## **General Project Information**

Project ID:	AIRD11922											
Name:	UNIVERSITY OF FLORIDA: A microsporidian pathogen as a control for invasive crayfish											
Туре:	Aquatic Invasives Grant											
Subtype:												
Status:	ACTIVE											
Start Date:	3/15/2022											
End Date:	12/31/2024											
Purpose:	Ine Grantee is to investigate the mechanism by which the microsporidian pathogen (Nosema sp.) is transmitted, how it impacts rusty crayfish populations, & whether it can effectively facilitate restoration of lake communities. Project activities include: 1) Measure impacts of Nosema sp. by monitoring crayfish densities & microsporidian prevalence in Trout Lake; 2) assess crayfish abundance at the whole-lake scale using traps; 3) conduct statistical analyses on relationship between crayfish density & microsporidian prevalence; 4) conduct laboratory experiments on transmission of Nosema sp. among adult crayfish across a range of water temperature; 5) test potential for crayfish to transmit pathogen to offspring; 6) conduct statistical analyses on impact of temperature on transmission success & microsporidian development time; 7) assess whether macrophyte biomass & diversity is related to crayfish density & microsporidian prevalence in Trout Lake; 8) conduct statistical analyses on how crayfish density & microsporidian prevalence relate to macrophyte biomass & richness; 10) measure effects of Nosema sp. on crayfish fecundity; 12) conduct statistical analyses on how infection with Nosema sp. affects crayfish growth, survival, egg number & egg mass; 13) examine incidence of microsporidian outbreaks by monitoring 10 additional lakes. Project deliverables include: 1) Data on crayfish density, size, sex, species & microsporidian prevalence in Trout Lake; 2) results from statistical analyses; 3) data from laboratory & mesocosm experiments; 4) data on macrophyte biomass & composition; 5) data on microsporidian prevalence in WI lakes.											
Objective:												
Comments:	Grantee is UNIVERSITY OF FLORIDA											
Outcome:												
Study Design:	dy Design:											
QA Measures:												
People												
Name	Role		Status		Start Date	End Date	Organization		Comments			
Project Statu	ses											
Date	Reported By			itus	Commen	ts						
Actions												
Action			Detailed Description				Start Date	End Date	Status			
Grant Awarded				Grant AIRD11922 awarded				12/31/2024	COMPLETE			
Monitoring St	ations											
Station ID	Name					Co	Comments					
Assessment Units												

## Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Seg	ment	Local Name				0	Official Name					
2331600	1		Trout Lake				Т	Trout Lake					
2331700	1		Mann Creek				Ν	Mann Creek					
2332100	1		Allequash Cree		Allequash Creek								
Lab Account Co	odes												
Account Code Description			on								Start Date	End Date	
Forms													
Form Code Form			Name										
Methods													
Method Code Metho			d Description										
Fieldwork Event	ts												
Start Date	Status		Field ID		Station ID Station		Station	on Name					
Documents													
Title Descrip			otion	Aut	Author		Published Commer			nts			
Budget													
Combined Budget	ts:												
Combined Total: \$0.00			\$0.00										
Funding													
Organization					Туре				Amount	Start Date	End Date		

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