

Click Beetle and Wireworm Research

PEI Horticultural Association Inc.



Horticulture Insect Research: Click Beetle (2014-2016)

- Determine the click beetle biology in regards to emergence of female and male adults and egg laying.
- Develop a Degree-Day model for adult emergence



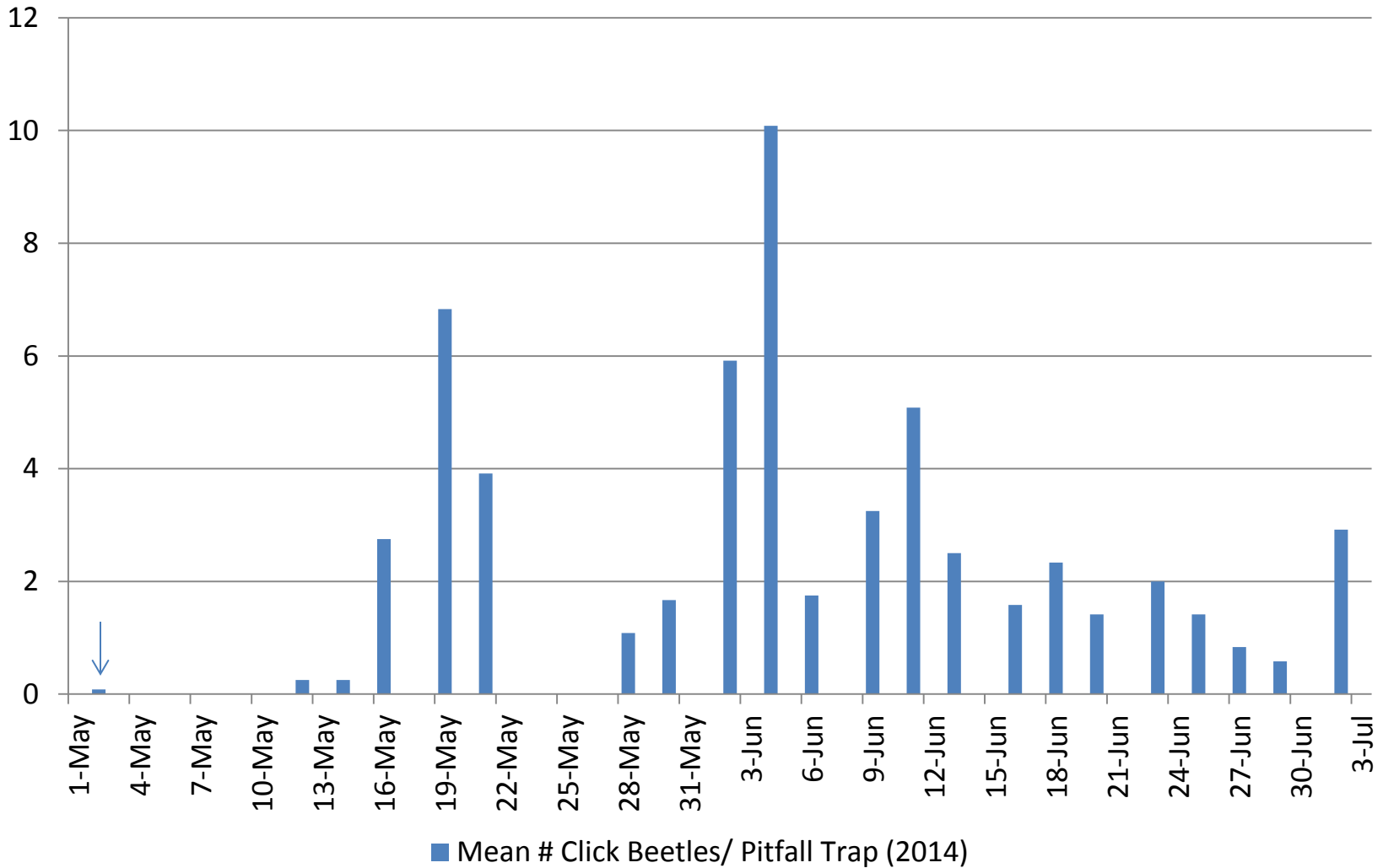
Plot 2013



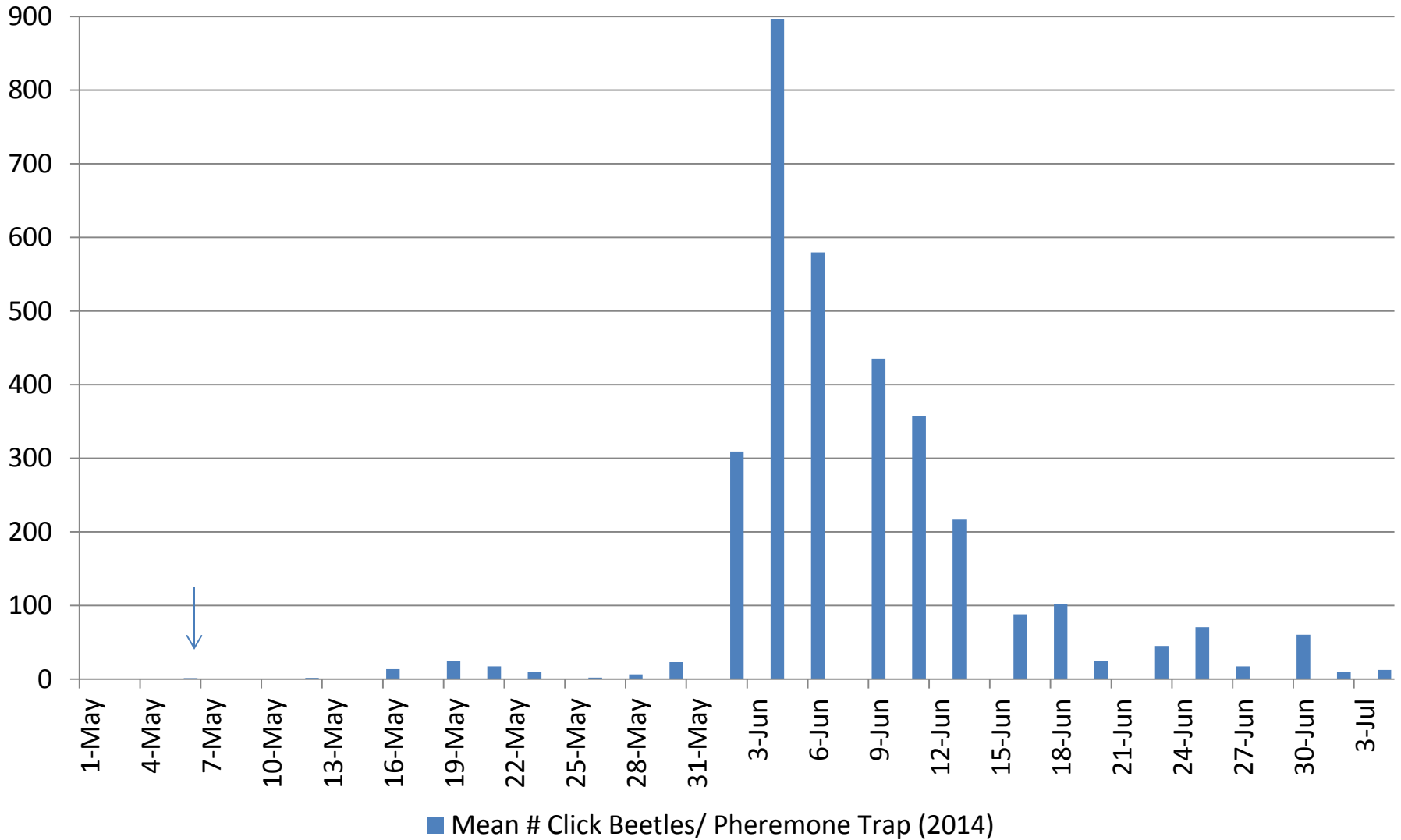
Research Trial Site



Pitfall Traps (2014)

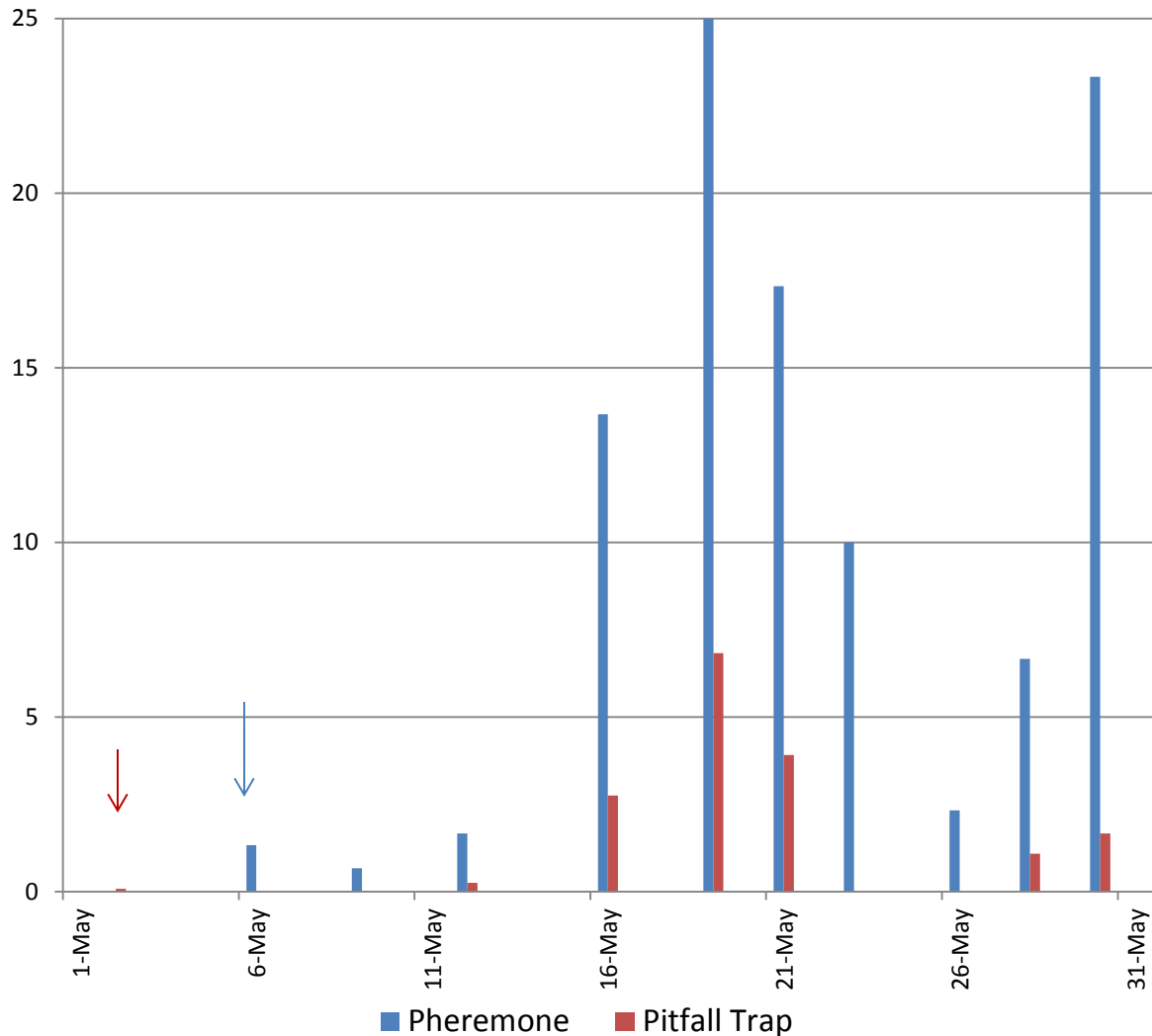


Pheromone Traps (2014)



Pheromone vs. Pitfall Traps

Mean # Click Beetles/ Trap 2014

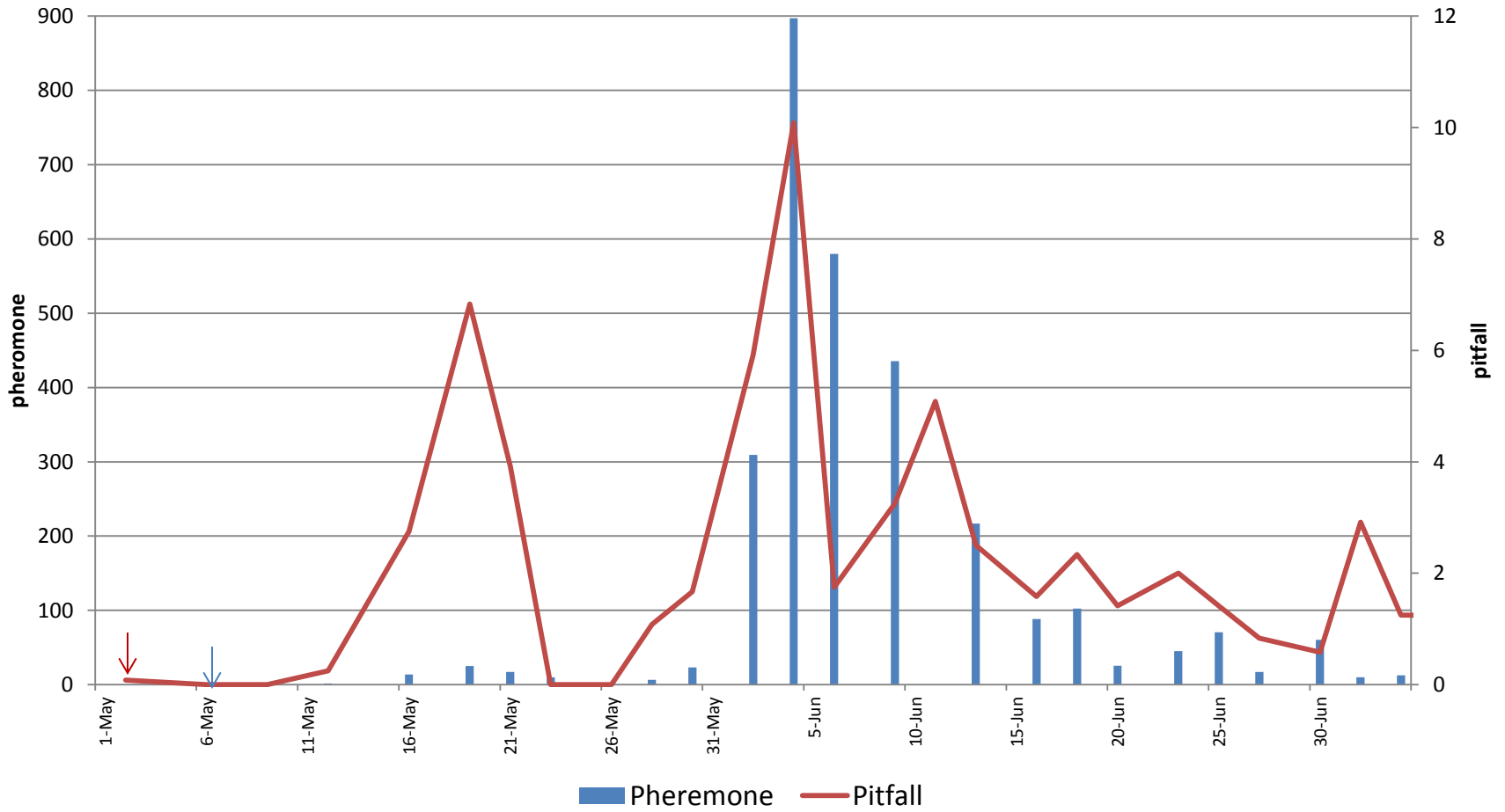


DATE	Mean # Click Beetles/ Trap 2014	
	Pheremone	Pitfall Trap
2-May	0.0	0.1
6-May	1.3	0.0
9-May	0.7	0.0
12-May	1.7	0.3
16-May	13.7	2.8
19-May	25.0	6.8
21-May	17.3	3.9
23-May	10.0	
26-May	2.3	
28-May	6.7	1.1
30-May	23.3	1.7
2-Jun	309.3	5.9
4-Jun	897.0	10.1

*May 23 and 26 no pitfall data

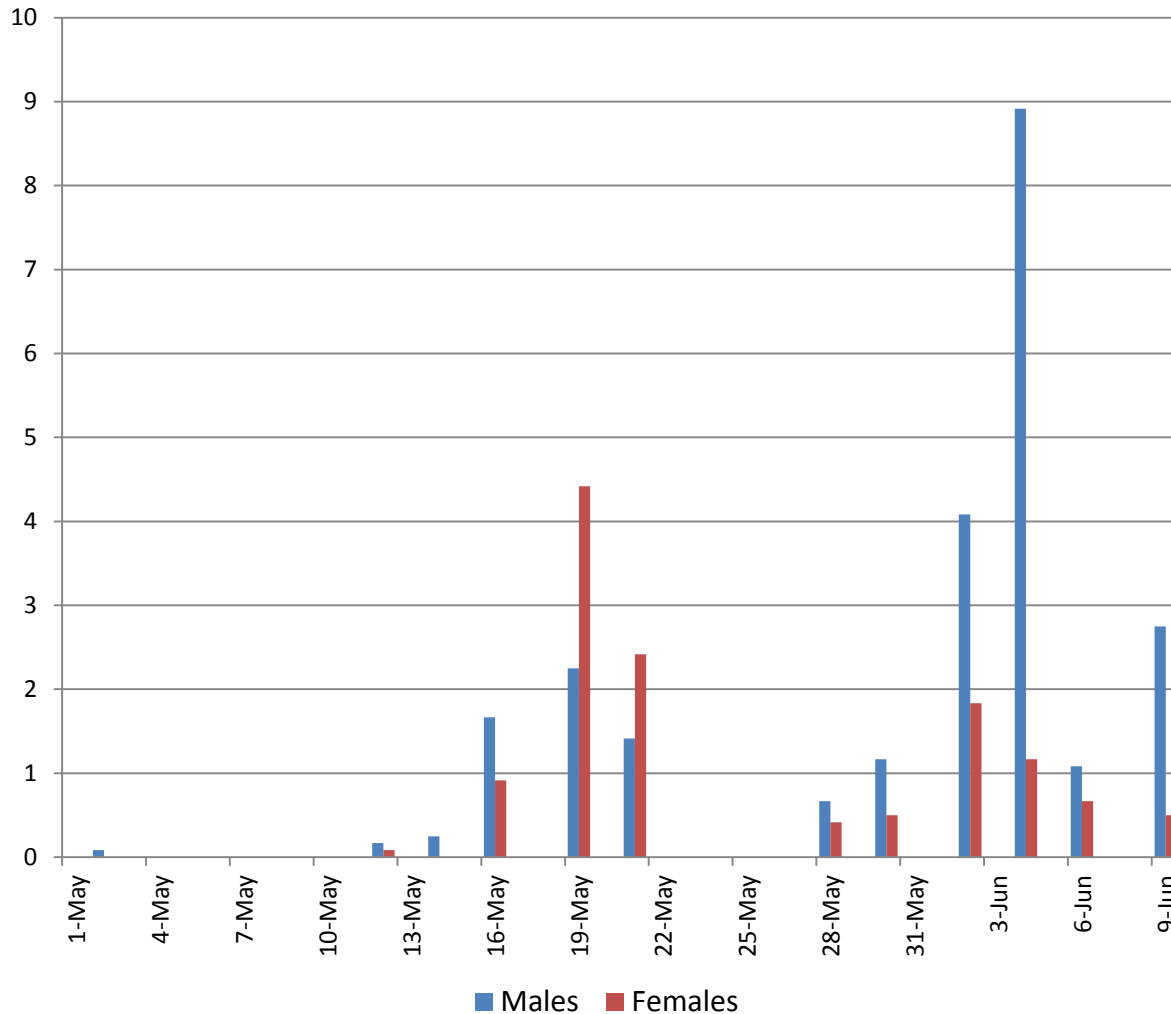
Pheromone vs. Pitfall Traps

Mean click beetles/trap (2014)



Males Vs. Females (Pitfall Traps)

Mean # Click Beetles/ Pitfall Trap



	Mean # Click Beetles/ Pitfall Trap		
	Total	Males	Females
25-Apr	0.0	0.0	0.0
28-Apr	0.0	0.0	0.0
30-Apr	0.0	0.0	0.0
2-May	0.1	0.1	0.0
6-May	0.0	0.0	0.0
9-May	0.0	0.0	0.0
12-May	0.3	0.2	0.1
14-May	0.3	0.3	0.0
16-May	2.8	1.7	0.9
19-May	6.8	2.3	4.4
21-May	3.9	1.4	2.4
28-May	1.1	0.7	0.4
30-May	1.7	1.2	0.5
2-Jun	5.9	4.1	1.8
4-Jun	10.1	8.9	1.2
6-Jun	1.8	1.1	0.7
9-Jun	3.3	2.8	0.5

*May 23 and 26 no pitfall data

Summary

- Encouraging 1st Year
- Increase to 2 sites in 2015
- Continue trapping and weather data collection
- Click beetle biology
- Test/Replicate findings from 2014
- Continue working with Dr. Noronha to develop a Click Beetle Prediction Model

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