Note: This weed management calendar is meant as a summary of general guidelines for use by restoration or vegetation management professionals who are working to limit the impact of invasives on natural area restoration projects. For each species, each row represents one management approach. When using herbicides, always follow the label of the product being used. Herbicide suggestions in this document should not be followed if they contradict the label on the product being used. Make sure to follow all local, state or federal regulations that apply to the particular project site. It is most effective to use an integrated vegetation management strategy. Always make sure that the benefits of the activity outweigh the impacts.

Sorted by Latin Name			MINIMUM	WINTER			SPRING			SUMMER			FALL		
LATIN NAME	COMMON NAME	PLANT TYPE/	TREATMENT DURATION	December	January	February	March	April	May	June	July	August	September	October	Novembe
Alliaria petiolata	Garlic Mustard	Herbaceous biennial	Seeds last 7+ years				Rosettes		Bud/Flower	Flower	Flower/Seed		Seed/ Rosettes	Rosettes	
		Manual or Mechanical					Pull rosettes i	f soil is moist	pull and bag fl	owering stems		ı	Pull rosettes it	soil is moist	
		Chemical					Glyphosate, 7	ricloopry or Amir	nopyralid	1	1				
Buddleia davidii	Butterfly Bush	Tall deciduous						New leaves em	erge		Flowering		Flower/Seed		
		Manual		Dig up or we	ed wrench a	nd get entire r	oot								
		Chemical				Jerenne I				Triclopyr foliar	spray		Basal or cut s	tump	
													Glyphosate, fo	oliar or cut stu	imp
Calystegia sepium or Convolvulus arvensis	Bindweed or Morning Glory	Herbaceous Perennial				Emerge			Flower				Seed		
Convolvulus arvensis	morning citing	Mechanical	>2 years			Cut or pull; remove fragments	Cut or pull; remove fragments	Cut or pull; remove fragments	Cut or pull; remove fragments	Cut or pull; remove fragments	Cut or pull; remove fragments	Cut or pull; remove fragments	Cut or pull; remove fragments	Heavily mul area	ch infested
		Shade	3 to 5 years	Cover infest	ed area with	landscape fab	ric or cardboar	d/woodchips - ne						rounding are	a for plants
		Chemical Mechanical + Chemical	>2 years							Spray with Aminopyralid (at Spray or wipe on Glyphos Cut plants and spray/wipe on Glyphosate when regrowth					
Centaurea biebersteinii	Spotted Knapweed	Herbaceous Perennial					Rosettes		Flowers			Flowering/Se	ed		
		Manual or				Dig up; in compacted soils will need to use fork tool or digging knife; most effective when soil is moist									
		Mechanical Chemical						Triclopyr	Triclopyr or Gl	yphosate					
Cirsium arvense	Canada Thistle	Herbaceous Perennial					most seeds germinate/ new shoots on existing roots (rosettes)	rosettes	bolting	flower		flower/seeds/ move energy to roots	seeds/move energy to roots	some germi wintering ro	
		Mechanical	>2 years				pull/mow every 3-4 weeks	3-4 weeks	pull/mow every 3-4 weeks	pull/mow every 3-4 weeks	pull/mow every 3-4 weeks	pull/mow every 3-4 weeks	pull/mow every 3-4 weeks		
		Cultural					Cut and Shee			l		Felian	Cut and Shee		
		Chemical Mechanical + Chemical					Foliar spot sp	ray: Triclopyr or <i>i</i>	Arriinopyraiid		cut late July	spray regrowth late August: Glyphosate	ray: Glyphosat	# The state of the	
Cirsium vulgare	Bull Thistle	Herbaceous Biennial						Emerge		Flower		Flower/Seed	Seed/Emerge		
C. Julii Fulgare	_un imatie			1				Lillorgo	la			. 101101/0680	Joseph Lineige		
		Manual or Mechanical							Cut below crow before flowering	wn, mow, or dig ng	up shortly				
		Chemical						Foliar spot ; Tric		Foliar Glyphos	ate before		Foliar spot ; T	riclopyr;	
								Glyphosate	1				Glyphosate		
Clematis vitalba	Old Man's Beard	Climbing deciduous					Emerge			Flowering			Seeds		
		Manual				pull young pl	ants up/cut mat	ure stems at gro	und; dig up roo	ts					
		Chemical	about 2 years							wipe on Glypho	_				

Sorted by Latin Name			MINIMUM	WINTER			SPRING			SUMMER			FALL		
LATIN NAME	COMMON NAME	TREATMENT TYPE(S)	TREATMENT DURATION	December	January	February	March	April	May	June	July	August	September	October	November
		Mechanical+ Chemical					Apply herbici spring	de to regrowth in					Cut stems in fa	all	
Conium maculatum	Poison-hemlock	Herbaceous Biennial		germinate			rosettes		bolting	flowering		seed set	germinate		
				_	. Landar Pa				Cut to below crown (1-3 inches)		- \	germinate			
		Manual Mechanical Chemical		puii piants b	y nand or dig	up roots when	spray before	mow to 3-4 inches (early in month) flowering (Amino	mow to 3-4 inches	rown (1-3 inche	s)				
							Triclopyr, Gly	phosate)							
Cytisus scoparius	Scotch Broom	Large shrub; deciduous leaves, evergreen stems			veg growth		buds/leafing out	Flowers	ı	1	Seeds			veg growth	
		Manual		pull small pla	ants; weed wr	ench large pla	ints						pull small plan		
		Mechanical								Cut mature sta	nds with saws	or other tools	wrench large	piants	
		Chemical					Foliar spray (Triclopyr, Aminop	oyralid, Glyphos	sate)					
Geranium robertianum	Herb Robert	Herbaceous Annual		rosettes		seedlings/ros	ettes		flowering/seed	dlings			seedlings		rosettes
		Manual			pull plants and mulch bare areas		pull plants and mulch bare areas		pull plants and mulch bare areas	pull plants and mulch bare areas	pull plants and mulch bare areas		pull plants and mulch bare areas		pull plants and mulch bare areas
		Chemical				Glyphosate on large patches of small seedlings				Glyphosate on large patches of small seedlings				Glyphosate on large patches of small seedlings	
Hedera hibernica, H. helix	English Ivy	Evergreen woody vine		Berry/Seed			Vegetative						Flower		Berry/Seed
Helix		Manual or Mechanical	2 years	Dig up or pu	ıll up roots of	accessible pla	plants; Cut off vines (girdle) from base of trees								
		Cultural		01 1 1			Mulch to dep				1	1	h		
		Chemical (winter/fall)			or mix of Glyp sunny day, te		with 2-4 newl	n young plants y expanded					hand pull or spregrowth with	Glyphosate	
		Chemical (Triclopyr)									Triclopyr & su trimming	rfactant; more	effective right a	fter string	
		Chemical (Aminopyralid)								Aminopyralid foliar		Aminopyralid on regrowth			
Hieracium sp.	Hawkweed	Herbaceous Perennial							Bud/Flower		Flower/Seed				
		Manual or Mechanical					Dig up includ	ing roots and run	iners						
		Shading					cover with !	ndscape fabric or		discard flowers					
		Chemical						e flowers open (T							
llex aquifolium	English Holly	Evergreen shrub or tree; often multi-				New growth				Flowering				Berries/See	ed
		Manual Mechanical +		Pull or dig u	p small plants	; use weed wr	ench on large	plants close to the grou	nd as possible	and apply conce	entrated Triclop	yr or Glyphosa	Pull or dig up		use weed
		Chemical					On large trun	ks only the outer	edge needs to	be cut and trea	ted.	,,p	1		
Impatiens glandulifera	Policeman's Helmet	Herbaceous Annual						Emerge		Flower	1	Flower/Seed			

Sorted by Latin Name	1	I	MINIMUM	WINTER			SPRING			SUMMER			FALL				
LATIN NAME	COMMON NAME	TREATMENT TYPE(S)	TREATMENT DURATION	December	January	February	March	April	May	June	July	August	September	October	Novembe		
		Manual or								Pull or weed w	hack before see	eds mature; co	mpost on tarps				
		Mechanical								<u> </u>	ı	1					
		Chemical							If infest is too	large too pull,							
Lepidium latifolium	Perennial	Herbaceous						Emorgo	Flower	<u> </u>	Flower/Seed						
Lepiaiaiii ia tiioiiaiii		Perennial						Emerge	riowei		riowei/Seeu						
	pepperweed	Manual							Pull or dig pla	nts growing in s	and or loose so	il					
		Mechanical +								ed by application			riate		1		
		Chemical							surfactants to		о от опуртова	ю тагаргор.					
		Chemical						Up through					Chlorsulfuron				
								bloom stage (Chlorsulfuron with surfactant)					with surfactant- Fall treatment				
I vaimaahia vuluavia	Candan	Harbasana							Emorgo		Flower	Flower/Cood					
Lysimachia vulgaris	Garden Loosestrife	Herbaceous Perennial							Emerge		Flower	Flower/Seed					
	Loosestille	Manual or								Cut at base/dig	lig up where possible						
		Mechanical Chemical		—						Foliar: Triclopy	byr or Glyphosate, aquatic		†		+		
		Onomical											on with suitable surfactant (need				
Lythrum salicaria	Purple Loosestrife	Herbaceous Perennial							Emerges	<u>'</u>	Flower	Flower/Seed	Seed				
	2000000	Manual or Mechanical	over 5 years								Pull small plan	ts; Cut large pl	lants at base				
			2-3 years								Foliar spray: G	Slyphosate or					
			, , , , , , , , , , , , , , , , , , , ,								Triclopyr , aqu						
											formulation (ne						
			Up to 5 years before significant decrease in plant density						Release galerucella beetles on large stands		Release galerucella beetles on large stands						
								<u> L</u>		_			L				
Phalaris arundinacea	Reed Canary Grass	Perennial grass					shoots emerg rhizomes	ge from seeds or	flowers start forming	flower stage; peak of veg. growth	flowers/seeds	collapse (2nd	rowth slows down of the slow o	wth			
		Manual	at least 5 yrs					hand pull/dig		hand pull/dig		hand pull/dig					
								over whole		over whole		over whole					
								population		population		population					
			5 to 10 years					mow	mow	mow	mow		mow				
		Mechanical + Shade	at least 1 year					mow and cover woodchips	with a combina	ation of several i	ayers of cardoo	ara coverea w	ith 4-6 inches				
	1	Flooding	1 to 3 yrs				Inundation fo	r whole growing s	season								
		Mechanical +	1 to 2 years					Jg			mow fields	spray Glypho	sate when				
		Chemical	-								before seeds mature	regrowth is 1 weeks; mow;	ft tall; wait 2				
		Chemical	1 year for small				spray				foliar spray	, ,	foliar spray reg				
	1		patches; 2 or				Glyphosate				Glyphosate		Glyphosate (til				
	1		more years for				on young				(before		after spray for	improved			
			large infestations				shoots (less damage to				summer dormancy)		control)				
							native grasses)										
Polygonum	Knotweed	Tall rhizomatous				ļ		plante omorge	rapid growth		Elower		Sood		Canac dia		
cuspidatum, P. bohemicum, P. sachalinense	Kilotweed	perennial						plants emerge	Tapiu growth		Flower		Seed		Canes die back		

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LATIN NAME	COMMON NAME	TREATMENT	TREATMENT DURATION	December	January	February	March	April	May	June	July	August	September	October	November
		TYPE(S) Mechanical alone	at least 5 years, not very effective on established patches					cut twice	cut twice	cut twice	cut twice	cut twice	cut once	cut once; the area with ca deep mulch	rdboard and
		Mechanical + Shade	5 years; can plant in area after 3 years										cover with landscape fabric; stake for growth at the edges		
		Mechanical + Chemical	,								cut once	spray when a			
		Chemical alone	at least 2 years									inject stems :			
													ler plants and		
Prunus laurocerasus	English Laurel	Evergreen shrub or							Flowers			Seeds			
		small tree Manual		Pull or dig up	small plants	; use weed wr	ench on large	plants					Pull or dig up	small plants;	use weed
		Mechanical + Chemical							und as possible a	and apply conc	entrated Triclop	yr or Glyphosa			
D	District the same	0				M			Electric			D (O			
Rubus armeniacus, R. discolor, R. lacinatus	Blackberry (Himalayan and Cutleaf)	Cane-producing shrub; roots at nodes				New growth			Flowers			Berries/Seed	S		
	Cutteary	Manual/Mechanical	at least 2 yrs	Cut canes/gr	ub out crowr	ns when soil is	moist			Dig or cut regr	owth		Grub out roots	s when soil is	moist
		Mechanical alone	> 2 years			clear mechanically			clear mechanically (if only once: when flowers			clear mechanically			
		Mechanical + Chemical							form) clear mechani	cally			foliar spray regrowth: Triclopyr, Aminopyralid or		
		Chemical: cut stump									Check area a	Glyphosate k area and repeat if necessary		Поругана от	
		Cultural						Triclopyr imme	ediately after cut	ting			Mulch area af	ter	
													blackberries a prevent errosi	re cleared to	
		Chemical							Foliar spray Tr actively growin	riclopyr when p	lants are		Foliar spray G when canes a growing and a are formed; N sprayed areas access to spra	Slyphosate are actively after berries OTE: post s or control	Clear dead canes, stabilize area to prevent possible erosion
Senecio jacobaea	Tansy Ragwort	Herbaceous biennial					Rosettes		Bud/Flower	Flower		Flower/Seed		Rosettes	
		Manual or Mechanical					Dig up rosette	es if soil is moist	i .	pull and bag fl	owering stems		Rosettes Dig up rosette moist	es if soil is	
		Chemical					Triclopyr or A rosettes	minopyralid on	Triclopyr or Ar	ninopyralid or T	riclopyr		Triclopyr or Ar or Triclopyr o		
Solanum dulcamara	Bittersweet Nightshade	Semi- woody vine							Flower	<u> </u>			Seed		
		Manual or Mechanical		Dig up plants damaging otl		en possible to	avoid			Dig, cut,	pull or mow sev	reral times / se	ason		
		Chemical						to early flower	ited. Spray or wi (Glyphosate, Tri- plan to spray ar	clopyr or					
Sonchus arvensis	Perennial	Herbaceous						seedlings/rose		, , , , , , , , , , , , , , , , , , , ,	Flower		Seed		
	Sowthistle	Perennial						ű							

Sorted by Latin Name			MINIMUM	WINTER			SPRING			SUMMER			FALL		
LATIN NAME	COMMON NAME	PLANT TYPE/	TREATMENT	December	January	February	March	April	May	June	July	August	September	October	November
		TREATMENT	DURATION						-						
		TYPE(S)													
		Manual or						Dig up including	roots and runi	ners					
		Mechanical													
										Remove and o	liscard flowers				
		Shading						cover with lands	cape fabric or						
		Chemical						Foliar - Actively	growing plants	before bud					
Tanacetum vulgare	Common Tansy	Herbaceous				Emerge				Flower		Flower/Seed			
1		Perennial				-									
		Manual				Dig up						dig up, cut & l	oag seed head		
		Mechanical						mow/cut before		cut regrowth		cut regrowth		cut	
								bud stage				,		regrowth	
		Chemical	>1 yr					Spot spray metsulfuron or			Wipe on Glyph				
								wipe (chemical?) on actively		(not as effective	e as metsulfur	on) - cut & bag		
								growing plants							