The Effect of Differences in Soil on Pennycress Growth

Biology 1103-32 Online Environmental Science Lab October 28, 2011

Table 1. Number of Pennycress at Various Cambridge Campus Demonstration Plot Locations (3mx3m)

Test Site	Pennycress Amount (Number Counted)
A	55
В	1291
С	483
D	475
Е	996

Table 2. Nitrate Levels at Various Cambridge Campus Demonstration Plot Locations

Test Site	Level	Average Level
А	Trace amounts	
	" "	
	" "	Trace amounts
	Trace amounts	
В	" "	
	" "	Trace amounts
	Low	
С	"	
	"	Low amounts
	Trace amounts	
D	" "	
	" "	Trace amounts
E	Trace amounts	
	" "	_
	w w	Trace amounts

Table 3. Phosphorus Levels at Various Cambridge Campus Demonstration Plot Locations

Test Site	Level	Average Level
	Trace amounts	
Α	" "	
	" "	Trace amounts
	Trace amounts	
В	" "	
	" "	Trace amounts
	Trace amounts	
С	" "	Tue
	" "	Trace amounts
	Trace amounts	
D	" "	
	" "	Trace amounts
	Trace amounts	
E	" "	1
	" "	Trace amounts

Table 4. Potassium Levels at Various Cambridge Campus Demonstration Plot Locations

Test Site	Level	Average Level
А	Low	
	W.	1
	n.	Low
	Low	
В	W.	-
	w.	Low
С	Low	
	W.	1 .
	n .	Low
D	Low	
	Medium	Low
	Low	LOW
E	Low	
	"	1
	W	Low

Table 5. Soil Moisture at Various Cambridge Campus Demonstration Plot Locations

Test Site	Level	Average Level
	1.5	
Α	1.5	1.83
	2.5	1.63
	2.5	
В	1	2
	2.5	
	1	
С	2	1.5
	1.5	1.5
	2.5	
D	3	2.67
	2.5	2.07
_	1.5	
E	2.5	2
	2	2

Table 6. pH Levels at Various Cambridge Campus Demonstration Plot Locations

Test Site	Level	Average Level
	8	
Α	8.5	8
	7.5	0
_	8.5	
В	8	8.167
	8	8.107
С	8	
	8	8
	8	0
D	8	
	8	8
	8	0
Е	9	
	9	8.833
	9.5	0.000

Table 7. Percolation Rates at Various Cambridge Campus Demonstration Plot Locations

Test Site	Rate (mpc)	Average Rate (mpc)
	3.57	
A	2.68	3.13
В	0.42	
	0.56	0.49
С	0.6	
	0.7	0.65
D	0.3	
	0.42	0.36
E	13.02	
	11.14	12.08

Table 8. GPS Coordinates of Various Sites & Site Descriptions (Including Topography)

Site	GPS Coordinate	es Site Description
А	N 45 34" 115" W 093 14" 740"	Northeast Corner of 10 acres with road on 2 sides; land flat and little vegetation plot area
В	N 45 34" 101" W 093 14" 833"	Top of the hill; flat land northwest side of the 10 acre lot. Lots of vegetation.
С	N 45 34" 091" W093 14" 794"	Very top of hill in the middle of the 10 acres. Lots of vegetation.
D	N 45 34" 037" W 093 14" 838"	Lower southwest corner of plot west of tree line; mild vegetation growth, but around plot denser vegetation growth.
Е	N 45 34' 029" W 093 14' 749"	Southeast corner of plot next to the tree line, lower level down the slope of the hill. Mild vegetation in plot area.