



MIRC Update 2019

Kennewick, WA
December 3, 2019



MIRC Board of Directors

- Research program priorities
- Research approved
- Risk mitigation committee
- Membership categorization changes





MIRC Research Priorities

4 Buckets

- Integrated Pest Management
- Superior New Cultivars
- Agronomic / Sustainability Improvements
- New Markets





Scientific Affairs Committee Focus

- What is the value/return to the mint industry?
- Does it address our key needs?
- What is the quality of the science and proposal?
- How can we best leverage the results?
- Is the research adequately funded and resourced?
- Should we continue the work (multi-year research)?
- Did the researcher do what was proposed?



2019 Research Projects

IPM

- Verticillium: Establish threshold
- Verticillium: Anti-fungal terpenoids
- Verticillium: Strain specific interactions
- Nematodes
- Weeds
- Entomology



2019 Research Projects

Agronomy / Sustainability Improvement



- Irrigation: LEPA vs. MESA
- Irrigation x Fertility
 - Spearmint
 - Optimizing nitrogen at specific irrigation quantities





2019 Research Projects

Superior Cultivars

- Identifying genes responsible for mint oil composition and verticillium wilt resistance
- Initiated new segregating population of *m. suaveolens* for wilt resistance

New Markets

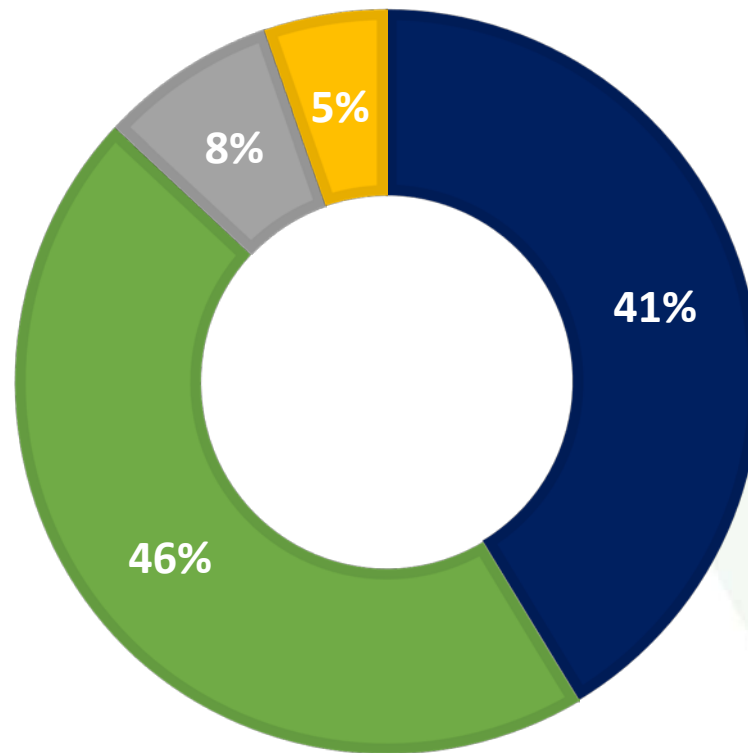
- Effects of *m. piperita* on academic performance over a semester university course



Research Funding


2019 BREAKDOWN OF TOTAL FUNDED

■ Var. Impr. ■ IPM ■ Agrnmy / Sustbl ■ New Market





Membership Categorization

- Two Dealer members moved to Flavor/Fragrance House
 - SAC representation
 - Other Dealers interested in participating on SAC
 - Board moved: equalized dues between Dealers and F/F Houses
 - Allow Dealers to sit on SAC
 - Maintains their identification as Dealers
- 





September SAC with New Attendees


SAC in 2020

- Sub-committee structure/members
- Soliciting new research(ers)
- 2020 proposals are in
 - 15 Proposals
 - VI = 3
 - IPM = 9
 - Agr/Stnblty = 2
 - New Mkt = 1
 - 9 new projects
- Encouraging but challenging





MIRC Research Discussions

- Continued review of research priorities
 - What is the value of the research?
 - Make good investments into our industry
 - Supporting our objectives
 - Addressing short and long-term needs
 - Private research to assist
 - Explore ways to be flexible to address immediate needs
 - New researchers/interests in mint
 - Succession, turnover, need of expertise
- 





Other 2019 Reports

- Distillation – Steam generator
- IR-4 News and Food Use Workshop
- Washington D.C.
- Rutgers University mint research



Steam Generator

- VSG Associates, Boise, Idaho
- Leidenfrost principle
 - Cooling hot surface vs. heating water
- VSG interest in mint
 - Seeking capital business venture
 - Not role/purpose of MIRC
- Summer 2019
 - Demonstration
 - Encouraged research project proposal
 - Invite to Arizona 2020



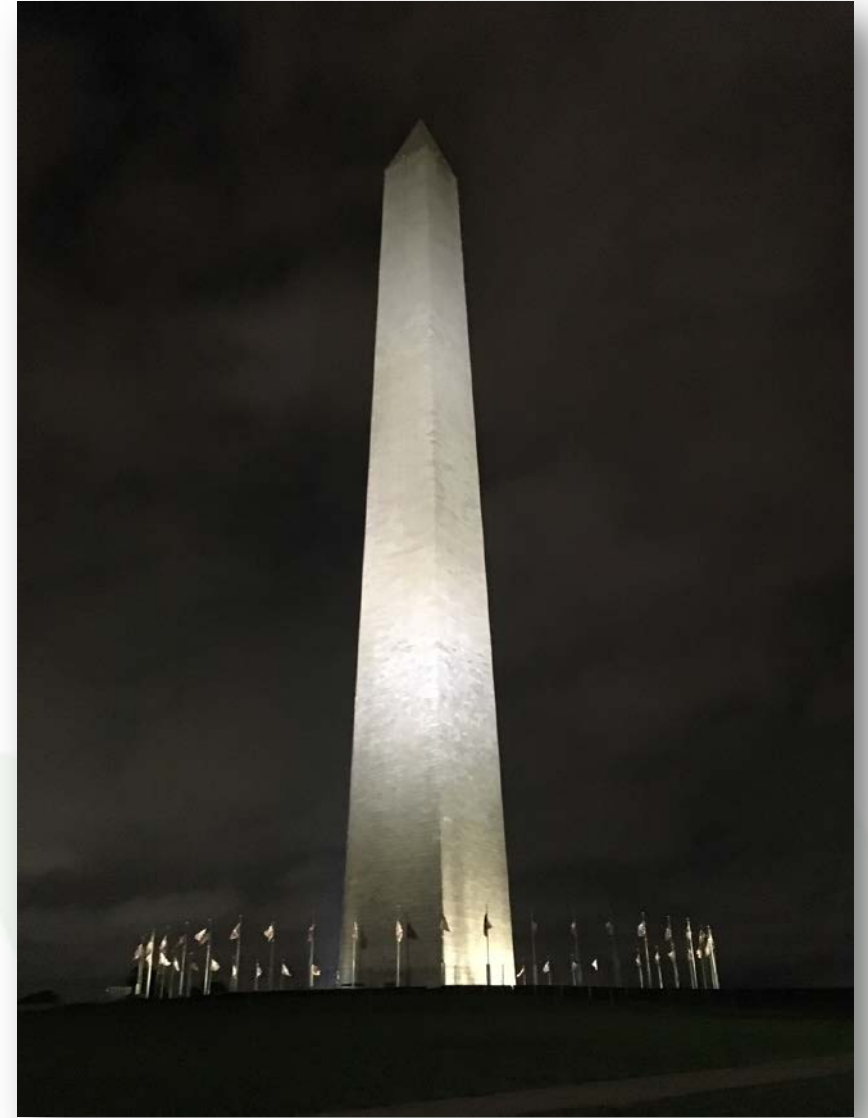
IR-4 Update

- Headquarters moving
 - North Carolina State University
- Food use workshop
 - September 2019
- Mint Priorities:
 - 2019: Pyridate PHI 30 day
 - 2020: Fluazaindolozone
 - Saflufenacil – No support



Washington D.C. Efforts

- US EPA
 - Tough herbicide
 - Section 18
 - Section 3
 - Zidua label wording – mint roots
- USDA – OPMP
 - Clopyralid (Stinger)
 - Flumioxazin (Chateau)
- USDA – NIFA
 - Moving HQ to Kansas City
 - Turnover within agency




Rutgers University Mint Research

- Dr. Tom Gianfagna
- USDA mint accessions
- Selecting for powdery mildew resistance
 - 68 spearmint selection being evaluated
 - 4000 rooted cuttings planted





Sustaining our Industry Together

- Develop strategy to improve MIRC's sustainability
 - Communicating the value of the MIRC
 - Facilitate discussions among membership regarding continued support and work of MIRC
 - Attract new interested members
 - Promote the message of MIRC to others (advocates, influencers, etc.)
- 





Sustainable Agriculture Awards



- Mars Wrigley Confectionery
- Administered by the Mint Industry Research Council for all mint growers in North America
- Individual award up to \$25,000.
- Apply at the MIRC web site <https://www.usmintindustry.com/>
- Deadline for submission is December 31, 2019
- AdvanceMint 2020 has been approved





Pesticide Pipeline Update

Herbicides

- Tough
- Zidua
- Sharpen
- Linuron

Insecticides / Fungicides

- Oberon
 - Warrior
 - Verimark
 - Velum Prime
 - Salibro
 - Elatus
- 



Tough Herbicide

- Section 18 – 2019
 - 11,000 acres applied
 - Reports of effective weed control
 - Acres are down
 - Cost per acre
- 2020 Crop year
 - Section 18 request
 - Need indemnity waivers
- Section 3 – EPA says July 2020



Herbicides

- Zidua
 - Labeled July 2019
 - PRE / Dormant application
- Sharpen
 - Great fit as dormant application
 - Excellent weed control
 - Supporting data
 - BASF will not support
 - Still efforting this label



Nematicides

- Vellum Prime
 - IR-4 EPA submission Dec. 2019
 - Projecting 2021 crop season
- Salibro
 - New priority request
 - Good performance
 - 2020 IR-4 residue priority
- Gowan Exp.# material
- Syngenta Exp.# material





Insecticide / Miticide

- Warrior
 - IR-4 EPA submission June 2020
 - Verimark
 - IR-4 EPA submission October 2020
 - Oberon
 - 24C request being prepared for OR and ID
 - WA has 24C in place
 - Expire Dec. 31, 2020
 - 7-day PHI
- 



Chlorpyrifos Update

- On-going federal review
 - Expedited process
- Three states have prohibited use
- More states with legislation being considered
- EU has revoked tolerance and prohibiting use
 - January 2020
- Mint tolerance
 - 0.01 ppm beginning 3rd quarter 2020
 - Will impact export market for mint oil



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SCOTTSDALE
ARIZONA



Mint Industry
Research Council

Annual Meeting

JANUARY 22-23, 2020

