VT Aquatic Invasive Species Program Briefing

Oliver Pierson Lakes and Ponds / DEC July 26, 2022



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Aquatic Invasive Species Program

- ➤ The Vermont Aquatic Invasive Species (AIS) Program coordinates management activities associated with both aquatic invasive and aquatic nuisance species
- ➤ AIS Program works with local, state, and federal partners to obtain and provide funds for control projects & provides education / outreach to reduce the threat and spread of AIS
- ➤ Created under statute (10 V.S.A. 1453) which also provides the framework for regulations on AIS management activities such as prohibitions on transport of AIS and Aquatic Nuisance Control (ANC) permitting







AIS/ANC Program Tasks and Staff

AIS Tasks and Responsibilities

- Early Detection & Rapid Response
- Statewide Monitoring and Surveying
- Administer ANC Grant in Aid Program
- Management & Control Projects
- Spread Prevention Projects (Greeters & VIP)
- Manage MBR & Federal Grants (\$1.3M / yr)
- Coordination w/ DFW, Feds, LCBP, Municipalities

Staff:

- 2017: 3 FTE + @ Techs
- 2018: 2 FTE, 4 Techs, Intern
- 2021: 1 FTE, 4 Techs, Intern

ANC Permitting

- Issue ANC Permits (herbicide, lampreys)
 - 0.5 FTE (Misha Cetner)

Title 10: Conservation and Development

Chapter 50: Aquatic Nuisance Control

§ 1451. Findings

§ 1452. Definitions

§ 1453. Aquatic nuisance control program

§ 1454. Transport of aquatic plants and aquatic nuisance species

§ 1455. Aquatic nuisance control permit

§ 1456. Aquatic species rapid response general permits

§ 1457. Entrance upon lands to prevent the introduction and spread of new aquatic species

§ 1458. Grant-in-aid to municipalities and agencies of the State

§ 1459. Joint municipal participation

§ 1460. Rulemaking

§ 1461. Aquatic nuisance inspection stations; training program





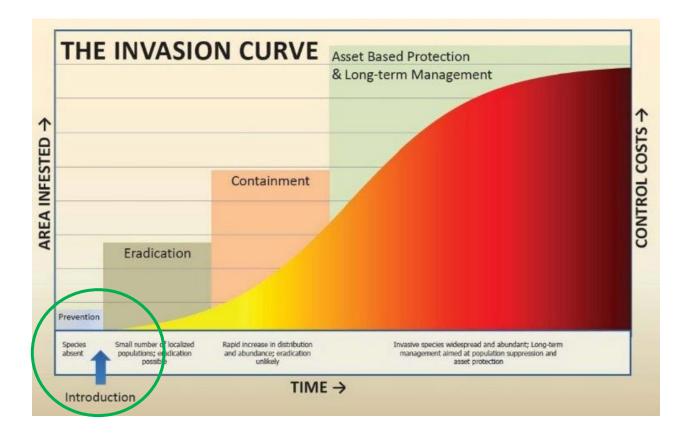


Aquatic Invasive or Aquatic Nuisance Species?

- > Aquatic invasive species are non-native species whose introduction can cause harm to the environment, economy, and even human health.
- Aquatic nuisance species: undesirable or excessive substances or populations that interfere with the recreational potential or aquatic habitat of a body of water, including rooted aquatic plants and animal and algal populations
- > All aquatic invasive species are considered aquatic nuisance species



Aquatic Invasive Species Threats/Costs

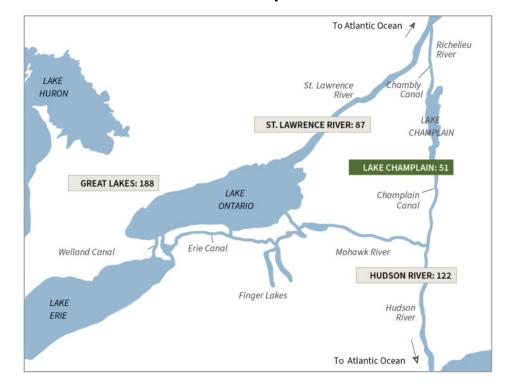


Likely Arrivals: Round goby, Hydrilla

Expanding Infestations: Water Chestnut

Number of AIS Today:

- Vermont (Inland): 12 Species (+2 NL)
- Vermont (Lake Champlain): 51 Species
- New York: 122 Species
- New Hampshire: 15 Species
- Massachusetts: ~12 Species
- Connecticut: ~9 Species



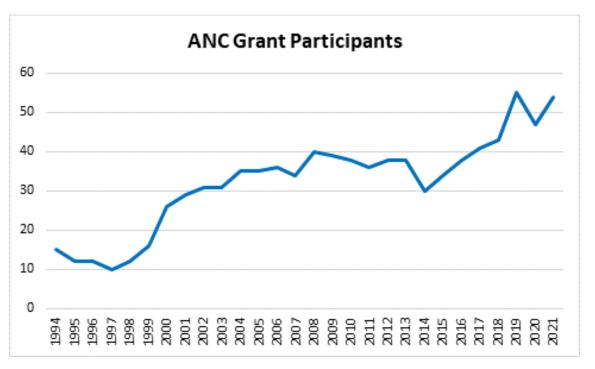
Aquatic Nuisance Control Funding Sources

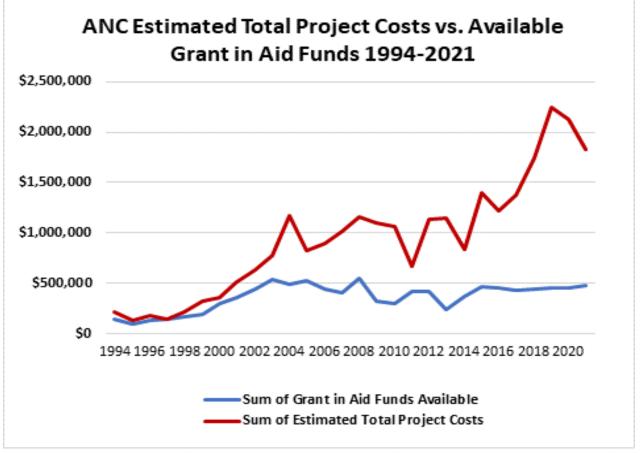
Source	Amount	Use
VT DEC General Funds	\$30,000	Long-Term Part-Time Temp
US Army Corps of Engineer	\$500,000	Water Chestnut & AIS prevention removal in Champlain Basin via grants
EPA – LCBP Water Chestnut Control Program	\$90,000	Water Chestnut Removal Contracts
US FWS Aquatic Nuisance Species Program	\$93,805	Mix – Water Chestnut, mapping, watercraft inspection, technicians, rapid response & detection
US FWS Partnership Program	\$15,000	Some of one technician
Motorboat Registration 1 (20%)	\$250,000	Small Grants for greeter programs, outreach projects, AIS management
Motorboat Registration 2 (17%)	\$210,000	Admin Costs – 2 FTEs
TOTAL	\$1,188,805	

ANC Grant in Aid Program Summer 2021 Statistics – Questions from Legislature

- > How many total municipalities / entities requested ANC Grant-in-Aid funds?
 - 42 Municipalities and 6 other entities (NRCDs, DFW, Winooski Park District, UNH, VYCC)
- What was the total amount of dollars of that ask?
 - \$1,825,392
- > How much funding did DEC have to award, with a breakout of state and federal dollars.
 - Around \$450K, with \$250K coming from MBR revenue, \$100K from USACOE Award for Water Chestnut and Milfoil Control, and \$100,000 from MBR surplus, which is dwindling
- How does DEC use MBR funding?
 - 20% of the total MBR to DEC for ANC Grants, \$250K in SFY21
 - 17% of the total MBR to DEC for ANC Program Administration (FTEs), \$210K in SFY21
- > How many entities received funds...all that asked or just a portion of those?
 - All. We don't reject complete applications. But we are only funding, on average, 25% of requested funds due to limited funds (down from 75% when program began)
- ➤ How much did our funds leverage from local sources in 2021?
 - TBD but around \$1M

ANC Grant in Aid Program Numbers





	2017	2018	2019	2020	2021
DEC ANC Grant Amount	\$401,050	\$416,658	\$430,356	\$428,677	\$450K
Leverage or Match	\$881,494	\$710,841	\$1,139,930	\$911,185	\$1,000,000
Total Project Amount	\$1,282,544	\$1,127,498	\$1,570,286	\$1,339,862	TBD

Aquatic Nuisance Control Grant in Aid Program Summer 2021 Statistics

> Actual & Projected MBR/USACOE Funding for ANC Grants:

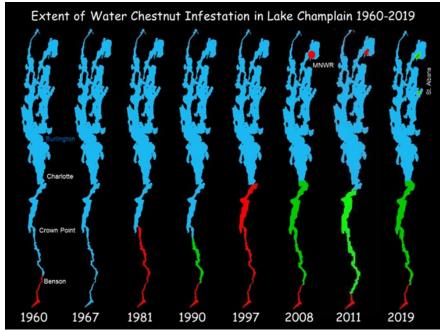
CALENDAR YEAR	AMOUNT
2017	\$401,050
2018	\$416,658
2019	\$430,356
2020	\$428,677
2021	\$450,000
2022	\$450,000
2023 (and beyond)	\$350,000 (MBR + ACOE)

- > Starting in SFY2020, DEC started to use some MBR funds for salary costs as allowed under statute (prior to 2021, these salary costs were funded by other sources)
- > Surplus now being used to fund grants at previous levels, will be depleted after summer 2022
- > DEC tried to reduce the funds in 2020 (COVID), but budget already out, legislature protested

Lake Champlain Water Chestnut Management Operations

- > Objective: Maintain navigable waterway on 75 Miles of South/Central Lake Champlain
- > \$550K annual effort (ACOE \$400, LCBP \$100, USFWS \$50K)
- Mechanical harvesting (\$380K), Handpulling (\$100K), & Mapping (\$20K)
- > Significant progress since 2000, when matching State Funds became available again
- Current Challenge: Many operational difficulties threaten program viability, ACOE funding
 - · Lack of contractors, labor shortage, no Vermont site access, varying water levels, etc.
- Solution: Site Supervisor? Leadership Support on Access Areas?









AIS Key Program Elements, Barriers to Growth, and Solutions

ELEMENTS	BARRIERS	SOLUTIONS	
ANC Grants and AIS Contracts	Decreasing & Limited State Funds	Statewide Aquatic Nuisance Species Mgmt & EDRR Plan	
Early Detection and	Inadequate DEC Staff	Additional Trained Staff	
Rapid Response Events	Time to Manage Scope	Operational Manuals and Training Opportunities	
Greeter Programs and	Insufficient Capacity to		
Educational Trainings	Maintain & Expand	Clarify roles w/ VFWD & Support Staff (Wardens) Enhance & Expand Digital Data Collection Tools	
Decontamination &	Limited Partner Abilities		
Equipment Deployment	& Administration Support		
VT Invasive Patrollers (Citizen Science Monitoring)	Incomplete & Labor Intensive Operations		
Regional & National	Inadequate Operational	AIS Survey Data and Geospatial Maps	
Partnerships	Systems and Procedures		

Challenges Moving Forward

- > Dwindling funding / staffing but increasing demand for funds, assistance, and expertise
- Proliferation of threats to VT's waters (round goby, hydrilla, etc.)
- > Remarkable increase in boat launch use within state and regionally, major vector of spread
- > Outsourced work unable to successfully fulfill deliverables due to inadequate skilled labor and lack of technological capacity & operational knowledge from service providers
- > DEC Staffing at Present: Overall AIS workload ideally requires 2 FTEs + 3 Techs/Interns
 - 2021: 1 FTE + 4 Techs + 1 Eco-AmeriCorps (down from 3 FTEs 2017 in FTE)
 - DEC making do w/ imperfect "Army of Temps" approach, but transaction costs are high,
 limited ability to provide consistent efforts for operations, inability to build capacity







Possible Solutions

- > Sticker Bill to Increase Revenue for AIS work? another attempt in 2023 (NE, ME)
- > Legislative Advocacy to identify new sources of funds?
- ➤ Use MBR Program Admin Funds and/or Fee Bill Revenue for a second AIS FTE?
 - The former approach would require moving ANC Permit Lead to alternative funding source
- ➤ In absence of a 2nd FTE, pursue ANC Grant in Aid Block Grant, w/ GF support for admin costs
 - o Drawback: High admin costs, currently unaware of qualified statewide service provider
- > ARPA Funds: CWSRF Eligible Projects are ARPA eligible, including AIS equipment
 - Equipment could include AIS decontamination units for access area greeter programs,
 estimated at \$5K-7K each, could utilize \$100K to \$150K of ARPA funds



Thanks for your attention!

