

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00416	A	ALL CROPS (00=BLANKET)	PPWS	Walton,Vaughn (OR)	Combi Protec

Title Spotted Wing Drosophila Bait / All Crops

Nomination Justification (2022 CA) See request;

Potential Solutions (2022 CA) See request;

Comment

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00418	A	CARROT (01AB=ROOT VEGETABLES SUBGROUPS)	Orgnc	Chaudhari,Sushila (MI) ; Dittmar,Peter (FL)	Axxe; Avenger; HomePlate

Title Organic Weed Control / Carrot

Nomination Justification (2022 FL) See requestor comments.;

Potential Solutions (2022 FL) See request.;

Comment Limited knowledge for efficacy of various organic herbicide when used in stale bed situation; Avoid use of organic herbicides due to higher cost; due to weather flame weeding can be missed and then always big challenge to manage weeds in carrot.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00436	A	BEET (SUGAR) (01AB=ROOT VEGETABLES SUBGROUPS)	Resis	Hirnyck,Ronda (ID)	Ballad Plus; Double Nickel LC; Oxidate Broad Spectrum Bactericide/Fungicide; Super Tin 4L; Badge X2; Miravis Prime; Luna Tranquility; EBDB

Title Cercospora Diseases / Beet (Sugar)

Nomination Justification (2022 CA) See request;

Potential Solutions (2022 CA) See request;

Comment In major sugar beet growing regions, there are Cercospora strains resistant to several major fungicide groups. Research is needed to look at new fungicide combinations, some including biologicals as tank mix or rotational partners.

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00156	A	YAM (01CD=TUBEROUS AND CORM VEGETABLES SUBGROUPS)	PPWS	SOR Meeting,2015 (FL)	Debug Turbo EC; DiTera DF Biological Nematicide; MeloCon WG; Dominus; AzaGuard Botanical Insecticide/Nematicide; Majestene; Fluensulfone; Fluazaindolizine; Abamectin; Emamectin; Fluopyram

Title Tuber decay / yam

Nomination Justification (2022 FL) Solutions needed for diseases affecting true yam, which is a staple crop for Puerto Rico. New emerging diseases include Goplana sp. true yam rust.;

Potential Solutions (2022 FL) Omega; Elatus;

Comment Few options; chlorothalonil, copper, mancozeb.

2 projects with tuber decay being the higher priority. Nematicides. Requested by PR, see products registered. But not as a dip- dip presents worker exposure issues.

Causal agent: Pratylenchus (lesion) nematode-registered labels provided.Likely will not do project. Penicillium could be brought up 2019, after submitting new need to database.

SOR B

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00428	A	SWEET POTATO (01CD=TUBEROUS AND CORM VEGETABLES SUBGROUPS)	Organic/P PWS	Stoddard,Scott (CA)	Bifenthrin; Majestene; Belay

Title Wireworm / Sweet Potato

Nomination Justification (2022 CA) See request;(2022 FL) Need for efficacious products to manage soil pests in sweet potato as an alternative to chlorpyrifos.:(2022 MD) wireworm is the number one pest in the increasing interest in growing sweet potatoes in the northeast;

Potential Solutions (2022 CA) See request;(2022 FL) See request.:(2022 MD) Movento, Majestene;

Comment Efficacy data needed for Majestene bionematicide on wireworm control; more data needed on belay + bifenthrin efficacy as a PRE + POST program; continued evaluation of broflanilide

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00429	A	ONION (DRY BULB) (03-07A=ONION, BULB SUBGROUP)	Organic/P PWS	Fennimore,Steve (CA)	

Title Weeds (Annual General) / Onion (Dry Bulb)

Nomination Justification (2022 CA) See request;

Potential Solutions (2022 CA) See request;

Comment Here is the idea. we are working with band steaming. We can control weeds PRE with steam. In lettuce we are treating 4 inch bands. in seeded onion i think a 2 inch band steamed, followed by onion seeding, followed by post herbicides at the 2 leaf stage. Dacthal controlled the weeds from seeding to 2 leaf stage, then the onion is large enough to withstand herbicide injury from bromoxynil and other products. I am proposing to use steam to fill in this early need for weed control. I believe the nar

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00435	A	ONION (DRY BULB) (03-07A=ONION, BULB SUBGROUP)	PPWS	Walia,Maninder (NV)	Miteus; Hexygon

Title Bulb Mites / Onion (Dry Bulb)

Nomination Justification (2022 CA) See request;(2022 MD) see database comments;

Potential Solutions (2022 CA) See request;(2022 MD) not sure;

Comment To control bulb mites as an in-furrow treatment.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00347	A	LEAFY VEGETABLES (04-16=LEAFY VEGETABLE GROUP)	Orgnc	McGrath,Margaret (NY) ; Scheufele,Susan (MA)	Serenade Opti

Title Cercospora / Organic leafy greens (Spinach, Chard)

Nomination Justification (2022 MD) see previous comments;

Potential Solutions (2022 MD) Serenade Opti, Double Nickle, LifeGard;

Comment (8/18/2020) McGrath,Margaret: Common disease. Double Nickel and LifeGard are additional potential products.

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00431	A	LETTUCE (HEAD & LEAF) (04-16A=LEAFY GREENS SUBGROUP)	PPWS	Gilrein,Daniel (NY)	ISM-555

Title Thrips / Lettuce

Nomination Justification (2022 MD) Few options labeled/effective (methomyl, spinosad/spinetoram, neonics, Exirel, pyrethroids) issues of resistance (spinosad/spinetoram, pyrethroids) in populations or ltd. efficacy (neonics, Exirel, Harvanta. ISM-555 v effective for WFT from reports;

Potential Solutions (2022 MD) ISM-555;

Comment Few options labeled/effective (methomyl, spinosad/spinetoram, neonics, Exirel, pyrethroids) issues of resistance (spinosad/spinetoram, pyrethroids) in populations or ltd. efficacy (neonics, Exirel, Harvanta. ISM-555 v effective for WFT from reports

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00434	A	LETTUCE (GH) (04-16A=LEAFY GREENS SUBGROUP)	Organic/P PWS	Gebiola,Marco (AZ)	

Title Impatient Necrotic Spot Virus / Lettuce (GH)

Nomination Justification (2022 CA) See request;

Potential Solutions (2022 CA) See request;

Comment Impatiens necrotic spot virus is threatening the CA lettuce industry. Max allowable sprays of Lannate insecticide for thrips vectors are the only control available. Priming plant defenses with chitin/chitosan-based inducers is a viable alternative.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00146	A	BRASSICA LEAFY GREENS SUBGROUP (04-16B=BRASSICA LEAFY GREENS SUBGROUP)	Orgnc	Scheufele,Susan (MA) ; O'Neill,Greg (OR) ; Andrews,Nick (OR) ; Wallingford,Anna (NH)	Aza-Direct; M-Pede Insecticide Miticide Fungicide; Mycotrol ESO; Grandevo; Venerate XC; Entrust SC Naturalyte Insect Control; PyGanic Crop Protection EC 5.0 II; Nu Film P SPREADER AND STICKER; Molt-X

Title Cabbage aphid / Organic brassicas

Nomination Justification (2022 MD) Cabbage aphid is very common. Should be easy to work on.;

Potential Solutions (2022 MD) Aza-Direct; M-Pede Insecticide Miticide Fungicide; Mycotrol ESO; Grandevo; Venerate XC; Entrust SC Naturalyte Insect Control; PyGanic Crop Protection EC 5.0 II; Nu Film P SPREADER AND STICKER; Molt-X Adjuvants can be included as potential solutions;

Comment

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00427	A	CABBAGE (05-16=BRASSICA HEAD AND STEM VEGETABLE GROUP)	PPWS	Zaman,Furuque (NY)	Entrust SC Naturalyte Insect Control

Title Crucifer Flea Beetle / Cabbage

Nomination Justification (2022 MD) see database comments;

Potential Solutions (2022 MD) Entrust and other OMRI approved materials;

Comment Crucifer flea beetle is a major problem for brassica vegetable production. Organic growers are lack of effective flea beetle control option. Many OMRI products are registered but efficacy information on effective CFB control materials is necessary.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00430	A	BRASSICA HEAD & STEM VEGETABLES (05-16=BRASSICA HEAD AND STEM VEGETABLE GROUP)	Organic/P PWS	Gilrein,Daniel (NY)	Grandevo; Venerate XC; TetraCURB

Title Cabbage Aphid / Head and Stem Brassica Subgroup

Nomination Justification (2022 MD) No effective organic options. Insecticidal soaps and horticultural oils do not work.;

Potential Solutions (2022 MD) Grandevo; Venerate XC; TetraCURB;

Comment No effective organic options. Ins. soap, hort oil not effective.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00045	A	FRUITING VEGETABLES (08-10=FRUITING VEGETABLE GROUP)	Resis	Bledsoe,Michael (FL)	Achieve Liquid; Quassia Extract DM (In development)

Title Whitefly / GH fruiting vegetables

Nomination Justification (2022 FL) Need for Bemisia tabaci control in greenhouses; resistant to several chemistries.;

Potential Solutions (2022 FL) Spiropidion;

Comment

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00031	A	FRUITING VEGETABLES (08-10=FRUITING VEGETABLE GROUP)	PPWS	Legacy,Request (NJ) ; Henn,Alan (MS) ; Rideout,Steve (VA)	

Title Southern blight (Sclerotium rolfsii) / Tomato and pepper

Nomination Justification (2022 FL) Southern Blight persists as a major problem in the southeast; options are especially limited for organic producers.; Additional potential solutions identified. (By Janine Spies);

Potential Solutions (2022 FL) BioTam 2; Rootshield; TerraGrow; Indiflin, Funibiol Gold, Phytalix (By Janine Spies);

Comment Also PR# 10615. Had been considered covered by PR# 10712, but was reactivated by need expressed at SOR meeting: 08/18.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00030	A	FRUITING VEGETABLES (08-10=FRUITING VEGETABLE GROUP)	PPWS	Legacy,Request (NJ) ; Rideout,Steve (VA)	

Title Timber rot (Sclerotinia sclerotiorum)/ Fruiting vegetables

Nomination Justification (2022 FL) Timber rot remains a prevalent issue in fruiting vegetables.;

Potential Solutions (2022 FL) Miravis Prime; Contans (By Janine Spies);

Comment Also PR# 10711. Canadian interest: 09/11; per input from researchers, timber rot on tomato is still an important problem with no solution. They are seeing the disease regularly and more frequently in high tunnels. In previous PPWS trials, the disease did not develop sufficiently to be evaluated and no candidate product was moved toward being labeled/residue study. May be a tough disease to research, but tools needed: 08/18.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00050	A	FRUITING VEGETABLES (08-10=FRUITING VEGETABLE GROUP)	PPWS	Aglave,Balaji (FL) ; McGrath,Margaret (NY)	

Title Phytophthora capsici / Field fruiting vegetables

Nomination Justification (2022 MD) see database comments;

Potential Solutions (2022 MD) see database comments;

Comment (8/17/2020) McGrath,Margaret: Important disease. Guarda is a new product to consider evaluating. There are other projects on this disease.

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00400	A	FRUITING VEGETABLES (08-10=FRUITING VEGETABLE GROUP)	PPWS	Bessin,Ricardo (KY) ; Wallingford,Anna (NH)	Bifenthrin; Warrior
Title Stink Bug and Brown Marmorated / Fruiting Vegetables					
Nomination Justification (2022 FL) Evaluate efficacy of pre-treated nets on major pests of concern in fruiting vegetable crops.:(2022 MD) see database comment. Can we add flea beetle to this?;					
Potential Solutions (2022 FL) Bifenthrin, Warrior;(2022 MD) Bifenthrin, Warrior;					
Comment Insecticide impregnated netting is no longer commercially available. Need to get a pyrethroid labeled to treat netting for attract and kill traps used around fields.					

IS00438	A	TOMATO (FIELD) (08-10A=TOMATO SUBGROUP)	PPWS	Walengbach,Jim (NC)	MBI-306; Prev Am
Title Thrips, Western Flower / Tomato (Field)					
Nomination Justification (2022 MD) there is resistance to multiple thripicides;					
Potential Solutions (2022 MD) not sure;					
Comment Western flower thrips insecticide resistance has led to poor control in commercial tomatoes in NC due to scarred fruit. Marketable yields were reduced by 75% by several growers.					

IS00021	A	PEPPER (BELL & NONBELL) (08-10BC=PEPPER/NON-BELL PEPPER/EGGPLANT SUBGROUPS)	PPWS	Zhang,Shouan (FL) ; Sances, Frank (CA) ; McGrath,Margaret (NY) ; Cutulle,Matthew (SC)	Actinovate AG; Serenade Soil; BIO-TAM; Dominus
Title Phytophthora capsici / Peppers					
Nomination Justification (2022 FL) See requestor comments.;					
Potential Solutions (2022 FL) See request.;					
Comment Similar to IS00147 P. capsici / fruiting crops, cucurbits and IS00050 P. capsici / field veg. (8/17/2020) McGrath,Margaret: Important disease. Guarda is a new product to consider evaluating.					

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00070	A	EGGPLANT (08-10BC=PEPPER/NON-BELL PEPPER/EGGPLANT SUBGROUPS)	PPWS	Whalen,Joanne (DE) ; Culpepper,Stanley (GA)	PFR-97 20% WDG; Des-X Insecticidal Soap
		<u>Title</u> Flea beetles / Eggplant			

Nomination Justification (2022 FL) Efficacious products needed to manage flea beetles in conventional and organic production.;

Potential Solutions (2022 FL) ISM-555;

Comment Severe in organic

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00098	A	CUCURBIT VEGETABLES (09=CUCURBIT VEGETABLES GROUP)	PPWS	McGrath,Margaret (NY)	
		<u>Title</u> Bacterial leaf spot, angular leaf spot / cucurbit			

Nomination Justification (2022 MD) increasing problem. Might be a good crop to do the work on because it can tolerate some symptoms.;

Potential Solutions (2022 MD) garda;

Comment few options (8/18/2020) McGrath,Margaret: Important disease. Guarda is a new potential product.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00097	A	CUCURBIT VEGETABLES (GH) (09=CUCURBIT VEGETABLES GROUP)	Orgnc	McGrath,Margaret (NY)	Double Nickel LC; BacStop; Procidic
		<u>Title</u> Bacterial leaf spot, angular leaf spot / Organic cucurbit			

Nomination Justification (2022 MD) few options available;

Potential Solutions (2022 MD) Double Nickel LC; BacStop; Procidic;

Comment few options

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00147	A	CUCURBIT VEGETABLES (09=CUCURBIT VEGETABLES GROUP)	PPWS	McGrath,Margaret (NY) ; Scheufele,Susan (MA)	
Title Phytophthora capsici / Cucurbits					
Nomination Justification (2022 MD) see database comments;					
Potential Solutions (2022 MD) see database comments;					
Comment Mefenoxam; dimethomorph, OXTP, Gavel, Omega, Presidio, Ranman, Zampro, Forum, Revus, Tanos, Phosphorous Acid, Copper, Soilgard, Double Nickel, Serenade, Taegro, Actinovate, RootShield. (8/18/2020) McGrath,Margaret: Important disease. Guarda is a new product to consider evaluating. There are other projects on this disease.					

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00149	A	CUCURBIT VEGETABLES (09=CUCURBIT VEGETABLES GROUP)	Orgnc	McGrath,Margaret (NY) ; Scheufele,Susan (MA) ; Rahman,Mahfuz (WV) ; Hazelrigg,Ann (VT)	Double Nickel LC; Serenade Opti; Regalia; Badge X2; Champ WG
Title Downy mildew / Organic cucurbit					
Nomination Justification (2022 MD) Number of organic growers is increasing. Few options.;					
Potential Solutions (2022 MD) Double Nickel LC; Serenade Opti; Regalia; Badge X2; Champ WG; MBI-121, Theia, Guarda;					
Comment (8/17/2020) McGrath,Margaret: There are new products to consider evaluating including MBI-121, Theia, Guarda. (9/1/2020) Rahman,Mahfuz: We have increasing number of organic growers, who do not want to use any harsh chemicals.					

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00432	A	MELON (09A=MELON SUBGROUP)	Organic/P PWS	Gebiola,Marco (AZ)	
Title Crinivirus, mosaic virus / melon (GH)					
Nomination Justification (2022 CA) See request;					
Potential Solutions (2022 CA) See request;					
Comment Criniviruses and mosaic viruses are threatening the CA melon industry. Max allowable sprays of neonicotinoid insecticides are the only marginally effective controls. Priming plant defenses with chitin/chitosan-based inducers is a viable alternative.					

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00321	A	APPLE (11-10=POME FRUIT GROUP)	PPWS	Green,Thomas (WI) ; Futrell,Sue (WI) ; Cooley,Daniel (WI)	

Title Plum curculio / Apple

Nomination Justification (2022 FL) Need potential solutions for organic production.;

Potential Solutions (2022 FL) None;

Comment

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00398	A	PEACH (12-12B=PEACH SUBGROUP)	PPWS	Crisosto,Carlos (CA) ; Sarkhosh,Ali (FL) ; Melgar,Juan Carlos (SC)	ACCEDE

Title Peach/fruit thinning

Nomination Justification (2022 FL) See requestor comments.;

Potential Solutions (2022 FL) See request.;

Comment (9/2/2020) Carlos H. Crisosto: The historical alternative has been hand thinning. Hand thinning is a high contributor to the already high stone fruit production cost . Me-too comment, Fruit thinning low chill peaches in FL. It has been a very costly cultural practices for growers. Me-Too, Juan Carlos Melgar, SC; On top of the increase in production costs, the extensive acreage that needs to be thinned and the limited number of workers, also causes delays for many orchards; thinning late also affects fruit size, which also has an effect on farm productivity and sales.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00425	A	PEACH (12-12B=PEACH SUBGROUP)	Resis	Wang,Hehe (SC)	AgriPhage; Thyme Guard; Theia

Title Bacterial Spot (Xanthomonas) / Peach

Nomination Justification (2022 FL) See requestor comments.;

Potential Solutions (2022 FL) See request.; prohexadione calcium (Apogee), Howler, Regev, Double Nickel, and LifeGard (By Janine Spies);

Comment Bacterial spot of peach could cause up to \$20 million losses in SC and GA alone. Pathogens resistant/tolerant to the current chemical control options have emerged.

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00433	A	PEACH (12-12B=PEACH SUBGROUP)	Organic/P PWS	Stewart,Jane (CO)	

Title Cytospora / Peach

Nomination Justification (2022 CA) See request;

Potential Solutions (2022 CA) See request;

Comment There are no good organic options for Cytospora canker control for growers in Utah and Colorado.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00332	A	CANEBERRY (13-07A=CANEBERRY SUBGROUP)	Resis		

Title Fungicides resistant to Botrytis / Caneberry

Nomination Justification (2022 FL) Efficacious products needed to manage Botrytis cinerea, gray mold which has become resistant to several chemistries.;

Potential Solutions (2022 FL) Merivon; Aprovia or Aprovia Top;

Comment

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00439	A	GRAPE (13-07F=SMALL FRUIT VINE CLIMBING SUBGROUP, EXCEPT FUZZY KIWIFRUIT)	Organic/P PWS	Miles,Timothy (MI)	Howler; ENTRUST

Title Sour rot Complex/ Organic Grape

Nomination Justification (2022 FL) Strong interest for adding drosophila on the Entrust label for grapes.:(2022 MD) see database comments;

Potential Solutions (2022 FL) Entrust, Howler;(2022 MD) see database comments;

Comment Residues are an issue in grapes and currently the method to control sour rot involves Mustang Maxx and Switch, two fairly strong products one of which has a 7 d PHI. The project would look at the interactions of organic fungicides/insecticides.

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00355	A	STRAWBERRY (13-07G=LOW GROWING BERRY SUBGROUP)	Resis	Adaskaveg,Jim (CA)	Scala SC; Bravo Weather Stik; Kinoprol; Miravis Neo

Title Fungicides resistant to Botrytis / Strawberry

Nomination Justification (2022 MD) see database comments;(2022 CA) See request;

Potential Solutions (2022 MD) see database comments;(2022 CA) See request;

Comment

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00440	A	PECAN (14-12=TREE NUT GROUP)	Resis	Young-Ki,Jo (TX)	Tectus Matrix

Title Scab (All Species) / Pecan

Nomination Justification (2022 FL) See requestor comments.;

Potential Solutions (2022 FL) See request.;

Comment Scab is the most economically important disease in pecan in the U.S. and infamous of resistances development to major systemic fungicides. We request considering silver nanoparticles to remediate fungicide resistance in scab populations.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00392	A	CARINATA (BRASSICA CARINATA) (20A=RAPESEED SUBGROUP)	PPWS	Leon,Ramon (NC)	Prowl H2O; Stinger; Dual-Magnum; Fusilade DX; Devrinol

Title Weeds/Brassica carinata

Nomination Justification (2022 FL) See requestor comments.;

Potential Solutions (2022 FL) See request.;

Comment There are no herbicides registered for this crop, and commercial production is currently starting in the upper midwest and in the southeastern US. Carinata will be grown as a winter crop in the southeastern US to produce biojet fuel and seed meal for animal nutrition.

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00413	A	LYCHEE (24A=TROPICAL AND SUBTROPICAL, SMALL FRUIT, INEDIBLE PEEL SUBGROUP)	PPWS	Crane,Jonathan (FL)	

Title Mite, Eriophyid / Lychee

Nomination Justification (2022 FL) See requestor comments.;

Potential Solutions (2022 FL) Bexar, Portal;

Comment Up to 80% crop loss. From a landscape and nursery industry-home owner perspective it is a total disaster. Contact Drs. Revynthi and Carrillo for details.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00035	A	AVOCADO (24B=TROPICAL AND SUBTROPICAL, MEDIUM TO LARGE FRUIT, SMOOTH, INEDIBLE PEEL SUBGROUP)	PPWS	Legacy,Request (NJ)	Chrysal AVB

Title Laurel wilt / Avocado

Nomination Justification (2022 FL) THE FUNGUS RAFFAELEA LAURICOLA; CAUSAL AGENT OF THE LAUREL WILT DISEASE ON AVOCADOS; IS DEVASTATING THE AVOCADO INDUSTRY IN FLORIDA. PROPICONAZOLE INJECTED IS GIVING SOME CONTROL BUT SINCE THE FORMULATION IS AN EMULSION THE MOVEMENT IN THE AVOCADO TREE IS LIMITED AND COMPARTMENTALIZED AND IN MANY INSTANCES IT DOES NOT WORK. SILVER IS WATER SOLUBLE OR DISPERSED; THE PARTICLE SIZE IS VERY SMALL AND PENETRATION AND DISTRIBUTION IS VERY GOOD; IN ADDITION, NOT ONLY HAS FUNGICIDAL PROPERTIES BUT ALSO AFFECTS TYLOSE FORMATION THAT CLOGS THE VASCULAR SYSTEM. SILVER INHIBITS ETHYLENE ACTIVITY AN ETHYLENE TRIGGERS TYLOSE FORMATION.; Products needed that move well in the xylem and that need low ppm to either kill the fungus or prevent it from multiplying; drenched or translocated through foliar spray. (By Janine Spies);

Potential Solutions (2022 FL) Silver nanoparticles, Plinazolin; Rhyme; Trinity; Provisol/Avelyo; OMEGA 500; Disarm; Prochloraz (By Janine Spies);

Comment IR-4 residue studies (PR 11053 propiconazole and PR 11160); PR 11053 submitted to EPA for tolerance; tree injections; project related to IS00034 for ambrosia beetle/avocado

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00437	A	POMEGRANATE (24B=TROPICAL AND SUBTROPICAL, MEDIUM TO LARGE FRUIT, SMOOTH, INEDIBLE PEEL SUBGROUP)	PPWS	Wilkins,Erik (CA)	Envidor 2 SC; Stifle

Title Mite, Citrus Flat (Brevipalpus lewisi) / Pomegranate

Nomination Justification (2022 CA) See request;

Potential Solutions (2022 CA) See request;

Comment Currently one AI registered for control. Rotational products are registered but not yet studied in pomegranates

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00065	A	DRAGON FRUIT (PITAYA) (24D=TROPICAL AND SUBTROPICAL, CACTUS, INEDIBLE PEEL SUBGROUP)	PPWS	Crane,Jonathan (FL)	BotaniGard ES

Title Chilli thrip / Dragon Fruit (Pitaya)

Nomination Justification (2022 FL) There are a few ineffective and/or non-residual action insecticides for dragon fruit (e.g., Aza-Direct, Captiva) to control thrips on dragonfruit. Thrips infestation may occur very rapidly and with up to 80% crop loss in some years. An effective insecticide (really more than one is needed) is needed for commercial producers. High priority for Florida producers.;

Potential Solutions (2022 FL) Plinazolin, Exirel;

Comment There is a PPWS already for this in the food program (11601). Daniel Carrillo could never find an infestation to run the trial. Protocol signed in 2015. After 3 years, he gave up. I wonder how important the pest is if I can't get even one successful trial.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00057	A	BASIL (25AB=HERB FRESH AND DRIED LEAVES SUBGROUP)	PPWS	Gu,Mengmeng (TX) ; Zhang,Shouan (FL) ; McGrath,Margaret (NY)	

Title Downy mildew / Basil

Nomination Justification (2022 FL) Pathogen very prone to fungicide resistance, we have few effective options.;

Potential Solutions (2022 FL) None.;

Comment Several registrations for conventional and biopesticide/organic products (Ranman, OXTP, Reason, Presidio, Phosphorous Acid, Revus, mfenoxam, azoxystrobin, oxidate, Milstop, Actinovate, Trilogy, Procicid, Regalia) but no highly efficacious biopesticide/organic products available. Me Too Request: 07/21;

2022 Integrated Solutions 'A' Priority Nominations



Print Date: 9/6/2022

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00410	A	STEVIA (25AB=HERB FRESH AND DRIED LEAVES SUBGROUP)	Resis	Jennings,Katie (NC)	Lorox DF; Ultra Blazer

Title Weeds (Annual General)

Nomination Justification (2022 FL) See requestor comments.;

Potential Solutions (2022 FL) See request.;

Comment Carfentrazone has a tolerance established and the MFG is reviewing trial data from North Carolina for a possible post-directed label. IR-4 has an ongoing flumioxazin project (12542); pre-transplant spray followed by post-directed spray. PR# 12542. IR-4 has a halosulfuron row middle project PR#12049 Dual Magnum has 24c in NC.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00386	A	HEMP (99=MISC GROUP)	PPWS	Bessin,Ricardo (KY)	Harvanta

Title Hemp/Aphid (Aphididae) control

Nomination Justification (2022 FL) Need for effective/conventional products to manage root aphid in hemp.;

Potential Solutions (2022 FL) Harvanta; Movento;

Comment There are currently no registered materials for iPiercing and sucking insect pests (aphids, whiteflies, thrips) control in hemp

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00426	A	QUINOA (99=MISC GROUP)	PPWS	Hirnyck,Ronda (ID) ; Lightle,Dani (OR)	Betamix Ultra; Matrix; Nortron SC; Outlook; Dual-Magnum; Devrinol; Sonalan; Ro-Neet; Tagra; Zidua

Title Weed Control / Quinoa

Nomination Justification (2022 CA) See request;

Potential Solutions (2022 CA) See request;

Comment There are no herbicides registered for quinoa. Quinoa is sensitive to many herbicides, therefore it is difficult to grow the crop due to weed infestations. Need to test a variety of herbicides to find one that is safe and effective.

Total A Nomination 43