

Piermont Phragmites Supplementary Study

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/Location	10:20AM North	10:40AM North	11:00AM North	11:15AM North	11:40AM South- Along shore	11:55 AM South	12:40 PM South	1:10 PM South	1:30 PM South
North West	41° 73°	41°02'33.33" 73°54'1.7"	41°02'33.4" 73°54'01.5"	41°2'33.5" 73°54'1.7"	41°02'33" 73°54'00"	41°02'33.4" 3°54'00"	41°02.33 73°53'59"	41°02'33" 73°54'00"	41°02'33.6" 73°53'58.0x"
Quadrat counts	49 22 31 24 20	9 13 41 11 8	27 11 21 20 21 78	31 25 13 26 21 71	5 12 10 15 13 16	31 12 7 22 21 16	9 28 24	24 28	11 7 6 30 30 17
Total Phrag	146	72	178	187	71	109	61	52	101
Total Other							15 other plants 6 in quad.	15 other plants 6 in	2 other plants in quad 10

							1 (next to road) 8 in quad 2 - 1 a bush and other grasses	quad.1 (next to road) 9 in quad.2	
Observations	<ul style="list-style-type: none"> • Lack of plant variety • sandy soil • no animals using plants 	<ul style="list-style-type: none"> • Lots of phrag • slimy • monarchs birds (seagulls, ducks) • crickets • Phrag takes over in dense clusters • polluted – garbage traps in it 	<ul style="list-style-type: none"> •Wet/sandy • mono culture •lack of moving features • patches of open space 	<ul style="list-style-type: none"> • buggy • muddy •littery • decaying 	<ul style="list-style-type: none"> • dense • hopping bugs • sandy soil • pointy stems • wet ground • moss • lack of diversity 	<ul style="list-style-type: none"> • dense then sparse • dead crab shells • variation of plants closer to road • lots of shells 	<ul style="list-style-type: none"> • Moss at waters edge 	This Transect ran Across Shore	Half in water – Transect ran along shore
Other plants in the area	<ul style="list-style-type: none"> Small locust trees Grasses Japanese knot weed Morning glory vines Buss Verbena Walnut Grass Poison ivy Bittersweet 			Birds & Animal usage	<ul style="list-style-type: none"> Seagulls Herring gulls Canadian Geese Cormorants Monarch butterflies (6) Great Blue Heron (1) Cricket 				

	Large mulberry Virginia creeper Berry vines Ragweed Porcelain Berry Golden Rod Sumac		
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