

*All measurements are mL per gallon

		VEG				FLOWER				
Application Frequency		Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3		
Preventative (no pests)	Spray 2x per week	60-90 mL	60-90 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 mL	90-120 mL	90-120 mL	90-120 mL	90-120 mL	90-120 mL		
Infestation (Infested with pests, possible crop loss)	• Spray 2 day • Off 1 day Repeat above for a 9 day total cycle.	M	T	W	TH	F	S	SU	M	T
		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.



IPM

Broad Spectrum
Insecticide & Fungicide

Spray Procedure

WARNING: STEP 1 IS VERY IMPORTANT. FULL SATURATION.

- Saturate** 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.
- Climate** Lower temperature to around 72° F and use dehumidifiers to maintain humidity around 55-65% to prevent mold and mildew issues.
- 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 **drench** the undersides of the leaves. Follow with a spray over the top to ensure full saturation of all plant foliage.
- Dry** Allow enough time to dry (3-4 hours) before high intensity lights are turned on.

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.

Application Frequency		VEG				FLOWER		
		Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3
Preventative TANK MIX <small>(Spray 2x per week)</small>	IPM	60-90 mL +	60-90 mL +	60-90 mL +	60-90 mL +	60-90 mL +	60-90 mL +	60-90 mL +
	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.

Spray Procedure

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

- 1 Fill** Fill a container with RO water for the amount of plants you are going to spray.
- 2 IPM** Add Athena® IPM at 60-90 mL/Gal and agitate until thoroughly mixed.
- 3 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.
- 4 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.
- 5 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).
- 7 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.

IPM

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Stack

Bloom
Enhancer

