

2021 Integrated Solutions 'A' Priority Nominations



Print Date: 9/2/2021

<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	ALL CROPS (00=BLANKET)	PPWS	Bessin,Ricardo (KY)	Bifenthrin; Warrior

Title Stink Bug and Brown Marmorated / All Crops

Nomination Justification (2021 MD) See previous comments;(2021 FL) ;

Potential Solutions (2021 MD) See previous comments;(2021 FL) ;

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.

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IS00416	A	ALL CROPS (00=BLANKET)	PPWS	Walton,Vaughn (OR)	Combi Protec

Title Spotted Wing Drosophila Bait / All Crops

Nomination Justification (2021 CA) See submission;

Potential Solutions (2021 CA) See submission;

Comment

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IS00403	A	PARSNIP (01AB=ROOT VEGETABLES SUBGROUPS)	Orgnc	Buckland,Kristine (OR)	Entrust SC Naturalyte Insect Control

Title Parsnip/Seed Corn Maggot

Nomination Justification (2021 CA) See submission;

Potential Solutions (2021 CA) See submission;

Comment We have seen total field loss in the last 2 years at multiple locations in organic parsnip production due to lack of any registered products to protect the seed during long germination and emergence period of parsnip.

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IS00418	A	CARROT (01AB=ROOT VEGETABLES SUBGROUPS)	Orgnc	Chaudhari,Sushila (MI)	Axxe; Avenger; HomePlate
Title Organic Weed Control / Carrot					
Nomination Justification (2021 MI) 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.;					
Potential Solutions (2021 MI) Axxe; Avenger; HomePlate;					
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.					

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IS00093	A	POTATO (01C=TUBEROUS AND CORM VEGETABLES SUBGROUP)	Orgnc	Sideman,Eric (NH) ; Nault,Brian (NY)	Novodor Flowable Concentrate
Title Colorado potato beetle / Organic potato					
Nomination Justification (2021 MD) see previous comments;					
Potential Solutions (2021 MD) Novodor and other B.t.t. products;					
Comment (8/8/2020) Nault,Brian: More highly effective products are needed besides Entrust SC (spinosad) to manage CPB in organically produced potato. Novodor and other B.t.t. products should be evaluated along with other organically approved products.					

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IS00105	A	POTATO (01C=TUBEROUS AND CORM VEGETABLES SUBGROUP)	Orgnc	Seaman,Abby (NY)	
Title Potato leafhopper / Organic potato					
Nomination Justification (2021 MD) ;(2021 MD) Important in Northeast;					
Potential Solutions (2021 MD) ;(2021 MD) If no potential solutions are identified we will take a B;					
Comment					

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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 (2021 FL) Need an alternative to vydate to manage nematodes causing tuber decay.;

Potential Solutions (2021 FL) AzaGuard Botanical Insecticide/Nematicide; Majestene; Fluensulfone; Fluazaindolizine; Abamectin; Emamectin; Fluopyram;

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

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IS00161	A	SWEET POTATO (POST HARVEST) (01CD=TUBEROUS AND CORM VEGETABLES SUBGROUPS)	Orgnc	Quesada-Ocampo,Lina Maria (NC)	

Title Fungi / Post harvest organic sweet potato

Nomination Justification (2021 FL) Post harvest diseases in sweet potato; need for organic fungicides to manage post harvest fungal pathogens.;

Potential Solutions (2021 FL) New products from AgBiome, Agrospheres;

Comment

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IS00100	A	BRASSICA LEAFY GREENS SUBGROUP (04-16B=BRASSICA LEAFY GREENS SUBGROUP)	PPWS	McGrath,Margaret (NY)	
		<u>Title</u> Black rot (Xanthamonas) / Brassica			

Nomination Justification (2021 MD) few options. important pest;

Potential Solutions (2021 MD) need to identify potential products or will take a B;

Comment few options

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IS00143	A	BRASSICA HEAD & STEM VEGETABLES (05-16=BRASSICA HEAD AND STEM VEGETABLE GROUP)	Orgnc	Seaman,Abby (NY) ; Fleischer,Shelby (PA)	Aza-Direct; Veratran D
		<u>Title</u> Swede midge / Organic crucifers			

Nomination Justification (2021 MD) See previous comments;

Potential Solutions (2021 MD) See previous comments;

Comment (7/31/2020) Fleischer,Shelby: Swede midge expanded its geographic range into Pennsylvania in 2020, damaging organic crops.

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IS00144	A	BEAN & PEA (DRIED SHELLED) (06C=DRIED SHELLED PEA/BEAN (EXCEPT SOYBEAN) SUBGROUP)	Orgnc	Seaman,Abby (NY) ; Fleischer,Shelby (PA)	Regard
		<u>Title</u> Seedcorn maggot / Organic beans			

Nomination Justification (2021 MD) ;(2021 MD) See previous comments;

Potential Solutions (2021 MD) ;(2021 MD) need more potential products to test;

Comment (7/31/2020) Fleischer,Shelby: Seedcorn maggot has been an increasing problem in both conventional and organic farming operations. Organic growers have no other effective control option.

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IS00411	A	BEAN (MUNG) (06C=DRIED SHELLED PEA/BEAN (EXCEPT SOYBEAN) SUBGROUP)	Resis	Mueller,Darren (IA)	Proline; llevo; Stamina; Bioconsortia; Maxim 4FS
<u>Title</u> Root Rot / Mung Bean					
<u>Nomination Justification</u> (2021 MI) US mung bean values increased by 30%,acres increased by 10%, exports increased by 16%, while per capita availability decreased by 7%. Root diseases greatly impact plant health in the US, but no organic products or seed treatments exist.;					
<u>Potential Solutions</u> (2021 MI) Proline; llevo; Stamina; Bioconsortia; Maxim 4FS;					
<u>Comment</u> US mung bean values increased by 30%,acres increased by 10%, exports increased by 16%, while per capita availability decreased by 7%. Root diseases greatly impact plant health in the US, but no organic products or seed treatments exist.					

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IS00419	A	BEAN (MUNG) (06C=DRIED SHELLED PEA/BEAN (EXCEPT SOYBEAN) SUBGROUP)	PPWS	Jha,Prashant (IA)	Basagran; Outlook; Prowl H2O; Dual-Magnum; Ultra Blazer; Reflex
<u>Title</u> Postemergence broadleaf weed control / Bean (Mung)					
<u>Nomination Justification</u> (2021 MI) Mung bean is a short stature crop and not very competitive to the weeds. Additionally, currently there is only one herbicide registered to use in this crop for weed control.;					
<u>Potential Solutions</u> (2021 MI) Basagran; Outlook; Prowl H2O; Dual-Magnum; Ultra Blazer; Reflex;					
<u>Comment</u> Mung bean is a short stature crop and not very competitive to the weeds. Additionally, currently there is only one herbicide registered to use in this crop for weed control.					

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IS00031	A	FRUITING VEGETABLES (08-10=FRUITING VEGETABLE GROUP)	PPWS	Legacy,Request (NJ) ; Henn,Alan (MS)	
<u>Title</u> Southern blight (Sclerotium rolfsii) / Tomato and pepper					
<u>Nomination Justification</u> (2021 FL) Southern Blight has increasingly become a problem in the southeast; options are especially limited for organic producers.;					
<u>Potential Solutions</u> (2021 FL) BioTam 2, Rootshield;					
<u>Comment</u> Also PR# 10615. Had been considered covered by PR# 10712, but was reactivated by need expressed at SOR meeting: 08/18.					

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IS00030	A	FRUITING VEGETABLES (08-10=FRUITING VEGETABLE GROUP)	PPWS	Legacy,Request (NJ)	

Title Timber rot (Sclerotinia sclerotiorum)/ Fruiting vegetables

Nomination Justification (2021 MD) high priority in the northeast.;

Potential Solutions (2021 MD) If no potential solutions are identified by the 2021 FUW we will take a B;

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 (2021 MD) see previous comments;

Potential Solutions (2021 MD) combine with IS00021?;

Comment (8/17/2020) 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>
IS00099	A	FRUITING VEGETABLES (08-10=FRUITING VEGETABLE GROUP)	Orgnc	McGrath,Margaret (NY) ; Ivey,Melanie (LA)	Double Nickel LC; BacStop; Procidic

Title Bacterial diseases (speck, spot, canker) / Organic fruiting vegetables

Nomination Justification (2021 MD) This is an important disease problem in the Northeast.:(2021 MI) Bacterial diseases (speck, spot, canker) / Organic fruiting vegetables;

Potential Solutions (2021 MD) We have worked on this in the past and reports are available. If a list of potential solutions is not identified before or at the 2021 FUW we will take a B.:(2021 MI) Double Nickel LC; BacStop; Procidic;

Comment

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IS00089	A	TOMATO (08-10A=TOMATO SUBGROUP)	Resis	McGrath,Margaret (NY) ; Hausbeck,Mary (MI)	
 <u>Title</u> Bacterial speck, spot, canker / tomato					
<u>Nomination Justification</u> (2021 MD) see previous comments;					
<u>Potential Solutions</u> (2021 MD) need list of potential products or will take a B;					
<u>Comment</u> More data needed? P10713 PPWS Bacterial Diseases / Fruiting Vegetables (GH Transplants): After a two year study, at 15 locations; the only effective products were antibiotics. Also see Biopesticide project results, tested in the field. Extremely difficult to register antibiotics at this time, on annual crops. Looking for other new solutions. SPOT is the key problem. Efforts start in the GH (8/16/2020) McGrath,Margaret: These diseases are hard to manage with copper. Speck and Canker are most important in Northeast.					

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IS00415	A	TOMATO (FIELD) (08-10A=TOMATO SUBGROUP)	Orgnc	Lloyd,Margaret (CA)	Entrust SC Naturalyte Insect Control; Cinerrate; Ecotrol
 <u>Title</u> Thrips / Tomato					
<u>Nomination Justification</u> (2021 CA) See submission;					
<u>Potential Solutions</u> (2021 CA) See submission;					
<u>Comment</u> Despite growers' efforts to explore materials, they do not feel they have a clear idea of product efficacy. Product cost ranges significantly and sprays are frequent. Thrips transmit TSWV and compromise production.					

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IS00021	A	PEPPER (BELL & NONBELL) (08-10BC=PEPPER/NON-BELL PEPPER/EGGPLANT SUBGROUPS)	PPWS	Zhang,Shouan (FL) ; Sances, Frank (CA) ; McGrath,Margaret (NY)	Actinovate AG; Serenade Soil; BIO-TAM; Dominus
 <u>Title</u> Phytophthora capsici / Peppers					
<u>Nomination Justification</u> (2021 MI) 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.:(2021 MD) see previous comments;					
<u>Potential Solutions</u> (2021 MI) Actinovate AG; Serenade Soil; BIO-TAM; Dominus;(2021 MD) see previous comments;					
<u>Comment</u> 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.					

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IS00098	A	CUCURBIT VEGETABLES (09=CUCURBIT VEGETABLES GROUP)	PPWS	McGrath,Margaret (NY)	

Title Bacterial leaf spot, angular leaf spot / cucurbit

Nomination Justification (2021 MD) see previous comments;

Potential Solutions (2021 MD) Guarda. Others?;

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

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IS00127	A	CUCURBIT VEGETABLES (09=CUCURBIT VEGETABLES GROUP)	Orgnc	McGrath,Margaret (NY) ; Straw,Allen (VA) ; Sciarrotta,Laura (NJ)	

Title Downy mildew / Organic cucurbits

Nomination Justification (2021 MD) Important in the Northeast;

Potential Solutions (2021 MD) there is an on going trial; IS00344 testing 10 products. Perhaps a second year of IS00344 including any new suggested products would be wise. Guarda is suggested, but it is not organic, can it be incorporated into the trial? IS00149 could also be covered.;

Comment (8/17/2020) McGrath,Margaret: There are new products to consider evaluating including MBI-121, Theia, Guarda. Guarda is a non-organic biopesticide that conventional growers would be interested in if more effective than organic biopesticides including thymol products. This project is same as IS00149.

<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 (2021 MD) see previous comments;

Potential Solutions (2021 MD) see previous 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.

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IS00149	A	CUCURBIT VEGETABLES (09=CUCURBIT VEGETABLES GROUP)	Orgnc	McGrath,Margaret (NY) ; Scheufele,Susan (MA) ; Rahman,Mahfuz (WV)	Double Nickel LC; Serenade Opti; Regalia; Badge X2; Champ WG
<u>Title</u> Downy mildew / Organic cucurbit					
<u>Nomination Justification</u> (2021 MD) Important in the Northeast;(2021 MI) (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>Potential Solutions</u> (2021 MD) there is an on going trial; IS00344 testing 10 products. Perhaps a second year of IS00344 including any new suggested products would be wise. Guarda is suggested, but it is not organic, can it be incorporated into the trial? IS00127 could also be covered.:(2021 MI) Double Nickel LC; Serenade Opti; Regalia; Badge X2; Champ WG;					
<u>Comment</u> (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.					

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IS00302	A	CUCURBIT VEGETABLES (09=CUCURBIT VEGETABLES GROUP)	Orgnc	McGrath,Margaret (NY) ; Sciarrotta,Laura (NJ)	
<u>Title</u> Phytophthora / Organic Cucurbits					
<u>Nomination Justification</u> (2021 MD) Important disease in Northeast;					
<u>Potential Solutions</u> (2021 MD) Potentially combine with IS00147. If a list of potential products to test is not identified before of during the 2021 FUW we will take a B.;					
<u>Comment</u> (8/18/2020) McGrath,Margaret: Important disease. There are other projects on this disease.					

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IS00110	A	SQUASH (SUMMER) (09B=SQUASH/CUCUMBER SUBGROUP)	PPWS	McGrath,Margaret (NY) ; Hausbeck,Mary (MI)	
<u>Title</u> Phytophthora crown and fruit rot / Summer squash					
<u>Nomination Justification</u> (2021 MD) Important disease in the Northeast;					
<u>Potential Solutions</u> (2021 MD) There are many phytophthora requests. Potentially combine with IS00021? Currently cucurbit work is ongoing. If a list of potential products to test is not identified we will take a B.;					
<u>Comment</u> Could use more options (conventionals include Presidio, Revus, Acrobat/Forum, Gavel) more of a problem on winter squash. (8/17/2020) McGrath,Margaret: Important disease. Guarda is a new product to consider evaluating. There are other projects on this disease.					

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IS00345	A	SQUASH (09B=SQUASH/CUCUMBER SUBGROUP)	Orgnc	Seaman,Abby (NY) ; Fleischer,Shelby (PA)	Regard

Title Seedcorn maggot / Organic squash

Nomination Justification (2021 MD) See previous comments;

Potential Solutions (2021 MD) need more products to test;

Comment (7/31/2020) Fleischer,Shelby: Seedcorn maggot has been an increasing problem in both conventional and organic farming operations. Organic growers have no other effective control option.

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IS00409	A	SQUASH (SUMMER) (09B=SQUASH/CUCUMBER SUBGROUP)	Resis	Liburd,Oscar (FL)	Kitoenol

Title Whitefly / Squash

Nomination Justification (2021 FL) Squash pests have become resistant to a number of conventional pesticides. More alternatives with different modes of action are needed for resistance management.;

Potential Solutions (2021 FL) Ketoenol (spidoxamat);

Comment This will provide more alternatives for resistance management and effective control of whiteflies. The big four including Imidacloprid, Spiromesifen, Buprofezin and Cyantraniliprole have does not provide sufficient and effective control

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IS00059	A	APPLE (11-10=POME FRUIT GROUP)	Orgnc	Grose,Julianne (UT) ; Polk,Dean (NJ) ; Peter,Kari (PA) ; Birmingham,Deirdre (WI)	Fire Quencher (In development)

Title Fire blight (Erwinia amylovora) Organic / Apples

Nomination Justification (2021 MD) Important disease in Northeast. 2 years have been funded under IS00368. Still evaluating results.;

Potential Solutions (2021 MD) If no potential new solutions are suggested before or during the 2021 FUW we will take a B;

Comment

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IS00140	A	PEAR (11-10=POME FRUIT GROUP)	Orgnc	Peter,Kari (PA) ; Birmingham,Deirdre (WI)	

Title Fire blight (Erwinia amylovora) / Organic Pears

Nomination Justification (2021 MD) Important in Northeast;

Potential Solutions (2021 MD) If no potential new solutions are suggested before or during the 2021 FUW we will take a B;

Comment

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IS00324	A	APPLE (11-10=POME FRUIT GROUP)	PPWS	Green,Thomas (WI) ; Futrell,Sue (WI) ; Cooley,Daniel (WI)	Kaligreen; Serenade Opti; Regalia

Title Fire blight (Erwinia amylovora) / Apple

Nomination Justification (2021 MD) Important in Northeast;

Potential Solutions (2021 MD) If no potential new solutions are suggested before or during the 2021 FUW we will take a B;

Comment few options

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IS00421	A	CROP GROUP 11-10 (11-10=POME FRUIT GROUP)	Orgnc	Adaskaveg,Jim (CA)	ACCEDE; Triton X77; Ammonium Nitrate + Triton X-77; Tergitol TMN-6

Title Fruit Thinning / Pome Fruits

Nomination Justification (2021 CA) See submission;

Potential Solutions (2021 CA) See submission;

Comment Manual labor costs are becoming prohibitive for fruit thinning, A PGR for thinning flowers could be very beneficial to the industry.

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IS00420	A	CROP GROUP 12-12 (12-12=STONE FRUIT GROUP)	Orgnc	Adaskaveg,Jim (CA)	ACCEDE; Triton X77; Ammonium Nitrate + Triton X-77; Tergitol TMN-6

Title Fruit Thinning / Stone Fruits

Nomination Justification (2021 CA) See submission;

Potential Solutions (2021 CA) See submission;

Comment Manual labor costs are becoming prohibitive for fruit thinning, A PGR for thinning flowers could be very beneficial to the industry.

<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 (2021 CA) See submission;

Potential Solutions (2021 CA) See submission;

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.

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IS00026	A	BERRY & SMALL FRUIT (13-07=BERRY AND SMALL FRUIT GROUP)	PPWS	Legacy,Request (NJ) ; Rodriguez-Saona,Cesar (NJ) ; Fanning,Philip (ME) ; Sial,Ashfaq (GA) ; Loeb,Greg (NY) ; Chiu,Joanna (CA) ; Demchak,Kathy (PA) ; Isaacs,Rufus (MI) ; Wallingford,Anna (NH)	

Title Spotted wing drosophila / Berries

Nomination Justification (2021 MD) Combi-Protec uses much less insecticide to manage SWD and thus has the potential to reduce grower costs, lower environmental risks, and lower residues needed to export berries;(2021 MI) Improved control of SWD. This is a feeding attractant that has been very successful in Europe, and is being tested across the US this summer.;

Potential Solutions (2021 MD) Combi-Protec;(2021 MI) Combi-Protec;

Comment ME TOO REQUEST, NJ:02/21, CESAR RODRIGUEZ-SAONA; ME TOO REQUEST, GA: 03/21, ASHFAQ SIAL;ME TOO REQUES, ME: 03/21 PHILIP FANNING; ME TOO REQUEST, NY:07/21; ME TOO REQUEST, CA, PA, MI, NH, 08/21.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00012	A	GRAPE (13-07F=SMALL FRUIT VINE CLIMBING SUBGROUP, EXCEPT FUZZY KIWIFRUIT)	Orgnc	Schilder,Annemiek (MI) ; Rahman,Mahfuz (WV) ; Hu,Mengjun (MD) ; Demchak,Kathy (PA)	

Title Black rot/ Organic grapes

Nomination Justification (2021 MD) Important in the Northeast. Potentially combine with IS00414;

Potential Solutions (2021 MD) If no new potential are identified before or during the 2021 FUW we will take a B;

Comment (8/28/2020) Rahman,Mahfuz: Lime sulfur is often recommended by us, but there is no data available on the efficacy. Application of lime sulfur in pre-budbreak stage and Pristine during bloom should be evaluated for integrated option. (9/3/2020) Hu,Mengjun: Black rot is a major barrier to the organic production of grapes on the eastern US. Several OMRI approved products have been labelled for its control, but efficacy data is limited. BR infection is known to occur during bloom until 6 weeks postbloom, which help narrow down timing of applications.

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<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00414	A	GRAPE (13-07F=SMALL FRUIT VINE CLIMBING SUBGROUP, EXCEPT FUZZY KIWIFRUIT)	Mitig	Rahman,Mahfuz (WV)	
		<u>Title</u> Black Rot / Grape			

Nomination Justification (2021 MD) Important in Northeast. Potentially combine with IS00012;

Potential Solutions (2021 MD) If no new potential are identified before or during the 2021 FUW we will take a B;

Comment Testing Tebuconazole combined with different cultural practices such as effect of pruning, debris removal and application of lime sulfur prior to bud break. Many smaller growers do not want to buy more expensive chemistries due to cost considerations.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00115	A	STRAWBERRY (13-07G=LOW GROWING BERRY SUBGROUP)	PPWS	Schilder,Annemiek (MI)	
		<u>Title</u> Rhizoctonia / Strawberry			

Nomination Justification (2021 MD) Northeast interest.;

Potential Solutions (2021 MD) ASD and beneficial microbes.;

Comment Few options

<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		
		<u>Title</u> Fungicides resistant to Botrytis / Strawberry			

Nomination Justification (2021 MD) Northeast interest;

Potential Solutions (2021 MD) spring sanitation combined with Serenade or similar product;

Comment

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<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00408	A	STRAWBERRY (13-07G=LOW GROWING BERRY SUBGROUP)	Resis	Liburd,Oscar (FL)	BCS-CW64997
Title Mite / Strawberry (Field)					
Nomination Justification (2021 FL) There is a need for efficacious products that can be rotated in a integrated pest management program and that have minimal negative impact on beneficial organisms.;					
Potential Solutions (2021 FL) BCS-CW64997;					
Comment Provides alternatives to currently labelled products for the purpose of resistance management and increase efficacy					

IS00405	A	ALMOND (14-12=TREE NUT GROUP)	Resis	Britt,Kadie (CA) ; Wilson,Houston (CA)	Intrepid 2F; Spear Lep; Leprotec; Verdepryn 100 SL
Title Navel Orangeworm / Almond					
Nomination Justification (2021 CA) See submission;					
Potential Solutions (2021 CA) See submission;					
Comment Navel orangeworm, Amyelois transitella, is a damaging pest of almond. Conventional insecticides are frequently used, such as the pyrethroid Bifenthrin, and resistance is beginning to occur.					

IS00401	A	RICE, ORGANIC (15-16=CEREAL GRAINS AND CEREAL GRAINS FORAGE/FODDER/STRAW GROUPS)	Orgnc	Brim-DeForest,Whitney (CA)	Suppress
Title Rice/Broadleaf, Sedge, Grass, Weeds					
Nomination Justification (2021 CA) See submission;					
Potential Solutions (2021 CA) See submission;					
Comment This is the only herbicide registered in organic rice in California. However, it is non-selective and cannot be applied once rice has emerged. This project would provide data to support a pre-plant usage of the product.					

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<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00402	A	RICE, WILD (15-16=CEREAL GRAINS AND CEREAL GRAINS FORAGE/FODDER/STRAW GROUPS)	Resis	Brim-DeForest, Whitney (CA)	Clincher SF; Grandstand R; Granite GR; Granite SC; SuperWham; Loyant
<u>Title</u> Rice/Broadleaf, Sedge, Grass, Weeds					
<u>Nomination Justification</u> (2021 CA) See submission;					
<u>Potential Solutions</u> (2021 CA) See submission;					
<u>Comment</u> Lack of alternatives. Only one herbicide Shark H2O (carfentrazone) is currently registered for use in wild rice in California.					

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00423	A	OLIVE (23A=TROPICAL AND SUBTROPICAL, SMALL FRUIT, EDIBLE PEEL SUBGROUP)	PPWS	Kron, Cindy (CA)	GF-120 Naturalyte Fruit Fly Bait; Success; Delegate WG
<u>Title</u> Olive Fruit Fly / Olive					
<u>Nomination Justification</u> (2021 CA) See submission;					
<u>Potential Solutions</u> (2021 CA) See submission;					
<u>Comment</u> Lack of alternatives					

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00406	A	FIG (23B=TROPICAL AND SUBTROPICAL, MEDIUM TO LARGE FRUIT, EDIBLE PEEL SUBGROUP)	PPWS	Britt, Kadie (CA) ; Wilson, Houston (CA)	Danitol 2.4 EC Spray; GF-120 Naturalyte Fruit Fly Bait; Entrust SC Naturalyte Insect Control
<u>Title</u> Black Fig Fly / Fig					
<u>Nomination Justification</u> (2021 CA) See submission;					
<u>Potential Solutions</u> (2021 CA) See submission;					
<u>Comment</u> Black Fig Fly, <i>Silba adipata</i> , a fig pest common in the Mediterranean and Middle East regions, has recently been detected in California. As this is a new, invasive insect pest to California, there is little information on management strategies.					

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<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00407	A	FIG (23B=TROPICAL AND SUBTROPICAL, MEDIUM TO LARGE FRUIT, EDIBLE PEEL SUBGROUP)	PPWS	Britt,Kadie (CA) ; Wilson,Houston (CA)	Intrepid 2F; Verdepryn 100 SL

Title Navel Orangeworm / Fig

Nomination Justification (2021 CA) See submission;

Potential Solutions (2021 CA) See submission;

Comment Navel orangeworm, *Amyelois transitella*, is a damaging pest of fig in California and its biology in the crop is poorly understood. Thus, it is difficult to appropriately time insecticide applications.

<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 (2021 FL) There is an urgent need to identify acaricide treatments to control lychee erinose mite (LEM) populations. LEM was first detected in FL in 2018 and has now spread to several counties in central and south Florida. This pest may cause up to 80% reduction in fruit production. No miticides are currently labelled in lychee.;

Potential Solutions (2021 FL) Sulfur, spiromesifen, BCS-CW64991;

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)	

Title Laurel wilt / Avocado

Nomination Justification (2021 FL) Laurel wilt has devastated the avocado industry in Florida. There is an urgent need for products to manage this disease.;

Potential Solutions (2021 FL) Tilt, Luna Sensation;

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

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<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00034	A	AVOCADO (24B=TROPICAL AND SUBTROPICAL, MEDIUM TO LARGE FRUIT, SMOOTH, INEDIBLE PEEL SUBGROUP)	PPWS	Legacy,Request (NJ)	

Title Asian ambrosia beetle / Avocado

Nomination Justification (2021 FL) Ambrosia beetle transmits the lethal fungal pathogen *Raffaelea lauricola* to avocado trees. Current biopesticides take 4 days to kill AB and do not stop AB from boring into trees during that time. This beetle-pathogen complex is responsible for the death of over 140,000 avocado trees in Florida.;

Potential Solutions (2021 FL) ISM-555;

Comment Project related to IS00035 for laurel wilt.

<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 (2021 FL) There is nothing registered to control major insect pests on dragon fruit including chilli thrips, which alone can reduce crop yields by 80%.;

Potential Solutions (2021 FL) Mustang Maxx, tolfenpyrad;

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 (2021 MD) Important in the Northeast;

Potential Solutions (2021 MD) If no new potential are identified before or during the 2021 FUW we will take a B;

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

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<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00124	A	BASIL (25AB=HERB FRESH AND DRIED LEAVES SUBGROUP)	Orgnc	McGrath,Margaret (NY) ; Deyoung,Alan (IL) ; Scheufele,Susan (MA)	Cueva; Regalia; Basic Copper 53; Nu-Cop HB; Badge X2

Title Downy mildew / Organic basil

Nomination Justification (2021 MD) Important in the Northeast.:(2021 MI) Downy mildew / Organic basil;

Potential Solutions (2021 MD) If no new potential products to test are identified before or during the 2021 FUW we will take a B;(2021 MI) Cueva; Regalia; Basic Copper 53; Nu-Cop HB; Badge X2;

Comment Me Too request 07/21;

<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)	PPWS	Jennings,Katie (NC)	Lorox DF; Ultra Blazer

Title Weeds (Annual General)

Nomination Justification (2021 FL) Limited weed control options in US stevia.;

Potential Solutions (2021 FL) Lorox DF; Ultra Blazer;

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>
IS00358	A	HEMP, INDUSTRIAL (99=MISC GROUP)	PPWS	Bessin,Ricardo (KY) ; Batts,Roger (NC) ; Stewart,Jane (CO)	BT 320 Dust; PyGanic Crop Protection EC 5.0 II; Cyflanilprole

Title Greenhouse Mite control/ Hemp

Nomination Justification (2021 MD) ; See previous comments (By Marylee Ross);

Potential Solutions (2021 MD) ; See previous comments (By Marylee Ross);

Comment This expanding industry also needs products to control mites and other greenhouse pests during transplant production. There is a need for mite control for hemp. (9/1/2020) Bessin,Ricardo: For broad mite, russet mite and spider mites.

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<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00361	A	HEMP, INDUSTRIAL (99=MISC GROUP)	PPWS	Bessin,Ricardo (KY) ; Samuel-Foo,Michelle (AL) ; Stewart,Jane (CO)	

Title Aphids, budworms, cutworms, European Cornborer, hemp borer / Hemp

Nomination Justification (2021 MD) ; See previous comments (By Marylee Ross);

Potential Solutions (2021 MD) ; If no potential solutions are identified we will take a B (By Marylee Ross);

Comment There are currently no registered materials for insect pest management in industrial hemp. (7/13/2020) Stewart,Jane: There is a need for aphid control on hemp.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00362	A	HEMP, INDUSTRIAL (99=MISC GROUP)	Orgnc	Learn,Katie (NC)	Monterey Garden Insect Spray

Title Lepidoptera / Organic hemp

Nomination Justification (2021 MD) ; See previous comments (By Marylee Ross);

Potential Solutions (2021 MD) ; If no potential solutions are identified we will take a B (By Marylee Ross);

Comment Consumers interested in medicinal grade hemp demand high-quality, organic material free from residual pesticides. Furthermore, there are currently no approved pesticide products for use on industrial hemp in North Carolina

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00369	A	HEMP, INDUSTRIAL (99=MISC GROUP)	PPWS	Hansen,Zachariah R. (TN)	

Title Oomycete pathogens (Pythium and Phytophthora)/Hemp

Nomination Justification (2021 FL) Root rots caused by omycete pathogens (pythium and phytophthora) are major problems in hemp; there are currently no effective products labeled for disease control in hemp.;

Potential Solutions (2021 FL) Ridomil, Orondis;

Comment More research is needed to develop IPM recommendations on hemp for CBD production, but these products are already labeled for vegetable use. There are currently no effective products labeled for disease control in hemp in TN. Root rots caused by Pythium and Phytophthora are problems.

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<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00370	A	HEMP, INDUSTRIAL (99=MISC GROUP)	PPWS	Hansen,Zachariah R. (TN) ; Sosnoskie,Lynn (NY) ; Flessner,Michael (VA)	

Title weed control/Hemp

Nomination Justification (2021 MD) no options available;(2021 FL) There are currently no herbicides labelled for hemp.;

Potential Solutions (2021 MD) see comments;(2021 FL) Shieldex, Select Maxx;

Comment No Weed control options available. (9/1/2020) Flessner,Michae: Potential options to evaluate include between row mowing, cultivation, nonselective OMRI listed products, or cover crops; plasticulture; bedding and cultivating as in tobacco production; and others. Many of these strategies can be used in both organic and conventional hemp. Me Too 07/21, 08/21;

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00385	A	HEMP, INDUSTRIAL (99=MISC GROUP)	PPWS	Stewart,Jane (CO)	

Title Hemp/ Aphid (Aphididae)

Nomination Justification (2021 MD) See previous comments;

Potential Solutions (2021 MD) If no potential solutions are identified we will take a B;

Comment needed for control of aphids, scale insects and white flies.

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IS00386	A	HEMP (99=MISC GROUP)	PPWS	Bessin,Ricardo (KY)	Harvanta

Title Hemp/Aphid (Aphididae) control

Nomination Justification (2021 MD) ; See previous comments (By Marylee Ross);(2021 FL) There are currently no registered products for aphid control in hemp.;

Potential Solutions (2021 MD) ; If no potential solutions are identified prior to the workshop we will take a B (By Marylee Ross);(2021 FL) Harvanta;

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

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IS00412	A	HEMP (99=MISC GROUP)	PPWS	Britt,Kadie (CA) ; Wilson,Houston (CA)	SuffOil-X; Movento

Title Hemp Russet Mite / Hemp

Nomination Justification (2021 CA) See submission;

Potential Solutions (2021 CA) See submission;

Comment Hemp is a recently legalized and re-introduced crop into the California and United States agricultural landscape. There are currently many hindrances to successful crop growth and production, including integrated pest management strategies.

<u>IS Number</u>	<u>Priority</u>	<u>COMMODITY (CROP GROUP)</u>	<u>Problem</u>	<u>Requestor Name</u>	<u>Potential Product</u>
IS00422	A	HOPS (99=MISC GROUP)	Mitig	Moretti,Marcelo (OR)	Rely 280

Title Glufosinate residue reduction / Hops

Nomination Justification (2021 CA) See submission;

Potential Solutions (2021 CA) See submission;

Comment Glufosinate label in hops is expected in the winter of 2021 with up to 3 applications at 56 fl oz/A per season when hops are taller than 6 ft up to 30 days PHI. However, this use patten is currently resulting in higher than allowed residue by the EU

Total A Nomination 62