



Welcome to the 3rd SAS² Conference - IMET, Baltimore, MD

2025 Conference • Baltimore, Maryland

SAS²



salmononland.org

SAS²: A National Public-Private-Federal Partnership

“Stakeholder-Driven”

Research Universities



Government/NonProfit



Industry Partners



Industry Supporters



SAS²: A National Public-Private-Federal Partnership

“Stakeholder-Driven”

Research Universities



- 17 specific objectives (research, education, extension)
- 32 co-Project Investigators
- 12 partnering institutions (1 international)
- 11 industry collaborators (2 international)

Government



SAS² Inaugural Meeting- September 15, 2021

\$10M Awarded by the USDA-NIFA SAS Program



Thank you and Congratulations!!!!

Sustainable Aquaculture Systems Supporting Atlantic Salmon

Major Highlights and Achievements

Research • Education • Extension

Research

Breakthrough technologies in broodstock, early maturation, feeds, off-flavor, waste management, and market analysis

Education

Training the next generation through curriculum, internships, and pathways to careers

Extension

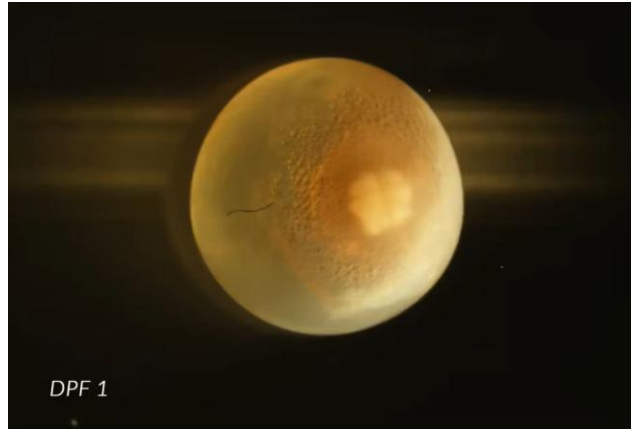
Engaging communities, transferring technology, and building public awareness

\$11.4M in Additional Funding Leveraged

Research Theme Accomplishments

Research at a Glance:

6 Research Objectives Advanced • \$8.0M Leveraged • 23 Manuscripts • 42+ Presentations



**Novel broodstock/egg
quality biomarkers;
off-season spawning**



**Innovative reproductive
sterility technologies**



**Advanced understanding of
off flavor sources and
improved mitigation**



Research Theme Accomplishments

Research at a Glance:

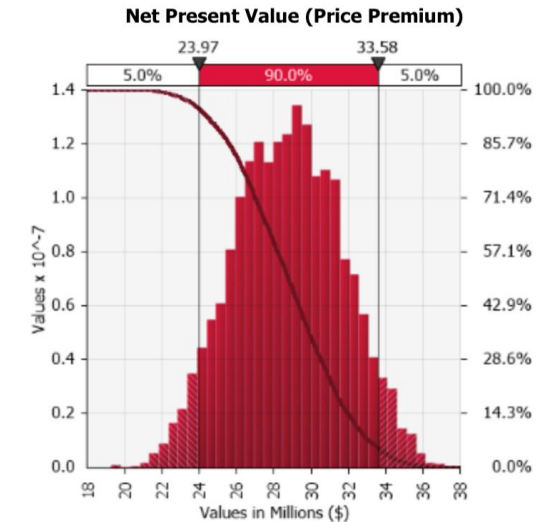
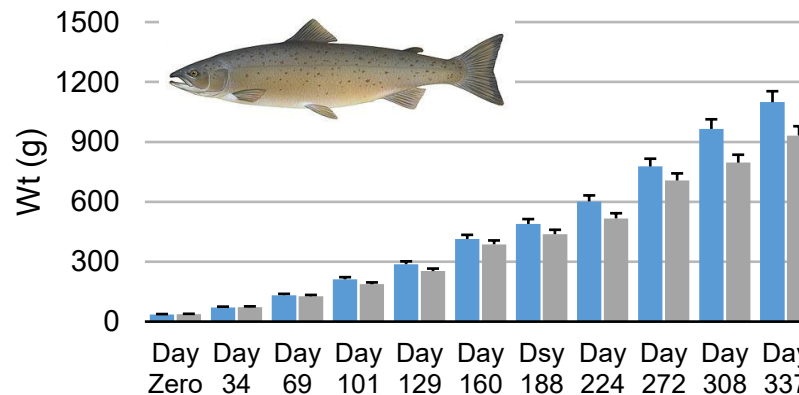
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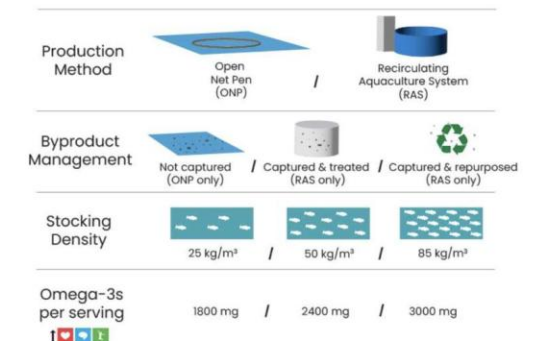
**Solid waste to biogas; Biochar to reduce hydrogen sulfide;
Lettuce grown with desalinated sludge**



**Alternative fish feeds:
insect meal**



Consumers willing to pay premium prices for domestic RAS salmon



Education Theme Accomplishments

Education at a Glance:

193+ Educators Trained • 64+ Internships • \$3.4M Leveraged • 4,000+ Youth Participants • 104+ Learners Enrolled

- **Paid Internships with 40% Job Placement**
- **Curriculum and workforce programs to train youth**
- **On-site, mobile, and virtual educational opportunities for all learners (K-Gray)**
- **Micro-credential programs, courses, and modules**



Extension Theme Accomplishments

Extension at a Glance:

**6,200+ Youth Served • 734+ Educator Participants • 9,300+ Stakeholders Engaged
• 37,000+ Video Views**

- **Tours and site visits to raise public awareness and support transfer of technology**
- **Public engagement through open houses, science festivals, field days and public hearings**
- **Workshops for farmers and educators interested in 4-H programming**
- **65-100% of youth participants want to learn more about aquaculture and RAS**



Acknowledgments & Gratitude

We thank this year's conference **sponsors** for their generosity:



We're also grateful to this year's **supporters** for their contributions:



DEPARTMENT OF
MARINE BIOTECHNOLOGY





Let's Enjoy the Conference !