

GRIFFIN GAZETTE

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**BEAUTIFUL
BEGONIAS**

The Quest
OF THE PEST

Improve your propagation
HORTUS IBA SALTS

HIGH TUNNELS
the low-tech side of CEA





GRIFFIN GAZETTE

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PLANT & SEED LOCATIONS

General Inquiries

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COVER PHOTO:

Syngenta Flowers Adora Velvet Red with double flowers and dark foliage.



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GROWER SUPPLIES | RETAIL | CEA | CONSTRUCTION | PLANT & SEED

Beautiful **BEGONIAS**





*By Matthew Blanchard,
Product Manager, Syngenta Flowers*

The vegetatively propagated begonia market continues to grow strongly in the U.S. and Canada. Consumers enjoy begonias because of their unique flowers and the excellent color in hanging baskets, patio pots, and the landscape. They are easy to care for and keep flowering all summer long. Several breeding companies supply begonia cuttings into North America, with various choices for foliage color, flower shapes, and product profiles. Read more to learn about the begonia series supplied by Syngenta Flowers and what is new for 2023.

FLORENCIO™ SERIES

Syngenta Flowers introduced the Florencio hybrid begonia series in 2022, bred by Koppe Begonia in The Netherlands. Florencio is an interspecific *Begonia boliviensis* type with large single flowers and dark green foliage. Florencio has medium vigor, excellent branching, and a mounding habit that spills over the container as plants age. Plants are best grown in mid-to-large-sized containers and hanging baskets. *(Continued)*

Bred for outstanding outdoor performance, consumers love Florencio begonias because they flower all season long and provide garden value with less maintenance. For premium hanging baskets, plant four cuttings per 10-inch basket. When potting, transplant liners with the leaf tips facing towards the outside of the container for best plant growth and flower presentation. Florencio grows best in part shade for continuous summer flowering.

Syngenta Flowers' Kapok Farm in Guatemala supplies unrooted cuttings. The series includes six bright colors – Cerise, Orange, Pink, Red, Yellow, and White.

ADORA[™]SERIES

The Adora hybrid begonia series is new from Syngenta Flowers for 2023-2024. Adora begonias have a mass of double flowers on top of plants with dark green foliage. At first launch, the series includes Moon Dance, Satin Rose, and Velvet Red – all with petite double flowers. Plants produce tons of brightly colored blooms all season that stand out against the dark leaves. Adora has medium vigor and mounded habits that work across various container sizes and hanging baskets. Plants are best grown in part sun.

Adora begonias are propagated from unrooting cuttings, and the production team at Syngenta Flowers has been working hard to deliver the highest quality cuttings to growers. Adora has strong rooting and uniform propagation in trays. Crop time for finishing 1.25 quarts (5.5-inch pots) is 8-9 weeks. If growth control is needed, spray Altercel[®] at 500–1,000 ppm.

Long-day lighting is recommended during propagation and finishing for the highest-quality plants. Short days (less than 12 hours) trigger tuber formation, reducing their vegetative growth and branching and delaying flowering. For complete culture information and growing schedules, please visit www.syngentaflowers-us.com.



Adora Series at CAST,
Syngenta Flowers, Gilroy,
CA, April 2023

Florencio Series at
CAST, Syngenta
Flowers, Gilroy,
CA, April 2023



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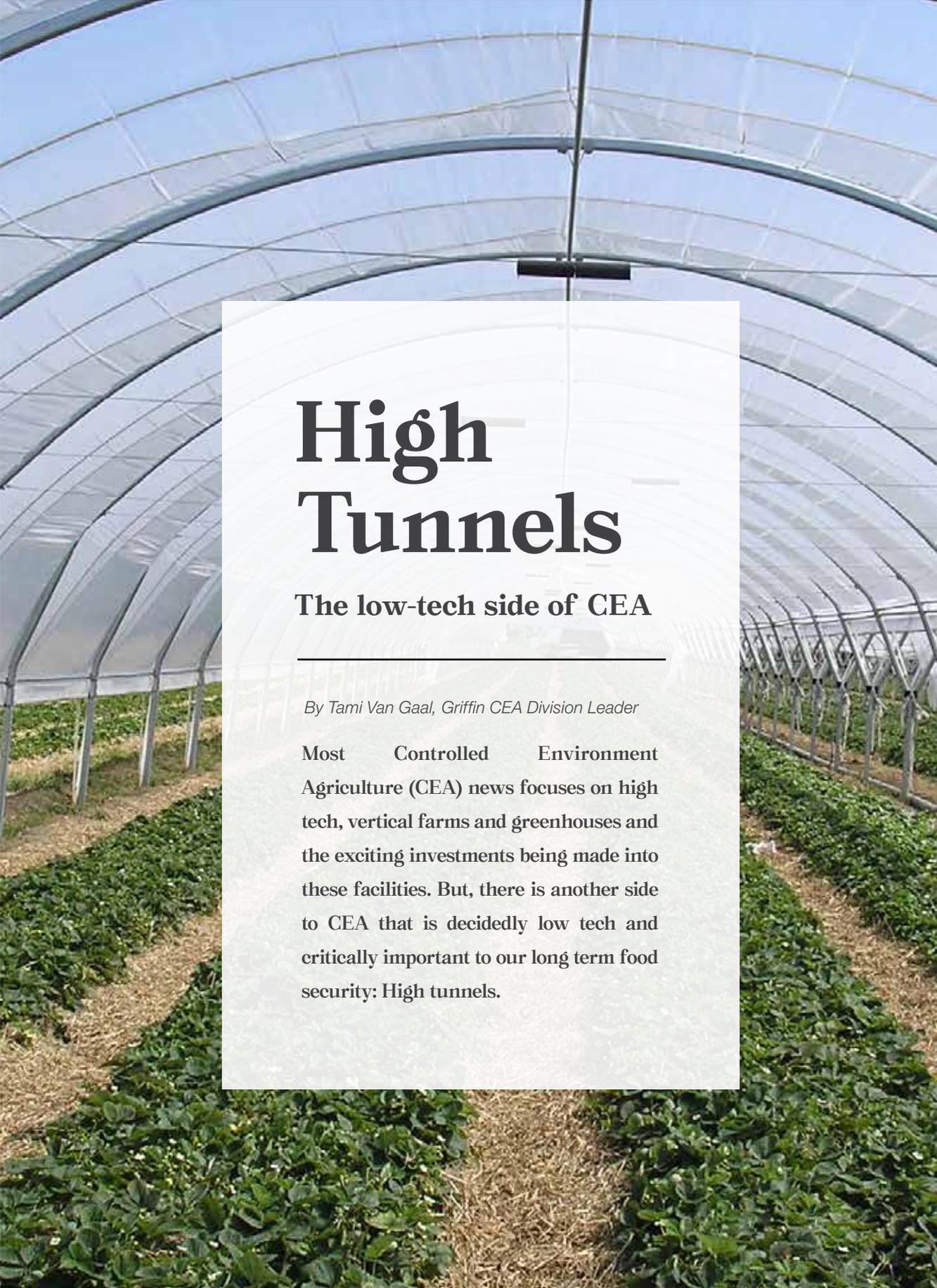


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High Tunnels

The low-tech side of CEA

By Tami Van Gaal, Griffin CEA Division Leader

Most Controlled Environment Agriculture (CEA) news focuses on high tech, vertical farms and greenhouses and the exciting investments being made into these facilities. But, there is another side to CEA that is decidedly low tech and critically important to our long term food security: High tunnels.

WHAT IS A HIGH TUNNEL?

A high tunnel is an inexpensive structure that protects a field-grown crop from rain, frost, and wind. High tunnels differ from greenhouses in several ways. First, they are not climate controlled. These are unheated spaces without exhaust or HAF fans. Air flow and temperature are managed with roll up sides or by removing the cover entirely. Second, high tunnels are light weight structures. While wind rated, high tunnels cannot support hanging baskets, lights, light dep systems, or any of the other infrastructure associated with seasonal or year-round greenhouses. These are three-season structures, not rated for snow loads; the poly roof must be removed during the winter.

WHY CHOOSE A HIGH TUNNEL?

High tunnels are the perfect solution for protecting large crop areas of field grown fruits, veggies, or greens from unpredictable weather. They are also a great choice for cut flower production. While they are not heated, high tunnels can afford enough protection and capture enough sun-driven heat load to serve as simple season extenders. Depending on the crop, this can translate to 1-2 additional turns or harvests per year. Protecting crops with high tunnels is a recognized path to improving plant and soil quality, reducing pesticide use, and improving crop size and yields.

CAN THE FILM BE REMOVED?

High tunnels are usually covered with a single layer, polyethylene film. One of the primary benefits of high tunnels is the ease of opening the structure, i.e. quick roll up of the film. For example, in Harnois' TunnelPro, the film is secured with simple nylon straps that are easily released to allow the cover to roll all the way to the peak. Side walls and ends are easily opened, too. Sidewall roll up operation can also be automated.

DO HIGH TUNNELS WORK FOR HIGH WIRE CROPS?

Yes! High tunnels are a great option to get an early turn on tomatoes or cucumbers to get that first-to-market price. Harnois has a new Trellis Support System designed just for this application with their TunnelPro.

WHAT ABOUT MY EQUIPMENT? WILL I BE INCREASING MY LABOR COSTS BY GROWING UNDER COVER?

These are big, open structures, 28-31' wide with inside clearance of up to 132". The ends are unobstructed; small tractors and other equipment can drive right through a high tunnel.

HOW MUCH DO THEY COST?

High tunnels are an affordable way to cover large crop areas. For example, pricing for a TunnelPro connected tunnel solution should land in the range of \$2.50-\$4.00 per square foot, about half the price of a ground to ground greenhouse. Of course, this will vary based on the location and options desired.

WHAT IF I WANT TO SCALE MY STRUCTURE OVER TIME? CAN I UPGRADE A TUNNELPRO TO A GREENHOUSE?

A TunnelPro is perfectly designed to cover a lot of ground at an affordable price. TunnelPro is easily scalable to cover more space by adding more tunnels/bays. Because these are lightweight structures, they are not intended to grow-up into true greenhouse structures. If your business plan includes a true greenhouse, then consider Harnois' Ovaltech free standing, ground to ground structure. Ovaltechs are cost effective greenhouses that can graduate from a high-tunnel like installation to a climate-controlled greenhouse.

WHAT ARE NRCS GRANTS?

The USDA's Natural Resources Conservation Service (NRCS) offers financial assistance for high tunnel purchases through their Environmental Quality Incentives Program (EQIP). Get started by contacting your local NRCS office. Once your project is evaluated, you can submit an application. Your application will be ranked, with awards issued as EQIP contracts. If you sign the contract, funds will be dispersed to you following construction and NRCS inspection. Griffin is experienced with the NCRS grant process. We can quote projects that match the criteria and supply the structure to you once you have your EQIP contract.

Get more information here:

<https://www.nrcs.usda.gov/programs-initiatives/eqip-high-tunnel-initiative>



The quest of the pest

By Hannah Sadosky,
Griffin Retail Education Manager

Garden centers and growers know the inevitable parts of gardening; The bugs, the spots, the chewed up leaves and flowers, or critters snatching soon to be harvests. Whether gardeners coming into your garden center know what pest they are facing, here are a few Retail solutions to have in your back pocket.





PRODUCT SPOTLIGHT FERTILOME TRIPLE ACTION

Gardeners know the inevitable parts of gardening are the pests and disease that seem to happen overnight. Triple Action is a 3 in 1 insecticide, miticide, and fungicide solution. As an insecticide, Triple Actions active ingredients are neem oil and pyrethrins. These ingredients kill pests like aphids, whitefly, and many more by suffocation and leaves a repelling residue. Triple Action is a great miticide as well for those small and hard to see Spider Mites. Spider Mites typically go unnoticed, and infestations can quickly develop resulting in webbing on leaves and flowers. Spider Mites feed by piercing the plant surfaces with their mouthpart and sucking up plant fluids from the cell they are feeding from. This damage mites leave from feeding cell to cell creates a stippled or speckled appearance on the leaf surface, which decreases plant vigor. When we use Triple Action, the active ingredients leave a residue on the leaf surfaces that make it unpalatable to feeding pests. Plants will need reapplication every 7-14 days depending on the pest pressure.

Triple Action is also a fungicide and helps protect plants against diseases like black spot and powdery mildew. Diseases occur on plants when three key factors align, a host (the plant)– a pathogen (the disease) – and the right environment for the disease to develop. We can protect our plants that are susceptible to the many diseases out there by protecting them with Triple Action. Triple Action's 3 in 1 formula solves and prevents many issues gardeners face with their plants which makes Triple Action 3 in 1 an easy solution and sale.

PRODUCT SPOTLIGHT EVERGUARD TICK & MOSQUITO SPRAY & GRANULAR

Ticks and Mosquitos, are an inevitable part of being outdoors, especially in our backyard and patios where we go to relax and unwind. Did you know that ticks cannot fly or jump? Ticks crawl to the tips of plants or grass and reach out with their front arms and wait on a host to grab onto. Mosquitos on the other hand fly around to find a host to feed on, and can quickly ruin the fun of being outside. Everguard Tick and Mosquito products can be applied on lawns and gardens, and are an eco-friendly solution that is safe for use around children and pets. Everguard Tick and Mosquito is also labeled bee friendly, and packs more active ingredients than your average tick and mosquito products on the market. Everguards commercial formula, made in Rhode Island packs Citronella, Cinnamon, Cedarwood, Lemongrass, Thyme and Garlic that lasts up to 4 weeks in rain or snow. Give it a try and see the results for yourself!



PRODUCT SPOTLIGHT EVERGUARD DEER & RABBIT REPELLENT

Most vegetable and fruit gardens face other pests, like deer, rabbit or other small critters snatching harvests from the vine or even mowing harvests to the ground. We want to live in harmony with wildlife while still reaping a harvest in our gardens. Its often hard to achieve, and most gardeners resort to physical barriers like netting, or even the use of noisy sonar deterring devices. If you are looking to deter deer and rabbit from feeding on your gardens look no further than Everguards Deer & Rabbit repellent. Everguards Deer & Rabbit repellent retail ready bottle for spraying or a granular option in a handy shaker. Everguards Deer & Rabbit repellent is safe to use around children and pets, and can even be applied in vegetable gardens. Everguards Deer and Rabbit formula lasts up to 8 weeks in rain and snow which means less time defending your plants and more fun in the garden.

Improve Your Propagation with Hortus IBA Salts

By Tanner Bailey and Karen Stever, Griffin GGSPRO Technical Team

PRODUCT OVERVIEW

Griffin is proud to announce a new partnership with Hortus USA. We are now the Master Distributor for Hortus IBA Water Soluble Salts in the United States. Hortus IBA Water Soluble Salts is a dry powder formulation for liquid rooting hormone applications that stimulate root formation during vegetative plant propagation. The active ingredient in this product is Indole-3-butyric acid (IBA), a plant growth regulator that acts with the plant's natural rooting hormone synthesis to aid in the generation of new roots. IBA is widely used in the propagation phase of plant production as it stimulates root development, reduces propagation time for unrooted cuttings, and improves liner quality and uniformity.

There are many IBA-based rooting hormones on the market. Of these various options, Hortus IBA Water Soluble Salts offers an advantage over other products, because it has multiple application methods as opposed to the traditional basal cutting dip into a dry powder or gel formulation. Hortus IBA Water Soluble Salts is a concentrated powdered formulation meant to be weighed out using a gram scale, mixed with water, and applied as a liquid. It has four methods of application: Spray Drip Down, Quick Dip, Total Immerse, and Basal Long Soak. The "Spray Drip Down Technique" offers propagators a fast and effective method to apply a rooting hormone to recently planted cuttings that avoid the piecemeal work of treating each cutting as it is placed into the propagation tray.

USING THE SPRAY DRIP DOWN METHOD

Hortus IBA Water Soluble Salt is mixed into a solution with water and is sprayed over the top of recently stuck cuttings. The goal is to spray the rooting solution onto the leaves until the material drips down the cutting stem, avoiding saturation media surface. The application is best made soon after sticking and when the plant material is not under heat stress, such as early morning. After the application, wait 45 minutes or until the solution dries on the leaves, then resume regular misting cycles. Hortus IBA Water Soluble Salts have a 0 hour REI and do not require re-entry PPE. The benefits of the Spray Drip Down method are: reduced chance of disease transfer compared to dipping, application is much faster and efficient, saving time and money. In addition, IBA is targeted to the foliage and stem, the parts of the plant with the greatest uptake efficiency for this hormone. This leads to greater rooting success and allows for multiple applications if necessary.

ADDITIONAL APPLICATION METHODS

As mentioned earlier, Hortus IBA Water Soluble Salts is a flexible product, allowing multiple application methods to fit any propagation process as described here:

Basal Quick Dip – use on cuttings in the growing season and dormant winter cuttings. The basal ends of the cuttings are dipped ¾ of an inch into the rooting solution and then stuck in the media.

Total Immerse – use for leafy cuttings in the growing season. The cuttings are totally immersed in the rooting solution for a few seconds and then stuck in the media.

Basal Long Soak – use on cuttings in the growing season and dormant winter cuttings. Immerse the basal end of cuttings in approximately 1 inch of rooting solution for 12 to 48 hours. Stick immediately or store.

Application by Basal Dip is the traditional method typically used for annual and perennial cuttings. The Total Immersion and Basal Long Soak methods are used more often for woody plants or otherwise difficult to root plants.

Hortus IBA Water Soluble Salts may also be used on ornamentals after transplant to increase rooting and growth. Apply by the spray down method as above. Experiment with a small number of plants before application to the entire crop.

ROOTING HORMONE BENEFIT BY CROP

The tables below show the relative expected benefit of using rooting hormone based on research at Michigan State University, see https://www.canr.msu.edu/news/rooting_hormones_improve_uniformity_among_vegetative_cuttings

Plants rated “High Benefit” or “Moderate Benefit”, will generally root faster and more evenly with addition of IBA salts. Those rated “Low Benefit” may not show enhanced rooting time or uniformity with the use of hormone. All genera will be subject to potential differences between various cultivars. However, the use of Hortus Water Soluble IBA salts will improve the rooting of most crops, and aid in efficient production of difficult to propagate crops.

ANNUALS: Ranking propagation benefit from rooting hormone

Low Benefit	Moderate Benefit	High Benefit	
Annual species			
<i>Abutilon</i>	<i>Alternanthera</i>	<i>Gazania</i>	<i>Bougainvillea</i>
<i>Coleus</i>	<i>Angelonia</i>	<i>Geranium, Zonal</i>	<i>Brachycome</i>
<i>Diascia</i>	<i>Antirrhinum</i>	<i>Helichrysum</i>	<i>Bracteantha</i>
<i>Heliotropium</i>	<i>Argyranthemum</i>	<i>Lantana</i>	<i>Calibrachoa</i>
<i>Impatiens –Double</i>	<i>Bacopa</i>	<i>Lobularia</i>	<i>Cineraria</i>
<i>Impatiens –New Guinea</i>	<i>Begonia –Hiemalis</i>	<i>Lophospermum</i>	<i>Crossandra</i>
<i>Ipomoea</i>	<i>Begonia –Reiger</i>	<i>Nemesia</i>	<i>Dahlia</i>
<i>Petchoa</i>	<i>Begonia – Rex</i>	<i>Oternaria</i>	<i>Dracaena</i>
<i>Petunia</i>	<i>Bidens</i>	<i>Pedilanthus</i>	<i>Geranium, Regal</i>
<i>Perilla</i>	<i>Brachycome</i>	<i>Plumbago</i>	<i>Heliotrope</i>
<i>Plectranthus</i>	<i>Calocephalus</i>	<i>Poinsettia</i>	<i>Hibiscus, tropical</i>
<i>Portulaca</i>	<i>Catharanthus</i>	<i>Pseuderanthemum</i>	<i>Lobelia</i>
<i>Setcreasea</i>	<i>Chamaesyce</i>	<i>Salvia</i>	<i>Mandevilla</i>
<i>Verbena</i>	<i>Clerodendrum</i>	<i>Santolina</i>	<i>Mimulus</i>
	<i>Cuphea</i>	<i>Scaevola</i>	<i>Osteospermum</i>
	<i>Diascia</i>	<i>Strobilanthes</i>	<i>Phlox drummondii</i>
	<i>Dipladenia</i>	<i>Torenia</i>	<i>Scaevola</i>
	<i>Fuchsia</i>	<i>Vinca major</i>	<i>Thunbergia</i>

PERENNIALS: Ranking propagation benefit from rooting hormone

Low Benefit	Moderate Benefit	High Benefit	
Perennial species			
<i>Achillea</i>	<i>Artemesia</i>	<i>Lavender</i>	<i>Baptisia</i>
<i>Ajuga</i>	<i>Buddleia</i>	<i>Leucanthemum</i>	<i>Dianthus</i>
<i>Artemesia</i>	<i>Campanula</i>	<i>Lobelia</i>	<i>Euphorbia</i>
<i>Gaillardia</i>	<i>Caryopteris</i>	<i>Malva</i>	<i>Gypsophila</i>
<i>Galium</i>	<i>Ceratostigma</i>	<i>Penstemon</i>	<i>Heuchera</i>
<i>Helenium</i>	<i>Coreopsis</i>	<i>Phlox paniculata</i>	<i>Hydrangea</i>
<i>Lamium</i>	<i>Delosperma</i>	<i>Phlox subulata</i>	<i>Iberis</i>
<i>Lysimachia</i>	<i>Erysimum</i>	<i>Rosemary</i>	<i>Lithodora diffusa</i>
<i>Monarda</i>	<i>Euonymus</i>	<i>Salvia</i>	
<i>Nepeta</i>	<i>Eupatorium</i>	<i>Scabiosa</i>	
<i>Pachysandra</i>	<i>Geranium</i>	<i>Vinca minor</i>	
<i>Perovskia</i>	<i>Hedera</i>	<i>Viola</i>	
<i>Sedum</i>	<i>Heliopsis</i>		
<i>Thymus</i>	<i>Hibiscus</i>		
<i>Veronica</i>	<i>Hypericum</i>		

Q&A:

Customized IPM programs

Jen Browning, PCA, Sr. Technical Specialist at BASF, shares a preventive approach to activating an IPM program with biological solutions.

WHAT'S NEW IN THE INDUSTRY FOR INTEGRATED PEST MANAGEMENT (IPM)?

Jen Browning: Everyone has noticed movement — companies and products changing hands and a longer cadence between new active ingredients, products, and biological control agents. While we're in this period of transition, we're seeing growers be very resourceful and more operations use hybrid approaches that include some biological solutions. Fewer are all-in on a single strategy, for example completely conventional, or all biological.

WHAT DOES THAT MEAN FOR GROWERS?

JB: It often means updating IPM programming to boost efficacy and considering more progressive or hybrid approaches. Even small changes to a program can make big differences to the bottom line. Changes might include replacing or adding applications, like including a low-cost adjuvant with fungicides or insecticides to lengthen residual or making additional sprays that increase control to improve plant quality. It can also mean replacing single active ingredient products with combos.

WHAT ARE SOME WAYS TO HYBRIDIZE IPM PROGRAMS?

JB: I like to recommend a simple entry point for biologicals in an operation: "Foundational Fridays." Every Friday, make applications of simple formulated biologicals. Those are bioinsecticides, biofungicides, beneficial nematodes, biorationals or any other biological product you apply like conventional chemistry. Foundational applications keep target pest pressures lower, helping the rest of the IPM program work better. In our BASF program, we recommend Nemasys® and Millenium® beneficial nematodes for fungus gnats and shore flies, and Velfer® fungal contact insecticide/miticide for aphids, thrips, whiteflies, mites and more. These are applied weekly, starting at the high rates for each product. When pest pressure drops below threshold for the target, you can reduce the rate; but you always make applications on Friday, so it stays on the calendar. Add in whatever other formulated biological products are needed, and that's Foundational Friday. The rest of the program works around that foundation.

WHY WOULD GROWERS CONSIDER BIOLOGICALS FROM A CHEMICAL COMPANY?

JB: BASF doesn't try to do everything in the biologicals arena; we chose a small number of things to do well. In Velfer, both the proprietary *Beauveria bassiana* strain and the formulation are unique to BASF, providing unmatched performance and plant safety in this category. We were the first to move fresh product to customers via "cold-tunnel logistics," so the product arrives alive, labeled for maximum shelf-life protection. Our beneficial nematode line that includes Nemasys and Millenium is also handled in the cold tunnel for direct delivery to end users. We bundle these products with technical, programming, and compatibility support, making it easy to integrate biologicals into the operation.

HAVE GROWERS TRIED AND BEEN SUCCESSFUL WITH FOUNDATIONAL FRIDAYS?

JB: Yes! They're already doing Conventional Tuesdays — maybe on a different day of the week — and all that's left is Beneficial Wednesdays for BCA releases if they want to go all in. Winter-Spring is the perfect time to start and an easy incorporation for new or established biological users. The system is flexible and dynamic, just like IPM. It's easy to adjust to the grower's operation, it's successful because it's scalable, and it just works.

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