

## Springtime Broadleaf Weed Control

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As spring approaches it becomes important to begin thinking about your turf weed control programs. Remember that the first step to controlling weeds is to identify which weeds are present on a site. Proper identification of the weed will assist with two things: 1) selecting the correct herbicide and 2) applying that herbicide at the right time in the weed's life cycle in order to maximize control.

If you are primarily dealing with annual broadleaf weeds (Tables 1a or 1b) then you can control these possibly with a preemergence herbicide (check the label of your crabgrass control product) or post emergence. The issue with using a preemergence herbicide is usually one of timing. For example, knotweed germinates in late March, before we recommend application of preemergence herbicides. Late germinating weeds, such as oxalis, germinate very late, after most preemergence products have lost effectiveness.

However, the preemergence herbicide will provide some defense. Always check the label and remember to target the application for crabgrass control, making the application sometime in April when Forsythia are in bloom. If you have some breakthrough then post emergence products are very effective. However, you will want to target the weeds early in their life cycle, before they have the chance to set

seeds that will become next year's infestation.

Use tables 1c and 1d to determine if you have perennial broadleaf weeds and when the most appropriate time to control them is. Usually fall time applications are recommended for perennial broadleaf control. If you make a springtime application (and most do for obvious reasons) then know that this is going to be effective probably for 60-90 days depending on the product used and the rate applied. Broadleaf weeds, whether new or regrowth from below ground structures on the surviving original weeds, will reappear.

Fall applications tend to result in longer term control due to more complete translocation into below ground weed parts. If you see weeds this fall, consider making an application with an ester formulation of an herbicide recommended in Table 2.

After determining your target weeds then use table 2 to select the best herbicide for the application. Table 3 includes a list of combination herbicides which are commonly applied in order to broaden the spectrum of control on sites with multiple weeds species. Always read the label prior to use of a herbicide. Be particularly mindful of the reseeding interval if any renovation work is planned, susceptible weed species and the site and or use restrictions

## Table 1a. Annual Broadleaf Weeds



Black medic - *Medicago lupulina*  
(Stem on end leaf distinguishes from white clover)



Mallow - *Malva rotundifolia*  
(Has a central taproot and does not root at the nodes)



Corn Speedwell - *Veronica arvensis*



Knotweed - *Polygonum aviculare*  
(Sometimes confused with crabgrass when first emerging)



Lambsquarters - *Chenopodium album*



Virginia Pepperweed -

## Table 1b. Summer Annual Broadleaf Weeds



Pigweed - *Amaranthus blitoides*  
(May have reddish stem and taproot)



Purslane - *Portulaca oleracea*  
(Fleshy leaves)



Spurge - *Euphorbia supina*  
(Milky sap distinguishes from knotweed)



Oxalis (Yellow Woodsorrel) - *Oxalis stricta*  
(Heart-shaped leaves)



Carpetweed - *Mollugo verticillata*



Pineappleweed - *Matricaria matricarioides*

## Table 1c. Perennial Broadleaf Weeds

Figure includes recommended timing of herbicide application for best control.



White Clover  
*Trifolium repens*  
Fall



Dandelion  
*Taraxacum officinale*  
Late spring or fall



Wild Violet *Viola*  
*papilionacea*  
Spring or fall



Blackseed Plantain  
*Plantago rugelii* Fall



Buckhorn Plantain  
*Plantago lanceolata*  
Fall



Canada Thistle  
*Cirsium arvense*  
Fall



Mouse ear Chickweed  
*Cerastium vulgatum*  
Fall



Curly Dock  
*Rumex crispus*  
Fall



Ground Ivy  
*Glechoma hederacea*  
Spring or fall

## Table 1d. Perennial Broadleaf Weeds

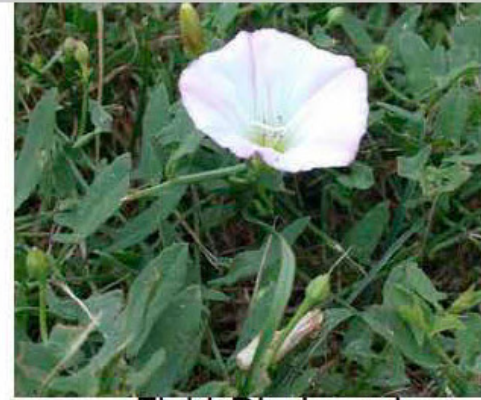
Figure includes recommended timing of herbicide application for best control.



Bull Thistle  
*Cirsium vulgare*  
Fall



Chicory  
*Chicorium intybus*  
Spring



Field Bindweed  
*Convolvulus arvensis*  
Early summer



Creeping Speedwell  
*Veronica filiformis* Fall



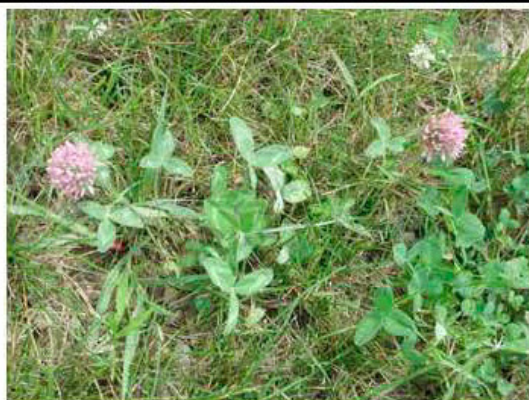
Indian Mock-Strawberry  
*Duchesnea indica*



Yarrow  
*Achillea millefolium*  
Late spring to midsummer



Wild Carrot (B)  
*Daucus carota*  
Spring or Fall



Red Clover  
*Trifolium pratense*  
Fall



Birdsfoot trefoil  
*Lotus corniculatus*  
Fall

**Table 2. Recommended Herbicides for Broadleaf Weed Control**

Weed Species	Preemergence										Postemergence									
	Bensulide	Ethofumesate	Benfenin	Pendimethalin	Prodiamine	Dithiopyr	Siduron	Oxadiazon	Isoxaben	2,4-D	2,4-DP	MCPA	MCPP	Dicamba	Clopyralid	Fluroxypyr	Triclopyr	Quinclorac	Carfentrazone	Sulfentrazone
<b>Summer Annual Broadleaf Weeds</b>																				
Black Medic						✓							✓	✓	✓	✓		✓		
Carpetweed					✓	✓			✓				✓	✓						
Common Mallow													✓	✓	✓					
Corn Speedwell			✓	✓		✓		✓							✓					
Knotweed				✓	✓	✓		✓					✓	✓						
Lambsquarters	✓				✓			✓												
Oxalis (Yellow Woodsorrel)				✓	✓	✓		✓	✓	a	a				b		b			
Pigweed					✓	✓		✓	✓	✓			✓							
Pineappleweed						✓									✓					
Prostrate Spurge				✓	✓	✓		✓	✓	✓	✓		✓	✓						
Purslane		✓		✓	✓	✓		✓	✓					✓						
Virginia Pepperweed																				
<b>Winter Annual Broadleaf Weeds</b>																				
Common Chickweed		✓	✓	✓		✓			✓				✓	✓						
Common Groundsel																				
Henbit	✓		✓	✓	✓	✓			✓					✓				✓		
Prickly Lettuce																				
Shepard's Purse	✓				✓	✓			✓											
Sowthistle (Annual)																				
<b>Biennial and Perennial Broadleaf Weeds</b>																				
Birdsfoot trefoil																				
Blackseed Plantain									✓				✓		✓					
Buckhorn Plantain									✓				✓		✓					
Bull Thistle														✓	✓					
Canada Thistle									✓					✓	✓					
Chicory																				
Creeping Speedwell (Veronica)									✓				✓							
Curly Dock									✓					✓	✓					
Dandelion									✓				✓				✓	✓	✓	
Field Bindweed																		✓		
Ground Ivy (Creeping Charlie)														✓			✓			
Indian Mock Strawberry																				
Mouse-ear Chickweed													✓	✓	✓					
Red Clover																				
White Clover													✓	✓	✓	✓		✓		
Wild Carrot																				
Wild Violet														✓	✓		✓			
Yarrow														✓						

Where the recommendation is denoted by a letter, the combination of herbicides with the same letter is recommended.

## Table 3. Broadleaf Herbicides and Combination Products

Products	2,4-D	2,4-DP	MCPA	MCPP	Dicamba	Clopyralid	Fluroxypyr	Quinclorac	Triclopyr	Carfentrazone	Sulfentrazone	Pyraflufen
Formula 40, Dymec, Weedone LV4, Weedar 64, LESCO A-4D, Weeddestroy AM-40, Opti-Amine, Harball, Barrage HF												
MCPP 4-Amine, Lescopex, Turfgro MCPP 4K, Mecomec 2.5, Mecomec 4												
2 Plus 2												
Banvel, Diablo, Vanquish												
Four-Power Plus, Super D Weedone												
Trimec Classic, Trimec 899, Trimec 992, Trimec LAF-637, Strike 3, Three Way Selective, Trimec Bent, Bent Selective, Triplet, 3-D, Trexsan, Mec-Amine-D, Mec Amine-BG, Trimec 1000												
MCPA 4-Amine												
Tri-Power, Trimec Encore												
Weedone DPC, Turf D-DP												
Trimec Turf Ester, Super Trimec, Brushmaster												
Three Way Ester, Tri-ester, Tri-amine, Dissolve, Spoiler												
Tri-ester II, Tri-amine II												
Turflon												
Chaser, Chaser 2, Turflon II amine												
Cool Power, Horsepower												
Lontrel												
Chaser Ultra												
Confront, 2-D												
Momentum												
Battleship												
Millenium Ultra 2, Millenium Ultra Plus												
Spotlight												
Chaser Ultra 2												
Battleship III												
Momentum FX, Momentum FX2												
Escalade, Escalade 2, Escalade Low Odor												
Strike Three Ultra 2												
Drive												
Onetime												
Quincept												
Quicksilver												
Shutout												
SquareOne												
Speedzone												
Powerzone												
Dismiss												
Surge												
Q4												
Octane												
Solitare												
4 Speed												
4 Speed XT												
T-Zone												