

Great Lakes Slender False Brome Working Group 2018 Annual Work Plan

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2018 Annual Work Plan

Abbreviations	
AL	Andrea Locke, Project Director/Principal Investigator
BH	Brittany Hernon, Project Manager
BSPS	Bergen Swamp Preservation Society
CP	Dr. Christopher Pennuto, Co-Principal Investigator
CREW	WNY PRISM Seasonal Crew
DEC	New York State Department of Environmental Conservation
EPA	United States Environmental Protection Agency
GCPF	Genesee County Park and Forest
iMap	iMapInvasives (NYS invasive species database)
LN	Lucy Nuessle, Crew Leader
NYISRI	New York Invasive Species Research Institute
NYNHP	New York Natural Heritage Program
Parks	New York State Parks, Recreation, and Historic Preservation
RF	The Research Foundation for SUNY Buffalo State
SBS	SUNY Buffalo State
Staff	Slender False Brome Seasonal Project Staff
WG	Great Lakes Slender False Brome Working Group

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1. Working Group Communication and Coordination					
Goal: Facilitate the exchange of information and expertise among members of the Great Lakes Slender False Brome Working Group					
Objective	Actions Planned	Collaboration or Resource Needs	Lead	Due Date or Frequency	Output or Outcome
A) Create easily accessible information and updates about the project for Working Group members	Determine website needs	WG, AL	BH	1/31/2018	Website plan
	Work with website developers to determine the cost of creating and maintaining a website	WG	BH, AL	3/31/2018	Working Group Website
	Research relevant information and create web pages	WG, AL	BH	3/31/2018	Working Group Website
	Conduct a literature review for <i>Brachypodium sylvaticum</i>	WG	BH, NYISRI	9/30/2018	Overview of <i>Brachypodium sylvaticum</i> literature
	Distribute meeting minutes within two weeks of meetings through appropriate means and make them available on the website	WG	BH	Quarterly	Outline of updates and future plans for interested parties
B) Hold Quarterly Meetings	Schedule Working Group interactions- 2 in person and 2 remote	WG	BH	Quarterly	Quarterly Working Group meetings
	Schedule a meeting in January 2018 to follow up on items from previous meetings and spell out future plans	WG	BH, AL	1/11/2018	1st Quarter Working Group meeting & 2018 meeting plan
C) Increase communication and collaboration among Working Group members	Advertise meetings, workshops and webinars on the website and listservs	WG	BH	ongoing	Increased attendance and participation
	Provide updates on the Working Group's progress and findings of the project	WG, AL	BH	Nov 13-15 2018	Cornell In-service presentation

2. Education and Outreach					
Goal: Increase awareness and understanding of <i>Brachypodium sylvaticum</i> by providing educational opportunities and access to identification and management materials					
Objective	Actions Planned	Collaboration or Resource Needs	Lead	Due Date or Frequency	Output or Outcome
A) Develop Education and Outreach materials for <i>Brachypodium sylvaticum</i>	Create identification fact sheet and include look-a-likes	WG, Staff	BH	6/30/2018	Printable identification fact sheet available online
	Create survey fact sheet describing details of the survey protocol	WG, Staff	BH	12/31/2018	Printable survey information available online
	Prepare local outreach materials such as flyers, postcards or articles in local papers describing <i>Brachypodium</i> and its threat.	WG	BH	6/30/2018	Local awareness of <i>Brachypodium</i> threat and identifying characteristics
	Present information in a way that can easily educate citizen scientists and the public	WG, Staff	BH	as needed	Table displays, posters, social media posts
B) Develop and implement educational programs that increase knowledge of <i>Brachypodium sylvaticum</i>	Identify a target audience that would benefit from learning to identify and survey <i>Brachypodium sylvaticum</i> and organize a workshop	WG, AL	BH	9/30/2018	Identification and Survey Workshop
	Include <i>Brachypodium</i> information at the Bergen Swamp meet & greet		BSPS	6/30/2018	Public awareness of <i>Brachypodium</i>
	Identify additional educational and outreach needs	WG, AL	BH	1/11/2018	Education and outreach needs described
C) Develop and implement Experiential Learning Opportunity for 9th grade students at Bergen Swamp	Contact Steve Locke to open up communication for the activity and establish a timeline	BSPS	BH	1/31/2018	Timeline for project and date of activity
	Work together to carry out the completed activity with the 9 th grade students	WG	BSPS, BH	6/30/2018	Activity complete-Increased knowledge and interest in invasive species
	Create a survey or metric to assess success of the project and provide feedback	WG	BSPS, BH	6/30/2018	Feedback available to update the activity

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3. <i>Brachypodium sylvaticum</i> Surveys					
Goal: Determine the presence and distribution of <i>Brachypodium sylvaticum</i> and make all information available					
Objective	Actions Planned	Collaboration or Resource Needs	Lead	Due Date or Frequency	Output or Outcome
A) Use habitat suitability modeling to prioritize 2018 survey locations	Assess model performance of our previous habitat suitability model using the 2017 survey data	WG, AL, Staff	BH	3/31/2018	Performance of current habitat suitability model assessed
	Collaborate with Partners who are working on habitat suitability for this species in order to update our model	WG, Staff	BH	3/31/2018	Updated habitat suitability model
	Use updated habitat suitability model, and input from Working Group members, to identify and prioritize 2018 survey locations	WG, Staff	BH	3/31/2018	2018 survey locations
B) Develop and implement <i>Brachypodium sylvaticum</i> surveys	Determine intern need, create and post job descriptions and hire staff- 1 DEC & 1 RF intern	WG, DEC, SBS, RF	BH, AL	3/31/2018	2018 Slender False Brome Seasonal Project Staff
	Develop field guides specific to <i>Brachypodium</i> with detailed images and descriptions of flowering stages	WG, BH	DEC	5/31/2018	<i>Brachypodium sylvaticum</i> field guides for interns
	Train project staff and confirm they can carry out surveys correctly	QAPP	BH, AL	6/1/2018	Consistent and accurate collection of 2018 survey data
	Conduct <i>Brachypodium sylvaticum</i> surveys	BH, AL, QAPP	Staff	Jun-Sep18	Consistent and accurate collection of 2018 survey data
	Supervise and support interns to ensure the project is following the proposed schedule	DEC, RF	BH, AL	Jun-Sep18	Bi-weekly work plans for interns

3. <i>Brachypodium sylvaticum</i> Surveys					
Goal: Determine the presence and distribution of <i>Brachypodium sylvaticum</i> and make all information available					
Objective	Actions Planned	Collaboration or Resource Needs	Lead	Due Date or Frequency	Output or Outcome
C) Organize and manage occurrence data	Review 2017 data, organize data so it can easily be uploaded to iMap, submit spreadsheet for bulk upload	NYNHP, iMap, AL, LN	BH	3/31/2018	Bulk upload of 2017 survey data into iMapInvasives
	Enter survey data into a database as it is collected and ensure it is complete	BH, AL, QAPP	Staff	Jun-Sep18	Complete and accurate 2018 survey database
	Review data for completeness, accuracy and compliance to protocol	AL, QAPP	BH	Jun-Sep18	Complete and accurate 2018 survey database
	Organize 2018 data so it can easily be uploaded to iMap and submit spreadsheet for bulk upload	NYNHP, iMap	BH	12/31/2018	Bulk upload of 2018 survey data into iMapInvasives

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4. <i>Brachypodium sylvaticum</i> Management					
Goal: Develop Best Management Practices for <i>Brachypodium sylvaticum</i> by testing and assessing different removal methods					
Objective	Actions Planned	Collaboration or Resource Needs	Lead	Due Date or Frequency	Output or Outcome
A) Identify and develop partnerships with site managers	Determine how our study can fit in with current Bergen Swamp management plans. Time our monitoring plans with their removal efforts.	BSPS, WG, AL	BH	3/31/2018	Bergen Swamp established as a study site
	Visit Letchworth to review the infestation locations. Discuss details and preferred timing of the removal methods.	Parks, WG, AL	BH	3/31/2018	Letchworth State Park established as a study site
	Schedule a visit to observe GCPF infestation locations. Ensure all components of our removal methods fit in with GCPF management goals.	GCPF, WG, AL	BH	3/31/2018	Genesee County Park and Forest established as a study site
B) Design a monitoring and removal study	Compile and review literature on management techniques	WG, AL	BH	1/31/2018	Increased knowledge of management for this species
	Identify management methods and ensure ability to implement across all sites	BSPS, Parks, GCPF	BH	3/31/2018	Removal methods established
	Develop management protocol	WG, AL	BH	3/31/2018	Removal and monitoring protocols defined
C) Implement monitoring and removal of <i>Brachypodium sylvaticum</i>	Determine intern need, create and post job descriptions and hire staff	WG, SBS, RF	BH	3/31/2018	2018 Slender False Brome Seasonal Project Staff
	Randomly generate plot locations at the three study sites to include all removal methods	BSPS, Parks, GCPF	BH	3/31/2018	Study site design
	Train project staff and confirm they can carry out monitoring and removal correctly	QAPP	BH, AL	Apr-Sep18	Consistent and accurate application of management and collection of 2018 data
	Conduct pre-monitoring to determine density and percent cover in the plots. Coordinate timing with Partners at the sites.	BSPS, Parks, GCPF	BH, Staff	6/1/2018	Baseline species distribution of plots established

4. <i>Brachypodium sylvaticum</i> Management					
Goal: Develop Best Management Practices for <i>Brachypodium sylvaticum</i> by testing and assessing different removal methods					
Objective	Actions Planned	Collaboration or Resource Needs	Lead	Due Date or Frequency	Output or Outcome
C) <i>Continued</i>	Implement removal methods at Letchworth and GCPF, and collaborate with BSPS about Bergen Swamp removal methods	BSPS, Parks, GCPF	BH, Staff, Crew	6/30/2018	<i>Brachypodium sylvaticum</i> management implemented at all three sites
	Conduct post-monitoring to look at flower and seed production	BSPS, Parks, GCPF	BH, Staff	8/31/2018	Seed production documented post-management
	Supervise and support interns to ensure the project is following the proposed schedule	RF	BH, AL	Apr-Sep18	Bi-weekly work plans for interns
D) Organize and manage data	Enter data in a timely manner and review for completeness	BH, AL	Staff	Apr-Sep18	Complete and accurate management database
	Review data for completeness, accuracy and compliance to protocol	AL, QAPP	BH	Apr-Sep18	Complete and accurate management database
	Organize and analyze data	WG	BH, AL, CP	12/31/2018	Strategic Plan for Regional Management and Spread Prevention

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5. Spread Prevention					
Goal: To promote practices that decrease the transport of <i>Brachypodium sylvaticum</i> seeds by human activity					
Objective	Actions Planned	Collaboration or Resource Needs	Lead	Due Date or Frequency	Output or Outcome
A) Identify spread prevention needs	Review reports by previous interns to determine high probability areas that could benefit from boot brush stations	WG, AL	BH	3/31/2018	Number of sites and locations established
	Collect input from Working Group to locate sites that could benefit from boot brush stations	WG	BH	2/16/2018	Number of sites and locations established
	Contact Partners at the proposed locations to gain permission to install boot brush stations and seek assistance with the installation	WG	BH	6/30/2018	Number of sites and locations of boot brush stations finalized
B) Install boot brush stations	Create and purchase signs using input from Partners to determine which other invasive species information to include	AL, DEC, WG	BH	6/30/2018	Boot brush stations
	Ensure all necessary materials are purchased and provide signs to Partners at the pre-determined locations for installation	WG	BH	9/30/2018	Boot brush stations
C) Assess effectiveness of boot brush stations	Determine if there is a need to evaluate the boot brush stations	WG, Staff, CP	BH	9/30/2018	Measured success of boot brush stations

6. Additional Project Elements					
Goal: Complete necessary reports in a timely manner to communicate the progress of the grant to the EPA					
Objective	Actions Planned	Collaboration or Resource Needs	Lead	Due Date or Frequency	Output or Outcome
A) Complete all necessary project reporting requirements	Track the progress of the project by completing semi-annual reports	RF, EPA	BH, AL	4/30/2018 & 10/31/2018	Semi-Annual progress reports for EPA