

Piermont Phragmites Supplementary Study 2008

The purpose of this study was to look at the encroachment of phragmites (Common Reed) in the Piermont Pier habitat. The study involved stem counts of phragmites and other species in a series of transects on the North and South sides of the pier, at water's edge and closer to the roadway. Additional documentation included observations, other plants in the wider area, and bird and animal usage of the habitat.

For good background reading on setting up an ecological study follow this link:
<http://www.countrysideinfo.co.uk/howto.htm>

Stem counts in a 30X30 cm square – quadrat set up every 2 meters

| TIME/ South side of pier | GPS – North West | Quadrat counts | Total Phrag | Total Other | Observations | Macros Observed |
|--------------------------------|--|-----------------|----------------|--------------------|--|---|
| 9:30 AM | 41°02'33.21" 73°53'57.9" 4 meters accuracy | 11-3-20-27-14-7 | 82 | 3 | ROCKS! Growing in Rocky soil, sand, wood logs, moss on rocks | FOR THE 9:42 GROUP <ul style="list-style-type: none"> • 4 crabs –drawn with spots & 8 legs (no flippers) *10 Blue crabs (4 adult, 6 young) • barnacles • clams • Polydora websteri (shell worm) • bugs • Lots of mosquitos – 20-25 |
| 10:27 AM | 41°02'33.3" 73°53'57.4" | 9-1-0-32-28-20 | 90 | 5-7-13-0-0-0- (25) | Plant with yellow flower, a lot of leaves branching off | <ul style="list-style-type: none"> • 9 blue crabs • 3 barnacles • type of mussel • 2 eeteone heteropoda Hartman |

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|---------------|---|------------------|------------------|--------------------|--|--|
| | | | | | | <ul style="list-style-type: none"> • 1 cyathura polita (Stimson) shrimp |
| 10:45 AM | 41°02'33.3" 73°53'57.3" 6 meters accuracy | 8-13-59-5-1-29 | 115 | 1 | Weedy and moss covered rocks | <ul style="list-style-type: none"> • 3 blue crab • 20 barnacles • Polydora websteri (shell worm) |
| 11:16 AM | 41°02'33.5" 73°53'56.9" 4 meters accuracy | 7-13-12-18-5-23 | 55 | 0-0-0-0-1-0 | There are not many other plants besides phragmites Poison ivy, hairy rope | <ul style="list-style-type: none"> • eteone heteropoda Hartman • cyathura polita (Stimson) shrimp • 1 mussel • 1 worm • 4 barnacle • 11 crab |
| 11:34 AM | 41°02'33.3" 73°53'57.9" 4 meters | 11-15-7-16-12-2 | 63 | 0 | moss | <ul style="list-style-type: none"> • 6 barnacles |
| 12:42 PM | 41°02'33.4" 73°53'57.8" | 33-45-9-26-17-20 | 150 | 5-3-2-2-2-3 (17) | Not much space between plants, lots of broken twigs and rocks, different sizes, many phragmites are dead | <ul style="list-style-type: none"> • 2 blue crabs |
| 1:14 PM | 41°02'33.2" 73°53'57.1" 4 meters accuracy | 14-36-43-28-3-41 | 165 | 0 | Phragmites was dense but a few feet behind our square Reeds are hollow | <ul style="list-style-type: none"> • polydura websteri • crab |
| TOTALS | | | 720 phrag | 47non phrag | 6.1% of plants are non phragmites | |