



303-232-0666 or www.mountainhightree.com PLANT HEALTH CARE CALENDAR

This calendar shows some of the more common insects and diseases that attack and damage our trees, shrubs and lawns in this area along with a brief description of each. These are just a few of the more damaging insects and diseases. For more information visit our web site for links to the Colorado State University Extension.

Timing for treatments can vary depending on weather, location, pest emergence and other variables. We hope this will assist you in becoming more aware of these problems. Insect and disease control is only one tool of overall landscape care. A complete maintenance program is the key to healthy trees, shrubs and turf. Please call if you have questions on any specific problem or for general Plant Health Care information.

SH	SHADED AREAS INDICATE THE APPROXIMATE TIMES FOR THE MOST EFFECTIVE CONTROL											
TIMING	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEPT	OCT	NOV	DEC
INSECTS	TREE AND SHRUB INSECTS & DISEASES											
Aphids	Sap sucking insects causing foliage to become sticky and distorted on many trees, shrubs and evergreens. A sooty mold often develops that may discolor the area below.											
Ash / Lilac Borer	Larvae burrow into trunks and excavate galleries in young and stressed Ash trees, causing severe limb die back possible death.											
Ash Sawfly	Green larval worms feed on the leave <mark>s of Ash trees; potentially defoliating</mark> the entire tree.											
Boxelder Bug	This insect is primarily a nuisance that does little harm to the Boxelder trees. They are very difficult to control effectively. Control can be applied any time adults are present.											
Bronze Birch Borer	Larval feeding destroys tissue of trunks and bran <mark>ches. Preventative treatments are re</mark> commended.											
Codling Moth		eferred to as ontrol is requ		n apples". 1	Treatments a	re most effec	tive just afte	r full blosso	m, but can e	ktend throug	gh harvest wh	en
Cottony Maple Scale	Large cottor	n-like egg ma	isses. Can l	be found on	Maple, Locus	st, Cotoneaste	er, Viburnum	and other to	rees and shru	ıbs.		
Cottonwood / Poplar Borer	Affects wea	kened Cotton	wood, Popla	ir and Aspen	ı trees causir	n <mark>g drill like ho</mark>	oles in the tr	unk. Mortali	ty is commor	n in affected	l trees.	
Crown Borer	Attacks the lower trunk of Peach and Plum trees causing jelly like masses. Can cause decline or death of tree.											
Elm Bark Beetle	The carrier of Dutch Elm Disease; also destroys the tissue under the bark. Primarily affects American and English Elms.											
Elm Leaf Beetle	Small worm like larvae feed on the leaf tissue, leaving leaves transparent. Adult beetles can chew holes and defoliate the tree.											
Elm Leaf Miner	Larvae appear inside new leaves as they develop appearing as brown and transparent pockets in the leaf. Can also cause premature leaf drop. Car affect many trees including Elm, Birch, Boxwood, Hawthorn and Roses.											
Emerald Ash Borer		•						•	,		owing out fro eved with prev	
European Elm Scale		tage will secr and branch d		nounts of sti	icky honeydev	v and cause s	sooty mold th	at will disco	lor branches	and the gro	ound under th	em. Will
IPS Engraver Beetle	Larvae make small holes through bark and tunnel underneath. Sawdust like frass is emitted. Often starts at the top. Usually fatal to Spruce and Pine trees that are attacked. Controls must be applied as a preventative treatment.											
Japanese Beetle		to Colorado. nitoring and				ding turf roots	s. Seems to	prefer certai	n vines, rose	s and berry	plants. Best	controls
Kermes Scale	Larval feedi	ng will cause	e tufts of Oa	k leaves to f	all. Heavy in	ifestations wi	II cause bra	nch die back	and tree dea	ath.		
Mites	Thousands o	of species tha	it can dama	ge many tre	es, shrubs, e	vergreens and	d our lawns.	Best contro	ls are achiev	ed with a pl	ant health ca	re program.
Leafhopper	Will feed on	new Locust	eaves as th	ey emerge a	nd cause dis	torted looking	g leaves.					
Mealy Bug	Small white	cottony spot	s on twigs o	f Hawthorns	and other tr	ees. Heavy ir	nfestation ca	n cause ear	ly leaf drop a	nd branch o	lie back.	
Mountain Pine Beetle	Primarily a	mountain pro	blem but ha	as migrated	t <mark>o the front r</mark>	ange, attacki	ng and killin	g Scotch, Po	nderosa, Mu	go and Lodg	gepole Pine tr	ees
Oystershell Scale	Affects Asp	en, Ash, Lilac	, Cotoneaste	er and other	plants. Bes	t treated in ci	rawler stage					
Pine Bark Adelgid		vered with sp ne and death		ty still unco	nfirmed. Res	sides under th	ne bark of Po	nderosa Pine	es and appea	rs as a sma	all cottony ma	ss. Can
Red Headed Ash Borer	Relatively n	ew to the Der	nver Metro A	r <mark>ea. Drill ho</mark>	les evident i	n trunk. Can	severely dar	nage young a	and old Ash t	rees alike.		
Pine Needle Scale	Visible as si	nall white sp	ecks on som	e Pine and	Spruce needl	es and cause	s severe tiss	ue damage t	to those need	les. Not to	be confused v	<i>ith the</i>

Pine Needle Scale	Visible as small white specks on some Pine and Spruce needles and causes severe tissue damage to those needles. Not to be confused with the natural resin specks on Bristlecone Pine trees.
Spruce Gall Adelgid	Causes a brown cone like growth on the tips of Spruce trees. Damage is mostly cosmetic.
Striped Pine Scale	A soft scale causing obv <mark>ious thinning and decline of Scotch a</mark> nd Mugo Pine trees.
Turpentine Beetle	Attacks the lower 8 feet of stressed P <mark>ine tree trunks causing obvious sawdust like fras</mark> s filled pitch tubes.
Tussock Moth	The caterpillar larvae feed on the top of Spruce trees and can cause significant defoliation.
Walnut Twig Beetle	Attacks twigs and branches of Walnu <mark>t trees, plus carries a deadly vascular clogging fu</mark> ngus known as 1000 Canker disease. No control.
Zimmerman Pine Moth	Larvae feed on and cause distressed <mark>tissue around Pine tree branches where they connect to trunks, causing we</mark> akened branch attachment and failure.
DISEASES	
Powdery Mildew	A fungal disease which infects leaves of trees and shrubs such as Apple, Lilac, Roses and lawns. Leaves will have a light powdery look while lawns will have a gray appearance. Fungicide applications can help.
Anthracnose	Several species attack trees such as Sycamore, Ash, and Maple causing significant stress and potential death.
Cytospora	Some of the more aggres <mark>sive species infect and kill Aspen, Co</mark> ttonwood an <mark>d Mountain Ash.</mark>
Dutch Elm Disease	This disease has been killing American and English Elm trees in Denver since 1970. Preventative programs can be very effective for control.
Fireblight	Aggressive bacterial dis <mark>ease of Apple, Crabapple, Pear, Peach, Mountain Ash and Haw</mark> thorns.
Leaf Spot	Leaf spot is often the cause of discol <mark>ored leaves falling from Aspen and Cottonwood tr</mark> ees in July and August.
1000 Canker Disease	This disease is vectored by the Walnut Twig Beetle and is killing Walnut trees at an alarmingly rapid rate.

TIMING	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEPT	OCT	NOV	DEC
					INSECTS							
Ascochyta		-		-			nroughout gro will also con			-	cur when cor	iditions are
Cinch Bugs	A black bee	tle with wing	gs that norm	ally has gray	diamond pa	itterns on th	eir backs. Th	ley suck the i	noisture out	of the grass		
Dollar Spot	U U	ose examina	tion may rev				uring periods ns as the fun			0		
Grubs				turf roots ca etles and Jur			e throughout 5.	Colorado. Tl	nis group of	insects deve	lops into vai	rious adults
Mites			•			-	d on turf area With regular	-		-		
Necrotic Ring Spot				of bluegrass eft untreated		Distinctive	circular pato	hes of straw	colored gra	ss develops f	rom June to	August. This
Sod Webworm	They feed on darting in an					-	e will often be	egin to show	up in the ea	rly to mid-su	mmer. Sma	ll moths
Weeds	The most pre	evalent and	problematic	weeds in our	[.] lawns inclu	ide Clover, S	purge, Dande	elion, Thistle,	Wild Violet	<mark>a</mark> nd Bindwee	ed.	
		COMMON	N TREE SPE	CIES - THE	INSECTS	& DISEASE	S THAT CAN	N AFFECT T	HEM			
Ash	Aphids, Ash b	orer, Red-Hea	aded Ash Bore	r, Oystershell	Scale, Ash Sa	wfly, Cottony	Maple Scale a	nd Emerald As	sh Borer*			
Apple/Crabapple	Aphids, Mites, Fireblight, Powdery Mildew and Codling Moth											
Aspen/Cottonwood / Poplar	Aphids, Leaf S	Spot, Cytospo	ra Canker and	l Cottonwood /	Poplar borer							
Boxelders	Aphids and B	ox Elder Bug										
Birch	Aphids and B	irch Borer										
Elms	Aphids, Mites	, Elm Leaf Be	etle, Elm Scal	le, Elm Leaf M	iner, Dutch El	m Disease ar	ıd Elm Bark Be	etle				
Hawthorn	Aphids, Mites	Aphids, Mites, Leaf Miner, Mealy Bug and Fireblight										
Linden	Aphids and M	Aphids and Mites										
Locust	Mites, Leaf Hopper, Canker and Locust borer.											
Maple	Aphids, Cotto	ny Maple Sca	le, Verticilliun	n wilt and Antl	hracnose							
Pear	Fireblight *Some species are more susceptible to fireblight than others											
Peach / Plum	Aphids and C	rown Borer										
Juniper	Aphids, Mites	and Needle S	Scale									
Pines	Aphids, Mites Beetle and Tu	, 0	,	Needle Scale,	Zimmerman	Pine Moth, St	riped Pine Sca	le, Pine Bark A	Adelgid, Mour	itain Pine		
Oaks	Aphids, Mites	, Kermes Sca	le and Oak Bo	rer								
Spruce	Aphids, Mites	, IPS Engrave	r Beetle, Tuss	ock Moth, Aph	id Gall and C	ytospora Can	ker					
Walnut	Aphids, Walni	ut Twig Beetle	e and 1000 Ca	anker Disease								
Willow	Aphids, Mites	and Cytospo	ra Canker									
Vines, Roses and other species	Aphids, Mites	and Japanes	e Beetle									







Our mission at Mountain High Tree, Lawn & Landscape Co. is to provide the best, most up to

date and environmentally sound tree, lawn and landscape services available.

This calendar is designed to help assist you in identifying potentially damaging insects and diseases so that you can be more pro-active in recognizing tree and lawn problems. As always please contact us anytime you have a question or concern regarding your landscape care needs.

Proudly serving the Denver Metro area since 1974.

Sincerely,



Ralph Bronk, President













