



2022 Annual Report

Contributors: Marylee Ross, Megan James Hickman, Simon Zebelo, Jane Forder

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This report is compiled by the
IR-4 Northeast Region Field Coordinator's Office

Sponsor Acknowledgements

Recognizing The IR-4 Project's primary sponsor:



United States Department of Agriculture
National Institute of Food and Agriculture

This material is based upon work that is supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, under award numbers 2021-34383-34848 and 2020-34383-32455 with substantial cooperation and support from the State Agricultural Experiment Stations, USDA-ARS, USDA-APHIS, and USDA-FAS. In accordance with Federal Law and US Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age or disability.

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The Personnel section outlines further involvement and contributions made by land grant institutions and cooperators.

Program Summary

2022 Trials At-A-Glance

Food Use MOR Trials - Summary	2021	2022	2023
Trials Placed	26	29	30
Canceled Trials	1	5	0
Completed Trials	25	23	0
FDB's Received at RFC Office	25	10	0
Completed QC Reviews	25	2	0

Food Use Performance Trials - Summary	2021	2022	2023
# of Trials	20	11	21
Completed Trials	20	10	0
Reports Submitted	20	2	0

Env. Hort Efficacy - Summary	2021	2022	2023
# of Protocols	4	6	4
Projects Placed	4	6	4
Canceled Projects	0	0	0
Reports Submitted	4	4	0

Env. Hort Crop Safety - Summary	2021	2022	2023
# of Protocols	4	1	4
Trials Placed	47	21	31
Canceled Trials	0	0	0
Reports Submitted	47	13	0

Integrated Solutions- Summary	2021	2022	2023
# of Trials	9	10	8
Completed Trials	9	10	0
Reports Submitted	9	7	0

Overview of the Northeast Region IR-4 Program

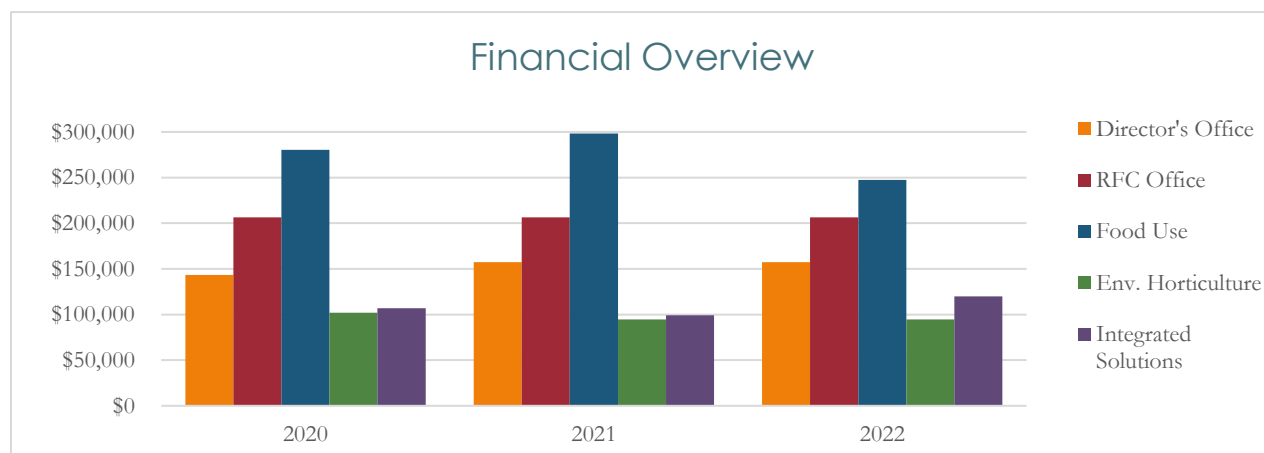
The Northeast Region of The IR-4 Project is a collaboration between the University of Maryland College Park (UMCP), University of Maryland Eastern Shore (UMES), and North Carolina State University (NC State).

The Regional Field Coordinator's (RFC) office is at the University of Maryland's Lower Eastern Shore Research and Education Center (LESREC) in Salisbury, MD. The Regional Director's office is located at UMES in Princess Anne, MD. The IR-4 Project Headquarters (HQ) is located at NC State in Raleigh, NC. Following is a summary of Northeast Region (NER) activities from January 1, 2022 through December 31, 2022.

Budget

In 2022, Food Use allocated \$247,500, Environmental Horticulture allocated \$94,750 and Integrated Solutions allocated \$120,000 to field trials. The Regional Director's office received \$157,486 to support the administration of the region. The RFC office received \$206,387 to support operations and outreach. All of these figures do not include indirect cost.

Depicted below is an overview of the Northeast Region's financial infrastructure and a comparison of funds specific to our region throughout the past three years.



Update from the Regional Director's Office

The NER 2021-2022 budget was dispersed to all sub-sub awardees, and all the invoices and checks have been cleared. UMES received the 2022-2023 IR-4 NER budget on September 2022.

All (Twenty-two) sub-sub award contracts have been signed, and we have sent 20 purchase requisitions, received 16 invoices, and issued eight checks. In addition, the University of Maryland's budget has been transferred internally through our financial system. As a result, we have spent 60% of the budget allocated for the Northeast region.

We had the electronic Field Data Notebook(eFDN) budget in our 2022-2023 IR-4 NER budget. The pilot project on eFDN was running well at NC-state. However, moving the purchasing and licensing of eFDN to UMES might delay the scheduled implementation of eFDN early next year, so we have agreed that the purchasing and licensing of eFDN remain at IR-4 headquarters at NC-state and we finalized the paperwork to move the eFDN fund back to NC-state.

We are working with our FRDs to support their travel to the last Food Use Workshop and the National Educational Conference and working closely with them to reimburse their travel expenses.

The Northeast Region SLRs are expected to represent their state stakeholder's pest management needs. This is encouraged by offering their travel support to attend the Northeast Region Annual Meeting, IR-4 Workshops, and commodity meetings. We are processing the SLRs support as sub-awards and adding 10% IDC. So far, we have sent four SLR sub-awards. Thanks to Marylee, Megan, and John for working hard to prepare the statement of work and sub-award documents for the SLRs.

The IR-4 NER team had several regular meetings virtual and in-person meetings. Thanks to the hard-working colleagues Marylee, Megan, Jane, John, Josh (UMES research office), and the researchers, things are progressing smoothly in the NER.

Regards,

Simon

Update from the Regional Field Coordinator's Office

After a couple of years adapting to virtual meetings we finally ventured back out to meetings and site visits. It has been refreshing to see folks in person. I will briefly describe what Megan Hickman and I have been up to over the past year.

In January, I met with the distinguished Path Forward Team. I am appreciative of the opportunity and anticipate much favorable growth within IR-4 resulting from the interviews conducted across all of IR-4

During February, we had the unfortunate task of visiting the Rutgers Cream Ridge research farm as our long time FRD, Tom Freiberger was retiring. Tom completed over 100 residue trials since he became an FRD in 2009. We located and secured the last few remaining documents that warranted a place in the archives. Jane Forder took them for filing. The station is undergoing major renovations and changes in personnel and administration. The decision was made to decommission the site. Perhaps in the future we can reestablish a research center there.

In March I was honored to be able to talk about IR-4 on the American Phytopathological Society virtual meeting in March.

In April we held our Northeast Region Annual Meeting in April. It was well attended and gave us direction for priority setting meetings to take place later in the year. We enjoyed the first IR-4 Research Symposium as well as a virtual tour about hops.

The spring season found us quite busy in the field and greenhouse. Rolling on to summer, we were able to attend a fantastic Weed Tour hosted by University of Delaware.

Finally getting back to making site visits; in July, we visited Rutgers Snyder and Marucci research farms in New Jersey. We are bringing on a new FRD, Wesley Bouchelle, in NJ to cover cranberry and blueberry trials. We all met at Snyder farm where Jennifer Fisher gave a thorough tour of her outstanding GLP program. The next day we met Wesley at Marucci to tour that facility. It is a great research station and will require very little to become GLP compliant. We are preparing GLP training and I intend to be there for support as Wes performs his first GLP trial in 2023. Jane and Johanna Mazlo will assure proper training and compliance. Jennifer is an excellent mentor. She and Wes are working together to get him all set up.

I am especially grateful that in August we got to visit some of our stellar researchers just before they took the step into retirement. Dr. Margaret McGrath and Dr. Andrew Senesac have left some big shoes to fill at Cornell. We visited their station on Long Island, NY and spent a great day with the many researchers there that do work for IR-4. On the same journey, we visited the Cranberry Research Station in Wareham, MA. The station is undergoing some major renovations. We toured the station and visited local cranberry growers. Both stops were highly informative and worthwhile. Our visits have a true impact strengthening our relationships and building our network. We will be making site visits again this year.

In between all of these activities were numerous meetings. Among them were Town Hall meetings, planning meetings for FUW and NRPM, and meetings with our new Communications Officers developing outreach materials. We had many “team meetings” of the Northeast Region. As well, we organized RFC meetings approximately once a month. These meetings have proven to be of great value to the regional offices as we develop methods that are more cohesive and helping each other understand the many changes IR-4 has experienced. We have a terrific team across the U.S.

In 2022, we established a new structure for our State Liaison Representative group. Several new liaisons signed on and all NE states are currently represented except for Rhode Island. We hope to fill that role soon. I anticipate a greater level of involvement from our SLRs.

Megan has begun developing a website for the Northeast Region. Hannah Ross has offered to help. We hope that will soon become a useful outreach tool for us.

We got our first glimpse and taste of electronic data books. There will be some challenges along the way, but I remain hopeful that the iAdvantage eBook will be a valuable tool for the whole IR-4 Project.

As always, there is so much more than I have conveyed in this brief report. Reach out if you want to hear more.

‘til next time,

marylee

Meetings Attended

- Western Maryland Small Fruit Meeting via Zoom, February 10, 2022
- Site Visit to Rutgers University Cream Ridge Facility in Cream Ridge, NJ on February 16, 2022
- Western Region Training Webinar via Zoom, February 24, 2022
- Mandatory UMD Training at Wicomico County Library, March 9, 2022
- IR-4 All Hands Meeting via Zoom, March 15, 2022
- American Pathological Society (APS) Potomac Meeting via Zoom, Mary 23-25, 2022
- Western Region Training Webinar via Zoom, April 5, 2022
- IR-4 Research Symposium via Zoom, April 12, 2022
- IR-4 Virtual Crop Tour on Hops via Zoom, April 18, 2022
- IR-4 NER Annual Meeting via Zoom, April 20, 2022
- Guest Lecture on IR-4 Process and Northeast Region at Delaware Valley Univeristy via Zoom, April 29, 2022
- NEWSS Weed Tour of Carvel Research Center in Georgetown, DE, June 29, 2022
- Western Region Training Webinar via Zoom, July 6, 2022
- Site Visit to Rutgers Snyder and Marucci Centers, July 13-14, 2022
- IR-4 All Hands Meeting via Zoom, July 18, 2022
- IR-4 Industry Technology Session via Zoom, July 21, 2022
- IR-4 NER Priority Setting Meeting for Weed Science via Zoom, July 26, 2022
- IR-4 NER Priority Setting Meeting for Entomology via Zoom, July 27, 2022
- IR-4 NER Priority Setting Meeting for Pathology via Zoom, July 28, 2022
- IR-4 Town Hall Meeting via Zoom, August 16, 2022
- Site Visit to Long Island Horticulture Research and Education Center (LIHREC) in Riverhead, NY, August 23, 2022
- Site Visit to Univesity of Massachusetts State Bog in East Wareham, MA, August 24, 2022
- IR-4 Food Use Workshop in Minneapolis, MN, September 13-15, 2022
- IR-4 National Planning Meeting in Raleigh, NC, October 24-27, 2022
- IR-4 Town Hall Meeting via Zoom, November 1, 2022
- Mid-Atlantic Crop School in Ocean City, MD, November 15-17, 2022

Program Report

Food Use Program

Magnitude of Residue

In 2022, twenty-nine magnitude of residue (MOR) trials were conducted in the Northeast Region. Of the Food Use funding in the Northeast Region, \$189,000 went to residue work. Activities involved 19 chemical/crop combinations.

MOR field trials were conducted in four locations, including:

- Lower Eastern Shore Research and Education Center, Salisbury, MD (University of Maryland)
- Rutgers Snyder Research and Extension Farm, Pittstown, NJ (Rutgers University)
- UMass Cranberry Experiment Station, East Wareham, MA (University of Massachusetts)
- A.C.D.S. Research Inc. North Rose Facility, North Rose, NY (Contract Research Facility)

Overall, five trials were cancelled. Two of which were hemp trials and there were many growing conditions that inhibited the success of this trial. All of the other cancellations were for reasons that were brought forward from the registrants before the field trials has begun. There was a greenhouse pepper trial postponed in 2022. There is now a protocol signed for this project and it will be completed in 2023.

Samples from twenty-three completed trials have been shipped. Ten Field Data Books (FDBs) have been received at the RFC office. Two Quality Control (QC) reviews have been completed and the FDBs sent to Quality Assurance (QA).

Performance

In 2022, eleven performance trials were conducted in the Northeast Region. Of the Food Use funding in the Northeast Region, \$58,500 went to performance work. The Efficacy and Crop Safety trials were conducted at six locations.

Efficacy and Crop Safety trials were conducted at:

- The New York State Agricultural Experiment Station, Geneva, NY (Cornell University)
- Philip E. Marucci Center for Blueberry & Cranberry Research, Chatsworth, NJ (Rutgers University)
- A.C.D.S. Research Inc. North Rose Facility, North Rose, NY (Contract Research Facility)
- Long Island Horticultural Research Lab, Riverhead, NY (Cornell University)
- Russell E. Larson Agricultural Research Center, University Park, PA (Pennsylvania State University)

Ten of the trials are complete and two reports have been submitted.

Environmental Horticulture Program

In 2022, the Environmental Horticulture program funded \$94,750 of research in the Northeast Region. There were six efficacy protocols and one crop safety protocol. Under these protocols, we placed six efficacy projects and twenty-one crop safety trials. This work was done by six different researchers at four locations.

The six efficacy projects were conducted at:

- Long Island Horticultural Research Lab, Riverhead, NY (Cornell University)
- University of Delaware Cooperators, Newark, DE (University of Delaware)

The twenty-one crop safety trials were conducted at:

- Long Island Horticultural Research Lab, Riverhead, NY (Cornell University)
- University of Maryland College Park, College Park, MD (University of Maryland)
- Connecticut Agricultural Experiment Station, New Haven, CT (University of Connecticut)

There are two outstanding reports for the efficacy projects and eight outstanding reports among the crop safety trials.

Integrated Solutions Program

In 2022, the Integrated Solutions program funded \$120,000 of research in the Northeast Region.

The trials are being conducted at six locations, including:

- The New York State Agricultural Experiment Station, Geneva, NY (Cornell University)
- Carvel Research & Education Center, Georgetown, DE (University of Delaware)
- Penn State Horticulture Research Farm, Pennsylvania Furnace, PA (Pennsylvania State University)
- Long Island Horticultural Research Lab, Riverhead, NY (Cornell University)
- Philip E. Marucci Center for Blueberry & Cranberry Research, Chatsworth, NJ (Rutgers University)
- Massachusetts Agricultural Experiment Station, Amherst, MA (University of Massachusetts)

Ten trials were completed and seven reports have been submitted.

Quality Assurance (QA)

During the period of this report, I [Jane Forder} conducted a total of 25 field in-life inspections, 24 in the North East and North Central Regions and one in Texas, plus 1 Minor Use Foundation field in-life inspection, performed 17 audits of field data books and 12 final report audits. I performed a second review on 42 final reports and conducted 23 closing report checks and typed up 39 QA statements. I conducted 1 facility inspection in the North Central Region.

Personnel

Administration

	Title	Location	Address	Phone	Email
Simon Zebelo	Regional Director	University of Maryland Eastern Shore	1117 Trigg Hall Princess Anne, MD 21853	410-651-6163	sazebelo@umes.edu
Marylee Ross	Regional Field Coordinator	University of Maryland	27664 Nanticoke Rd. Salisbury, MD 21801	410-742-8788 ext. 310	mross@umd.edu
John Ellis	Program Coordinator	University of Maryland Eastern Shore	1115 Trigg Hall Princess Anne, MD 21853	410-621-3031	jellis@umes.edu
Jane Forder	Regional Quality Assurance	North Carolina State University	1730 Varsity Drive Venture IV, Suite 210 Raleigh, NC 27606	919-515-1683	jforder@ncsu.edu
Megan James Hickman	Assistant Regional Field Coordinator	University of Maryland	27664 Nanticoke Rd. Salisbury, MD 21801	410-742-8788 ext. 317	mjames14@umd.edu

Field Personnel by State

Connecticut	Title	Location	Email	Area of Involvement
Jatinder Aulakh	FRD	University of Connecticut	jatinder.aulakh@ct.gov	Environmental Hort

DELAWARE	Title	Location	Email	Area of Involvement
Brian Kunkel	FRD	University of Delaware	bakunkel@udel.edu	Environmental Hort
Mark VanGessel	FRD	University of Delaware	mjv@udel.edu	Integrated Solutions

MARYLAND	Title	Location	Email	Area of Involvement
Diana Cochran	FRD	University of Maryland College Park	cochrand@umd.edu	Environmental Hort
Megan James Hickman	FRD	University of Maryland – LESREC	mjames14@umd.edu	Food Use
Marylee Ross	FRD & RFC	University of Maryland-LESREC	mross@umd.edu	Food Use

MASSACHUSETTS	Title	Location	Email	Area of Involvement
Sue Scheufele	FRD	University of Massachusetts	sscheufele@umext.umass.edu	Food Use
Marty Sylvia	FRD	University of Massachusetts	martys@umass.edu	Food Use

NEW JERSEY	Title	Location	Email	Area of Involvement
Thierry Besancon	FRD & SLR	Rutgers - Chatsworth	thierry.besancon@rutgers.edu	Food Use & Integrated Solutions
Jennifer Fisher	FRD	Rutgers – Snyder R&E Farm	jlf229@njaes.rutgers.edu	Food Use
Cesar Rodriguez-Saona	FRD	Rutgers- Marucci	crodriguez@njaes.rutgers.edu	Integrated Solutions

NEW YORK	Title	Location	Email	Area of Involvement
Nora Catlin	FRD	Cornell – Suffolk County	njc23@cornell.edu	Environmental Hort
Daniel Gilrein	FRD	Cornell – Suffolk County	dog1@cornell.edu	Integrated Solutions & Environmental Hort
Grant Jordan	FRD	ACDS Research Inc.	gljordan@acdsresearch.com	Food Use
Tessa Lessord	FRD	ACDS Research Inc.	tlessord@acdsresearch.com	Food Use
Margaret McGrath	FRD	Cornell	mtm3@cornell.edu	Integrated Solutions
Brian Nault	FRD & SLR	Cornell	ban6@cornell.edu	Food Use
Andrew Senesac	FRD	Cornell – Suffolk County	afs2@cornell.edu	Environmental Hort
Christine Smart	FRD	Cornell	cds14@cornell.edu	Integrated Solutions
Lynn Sosnoskie	FRD	Cornell	lms438@cornell.edu	Food Use & Integrated Solutions
Faruque Zaman	FRD	Cornell – Suffolk County	fz88@cornell.edu	Integrated Solutions

PENNSYLVANIA	Title	Location	Email	Area of Involvement
Kari Peter	FRD	Penn State University	kap22@psu.edu	Integrated Solutions
Kathy Demchak	FRD	Penn State University	efz@psu.edu	Food Use
Caio Brunharo	FRD	Penn State University	brunharo@psu.edu	Food Use

State Liaison Representatives

Name	State	Email
Jatinder Aulakh	CT	jatinder.aulakh@ct.gov
David Owens	DE	owensd@udel.edu
Susan Scheufele	MA	sscheufele@umext.umass.edu
Andrew Kness	MD	akness@umd.edu
Lily Calderwood	ME	lily.calderwood@maine.edu
Anna Wallingford	NH	anna.wallingford@unh.edu
Thierry Besancon	NJ	thierry.besancon@rutgers.edu
Lynn Sosnoskie	NY	lms438@cornell.edu
Greg Krawczyk	PA	gzk13@psu.edu
Vacant	RI	
Ann Hazelrigg	VT	ann.hazelrigg@uvm.edu
Carlos Quesada	WV	carlos.quesada@mail.wvu.edu