

# IPM SPIDER MITE/POWDERY MILDEW SPRAY PROCEDURE



*All measurements	VEG						FLOWER				
Application Frequency		Week 1	Wee	ek 2 W	/eek 3	Week 4	Wee	k1 W	eek 2	Week 3	
<b>Preventative</b> (no pests)	Spray 2x per week	60-90 mL	60-90	0 mL 60	)-90 mL	60-90 mL	60-90	mL 60-	90 mL	60-90 mL	
Curative (some pests)	Spray 3x per week	90-120 mL	90-120	0 mL 90	-120 mL	90-120 mL	90-120	mL 90-1	120 mL	90-120 mL	
•		м	т	w	тн	F	S	SU	м	т	
Infestation (Infested with pests, possible crop loss)	<ul> <li>Spray 2 day</li> <li>Off 1 day</li> <li>Repeat above for a 9 day total cycle.</li> </ul>	Spray	Spray	Day Off	Spray	Spray	Day Off	Spray	Spray	Day Off	
		120 mL	120 mL		120 mL	120 mL		120 mL	120 mL		

## Infestation

For spider mite infestations we recommend two consecutive days of spraying followed by a day off. The day off allows the plant to rest because repeated spraying can stress the plant during this process. If the grower notices any adverse reaction like wilting or other Phytotoxic reactions, they should add more days off between the spray routine. This rotation is repeated 3 times over a 9 day period (the 9th day is a day off).

Our **IPM Spray Procedure** is designed to fully eliminate spider mites and powdery mildew in your garden.

#### **Spray Procedure**

WARNING: STEP 1 IS VERY IMPORTANT. FULL SATURATION.

<ol> <li>Saturate</li> </ol>	Fully saturate the media with pH adjusted water.
	If the plant is fully hydrated, it will not absorb IPM through its leaves. If the plant is dehydrated, it will absorb IPM through its leaves. Skipping this step can cause burning or phytotoxic reactions.
2 Climate	Lower temperature to around 72° F and use dehumidifiers to maintain humidity around 55-65% to prevent mold and mildew issues.
3 Lighting	Only spray when high intensity lights are turned off to prevent burning.
Spray	Start by spraying the media, following up the stalk making sure to <b>drench</b> the undersides of the leaves. Follow with a spray over the top to ensure full saturation of all plant foliage.
5 Dry	Allow enough time to dry (3-4 hours) before high intensity lights are turned on.



IPM Broad Spectrum Insecticide & Fungicide

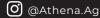
# **Fully Saturating the Media**

The technique of fully saturating the media first, makes sure the plant is **fully hydrated, so that it does not uptake IPM** when applied.

Once the spraying is complete, allow the plant to dry down to your normal irrigation schedule and resume your schedule.

If the grower sees any adverse reaction in the plants, stop and take a day or two off before re-applying.

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For more information regarding the

Athena program, please visit our website:



# IPM + STACK



TANK MIX SPRAY PROCEDURE

*All measurements are mL per gallon			VI	EG	FLOWER			
Application Frequency		Week 1	Week 2	Week 2 Week 3 Week 4		Week 1	k 1 Week 2 Week 3	
Preventative TANK MIX	IPM	60-90 mL +	60-90 mL +	60-90 mL	60-90 mL +	60-90 mL +	60-90 mL +	60-90 mL +
(Spray 2x per week)	Stack	4-7 mL	4-7 mL	4-7 mL	4-7 mL	4-7 mL	4-7 mL	4-7 mL

## **Tank Mix Advantages**

Athena® IPM has also proven effective against various pests and pathogens including spider mites, powdery mildew and fungus gnats. Combining both products allows you to fertilize your plants while at the same time establishing a line of defense from pests and fungal pathogens.

Athena® Stack, being derived from kelp and other plants, provides bioavailable micronutrients encouraging increased lateral growth, tighter nodes, faster bud set, and an overall increased vigor during transition.

Mixing both **Athena® IPM** and **Athena® Stack** together in the same solution is compatible for a foliar application and will result in less wasted product as well as save on labor costs.

IPM Broad Spectrum Insecticide & Fungicide







#### Spray Procedure 2

**WARNING:** TO PREVENT RESIDUE FROM FORMING ON THE FOLIAGE, WE SUGGEST USING RO WATER.

0	Fill	Fill a container with RO water for the amount of plants you are going to spray.
0	IPM	Add Athena® IPM at 60-90 mL/Gal and agitate until thoroughly mixed.
€	Stack	Add 4-7 mL/Gal of Athena® Stack and agitate until it is mixed. Contains organic ingredient that could separate in storage so shake well before each use.
0	Saturate	Fully saturate the media with the current fertilizer water. If the plant is fully hydrated, it will not absorb IPM through its leaves. If the plant is dehydrated, it will absorb IPM through its leaves. Skipping this step can cause burning or phytotoxic reactions.
6	Temp	Lower temperature to around 72° F and use dehumidifiers to maintain humidity around 55-65% to prevent mold and mildew issues.
6	Spray	Only spray when high intensity lights are turned off to prevent burning (Work lights or green lights only, no grow lights).
0	Spray	Start by spraying the media, following up the stalk making sure to drench the undersides of the leaves.
8	Spray	Follow with a spray over the top to ensure full saturation of all plant foliage.
9	Dry	Allow enough time to dry (3-4 hours) before high intensity lights are turned on.

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