; nonbearing fruit and nut trees; conifer

and hardwood seedling nurseries; and for tree plantation site preparation and maintenance.

In addition, **Pendulum 3.3 EC** can be applied for general grounds maintenance around areas such as parking lots, driveways and roadsides, alleyways, bike and jogging paths, vacant lots, buildings, stone gardens and gravel yards, markers and fence lines, mulch beds and other similar areas. It may be used under asphalt or concrete treatments as part of a site preparation program.

Pendulum 3.3 EC is recommended for preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any noncropland area such as railroad, utility, highway, and pipeline rights-of-way; highway guardrails, delineators, and sign posts; bridge abutments and approaches; utility substations; petroleum tank farms; pumping installations; storage areas; fence rows; windbreaks and shelterbelts; paved or gravel surfaces; and other similar areas where weed control is desired.

Pendulum 3.3 EC controls weeds as they germinate but will not control established weeds. Therefore, areas to be treated should be free of established weeds. For the control of established weeds, **Pendulum 3.3 EC** may be used in conjunction with herbicides registered for postemergence use. Consult the labels of those herbicides for use rates, timings, and precautions or restrictions.

Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

The efficacy of **Pendulum 3.3 EC** will improve if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 3.3 EC** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Applied according to label directions and under normal growing conditions, **Pendulum 3.3 EC** or **Pendulum 3.3 EC** tank mix combinations will not cause crop injury. Overapplication can result in crop stand loss, crop injury, or soil residues. Uneven application can decrease weed control or cause crop injury. Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants and increase the possibility of plant damage from **Pendulum 3.3 EC**.

Pendulum 3.3 EC may cause temporary discoloration of sprayed surfaces. Rinse immediately to avoid staining. Spray colorants or dyes can be added to alter the color of the spray solution to match the treated surfaces.

MIXING INSTRUCTIONS FOR PENDULUM 3.3 EC

Respective sections of this leaflet define recommended **Pendulum 3.3 EC** or **Pendulum 3.3 EC**-registered tank mix treatments.

Ground Driven Sprayer:

1. Fill tank one-half to three-quarters full with clean water.

- 2. Add **Pendulum® 3.3 EC herbicide** to the partially filled tank while agitating and then fill the remainder of the tank with water.
- MAINTAIN CONTINUOUS AGITATION WHILE ADD-ING PENDULUM 3.3 EC AND UNTIL SPRAYING IS COMPLETED. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential before spraying is resumed. Continue agitation while spraying.
- 4. If **Pendulum 3.3 EC** is to be used in tank mixtures with other registered herbicides, follow directions on the labels of those products which recommend tank mixing.

Backpack Sprayer: Begin with a clean spray tank. Fill the spray tank one-half full with clean water and add the required amount of **Pendulum 3.3 EC** to the sprayer. Cap sprayer and agitate to ensure mixing. Uncap sprayer and finish filling tank to desired level. Cap sprayer and agitate once again. During application it is desirable to agitate the mixture on occasion to ensure mixing. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential before spraying is resumed.

Liquid Fertilizers: Prior to mixing, small quantities should always be tested using a simple jar test. Add the required amount of **Pendulum 3.3 EC** to half-filled spray tank while agitating then add the fertilizer product. Complete filling spray tank to desired level.

Dry Bulk Fertilizers: Pendulum 3.3 EC may be impregnated on dry bulk fertilizers. When applied as directed, **Pendulum 3.3 EC**/dry bulk fertilizer mixtures provide weed control equal to that provided by the same rates of **Pendulum 3.3 EC** applied in water.

MANAGING OFF-TARGET MOVEMENT

The following information is provided as general guidance for managing off-target movement. Specific use recommendations for **Pendulum 3.3 EC** may differ depending on the application technique used and the vegetation management objective.

Spray Drift: Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

It is the responsibility of the applicator to avoid spray drift onto nontarget areas.

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or nontarget crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind**, **Temperature and Humidity** and **Temperature Inversions**).

Controlling Droplet Size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure DO NOT exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift.
 DO NOT use nozzles producing a mist droplet spray.

Application Height: Making applications at the lowest possible height (aircraft, ground-driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind: Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential.

NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet

evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery, dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

SPRAYING INSTRUCTIONS FOR PENDULUM® 3.3 EC HERBICIDE

Apply with properly calibrated ground equipment in sufficient water per acre to provide uniform spray distribution (at least 40 gallons of water per acre). Low-pressure (e.g. 20 to 40 psi) sprayers are recommended. Maintain continuous agitation during spraying with good mechanical or bypass agitation. Check sprayer routinely to determine proper calibration. Avoid overlaps that will increase rates above those recommended. Avoid application when winds may cause drift.

Avoid unintentional contact of spray solution with driveways, stone, wood or other porous surfaces. Rinse immediately to avoid staining.

The efficacy of **Pendulum 3.3 EC** will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 3.3 EC** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

To prevent establishment of weeds along the edges of lawns, it may be necessary to overlap the spray three to six inches onto sidewalks or driveways, etc., to ensure effective application rates in these especially vulnerable sites. Where temporary discoloration of pavement is to be avoided, rinse immediately to avoid staining.

TURFGRASS TANK MIXES

Pendulum 3.3 EC can be mixed with postemergence herbicides to control emerged weeds in turfgrasses. For annual grass control, applications can be made with Acclaim® Extra or MSMA to control emerged weeds. Broadleaf weeds can be controlled using Trimec®, Three-Way™, 2,4-D, and other similar products.

Before tank mixing, a simple jar test is recommended to insure compatibility of herbicides.

Refer to manufacturers' labels for specific use directions, precautions, and limitations before tank mixing with **Pendulum 3.3 EC** and follow those that are most restrictive.

TURFGRASS PRECAUTIONS

Use on well-established turfgrass with a dense and uniform stand. On newly planted areas, application should not be made until the turfgrass has filled in and has been mowed at least four times. On turf that has been thinned or damaged due to winter injury, excessive moisture, etc., allow for turf recovery prior to making an application. Applications made to overseeded warm-season turfgrasses may cause thinning or injury of the overseeded species.

DO NOT use on greens or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last **Pendulum 3.3 EC** application. Delay sprigging turfgrass for five (5) months after application.

INDUSTRIAL (UNIMPROVED) TURF

Industrial, or unimproved, turf areas often have a different spectrum of weeds to be controlled than those found in fine turf, as described elsewhere in this leaflet.

Pendulum 3.3 EC will control annual grasses and broadleaf weeds mentioned in that section of this label as well as the following weeds that might germinate in established grasses in rights-of-way, roadsides, construction sites, parks, substations, lots, or similar areas:

Crowfootgrass, Itchgrass, Johnsongrass (from seed), Junglerice, Lovegrass, Browntop panicum, Texas panicum, Field sandbur, Signalgrass, Mexican sprangletop, Red sprangletop, Witchgrass, Woolly cupgrass, Carpetweed, Fiddleneck, Filaree, Kochia, Lambsquarters, Pigweed, Puncturevine, Florida pusley, London rocket, Shepherdspurse, Pennsylvania smartweed, Annual spurge, and Velvetleaf.

Apply before weeds germinate. A postemergence herbicide, such as 2,4-D, MSMA, or similar products, may be tank mixed to control established weeds. Apply according to label instructions for the respective products and follow the most restrictive wording.

TURFGRASSES				
Turfgrass Species	Weeds Controlled	PLICATION RATES FOR WEED CONTROL ¹ Rates of Pendulum [®] 3.3 EC herbicide	Comments	
COOL SEASON	GRASSES			
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	Barnyardgrass Crabgrass Evening primrose Fall panicum Foxtail Hop clover Knotweed Oxalis Poa annua Prostrate spurge Purslane	3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft. Initial application prior to weed germination in spring.	Apply a repeat application of 2.5 to 3.6 pts/acre (1 to 1.3 oz/1000 sq ft) after 5 to 8 weeks for extended control or where heavy weed infestations are expected.	
	Goosegrass	Residential ² Turf Uses Only: 3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft.	Apply a repeat application of 3.6 pts/ acre (1.3 oz/1000 sq ft) if the lower rate was used initially for extended goose-	
		Initial application prior to weed germination in spring.	grass control.	
		Commercial or Other Non-Residential Turf Uses: 3.6 to 7.2 pts/acre or 1.3 to 2.6 oz/1000 sq ft.		
		Initial application prior to weed germination in spring.		
	Chickweed Corn speedwell Cudweed Henbit Lawn burweed Poa annua	3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft.	Apply in late summer or early fall prior to weed germination.	
WARM SEASON	GRASSES			
Bahiagrass Bermudagrass Buffalograss	Barnyardgrass Crabgrass Evening primrose Fall panicum	Residential ² Turf Uses Only: 3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft. Initial application prior to weed germination in spring.	Apply a repeat application of 2.5 to 3.6 pts/acre (1 to 1.3 oz/1000 sq ft) after 5 to 8 weeks if necessary.	
Centipedegrass Fescue, tall Paspalum, seashore	Fail panicum Foxtail Hop clover	Commercial or Other Non-Residential Turf Uses: 3.6 to 7.2 pts/acre or 1.3 to 2.6 oz/1000 sq ft.	-	
St. Augustinegrass Zoysiagrass	Knotweed Oxalis Poa annua Prostrate spurge Purslane	Initial application prior to weed germination in spring.		
	Goosegrass	3.6 pts/acre or 1.3 oz/1000 sq ft.	An additional application of 3.6 pts/	
		Apply prior to weed germination in spring.	acre (1.3 oz/1000 sq ft) may be made for extended goosegrass control 8	
		Make a second application 6 to 8 weeks later.	weeks after the second application.	
	Chickweed Corn speedwell Cudweed Henbit Lawn burweed Poa annua	3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft.	Apply in late summer or early fall prior to weed germination.	

¹ **DO NOT** exceed a maximum of 4.8 pts/acre per application for use on residential turfgrass.

The efficacy of **Pendulum 3.3 EC** will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 3.3 EC** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

To prevent establishment of weeds along the edges of lawns, it may be necessary to overlap the spray three to six inches onto sidewalks or driveways, etc., to ensure effective application rates in these especially vulnerable sites. Where temporary discoloration of pavement is to be avoided, rinse immediately to avoid staining.

DO NOT exceed a maximum of 7.2 pts/acre per application for use on commercial or non-residential turfgrass.

² Residential is defined as turf in any residential situation, as well as schools, parks and playgrounds.

ORNAMENTALS

RECOMMENDED SPECIES

Pendulum® 3.3 EC herbicide sprays are safe around and over the top of the established plants listed below. However, not all varieties or strains of the plants listed have been tested. Unintentional consequences, such as crop injury, may result because of certain environmental or growing conditions, manner of use or application. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage prior to full scale application.

DO NOT apply **Pendulum 3.3 EC** in greenhouses, shadehouses or other enclosed structures.

Refer to **APPLICATION RATE TABLE** for rates.

GROUND COVERS		
Common Name	Scientific Name	
Ajuga	Ajuga reptans	
Capeweed	Arctotheca calendula	
Cinquefoil, spring	Potentilla verna	
Daisy, trailing African	Osteospermum fruticosum	
Gazania	Gazania splendens	
Iceplant, large leaf	Carpobrotus edulis	
Ivy, English	Hedera helix	
Ivy, Geranium	Pelargonium peltatum	
Jasmine, Asiatic	Trachelospermum asiaticum	
Jasmine, primrose	Jasminum mesnyi	
Mondograss	Ophiopogon japonica	
Myoporum	Myoporum parviflolium	
Pachysandra	Pachysandra terminalis	
Potentilla	Potentilla fruticosa	
Rose-Of-Sharon	Hypericum calycinum	
Wintercreeper	Euonymous fortunei	

PERENNIALS		
Common Name	Scientific Name	
Bleeding heart	Dicentra spectabilis	
Calla lily	Zantedeschia aethiopica	
Canna, common garden	Canna generalis 'Lucifer'	
Chincherinchee	Ornithogalum thyrsoides	
Crinum lily	Crinum spp.	
Fern, asparagus	Asparagus officinalis	
Fern, leatherleaf	Rumohra adiantiformis	
Freesia	Freesia x hybrida	
Heather, dwarf	Calluna vulgaris	
Hosta	Hosta spp.	
Lily	Lillium spp.	
Liriope, creeping	Liriope spicata	
Liriope, variegated	Liriope muscari	
Montbretia	Crocosmia crocosmiiflora	
Orchid, peacock	Acidanthera bicolor	
Peony, Chinese	Paeonia lactiflora	
Wisteria	Wisteria spp.	
Zephyr lily	Zephyranthes spp.	

ORNAMENTAL GRASSES			
Common Name	Scientific Name		
Beach brass	Ammophila breviligulata		
Fescue, blue	Festuca ovina		
Fescue, sheep	Festuca ovina		
Fountain grass	Pennisetum setaceum		
Pampas grass	Cortaderia selloana		
Reed canary grass	Phalaris arundinacea		
Reed, giant	Arundo spp.		
Ribbon grass	Phalaris arundinacea		
Tufted hair grass	Deschampsia caespitosa		

TREES		
Common Name	Scientific Name	
Alder, European black	Alnus glutinosa	
Apple	Malus spp.	
Arborvitae, American	Thuja occidentalis	
Arbutus	Arbutus spp.	
Ash, red	Fraxinus pennsylvanica	
Ash, white	Fraxinus americana	
Aspen, bigtooth	Populus grandidentata	
Aspen, quaking	Populus tremuloides	
Basswood	Tilia spp.	
Birch, European weeping	Betula pendula	
Birch, river	Betula nigra	
Buckeye, red	Aesculus pavia	
Cedar, white	Thuja occidentalis	
Chamaecyparis, boulevard	Chamaecyparis pisifera	
Cherry, black	Prunus serotina	
Cherry, choke	Prunus virginiana	
Cherry, Kwanzan	Prunus virginiaria Prunus serrulata	
3.	Prunus serruiata Prunus tomentosa	
Cherry, Nanking Cottonwood	Prunus tomentosa Populus deltoides	
Crabapple Crapa Murtin	Malus spp.	
Cryptomoria Japanese ander	Lagerstroemia indica	
Cryptomeria, Japanese cedar	Cryptomeria japonica	
Cypress, bald	Taxodium distichum	
Cypress, leyland	Cupressocyparis leylandii	
Dogwood, flowering	Cornus florida	
Dogwood, Korean	Cornus kousa	
Dogwood, shrub	Cornus spp.	
Dogwood, silky	Cornus amomum	
Elm	Ulmus japonica	
Fir, balsam	Abies balsamae	
Fir, Douglas	Pseudotsuga menziesii	
Fir, Fraser	Abies fraseri	
Fir, white	Abies concolor	
Franklinia	Franklinia spp.	
Ginkgo	Ginkgo biloba	
Gum, black	Nyssa sylvatica	
Gum, sour	Nyssa sylvatica	
Haw, black	Viburnum prunifolium	
Hawthorn	Crataegus spp.	
Hemlock, Canada	Tsuga canadensis	
Hemlock, Eastern	Tsuga canadensis	
Holly, American	llex opaca	
Honeylocust	Gleditsia triacanthos	
Lilac, common	Syringa vulgaris	
Lilac, Japanese tree	Syringa reticulata	
Linden	Tilia spp.	
Magnolia, saucer	Magnolia soulangiana	
Magnolia, Southern	Magnolia grandiflora	
Magnolia, star	Magnolia stellata	
Maidenhair tree	Ginkgo biloba	

Common Name Scientific Name Maple, Japanese Acer palmatum Maple, Norway Acer paltanoides Maple, red Acer rubrum Maple, sugar Acer saccharum Nannyberry, rusty Viburnum rufidulum Oak, Bive Quercus wirginiana Oak, pin Quercus rubra Oak, pin Quercus rubra Oak, water Quercus nigra Oak, water Quercus nigra Oak, willow Quercus phelios Olive Olea europaea Palm, date Phoenix spp. Palm, date Phoenix spp. Palm, date Phoenix spp. Palm, Mashington Washingtonia spp. Palm, Washington Washingtonia spp. Peach Prunus persica Pear, Bradford Pyrus calleryana 'Bradford' Peach Prunus persica Pear, Bradford Pyrus calleryana 'Bradford' Pear, Bradford Pyrus calleryana 'Bradford' Peach Pinus pinea Pine, Justina Pinus resinea	TREES			
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Poplar, black Redcedar, Eastern Juniperus virginiana Redcedar, Western Thuja plicata Red ironbark Eucalyptus sideroxylon 'Rosea' Redwood, dawn Metasequoia glyptostroboides Sequoia, giant Serviceberry Amelanchier laevis Sourwood Oxydendrum arboreum Spruce, Colorado blue Picea pungens Spruce, dwarf Alberta Picea glauca 'albertiana' Spruce, white Picea glauca Sweetgum Liquidambar styraciflua Sycamore Platanus occidentalis Trachycarpus Tulip Tree Liriodendron tulipifera Walnut, black Willow, weeping Salix babylonica	Plum, purple leaf	Prunus cerasifera		
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Red ironbark Redwood, dawn Metasequoia glyptostroboides Sequoia, giant Serviceberry Amelanchier laevis Sourwood Oxydendrum arboreum Spruce, Colorado blue Picea pungens Spruce, dwarf Alberta Picea glauca 'albertiana' Spruce, white Picea glauca Spruce, white Picea glauca Spruce, white Picea glauca Spruce, white Picea glauca Sueetgum Liquidambar styraciflua Sycamore Platanus occidentalis Trachycarpus Trachycarpus spp. Tulip Tree Liriodendron tulipifera Walnut, black Willow, weeping Sequoia glyptostroboides Requoia glyptostroboides Sequoia glyptostroboides Sequoia glyptostroboides Sequoia glyptostroboides Sequoia glyptostroboides Sequoia glyptostroboides Picea pungens Picea glauca Liquidambar styraciflua Sycamore Platanus occidentalis Trachycarpus spp. Tulip Tree Liriodendron tulipifera Walnut, black Juglans nigra	Redcedar, Western	Thuja plicata		
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Tulip Tree Liriodendron tulipifera Walnut, black Juglans nigra Willow, weeping Salix babylonica		-		
Tulip Tree Liriodendron tulipifera Walnut, black Juglans nigra Willow, weeping Salix babylonica	-	Trachycarpus spp.		
Walnut, black Juglans nigra Willow, weeping Salix babylonica				
Willow, weeping Salix babylonica				
	Willow, weeping			
		Cladrastis lutea		

SHRUBS		
Common Name	Scientific Name	
Abelia, glossy	Abelia grandiflora	
Aucuba, gold	Aucuba japonica	
Azalea	Rhododendron spp.	
Bamboo, heavenly	Nandina domestica	
Barberry	Berberis gladwynensis	
Barberry, Japanese	Berberis thunbergii	
Blue Indigo bush	Dalea gregii	
Bottlebrush, lemon	Callistemon citrinus	
Boxwood, common	Buxus sempervirens	
Boxwood, Japanese	Buxus microphylla	
Camellia	Camellia japonica	
Cape Jasmine	Gardenia jasminoides	
Cordyline	Cordyline spp.	
Correa	Correa spp.	
Cotoneaster	Cotrea spp. Cotoneaster apiculatus	
	Cotoneaster dammeri	
Cotoneaster, bearberry		
Cotoneaster, rock	Cotoneaster horizontalis	
Cypress, Italian	Cupressus sempervirens	
Cypress, leyland	Cupressocyparis leylandii	
Deutzia, slender	Deutzia gracilis	
Dogwood, red twig	Cornus sericea	
Elaeagnus	Elaeagnus ebbingei	
Escallonia	Escallonia fradesii	
Euonymus	Euonymus fortunei	
Euonymus, golden	Euonymus japonica	
Euonymus, winged	Euonymus alata	
Firethorn	Pyracantha coccinea	
Forsythia, border	Forsythia intermedia	
Fragrant olive	Osmanthus fragrans	
Fuschia, California	Zauschineria californica	
Gardenia	Gardenia jasminoides	
Hawthorne, Indian	Raphiolepis indica	
Hibiscus	Hibiscus syriacus	
Holly, Chinese	llex cornuta	
Holly, Fosters	llex attenuata 'Fosteri'	
Holly, Japanese	llex crenata	
Holly, Savannah	llex attenuata	
Holly, Yaupon	llex vomitoria	
Honeysuckle, bush	Diervilla Ionicera	
Juniper	Juniperus spp.	
Juniper, Chinese	Juniperus chinensis v. pfitzer	
Juniper, shore	Juniperus conferta	
Juniper, trailing	Juniperus horizontalis	
Laurel, Cherry	Prunus laurocerasus	
Laurel, mountain	Kalmia latifolia	
Laurel, Otto Luyken	Prunus laurocerasus	
Laaron, Otto Luynon	Prunus schipkanensis	
<u> </u>		
Laurel, Schipka		
<u> </u>	Viburnum tinus Lavandula angustifolia	

SH	IRUBS	
Common Name	Scientific Name	
_eucothoe, coast	Leucothoe axillaris	
Lilac, cut-leaf	Syringa laciniata	
Lily-of-the-Nile	Agapanthus africanus	
Mahonia	Mahonia aquifolium	
Mock orange	Pittosporum tobira	
Myrtle, compact	Myrtus communis	
Myrtle, wax	Myrica cerifera	
Nandina	Nandina domestica	
Oleander	Nerium oleander	
Oregon grape	Mahonia aquifolium	
Osmanthus	Osmanthus fragrans	
Palm, European fan	Chamaerops humilis	
Palm, Mediterranean fan	Chamaerops spp.	
Phlox, prickly	Leptodactylon californicum	
Photinia, Fraser	Photinia X Fraseri	
Pieris, Japanese	Pieris japonica	
Pine, Mugo	Pinus mugo	
Plum, Natal	Carissa grandiflora	
Privet, California	Ligustrum ovalifolium	
Privet, glossy	Ligustrum lucidum	
Privet, variegated	Ligustrum sinensis	
Privet, waxleaf	Ligustrum japonicum	
Pyracantha	Pyracantha coccinea	
Quince, flowering	Chaenomeles japonica	
Ranger, Texas	Leucophyllum frutescens	
Redroot	Ceanothus spp.	
Rhododendron	Rhododendron spp.	
Robira	Pittosporum tobiri	
Spice plant	Illicium parviflorum	
Spiraea	Spiraea vanhouttei	
Spiraea, Anthony Waterer	Spiraea X bumalda	
Spiraea, Japanese	Spirea japonica	
Sweet bay	Laurus nobilis	
Trumpet bush	Tecoma stans	
Verbena, lemon	Aloysia triphylla	
Viburnum	Viburnum suspensum	
Vitex	Vitex spp.	
Weigela	Weigela florida	
Wild lilac	Ceanothus spp.	
Xylosma	Xylosma congestum	
Yellowbells	Tecoma stans	
Yew*	Taxus media	
Yew, Japanese*	Taxus cuspidata	
Yew, Southern	Podocarpus macrophyllus	
Yucca, Adam's	Yucca filamentosa	
	. accaa.r.ornooa	

Applications should not be made during spring growth or injury to terminals may occur.

ORNAMENTAL INSTRUCTIONS AND RESTRICTIONS ¹		
Site	Application Instructions and Restrictions	
Newly transplanted field-grown nursery stock	DO NOT make over-the-top applications at time of field transplanting. Use shielded sprayer until plantings have been established for one (1) year or more in the field. DO NOT APPLY until transplants have been watered and soil has been thoroughly packed and settled around transplants. Care must be taken to ensure there are no cracks in the soil where Pendulum® 3.3 EC herbicide could come into contact with the roots. DO NOT APPLY during bud swell, bud break or at time of first flush of new growth. Direct sprays away from graphed or budded tissue on transplants at all times.	
Newly transplanted container-grown nursery stock	DO NOT APPLY until transplants have been watered and soil has been thoroughly packed and settled around transplants. Care must be taken to ensure there are no cracks in the soil where Pendulum 3.3 EC could come into contact with the roots. For container-grown ornamentals, delay first application of the product to bareroot liners for two (2) to four (4) weeks after transplanting. DO NOT APPLY during bud swell, bud break or at time of first flush of new growth. Direct sprays away from graphed or budded tissue on transplants at all times.	
Established container, field-grown nursery stock	 DO NOT APPLY during bud swell, bud break or at time of first flush of new growth. Apply as a directed or over-the-top spray. If newly budded or graphed rootstock, make an application using a shielded sprayer. Care must be taken to ensure there are no cracks in the soil where Pendulum 3.3 EC could come into contact with the roots. 	
Landscape plantings	DO NOT APPLY to newly transplanted ornamentals until plants have been watered and soil has been thoroughly packed and settled around roots. Apply as a directed or over-the-top spray. It is recommended to use the lowest labeled rate when making applications to annuals. Repeat applications can be made for extended landscape weed control.	
Bare ground for container placement	Apply to soil and water in (including mulch, gravel, wood chips, or other permeable base); replace containerized ornamentals onto pad.	
Greenhouses, shadehouses or other enclosed structures.	DO NOT APPLY in greenhouses, shadehouses or other enclosed structures.	
¹ Plant only those desirable plant species listed on this label into se	oil treated the previous season with Pendulum 3.3 EC or injury may occur.	

Pendulum® 3.3 EC herbicide may be used on plant species not listed on this label. The suitability for such uses should be determined by treating a small number of such plants at the recommended rate. Treated plants should be evaluated 1 to 2 months following treatment for possible injury. To the extent allowed by law, THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY. DO NOT treat plants grown for food or feed. DO NOT use treated plants for food or feed.

It is recommended that treated plants be evaluated for 1 to 2 months prior to making application to a large number of plants. To the extent allowed by law, **THE USER**ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY.

ORNAMENTAL TANK MIXES

Emerged weeds in ornamentals can be controlled using tank mixes containing **Roundup Pro®**, **FinaleTM**, **Ornamec®**, **GalleryTM**, **Princep®**, and other similar products. **DO NOT** apply sprays containing **Roundup Pro** or **Finale** over the top of ornamental plants. Before tank mixing, a simple jar test is recommended to insure compatibility of herbicides.

Refer to manufacturer's labels for specific use directions, precautions, and limitations before tank mixing with **Pendulum 3.3 EC**, and follow those that are most restrictive.

LANDSCAPE AND GROUND MAINTENANCE

Pendulum 3.3 EC can be incorporated into landscape and grounds maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds. Areas to be treated, such as mulch beds, parking areas and roadsides, fencelines and borders, around statuary or monuments, and similar areas, should be free of emerged weeds before application. To remove emerged weeds, either cultivate or tank mix **Pendulum 3.3 EC** with a postemergence product labeled for such use.

Refer to **APPLICATION RATE TABLE** for rates. Avoid unintentional contact of spray solution on stone, wood, or other porous surfaces as staining may occur. Rinse immediately to avoid staining.

NONBEARING FRUIT AND NUT CROPS AND VINEYARDS

Pendulum 3.3 EC may be applied for preemergence control of most annual grasses and certain broadleaf weeds on the following nonbearing crops:

Almond Citrus Olive Pistachio Apple Fig Peach Plum Apricot Grape Pear Prune Cherry Nectarine Pecan Walnut, English Refer to APPLICATION RATE TABLE for rates.

Apply the spray directly to the ground below the trees or vines. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of **Pendulum 3.3 EC** and roots. Directed sprays where soil and media surfaces are uniformly covered will result in best weed control and plant tolerance. For newly transplanted and one-year-old grapevines, apply only when they are dormant. **DO NOT** apply if buds have started to swell. **Pendulum 3.3 EC** may be used where the roots of a fruit, vine, nut, or ornamental plant encroach into a treatable area.

NONCROPLAND AREAS INCLUDING TREE PLANTATIONS

Pendulum 3.3 EC is recommended for grounds maintenance in noncropland areas; preemergence control of the weed species listed in and around established tree plantations (including Christmas trees); pulpwood and fiber farms; in and around established ornamentals planted in noncropland areas, such as highway rights-of-way, and utility substations. **Pendulum 3.3 EC** may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

Refer to **APPLICATION RATE TABLE** for rates.

Pendulum 3.3 EC may be applied at planting or to established trees. When making an application at planting, it is important that slit closure be achieved to prevent **Pendulum 3.3 EC** from directly contacting the tree roots, or being washed into the root zone via the open slit, or root stunting may occur.

For postemergence control of weeds, tank mix combinations of **Pendulum 3.3 EC** plus **Roundup Pro**, **Finale**, or other labeled herbicides are recommended. Refer to approved labeling for species recommendations. Recommended rates for the tank mix compounds should be determined from the product labels of both **Pendulum 3.3 EC** and partner herbicides prior to use.

Precaution must be exercised to prevent combination sprays from direct contact with desirable foliage or injury may result. Pendulum 3.3 EC plus diuron or simazine combinations will broaden weed control spectrum; however, use of combinations may restrict Pendulum 3.3 EC usage in sensitive areas. Refer to manufacturers' labels for specific use directions, precautions, and limitations before use, and follow those that are most restrictive.

TOTAL VEGETATIVE CONTROL

Pendulum 3.3 EC may be tank mixed with Arsenal®, Plateau®, Roundup Pro, Karmex®, Finale, Oust®, diuron, or other products to provide bare ground or total vegetation control. Pendulum 3.3 EC can be used to provide greater plant selectivity in areas where such action may be desired. Such sites might have roots of landscape vegetation, ornamentals, or desirable trees encroaching into the treated zone. Refer to tank mix partner labels regarding effects on desirable plants. DO NOT tank mix with Arsenal in California.

Applications may be made to existing weeds controlled by the partner herbicide. Recommended rates should be determined from the product labels prior to use. Follow the most restrictive label instructions.

For Kochia: Combinations of Pendulum® 3.3 EC herbicide with Arsenal® herbicide or diuron are recommended if control has been a problem for other herbicides.

APPLICATION RATES

For preemergence control of the weed species listed using broadcast spray equipment, apply **Pendulum 3.3 EC** at the following rates:

Length of Control	Quarts required to treat 1 acre	Ounces required to treat 1000 sq ft
Short Term (2 to 4 months)	2.4	1.8
Long Term (6 to 8 months)	4.8	3.6

Hand-held Spray Equipment: Use the table above to determine the amount of Pendulum 3.3 EC to be applied per 1000 square feet. The amount of water used for the application is not critical but should be sufficient for thorough coverage without runoff. Calibration of backpack or other hand-held equipment will vary with each operator. Determine the amount of water needed to treat 1000 square feet before mixing the spray solution. Follow mixing instructions discussed elsewhere on this label.

The efficacy of **Pendulum 3.3 EC** will improve if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 3.3 EC** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Pendulum 3.3 EC will not control established weeds.

If weeds should develop prior to activation of herbicide, shallow cultivate to destroy existing weeds or, where practical, remove by hand. When cultivating for any reason, it should be shallow. **Pendulum 3.3 EC** may be used in conjunction with herbicides registered for postemergence use (i.e. **Roundup Pro®** or **Finale®**) for the control of established weeds. **DO NOT** apply sprays containing **Roundup Pro** or **Finale** over the top of desirable plants. A **Pendulum 3.3 EC** treatment may be followed by any registered herbicide to control weeds not listed on the **Pendulum 3.3 EC** label.

WEED SPECIES CONTROLLED

Pendulum 3.3 EC is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals and to the sites listed on this label.

GRASSES CONTROLLED	
Common Name	Scientific Name
Barnyardgrass	Echinochloa crus-galli
Bluegrass, annual	Poa annua
Crabgrass	Digitaria spp.
Crowfootgrass	Dactyloctenium aegyptium
Foxtail, giant	Setaria faberi
Foxtail, green	Setaria viridis
Foxtail, yellow	Setaria glauca
Goosegrass	Eleusine indica
Itchgrass	Rottboellia exaltata
Johnsongrass (from seed)	Sorghum halepense
Junglerice	Echinochloa colona
Lovegrass (from seed)	Eragrostis spp.
Panicum, browntop	Panicum fasciculatum
Panicum, fall	Panicum dichotomiflorum
Panicum, Texas	Panicum texanum
Sandbur, field	Cenchrus incertus
Signalgrass	Brachiaria platyphylla
Sprangletop, Mexican	Leptochloa uninervia
Sprangletop, red	Leptochloa filiformis
Witchgrass	Panicum capillare
Woolly cupgrass	Eriochloa villosa

Carpetweed Chickweed, common Chickweed, mouseear Clover, hop Cudweed Evening primrose Fiddleneck Filaree Henbit Knotweed, prostrate Cochia Lambsquarters Purslane Purslane Purslane Pusley, Florida Rocket, London Shepherdspurse Spurge, annual Spurge, prostrate Mollugo verticillata Stellaria media Stellaria media Cerastium vulgatum Trifolium procumbens Cerastium vulgatum Cerastium vulgatum Trifolium procumbens Cenaphalium spp. Oenothera biennis Fiddleneck Amsinckia intermedia Erodium spp. Lamium amplexicaule Kochia kochia scoparia Chenopodium alvum Amaranthus spp. Tribulus terrestris Purslane Portulaca oleracea Richardia scabra Rolygonum pensylvanicum Speedwell, corn Veronica arvensis Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Common Name	Scientific Name
Chickweed, common Chickweed, mouseear Clover, hop Clover, hop Cudweed Clover, hop Clov	Burweed, lawn	Soliva pterosperma
Chickweed, mouseear Clover, hop Trifolium procumbens Cudweed Gnaphalium spp. Evening primrose Oenothera biennis Fiddleneck Amsinckia intermedia Filaree Erodium spp. Henbit Lamium amplexicaule Knotweed, prostrate Folygonum aviculare Kochia Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, corn Spurge, annual Spurge, prostrate Cerastium vulgatum Trifolium procumbens Cenopodium spp. Pundium aviculare Kochia scoparia Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Carpetweed	Mollugo verticillata
Clover, hop Clover, hop Cudweed Gnaphalium spp. Evening primrose Oenothera biennis Fiddleneck Filaree Henbit Lamium amplexicaule Knotweed, prostrate Kochia Lambsquarters Polygonum aviculare Kochia Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Tribulus terrestris Purslane Portulaca oleracea Pusley, Florida Richardia scabra Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, corn Spurge, annual Spurge, prostrate Coenothera biennis Amsinckia intermedia Erodium spp. Chamium amplexicaule Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Veronica arvensis Spurge, annual Euphorbia spp. Spurge, prostrate Woodsorrel, yellow Oxalis stricta	Chickweed, common	Stellaria media
Cudweed Evening primrose Oenothera biennis Fiddleneck Filaree Henbit Lamium amplexicaule Knotweed, prostrate Fochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Spurge, annual Spurge, prostrate Fiddleneck Amsinckia intermedia Erodium spp. Lamium amplexicaule Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Rocket, London Sisymbrium irio Capsella bursa-pastoris Spurge, annual Euphorbia spp. Spurge, prostrate Fuphorbia humistrata Woodsorrel, yellow Oxalis stricta	Chickweed, mouseear	Cerastium vulgatum
Evening primrose Oenothera biennis Fiddleneck Amsinckia intermedia Filaree Erodium spp. Henbit Lamium amplexicaule Knotweed, prostrate Folygonum aviculare Kochia Kochia scoparia Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Tribulus terrestris Purslane Portulaca oleracea Pusley, Florida Richardia scabra Rocket, London Sisymbrium irio Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Clover, hop	Trifolium procumbens
Fiddleneck Filaree Filaree Frodium spp. Henbit Lamium amplexicaule Knotweed, prostrate Kochia Lambsquarters Pelygonum aviculare Kochia scoparia Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Tribulus terrestris Purslane Portulaca oleracea Pusley, Florida Richardia scabra Rocket, London Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia humistrata Woodsorrel, yellow Amsinckia intermedia Folygonum aviculare Kochia scoparia Amaranthus spp. Tribulus terrestris Portulaca oleracea Portulaca oleracea Portulaca oleracea Portulaca oreracea Portulaca oreracea Portulaca oreracea Filaree Tribulus terrestris Portulaca oreracea Portulaca oreracea Portulaca oreracea Filaree Tribulus terrestris Tribulus terrestris Filaree Tribulus terrestris Tribulus terrestris	Cudweed	Gnaphalium spp.
Filaree Erodium spp. Henbit Lamium amplexicaule Knotweed, prostrate Polygonum aviculare Kochia Kochia scoparia Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Tribulus terrestris Purslane Portulaca oleracea Pusley, Florida Richardia scabra Rocket, London Sisymbrium irio Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Evening primrose	Oenothera biennis
Henbit Lamium amplexicaule Knotweed, prostrate Kochia Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Tribulus terrestris Purslane Pusley, Florida Rocket, London Sisymbrium irio Shepherdspurse Smartweed, Pennsylvania Speedwell, corn Spurge, annual Spurge, prostrate Woodsorrel, yellow Lamium amplexicaule Kochia scoparia Lambsquar album Amaranthus spp. Pribulus terrestris Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis Euphorbia spp. Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Fiddleneck	Amsinckia intermedia
Knotweed, prostrate Kochia Polygonum aviculare Kochia Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Tribulus terrestris Purslane Portulaca oleracea Pusley, Florida Rocket, London Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Spurge, prostrate Woodsorrel, yellow Polygonum aviculare Kochia scoparia Lenengodium album Amaranthus spp. Fortulaca oleracea Portulaca oleracea Pusley, Florida Bisymbrium irio Capsella bursa-pastoris Euphorbia bursa-pastoris Spurge, annual Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Filaree	Erodium spp.
Kochia Kochia scoparia Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Tribulus terrestris Purslane Portulaca oleracea Pusley, Florida Richardia scabra Rocket, London Sisymbrium irio Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Henbit	Lamium amplexicaule
Lambsquarters Chenopodium album Pigweed Amaranthus spp. Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, corn Speedwell, corn Spurge, annual Spurge, prostrate Chenopodium album Amaranthus spp. Portulaca oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis Euphorbia spp. Spurge, prostrate Euphorbia humistrata Oxalis stricta	Knotweed, prostrate	Polygonum aviculare
Pigweed Amaranthus spp. Puncturevine Tribulus terrestris Purslane Portulaca oleracea Pusley, Florida Richardia scabra Rocket, London Sisymbrium irio Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Kochia	Kochia scoparia
Puncturevine Purslane Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, corn Spurge, annual Spurge, prostrate Woodsorrel, yellow Portulaca oleracea Richardia scabra Richardia scabra Richardia scabra Richardia scabra Richardia scabra Sisymbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis Euphorbia spp. Euphorbia humistrata Oxalis stricta	Lambsquarters	Chenopodium album
Purslane Portulaca oleracea Pusley, Florida Richardia scabra Rocket, London Sisymbrium irio Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Pigweed	Amaranthus spp.
Pusley, Florida Rocket, London Sisymbrium irio Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Puncturevine	Tribulus terrestris
Rocket, London Sisymbrium irio Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Purslane	Portulaca oleracea
Shepherdspurse Capsella bursa-pastoris Smartweed, Pennsylvania Polygonum pensylvanicum Speedwell, corn Veronica arvensis Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Pusley, Florida	Richardia scabra
Smartweed, Pennsylvania Speedwell, corn Spurge, annual Spurge, prostrate Woodsorrel, yellow Polygonum pensylvanicum Veronica arvensis Euphorbia spp. Euphorbia humistrata Oxalis stricta	Rocket, London	Sisymbrium irio
Speedwell, corn Veronica arvensis Spurge, annual Spurge, prostrate Woodsorrel, yellow Veronica arvensis Euphorbia spp. Euphorbia humistrata Oxalis stricta	Shepherdspurse	Capsella bursa-pastoris
Spurge, annual Euphorbia spp. Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Smartweed, Pennsylvania	Polygonum pensylvanicum
Spurge, prostrate Euphorbia humistrata Woodsorrel, yellow Oxalis stricta	Speedwell, corn	Veronica arvensis
Woodsorrel, yellow Oxalis stricta	Spurge, annual	Euphorbia spp.
	Spurge, prostrate	Euphorbia humistrata
Velvetleaf (Buttonweed) Abutilon theophrasti	Woodsorrel, yellow	Oxalis stricta
	Velvetleaf (Buttonweed)	Abutilon theophrasti

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