Timeline

Funding Start: 8/1/21 Funding End: 7/31/23

Research Objectives 1 & 2: Litchi Tomato vs Quinoa as PCN Trap Crops Field Trial

Aug 2021 – Sept 2021	
Sept 2021	
Sept 2021 – Nov 2021	
Feb 2022	
Feb 2022 – May 2022	
May 2022	
June 2022	
July 2022 – October 2022	
Sept 2022	
Oct 2022	
Jan 2023	
Jan 2023-Apr 2023	
May 2023	
June 2023-July 2023	

Research Objectives 1 & 2: Litchi Tomato vs Quinoa as PCN Trap Crops Greenhouse Trial

Research Objectives 1 & 2. Litchi Tomato vs Quinoa as FCN Trap Crops Greenhouse Trial				
 Plant greenhouse trial 1 (grown for 12 weeks) 	Jan 2022			
■ Plant greenhouse trial 2 (grown for 12 weeks)	Feb 2022			
Terminate trial 1. Place pots into the cold room for an 8-week dormancy period and perform evaluations on the 12-week cyst bag sample	Apr 2022			
 Terminate trial 2. Place pots into the cold room for an 8-week dormancy period and perform evaluations on the 12-week cyst bag sample 	June 2022			
Remove pots from cold room, plant trial 1 bioassay with susceptible and resistant potato (grow for 12 weeks)	July 2022			
Remove pots from cold room, plant trial 2 bioassay with susceptible and resistant potato (grow for 12 weeks)	Aug 2022			
 Grow bioassay 12 weeks 	Jun 2022 – Oct 2022			
 Terminate trial 1 bioassay, dry soil/root samples for cyst extraction 	Sept 2022			
 Terminate trial 2 bioassay, dry soil/root samples for cyst extraction 	Oct 2022			
 Extract cysts and conduct evaluations of recovered cyst bags 	Dec 2022 – Mar 2023			

Research Objective 3: Investigation of Crop Rotations for Reduction of PCN Over Time

■ Terminate trial 1 (year 2) and trial 2 (year 1). Trial 1 (year 2) microplots go to the cold room at U of I. Trial 2 (year 1) microplots go to a storage facility. Minimum 8-week cold period.	Sept 2021
 Conduct evaluations on end of season cyst bag and soil samples 	Oct 2021
 Plant trial 1 (year 3) and trial 2 (year 2) in the field for 12 weeks. Conduct evaluations for beginning of season cyst bag samples 	May 2022 – Sept 2022
 Terminate trial 1 (year 3) and dry soil for cyst extraction. Terminate trial 2 (year 2) and store microplots in cold room at U of I for 8 weeks. Conduct evaluations on end of season cyst bag samples. 	Sept 2022 – Dec 2022
 Extract trial 1 cysts, determine impact on PCN populations 	Mar 2023 – May 2023
 Plant trial 2 (year 3) bioassay with Russet Burbank in field and grow for 12 weeks. Conduct evaluations on beginning of season cyst bag samples. 	May 2023-Sept 2023
 Dry and extract PCN cysts from trial 2 (year 3) bioassay and conduct evaluations on recovered cyst bags. 	Oct 2023 – Dec 2023

Objective 4: Outreach and Education

•	Present at Society of Nematology Meeting	Sept 2022
•	Present at IAPP meeting	Nov 2022
•	Present at Idaho Potato Conference	Jan 2023
•	Publish newsletter on trap crops and crop rotation for PCN eradication	Jul 2023