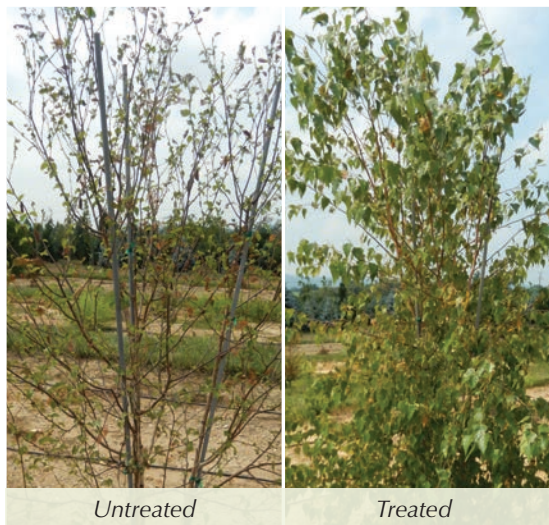




SHIELD CROPS FROM DAMAGING PESTS

Mainspring[®] GNL is a broad-spectrum, non-neonicotinoid insecticide that, when used preventively, keeps pest populations from building to damaging levels by stopping insect feeding upon ingestion. It can be applied as a spray or drench, and protects plants through both systemic and translaminar activity. The systemic activity of Mainspring GNL provides extended protection, saving time and labor on repeat applications.

WORKER SAFETY	VERSATILITY BENEFITS
<ul style="list-style-type: none"> • Short, four-hour restricted-entry interval (REI) • No REI if product is soil injected/drenched • No signal word • Registered by U.S. EPA under its Reduced Risk Program* • Minimal personal protective equipment for early entry: <ul style="list-style-type: none"> • Long sleeve shirt, long pants, shoes and socks 	<ul style="list-style-type: none"> • Compatible with many biological control agents • Use sites/Application methods: <ul style="list-style-type: none"> • Spray • Drench • Chemigation • Ebb-and-flood irrigation • In-ground soil drench • Bark treatment



Right: 8 fl. oz. Mainspring GNL foliar spray
 Trial conducted in 2015 by Gill, University of Maryland and Kunkel, University of Delaware

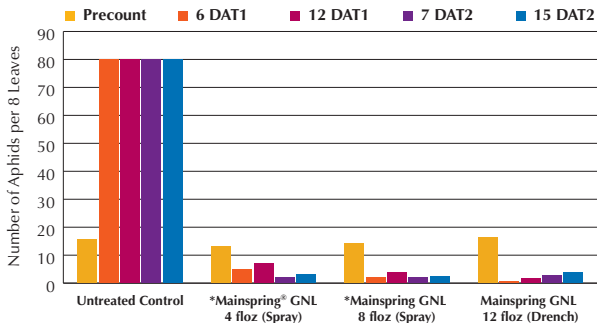
Resistance Management and Effectiveness

Mainspring GNL is powered by *cyantraniliprole*, a novel active ingredient in a recently added chemistry class (IRAC Group 28), which makes it an effective tool for plant protection and resistance management strategies.

Mainspring GNL quickly paralyzes insects so they stop feeding, which limits disease transmission and unsightly insect damage to foliage and flowers. Depending on the target pest, maximum mortality can be achieved in two to seven days.

SPRAY TRANSLAMINAR ACTIVITY	DRENCH SYSTEMIC ACTIVITY
<ul style="list-style-type: none"> • Penetrates plant cuticle to form reservoir within plant tissue 	<ul style="list-style-type: none"> • Taken up by roots and moves throughout plant canopy
<ul style="list-style-type: none"> • 14-21 days of protection 	<ul style="list-style-type: none"> • 8-10 weeks of protection or longer with higher use rates
RECOMMENDED USE RATES	
<ul style="list-style-type: none"> • 4-8 fl. oz. per 100 gal. 	<ul style="list-style-type: none"> • 8-12 fl. oz. per 100 gal.
<ul style="list-style-type: none"> • Higher use rates (up to 16 fl. oz.) may be used if needed for longer control (i.e. outdoor nursery production) 	<ul style="list-style-type: none"> • For large containerized or in-ground grown plants: 0.125-0.25 fl. oz. of product per foot of height or inch of trunk diameter at breast height (DBH)

CONTROL OF FOXGLOVE APHID (*AULACORTHUM SOLANI*) ON SALVIA



Treatments

Foliar spray applied twice on a 14-day interval March 13 & 25, 2015

Drench applied March 13, 2015

*CapSil® 6 fl. oz. /100 gal. added to treatments

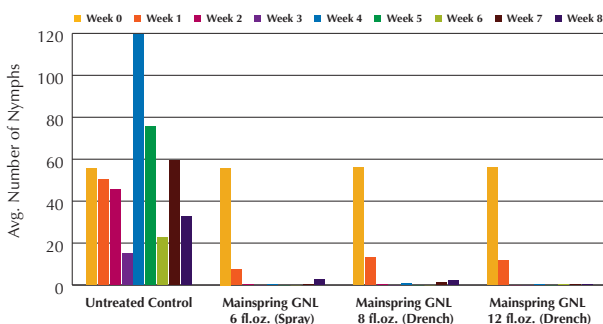
DAT = Days after treatment

2015 – Gilrein, Long Island Horticulture Research and Extension Center

TARGET INSECTS

- Aphids
- Caterpillars
- Leafminers
- Thrips
- Whiteflies
- White grubs
- Leaf-feeding beetles
- Lacebugs
- Soft scales
- Weevils
- Leafhoppers

CONTROL OF WHITEFLY (*BEMISIA TABACI* BIOTYPE Q) ON HIBISCUS



Treatments

Hibiscus plants grown in 4-inch containers

Drench treatment: 3 fl. oz.

Spray Treatment: Twice on 14-day interval

Six replicates

Counts made on two leaves per plant



Untreated

Treated

Right: Mainspring GNL 8 fl. oz. drench

Photos taken by Nancy Rechcigl
2016, Apopka

2016 – Osborne, UFL- Apopka

For more information about how Mainspring GNL can shield your greenhouse and nursery crops, please visit www.GreenCastOnline.com/MainspringGNL

*A reduced risk pesticide use is defined as one which may reasonably be expected to accomplish one or more of the following; (1) reduces pesticide risks to human health; (2) reduces pesticide risks to non-target organisms; (3) reduces the potential for contamination of valued, environmental resources, or (4) broadens adoption of IPM or makes it more effective. Mainspring GNL qualifies under one or more of the above criteria.



Mainspring® GNL
Insecticide

syngenta

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