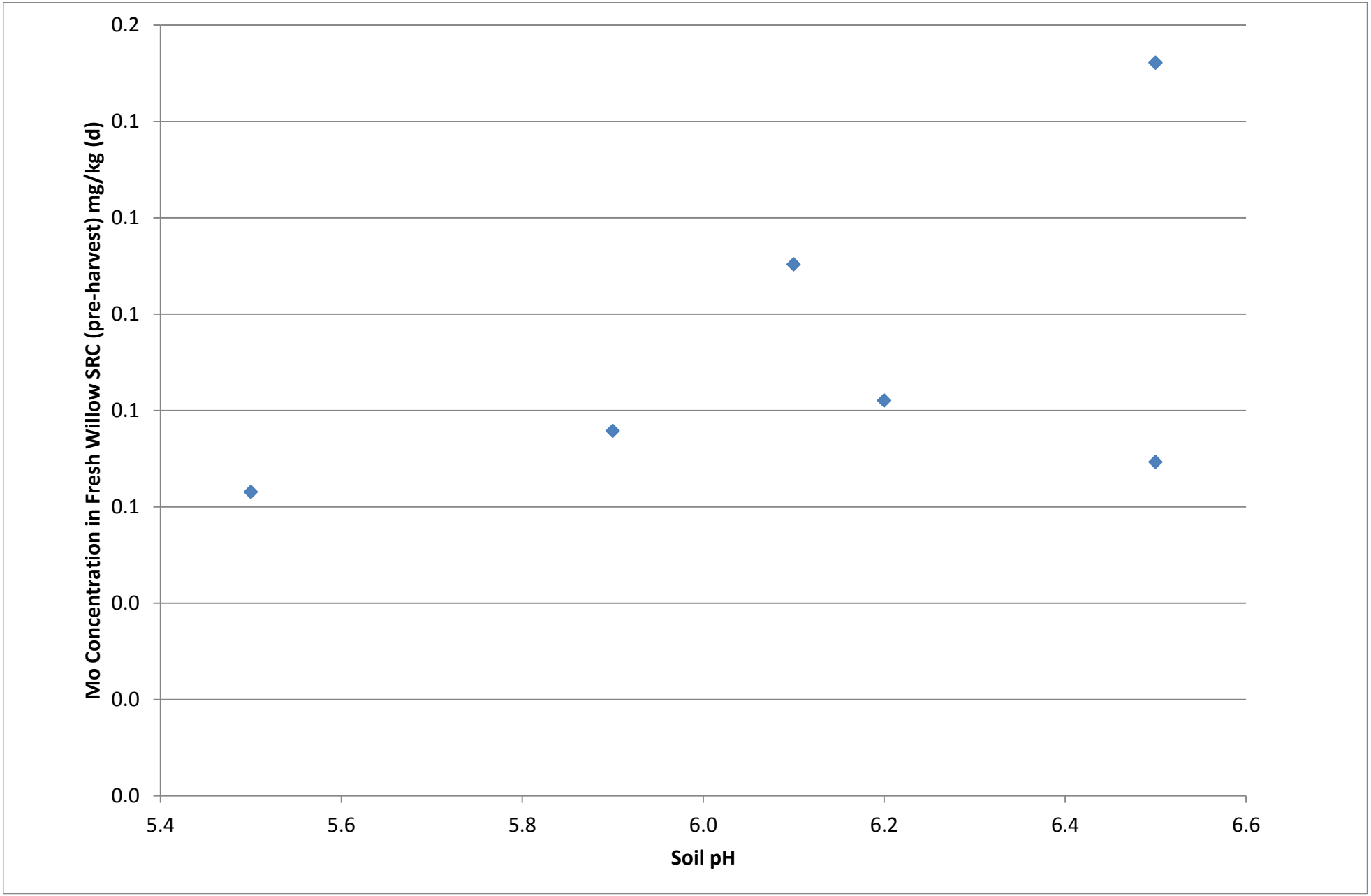
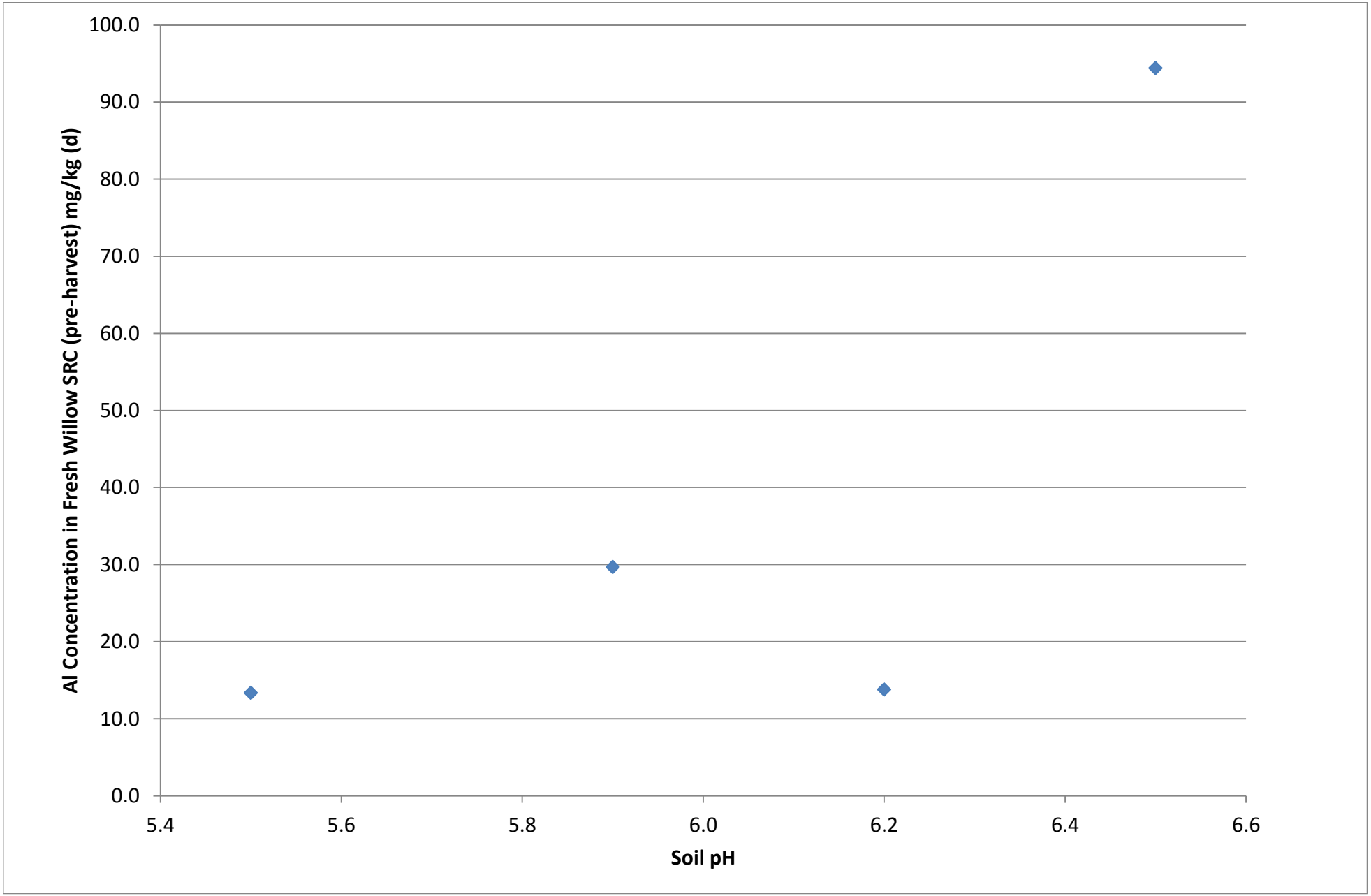
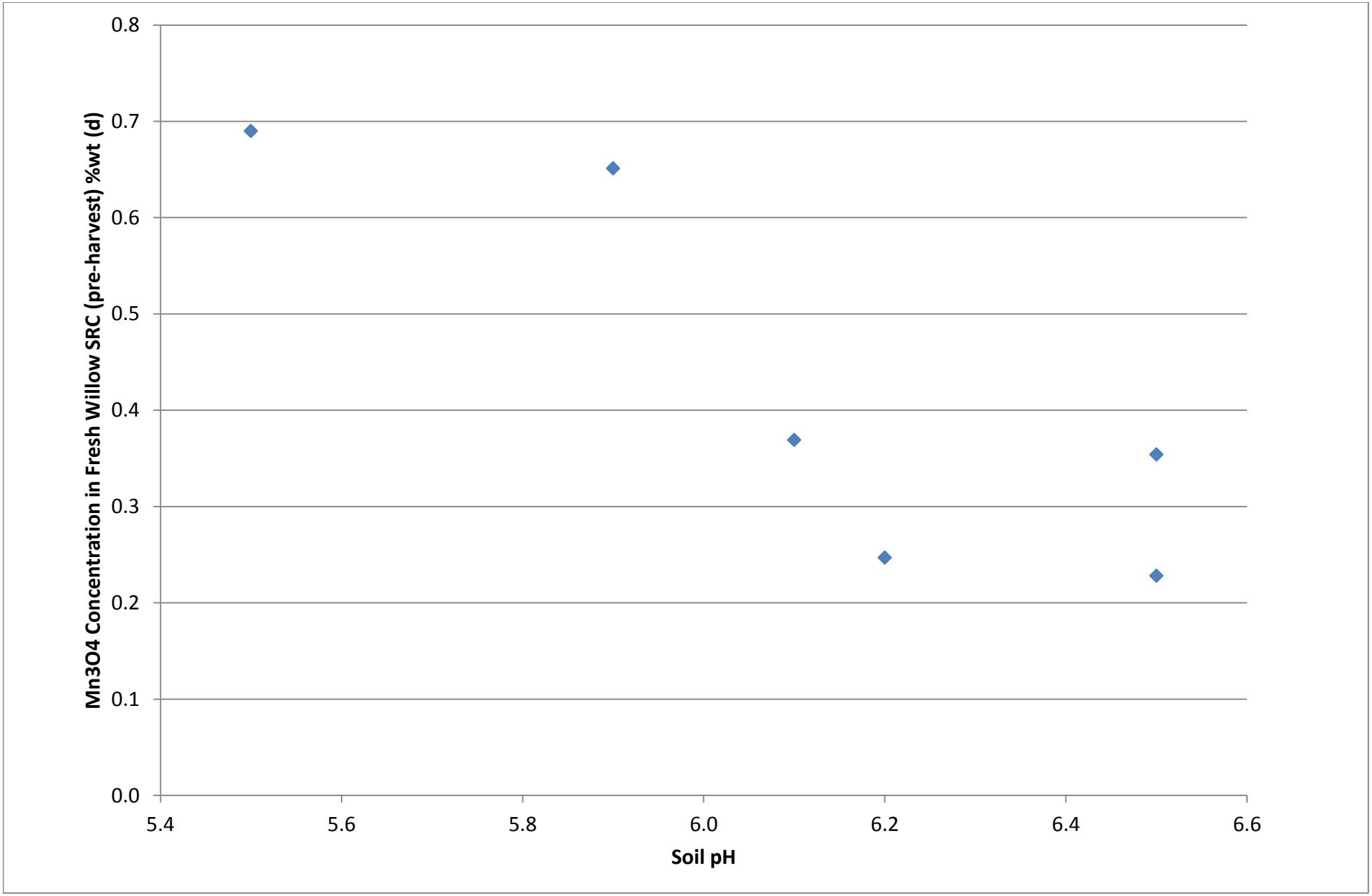
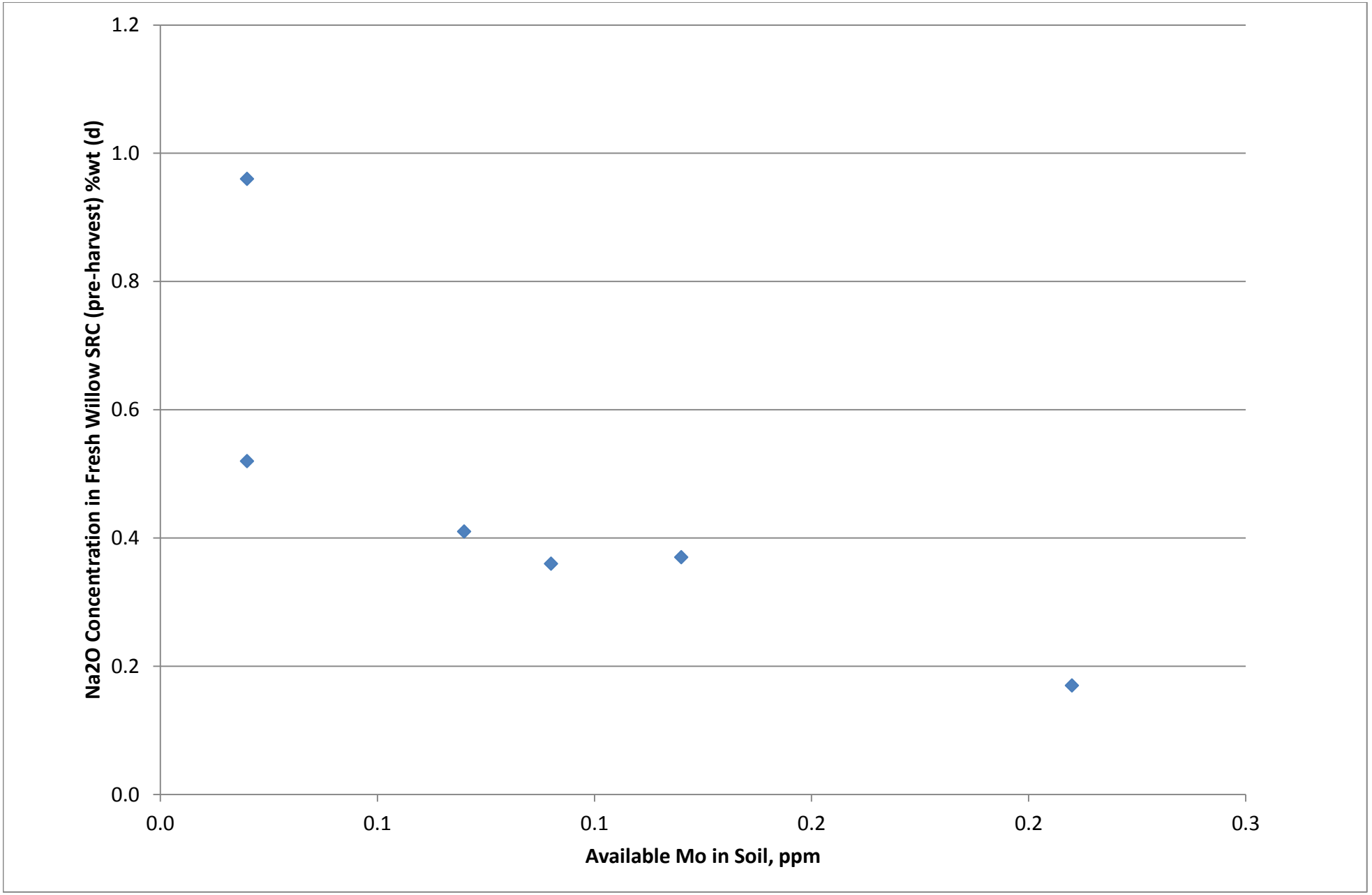
Appendix 10 File 2 of 3

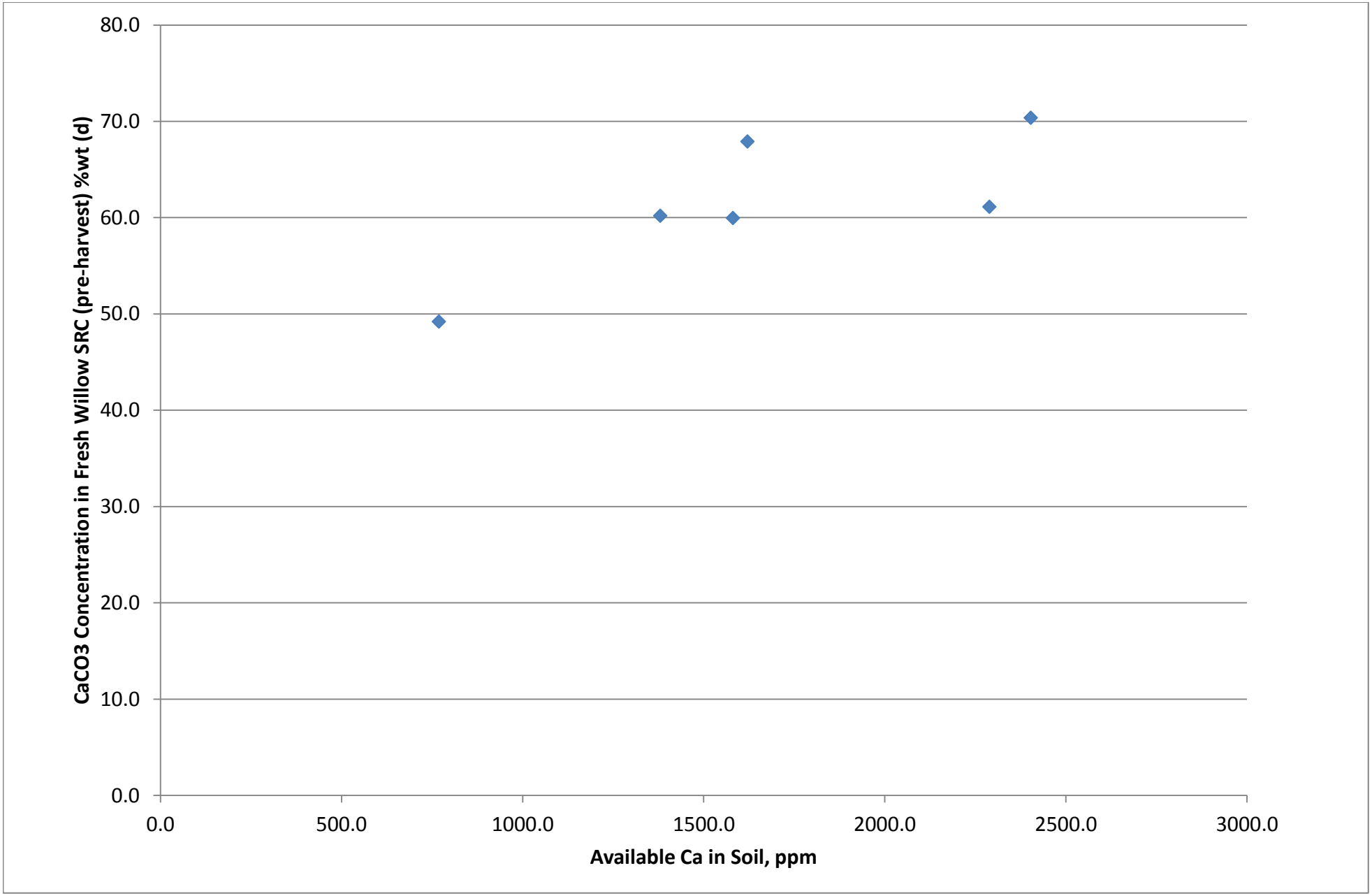
Correlation charts of soil vs feedstock characteristics for Willow SRC (fresh material)

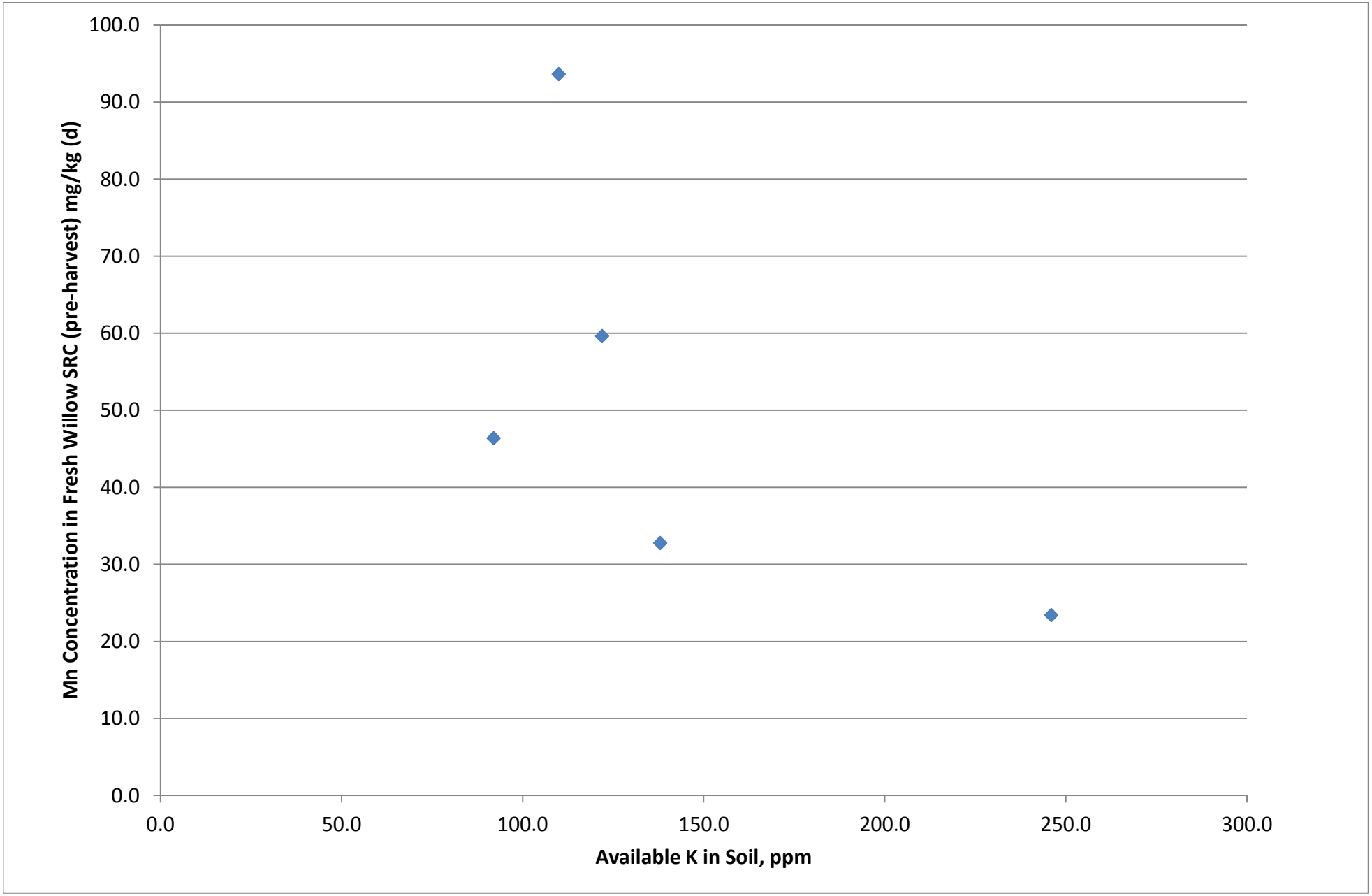

0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
Mo Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
5.4
5.6
5.8
6.0
6.2
6.4
6.6
Soil pH

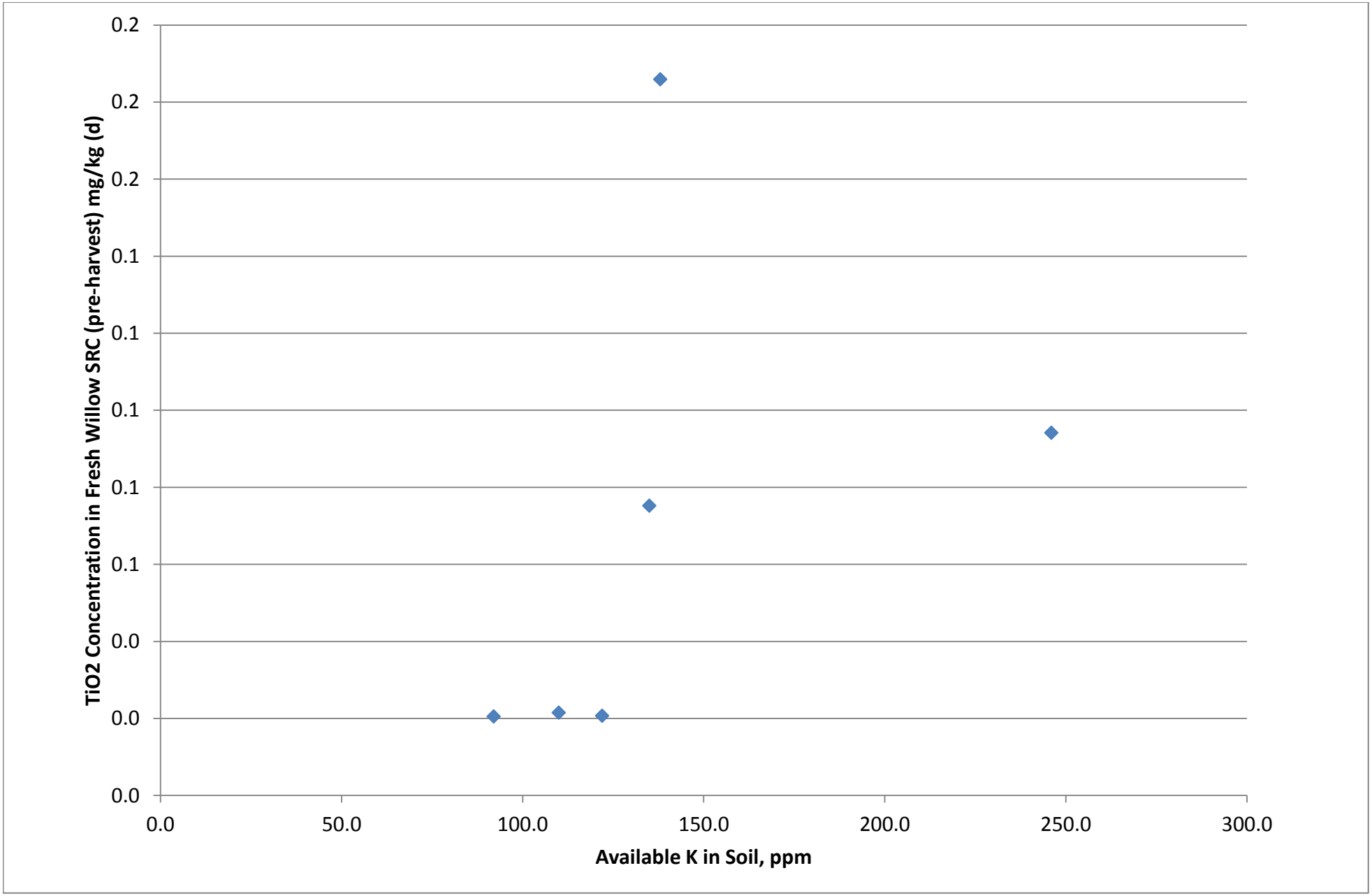

Al Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
5.4
5.6
5.8
6.0
6.2
6.4
6.6
Soil pH

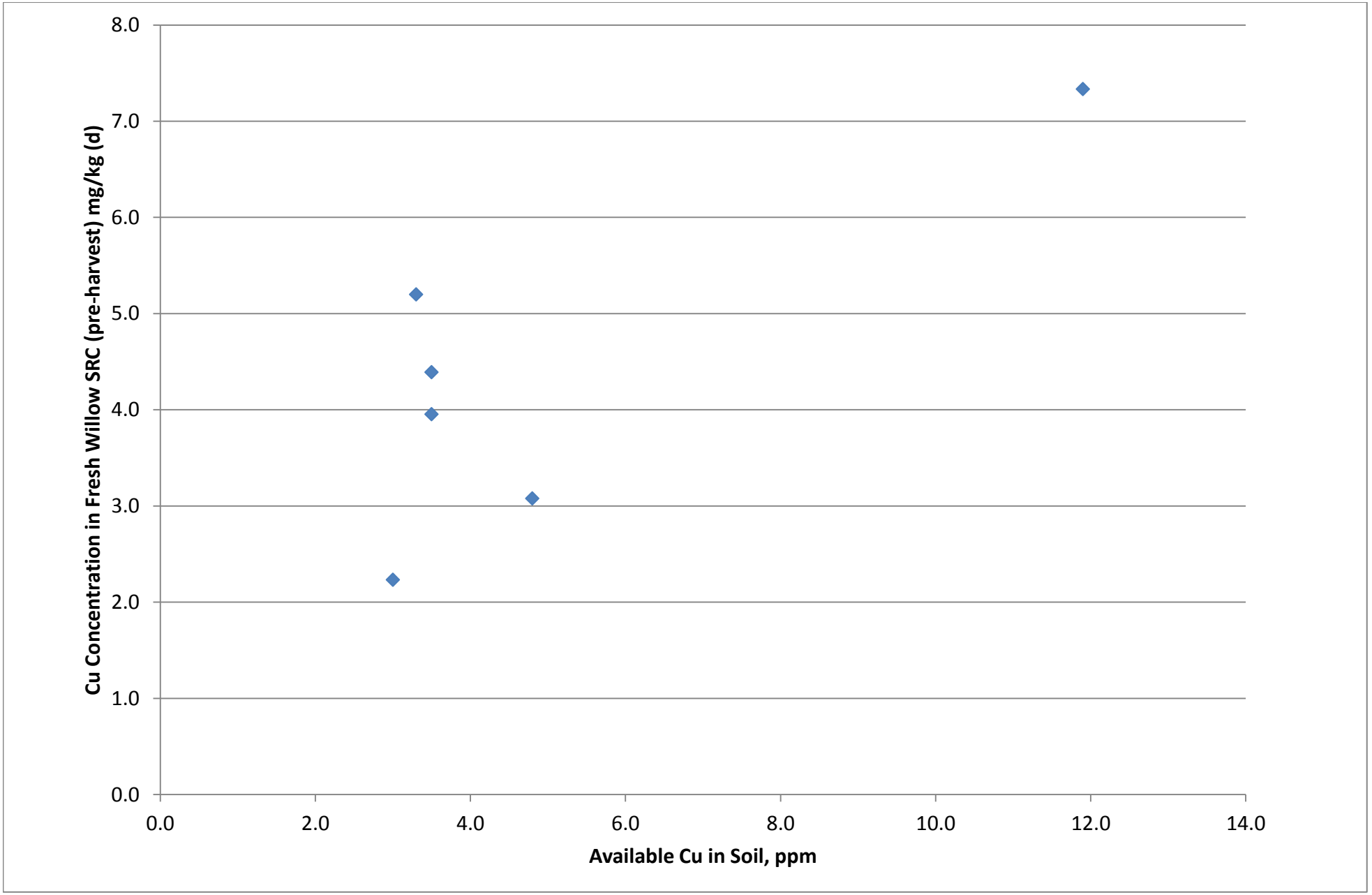

0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Mn3O4 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
5.4
5.6
5.8
6.0
6.2
6.4
6.6
Soil pH

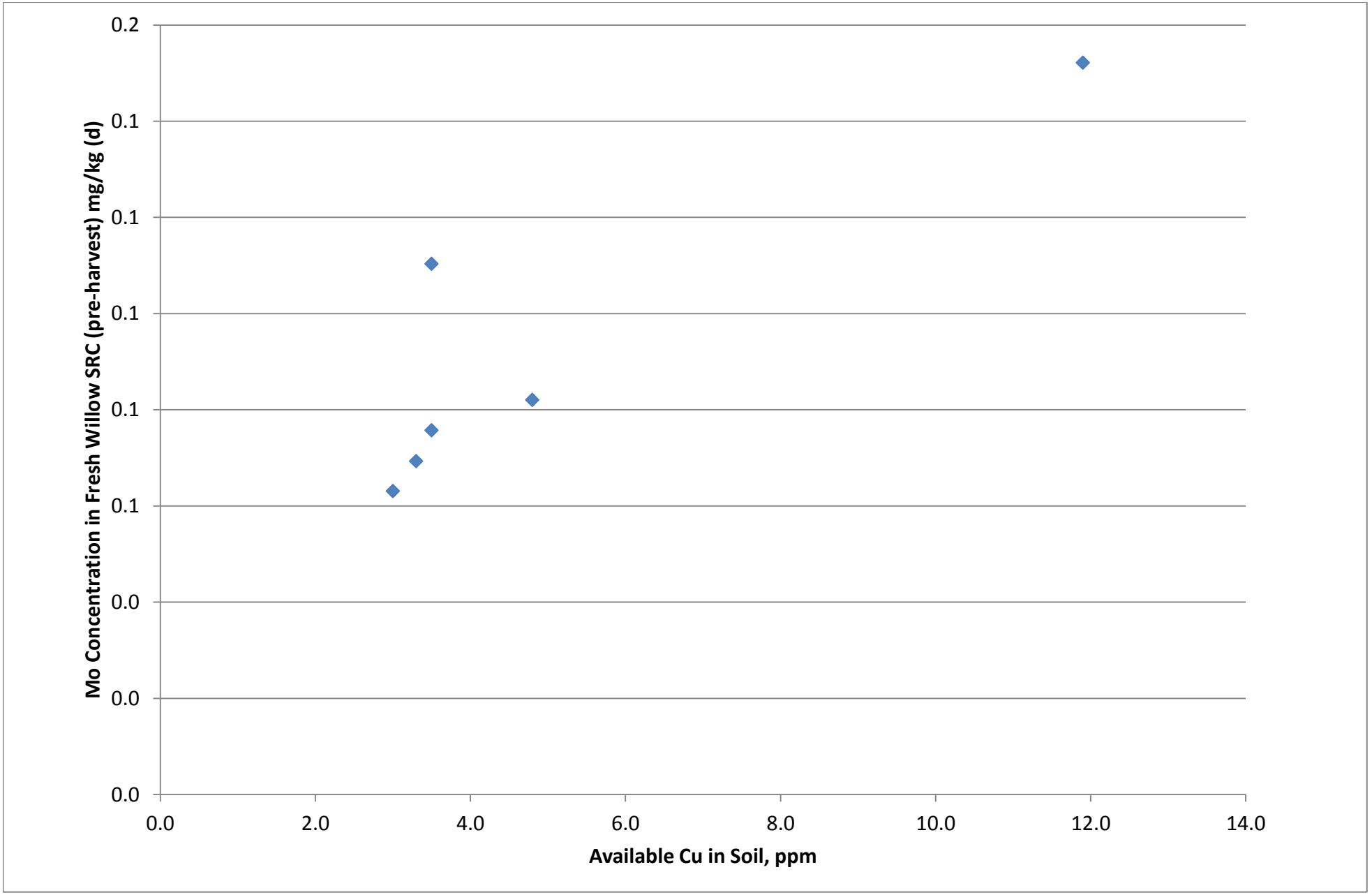

1.2
1.0
0.8
0.6
0.4
0.2
0.0
Na2O Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
0.0
0.1
0.1
0.2
0.2
0.3
Available Mo in Soil, ppm

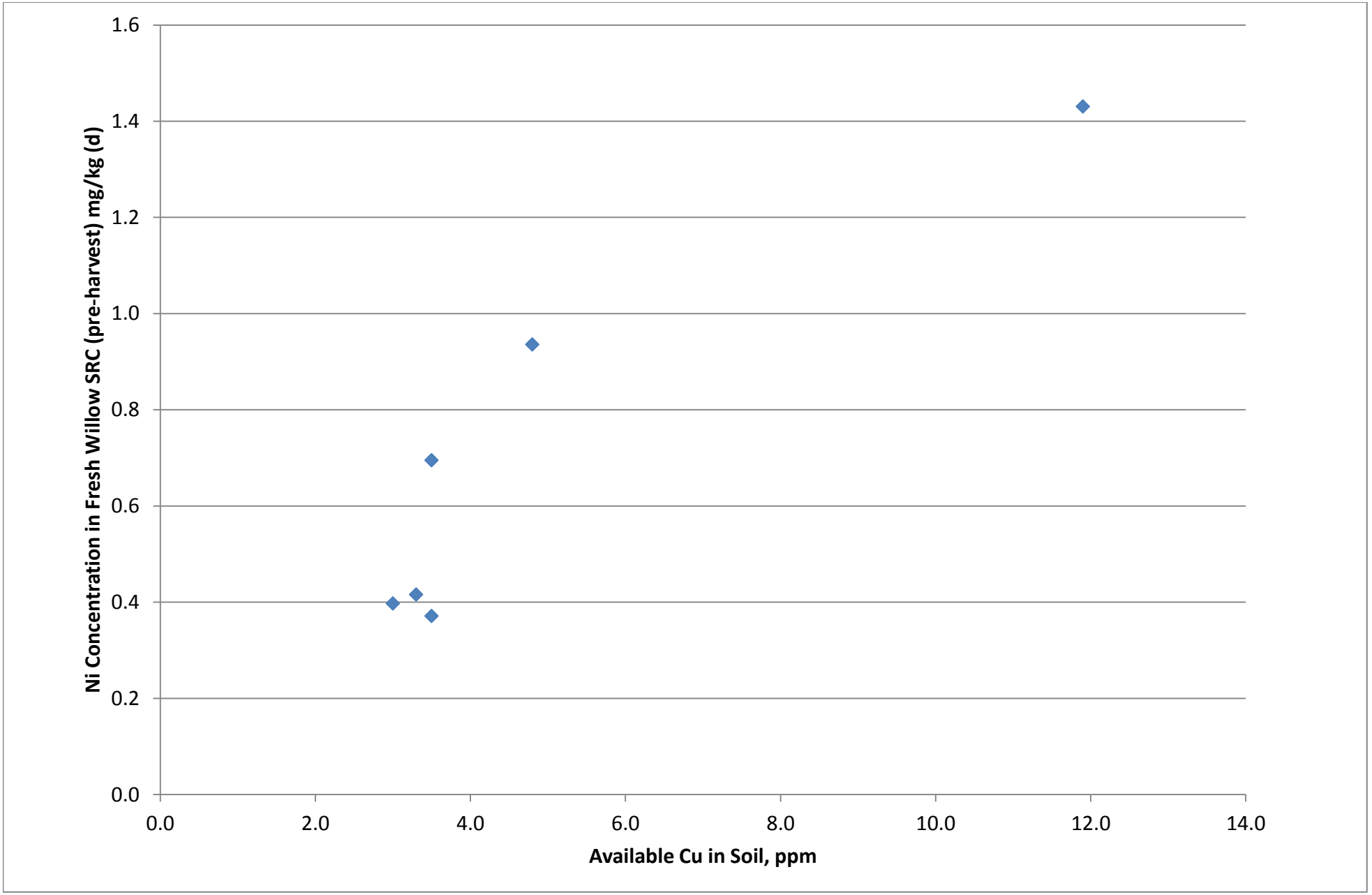

80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
CaCO3 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
0.0
500.0
1000.0
1500.0
2000.0
2500.0
3000.0
Available Ca in Soil, ppm

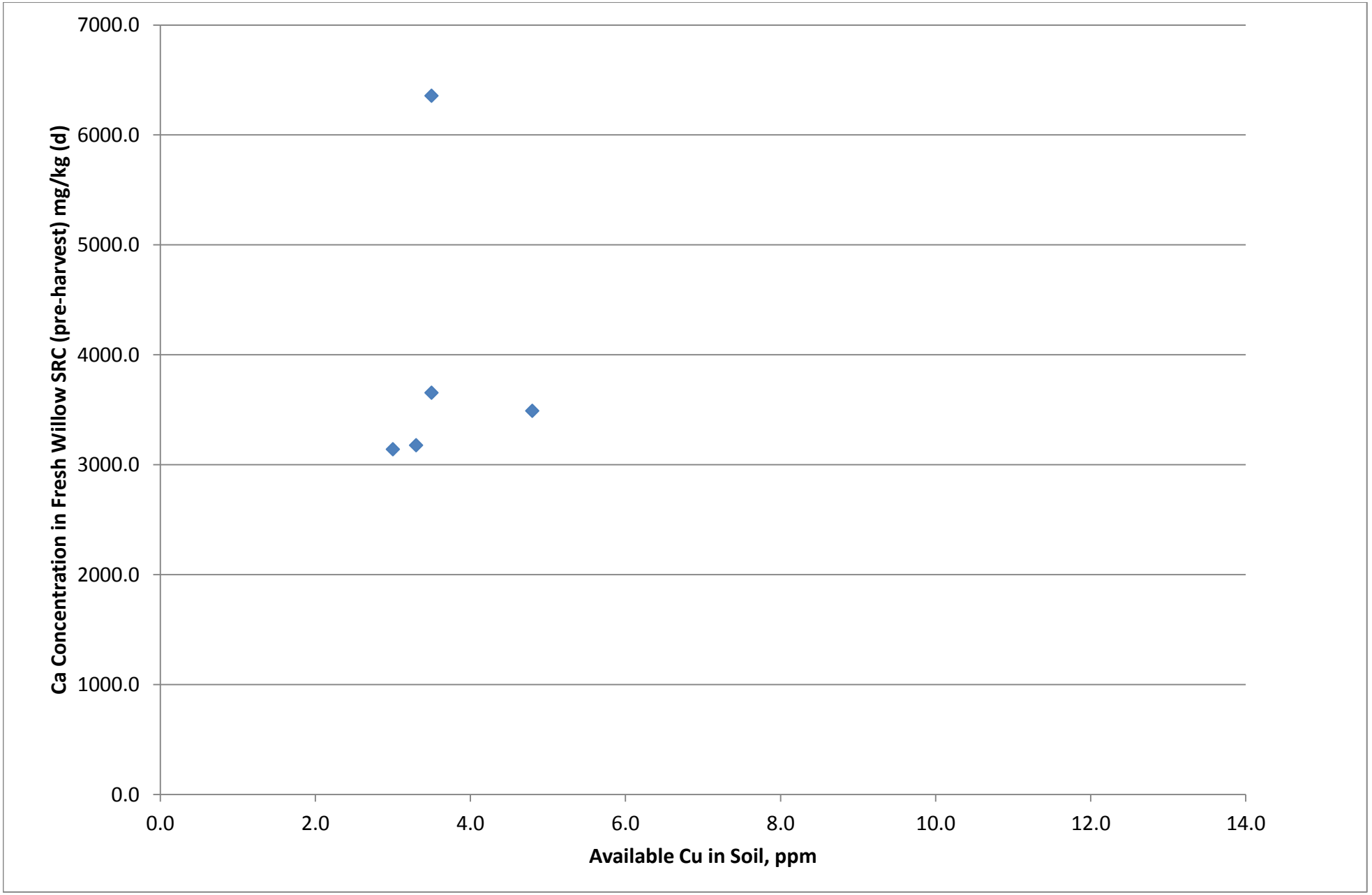

100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Mn Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
0.0
50.0
100.0
150.0
200.0
250.0
300.0
Available K in Soil, ppm

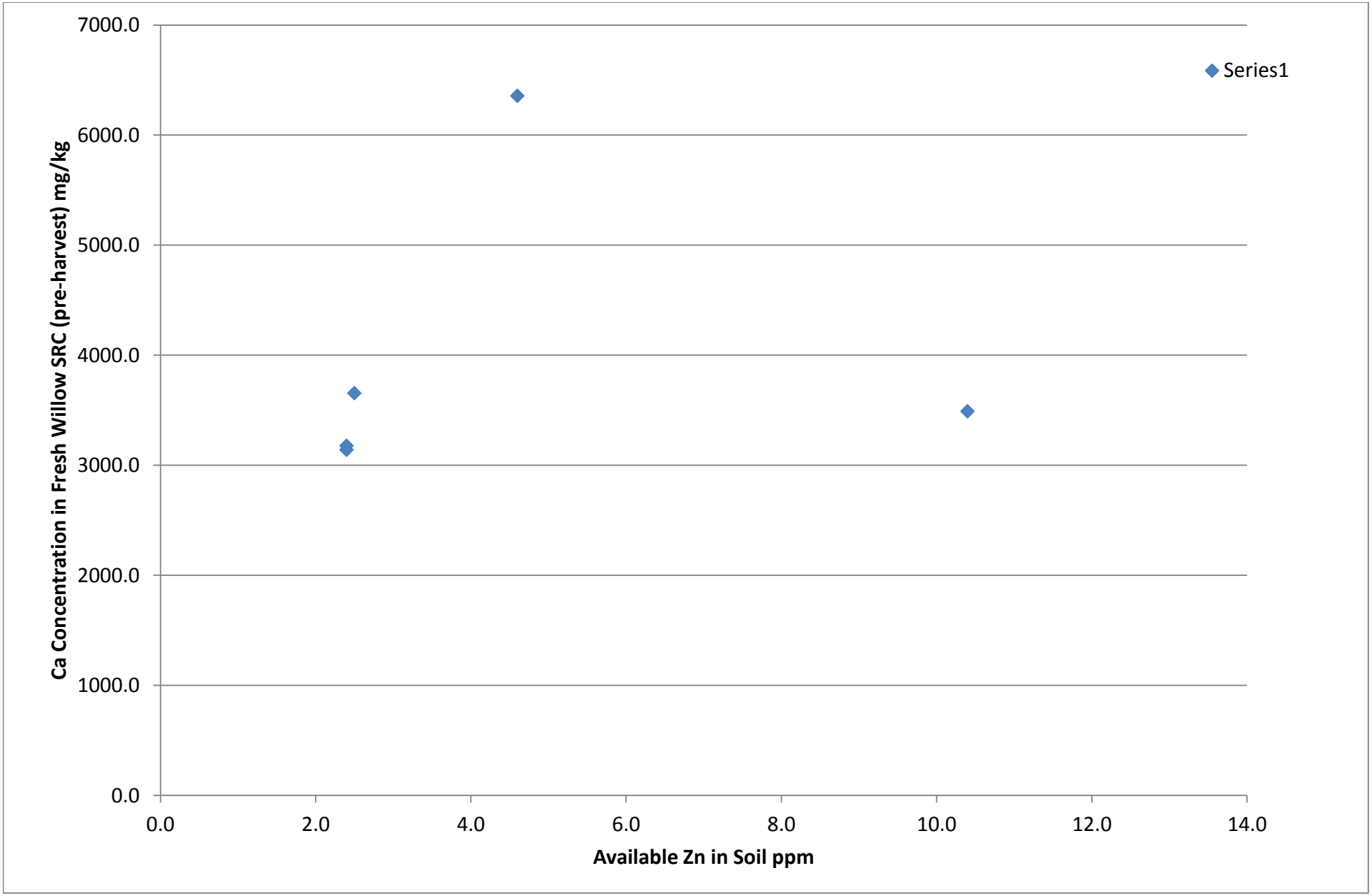

TiO2 Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
0.2
0.2
0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
0.0
50.0
100.0
150.0
200.0
250.0
300.0
Available K in Soil, ppm

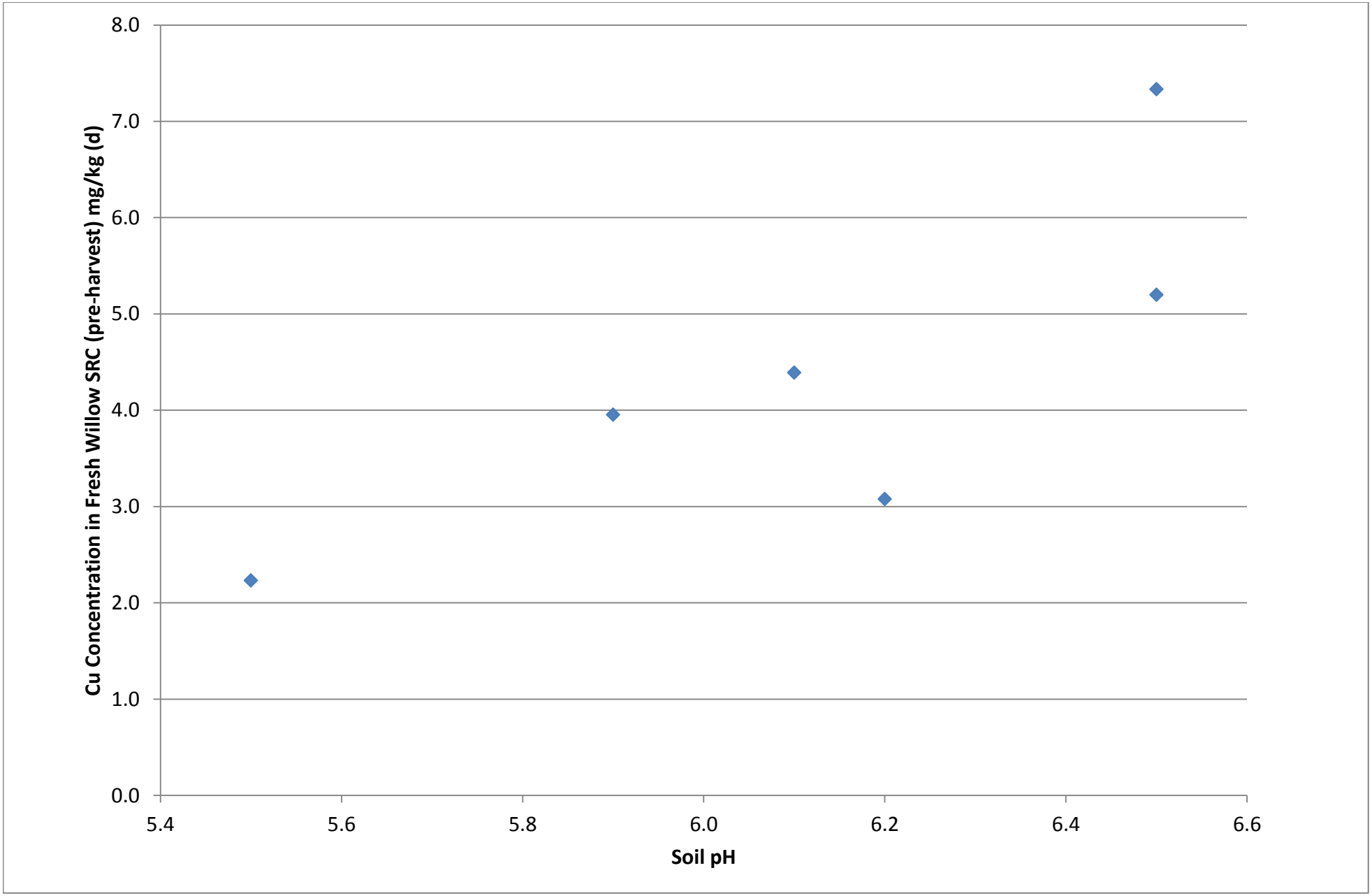

8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Cu Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Available Cu in Soil, ppm

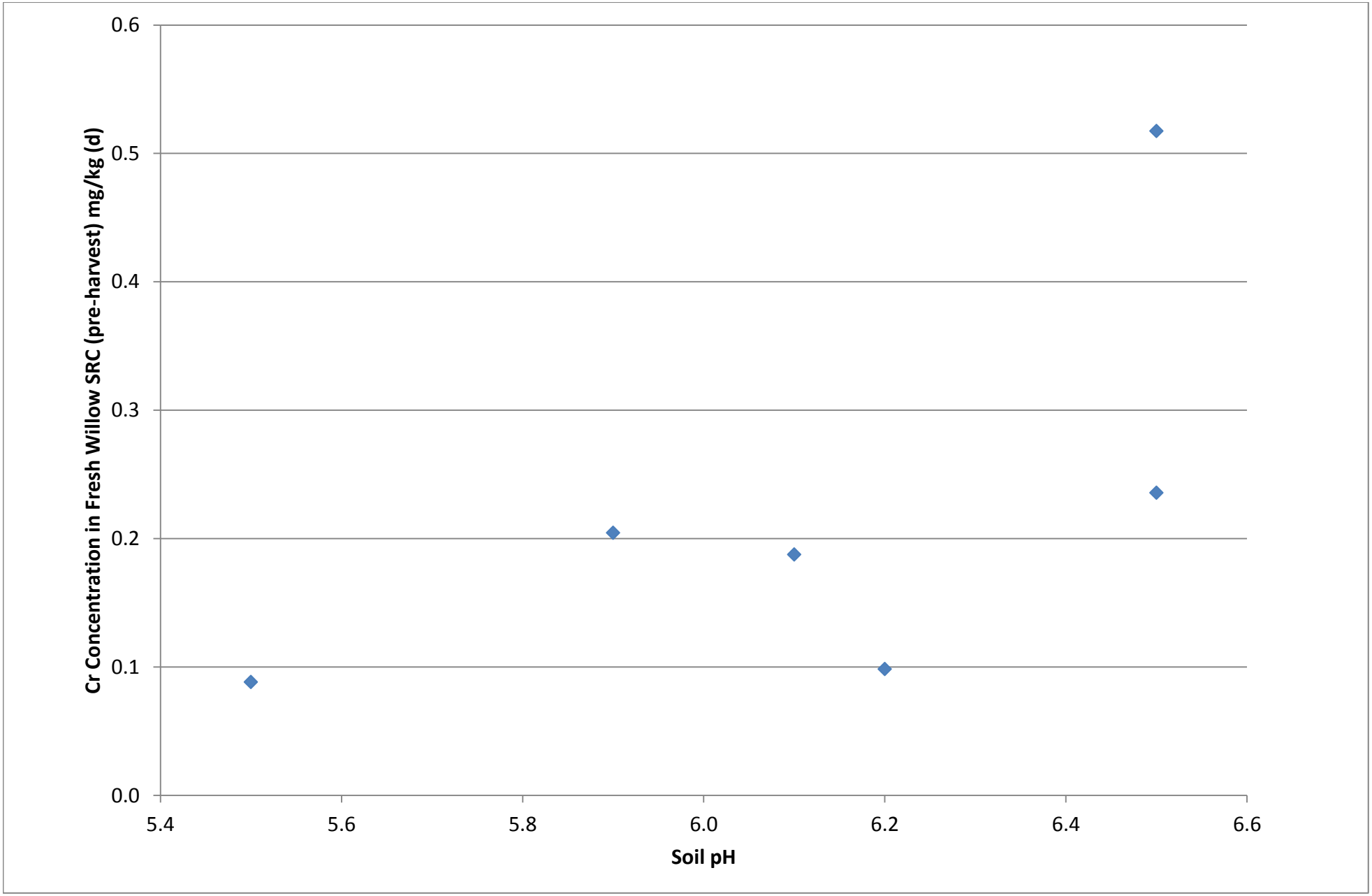

0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
Mo Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Available Cu in Soil, ppm

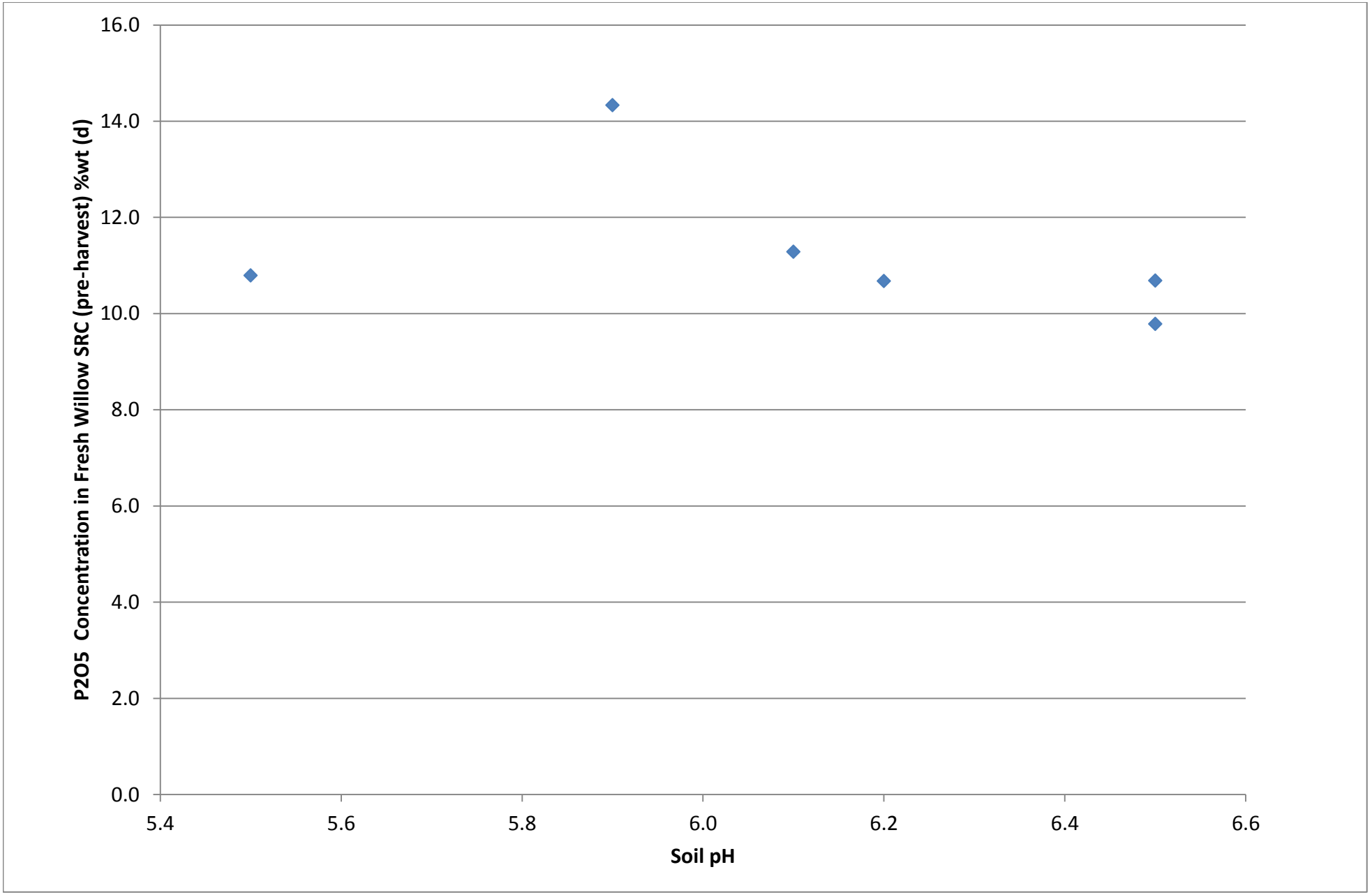

Ni Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Available Cu in Soil, ppm

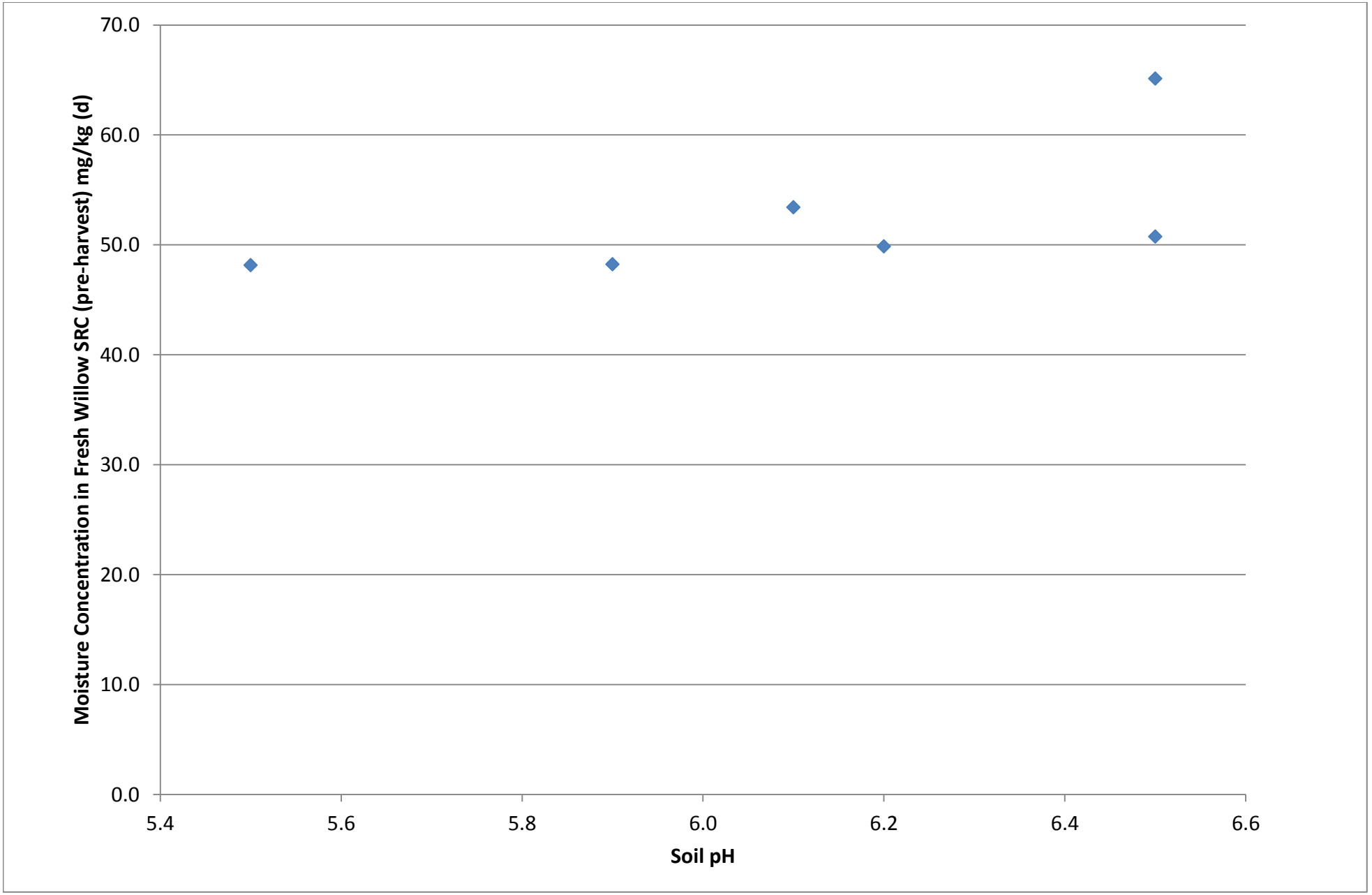

7000.0
6000.0
5000.0
4000.0
3000.0
2000.0
1000.0
0.0
Ca Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Available Cu in Soil, ppm

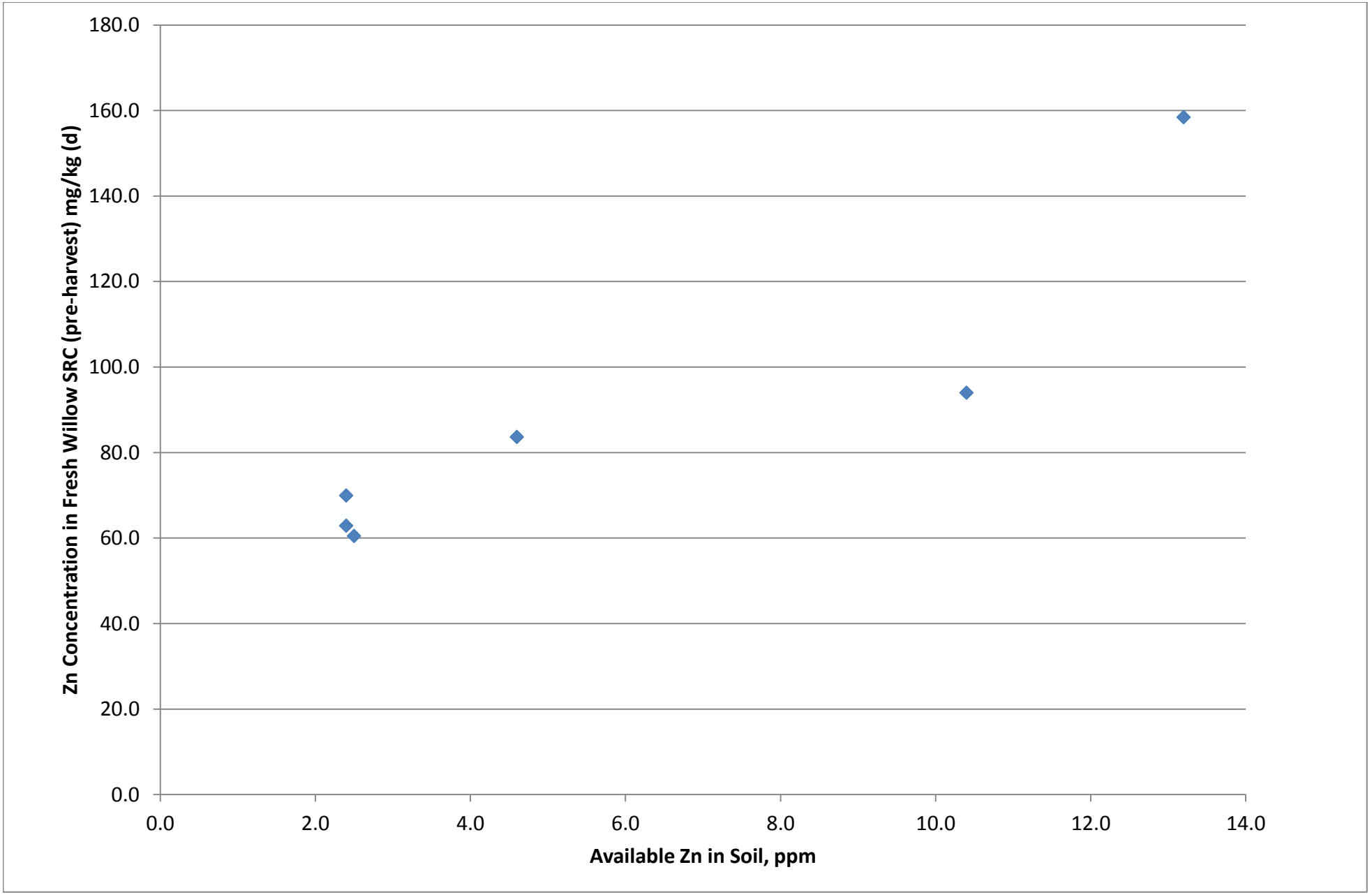

7000.0
6000.0
5000.0
4000.0
3000.0
2000.0
1000.0
0.0
Ca Concentration in Fresh Willow SRC (pre-harvest) mg/kg
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Available Zn in Soil ppm
Series1

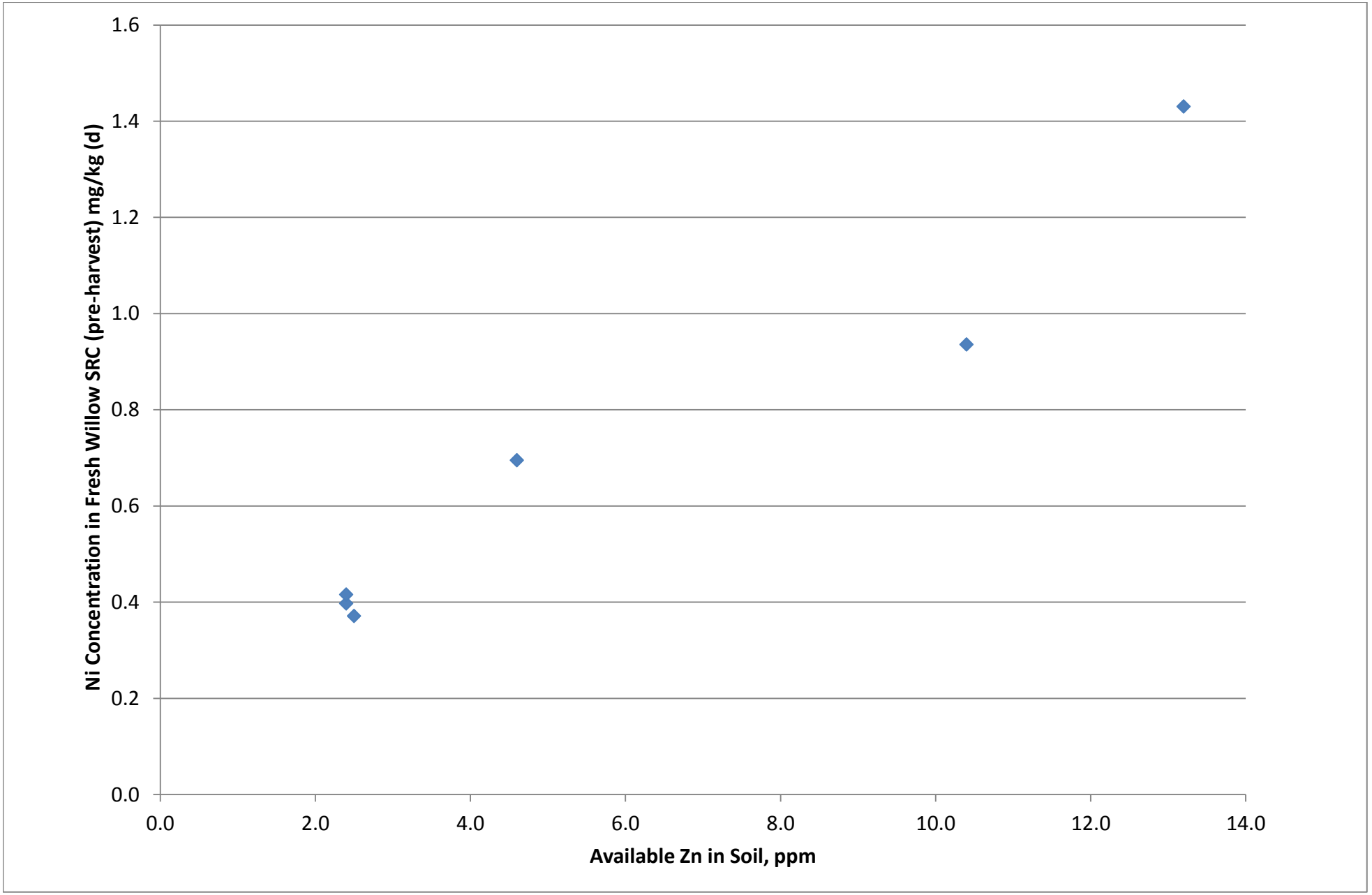

8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Cu Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
5.4
5.6
5.8
6.0
6.2
6.4
6.6
Soil pH

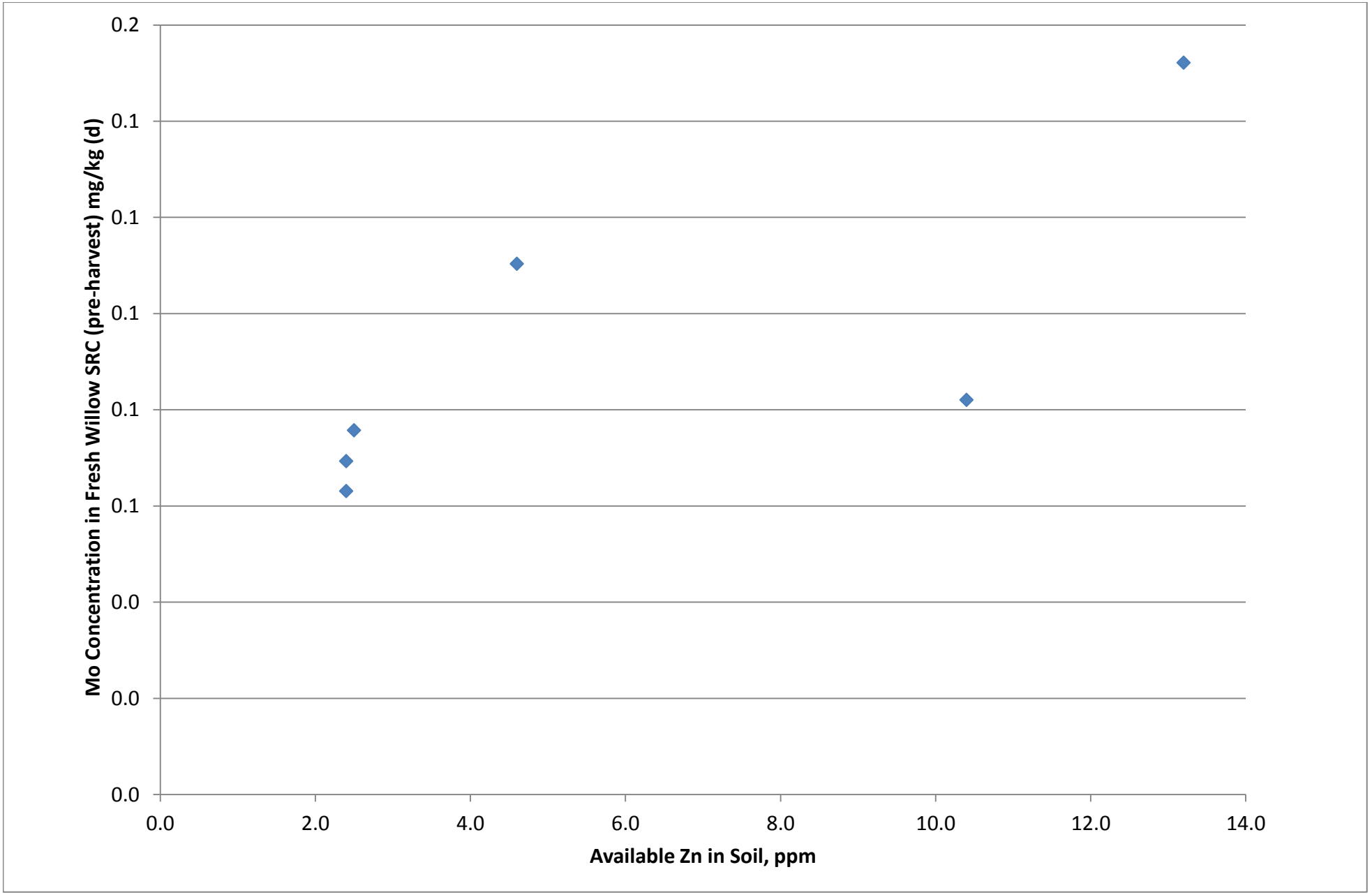

0.6
0.5
0.4
0.3
0.2
0.1
0.0
Cr Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
5.4
5.6
5.8
6.0
6.2
6.4
6.6
Soil pH

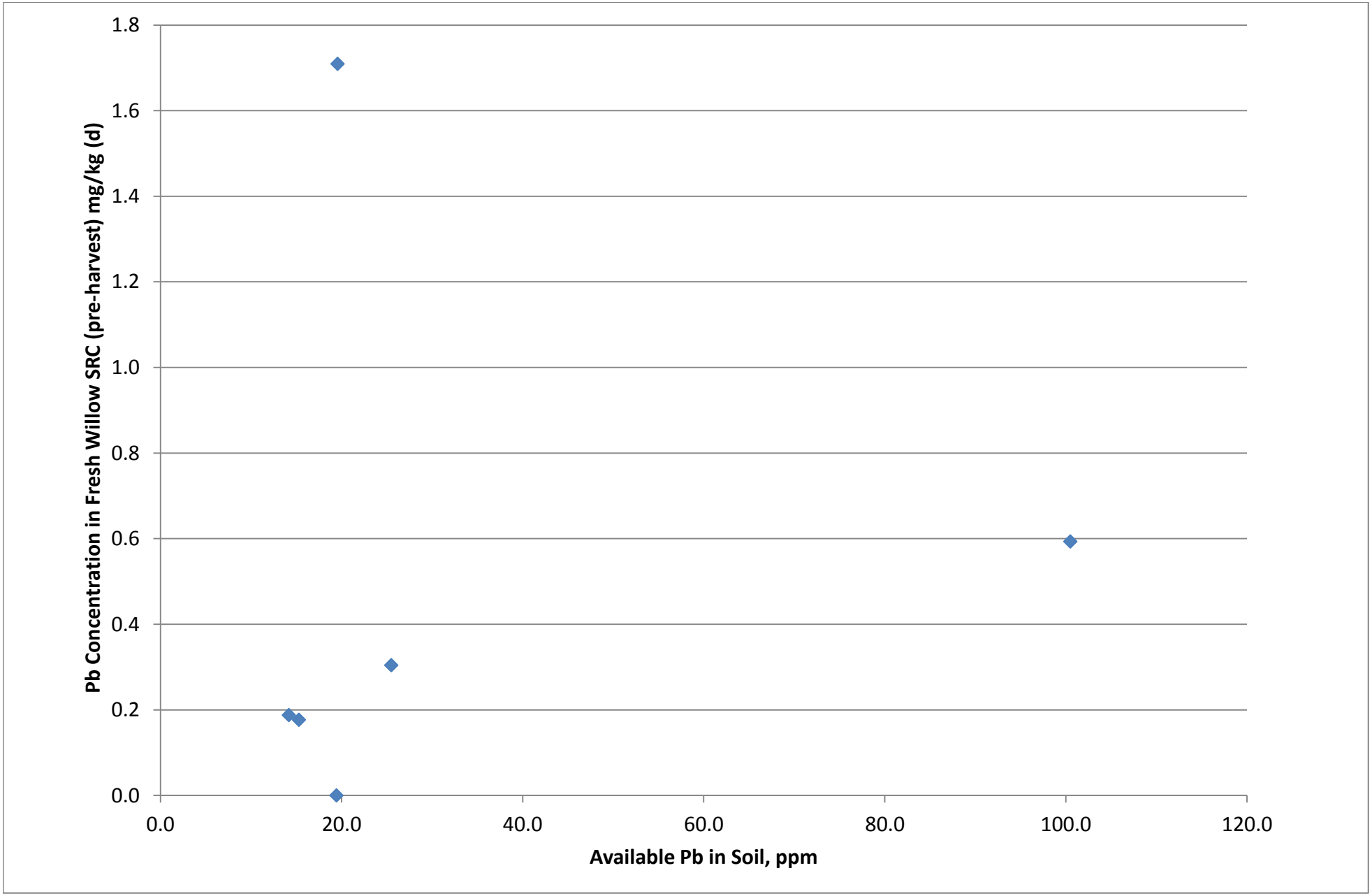

16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
P2O5 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
5.4
5.6
5.8
6.0
6.2
6.4
6.6
Soil pH

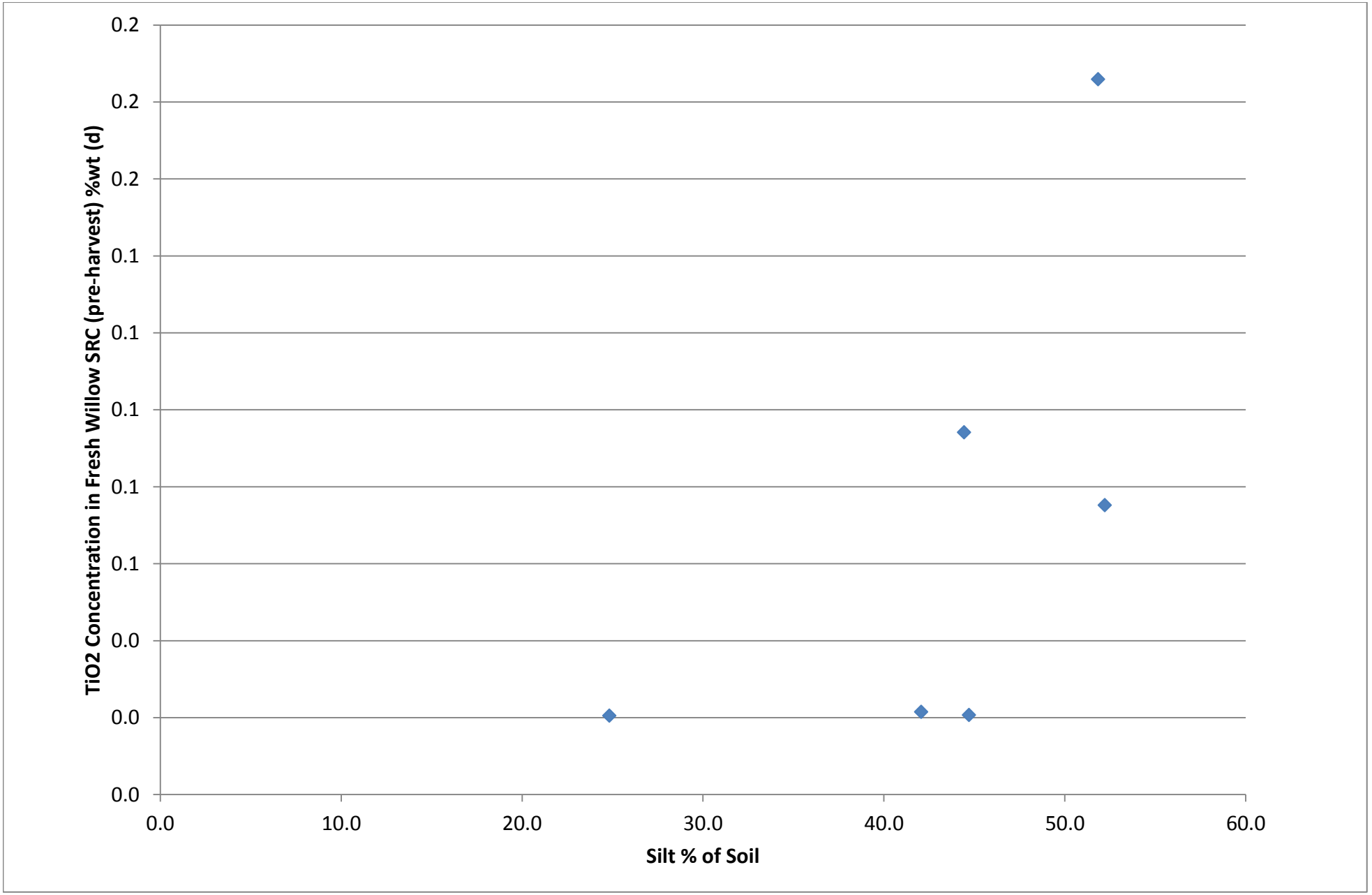

70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Moisture Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
5.4
5.6
5.8
6.0
6.2
6.4
6.6
Soil pH

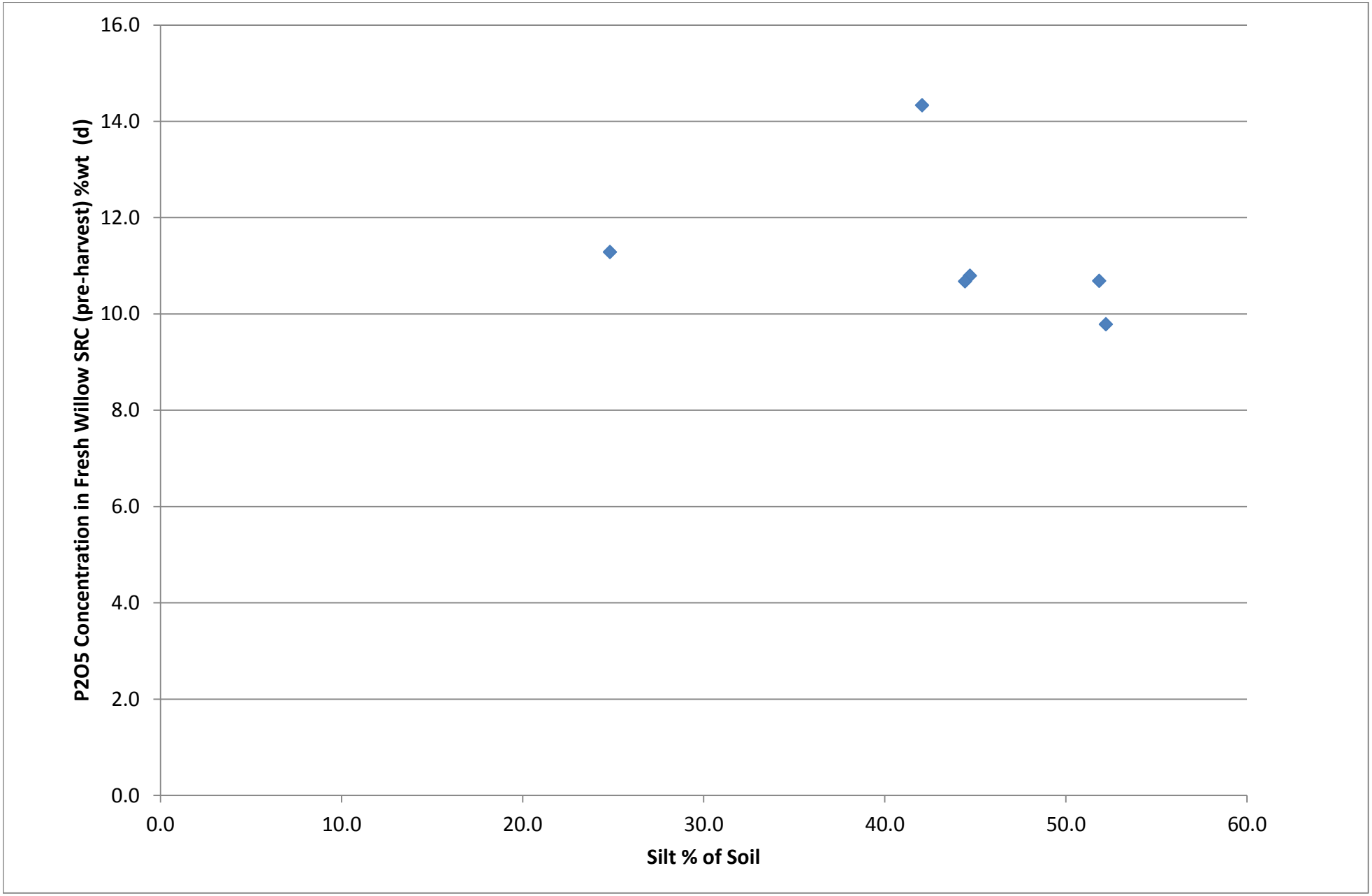

180.0
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Zn Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Available Zn in Soil, ppm

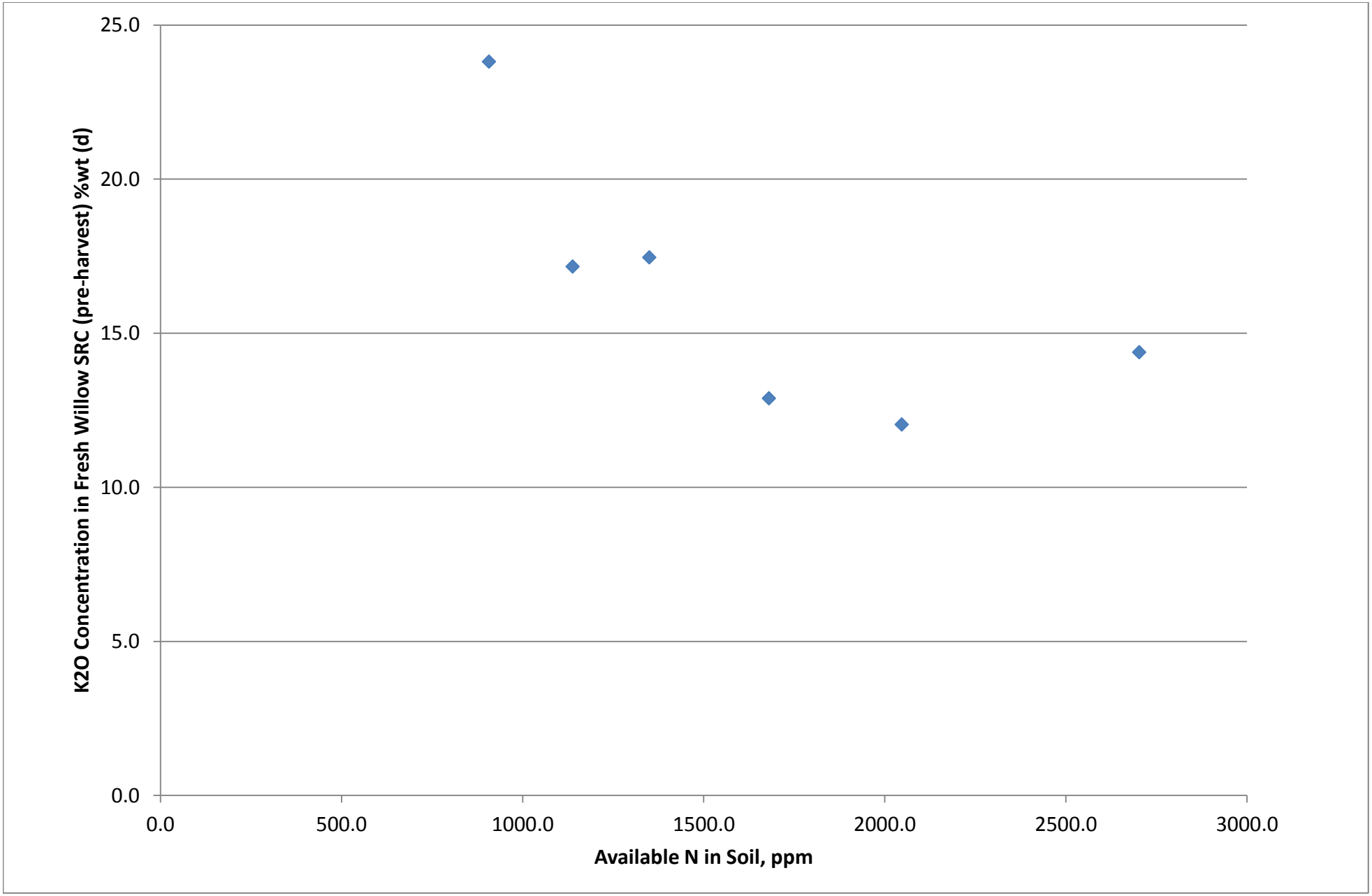

Ni Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Available Zn in Soil, ppm

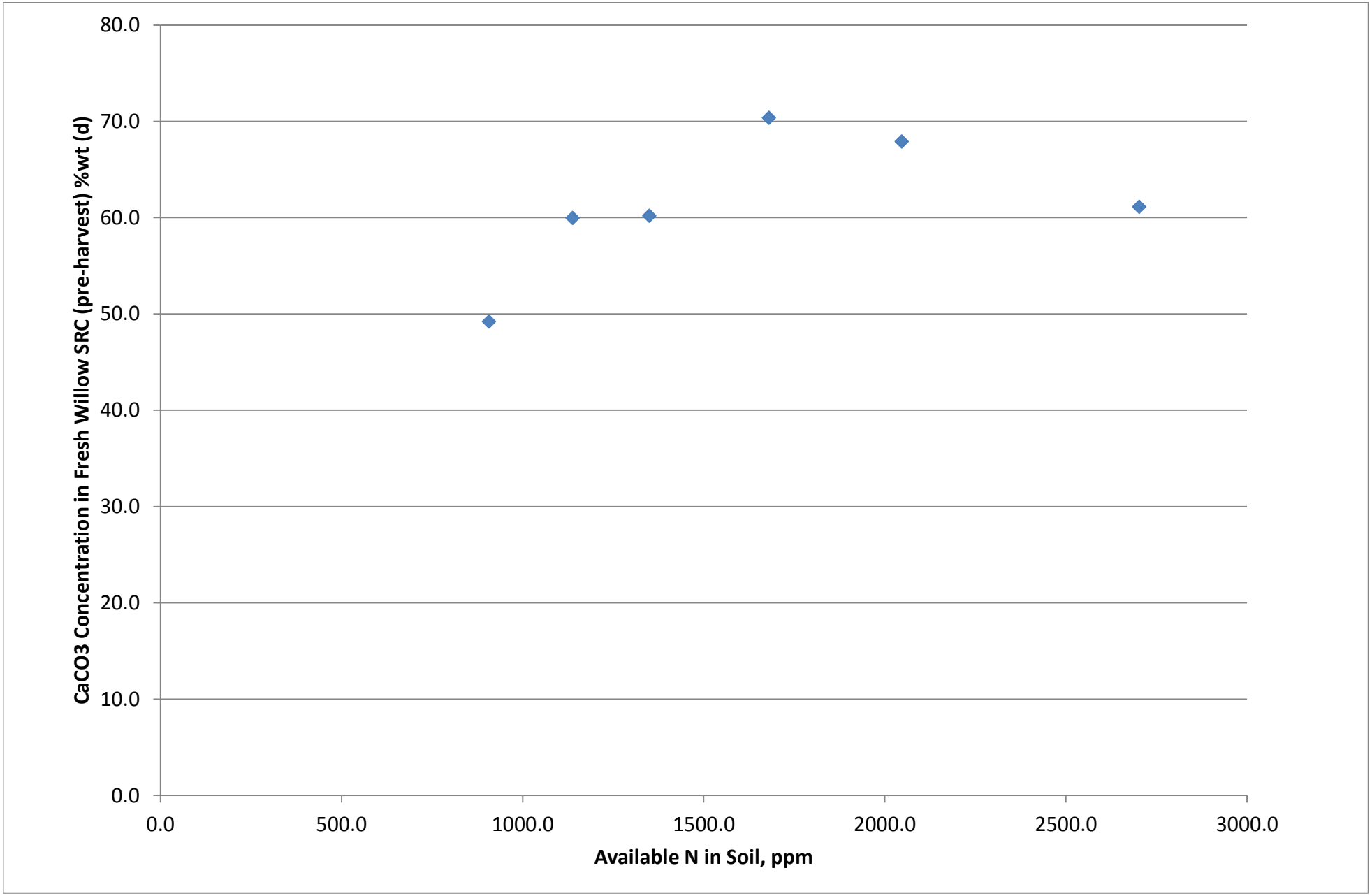

0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
Mo Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Available Zn in Soil, ppm

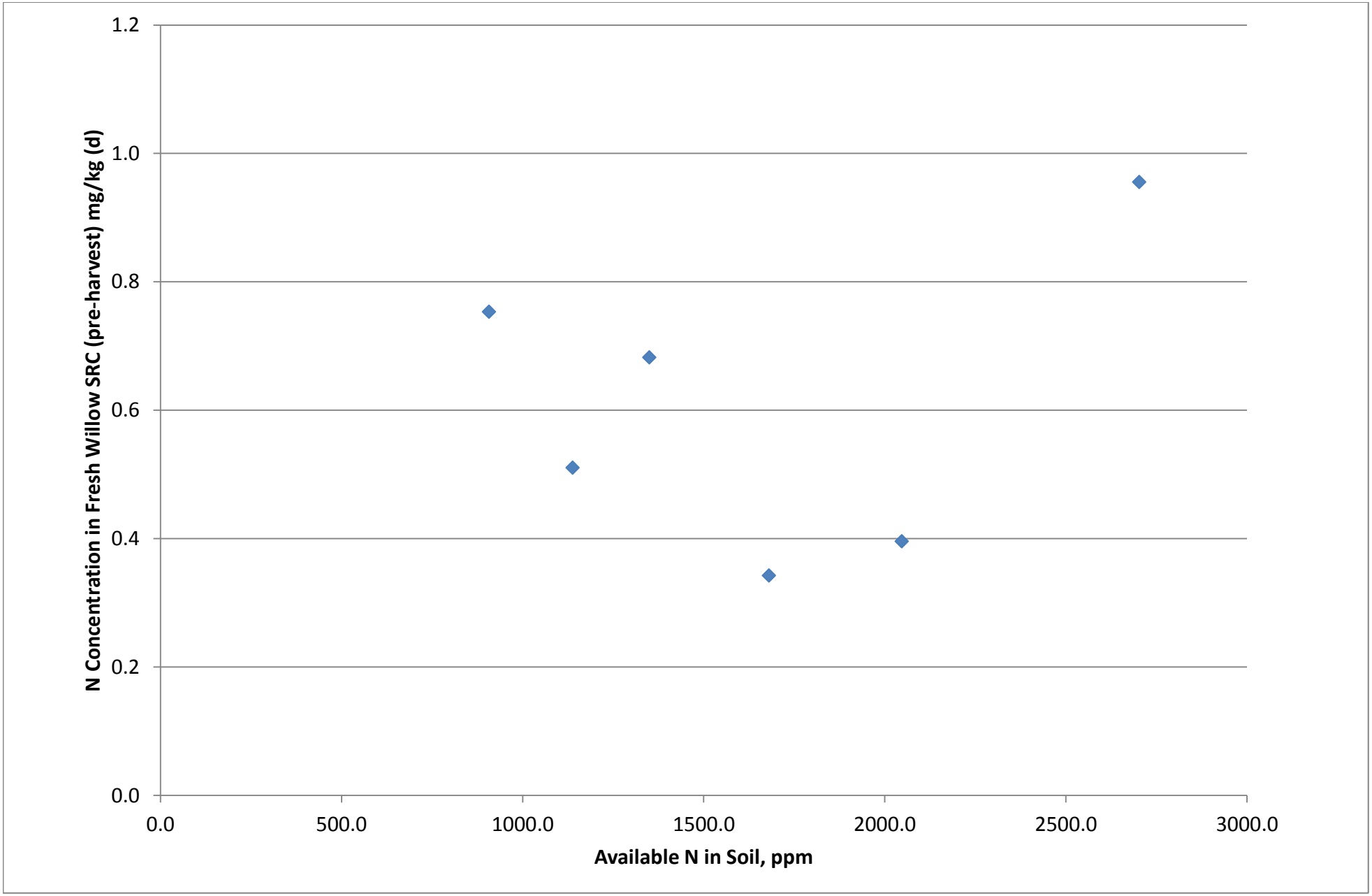

Pb Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
20.0
40.0
60.0
80.0
100.0
120.0
Available Pb in Soil, ppm

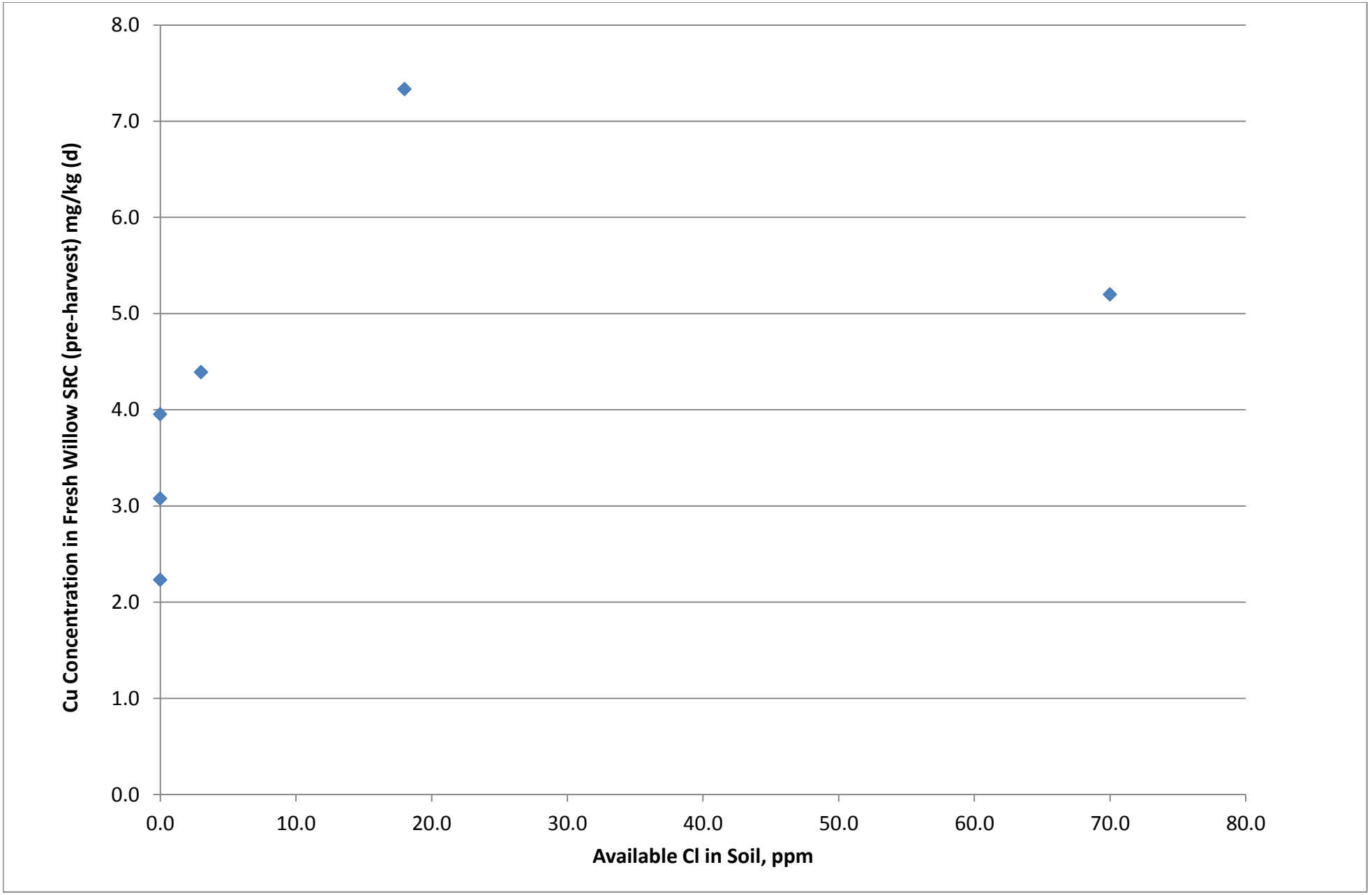

0.2
0.2
0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
TiO2 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
Silt % of Soil

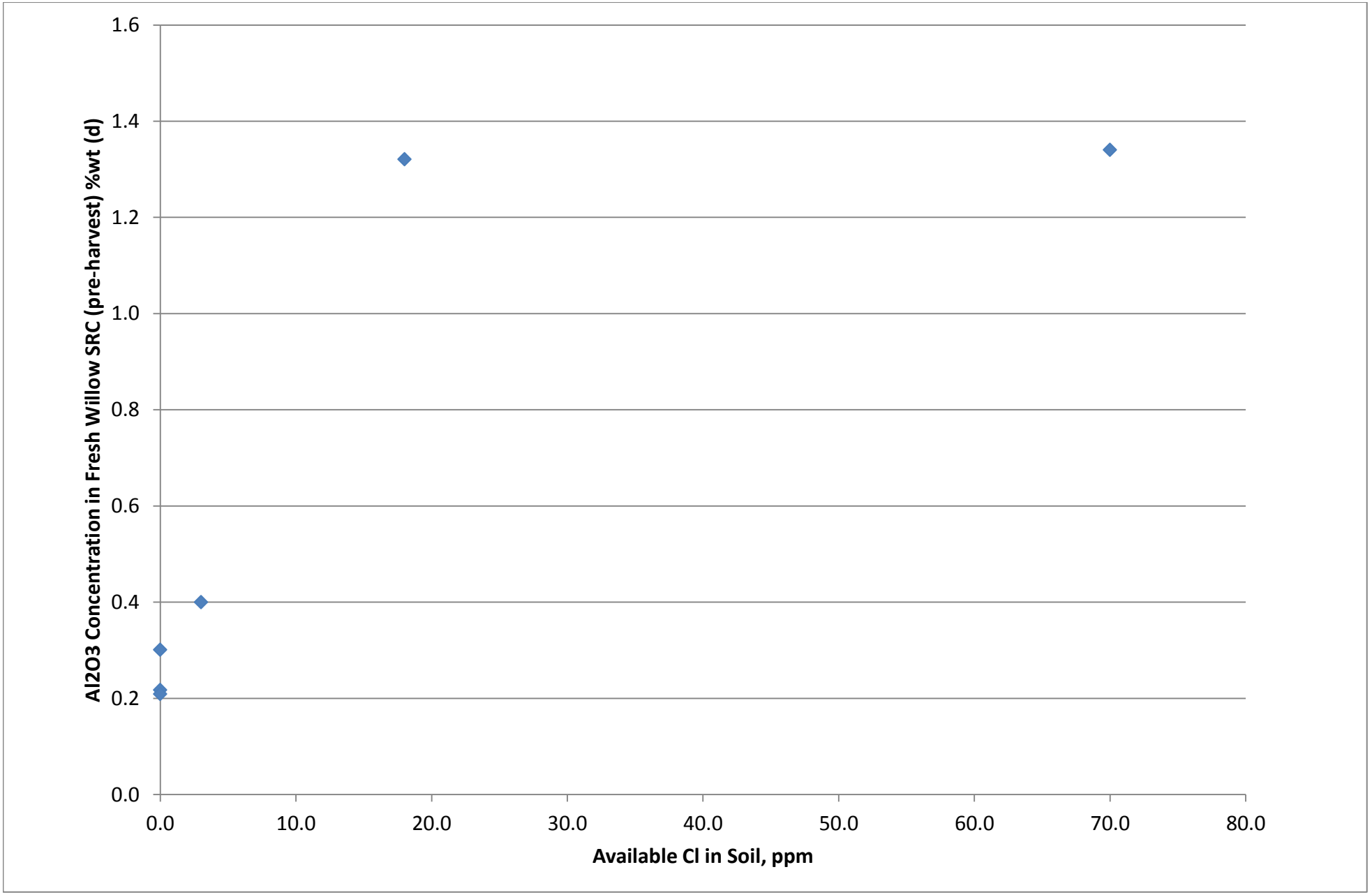

16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
P2O5 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
Silt % of Soil

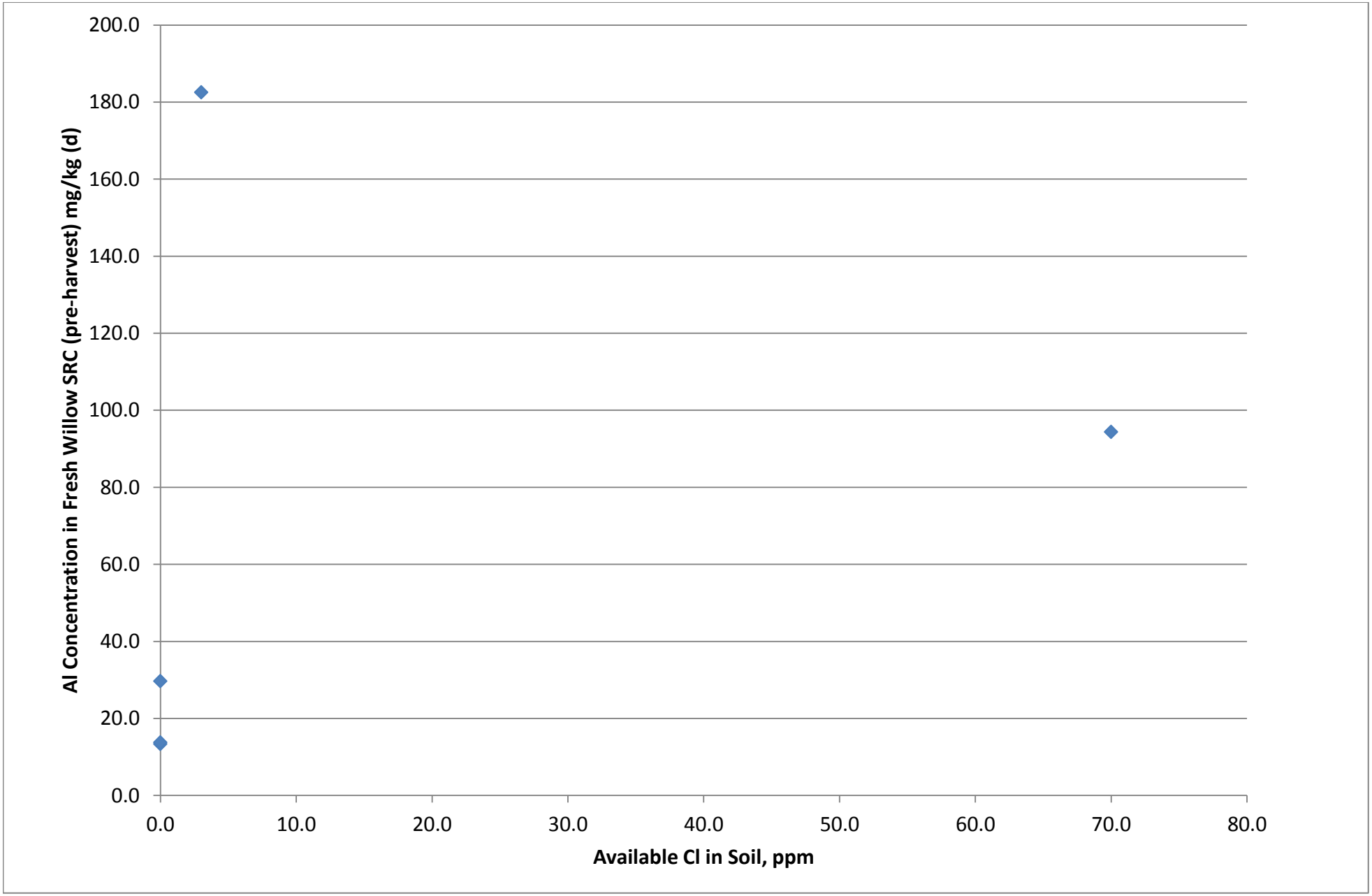

25.0
20.0
15.0
10.0
5.0
0.0
K2O Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
0.0
500.0
1000.0
1500.0
2000.0
2500.0
3000.0
Available N in Soil, ppm

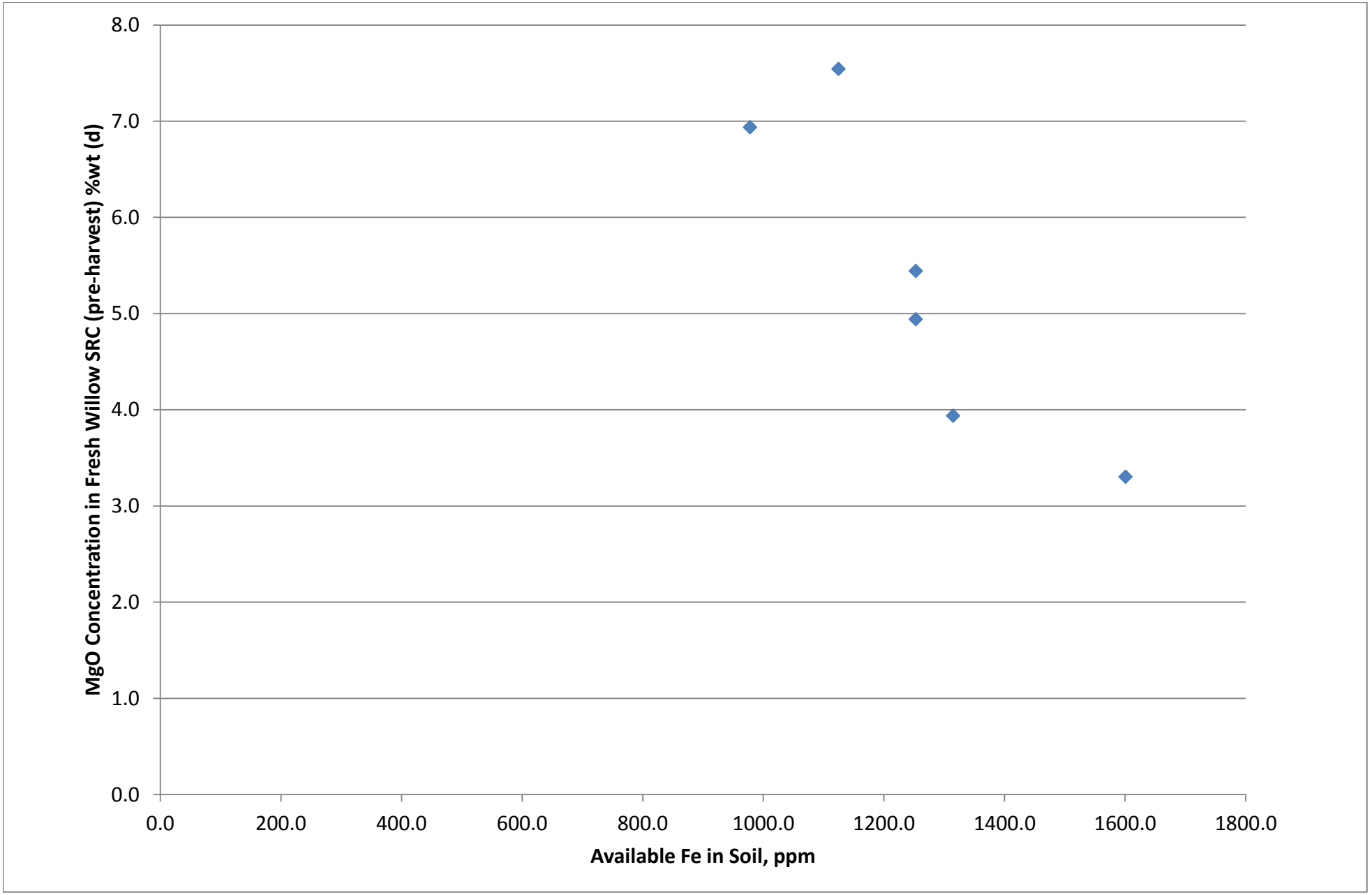

80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
CaCO3 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
0.0
500.0
1000.0
1500.0
2000.0
2500.0
3000.0
Available N in Soil, ppm

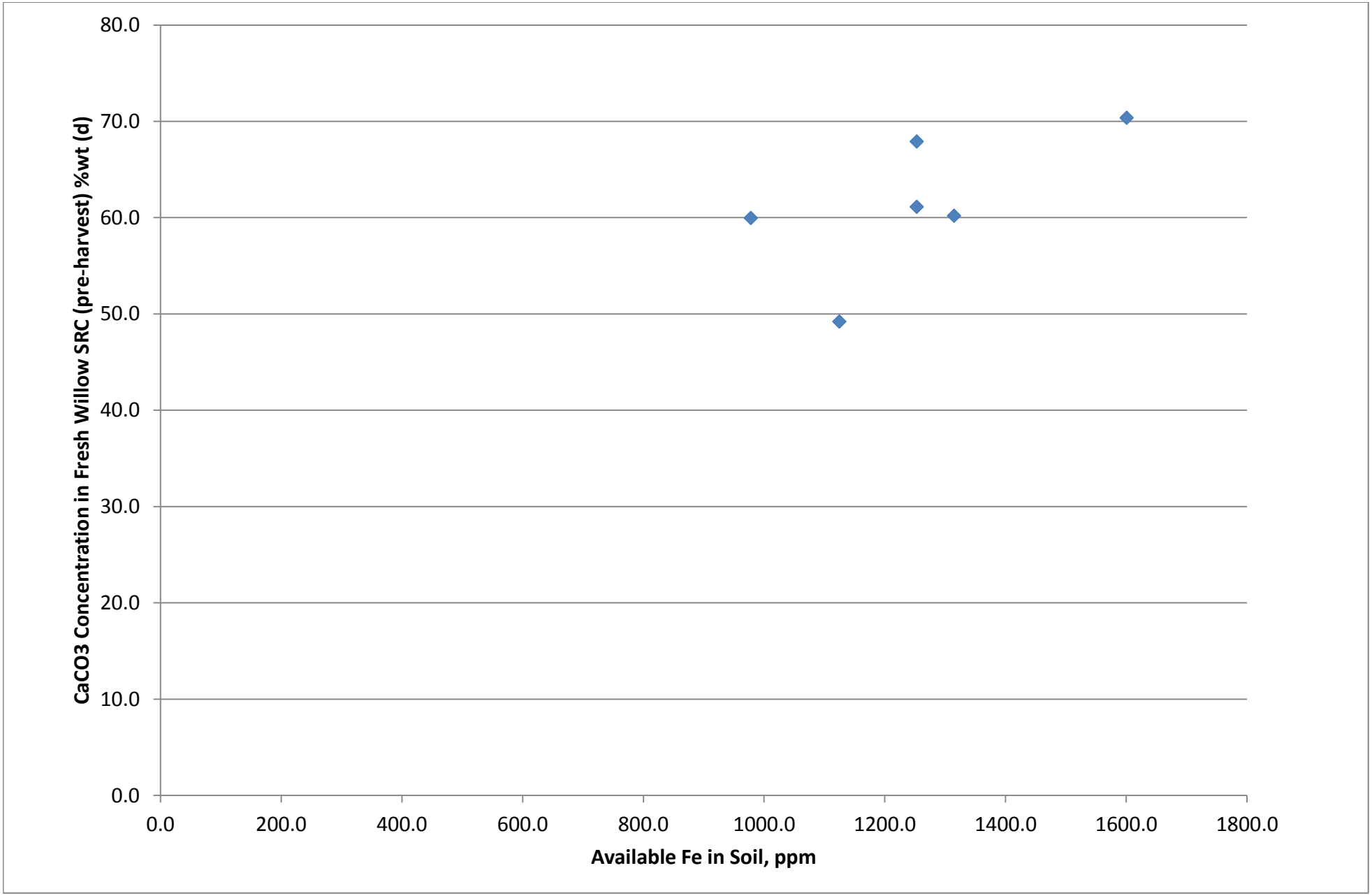

1.2
1.0
0.8
0.6
0.4
0.2
0.0
N Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
0.0
500.0
1000.0
1500.0
2000.0
2500.0
3000.0
Available N in Soil, ppm

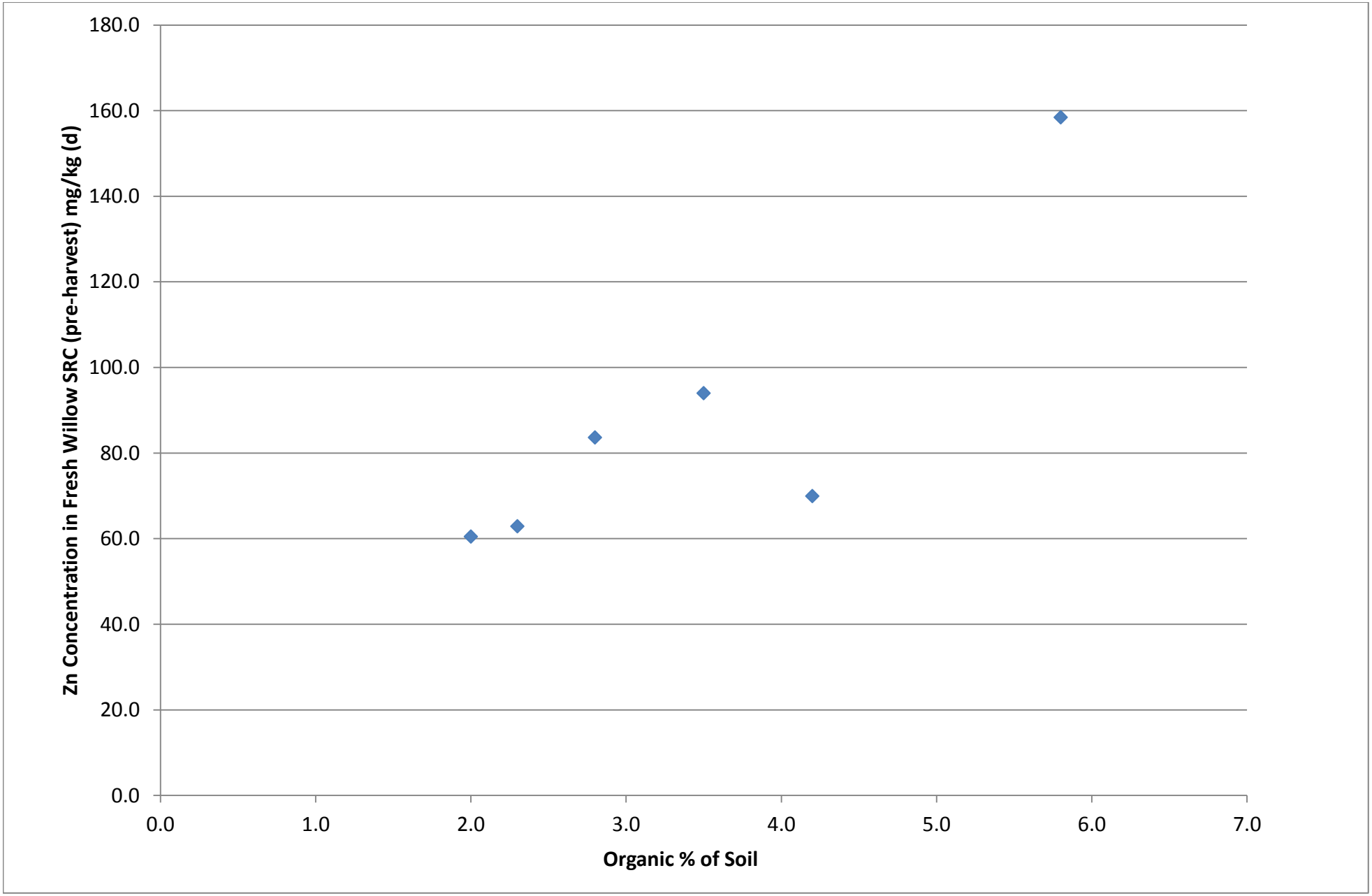

Cu Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
Available Cl in Soil, ppm

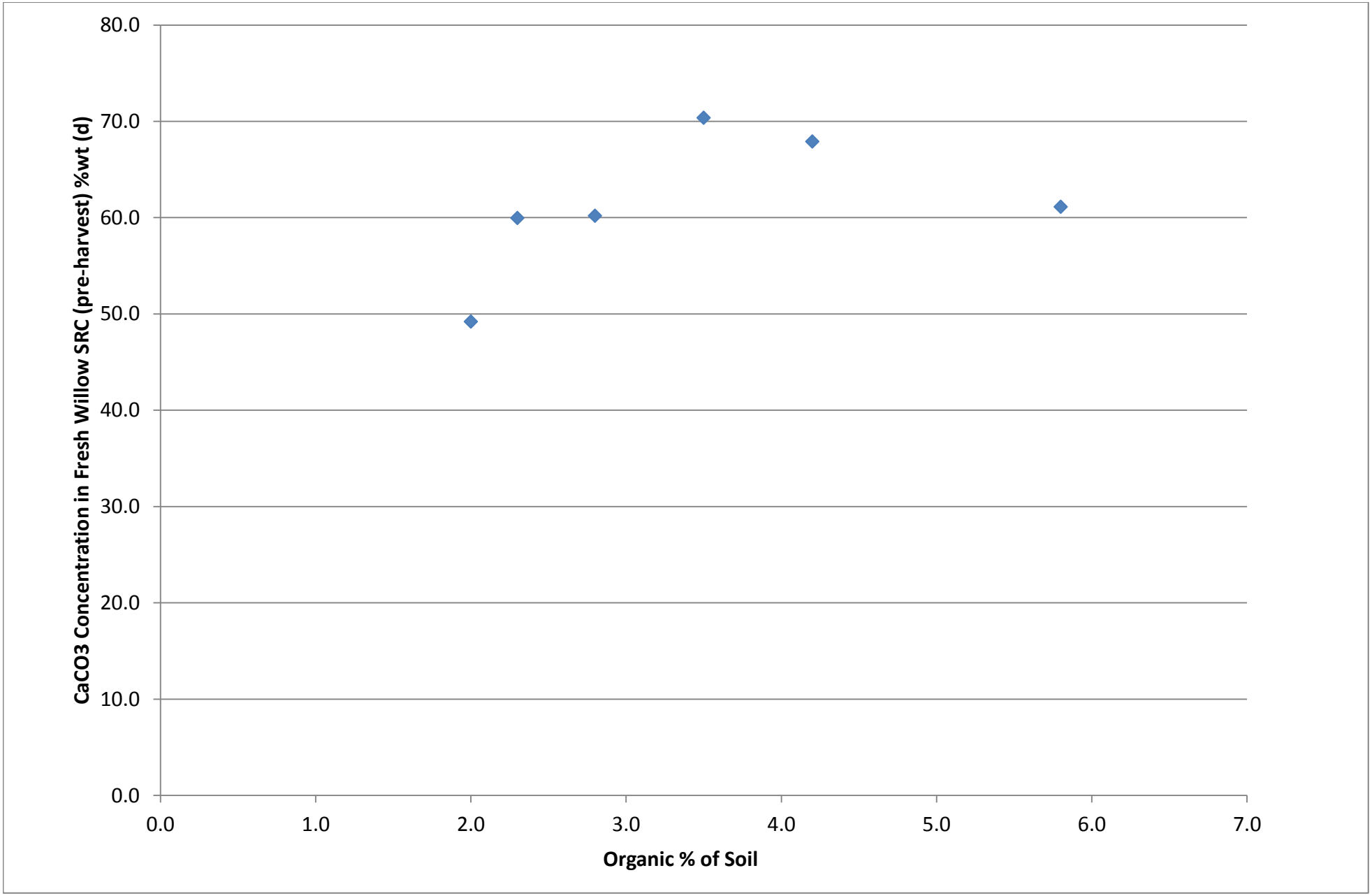

Al2O3 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
Available Cl in Soil, ppm

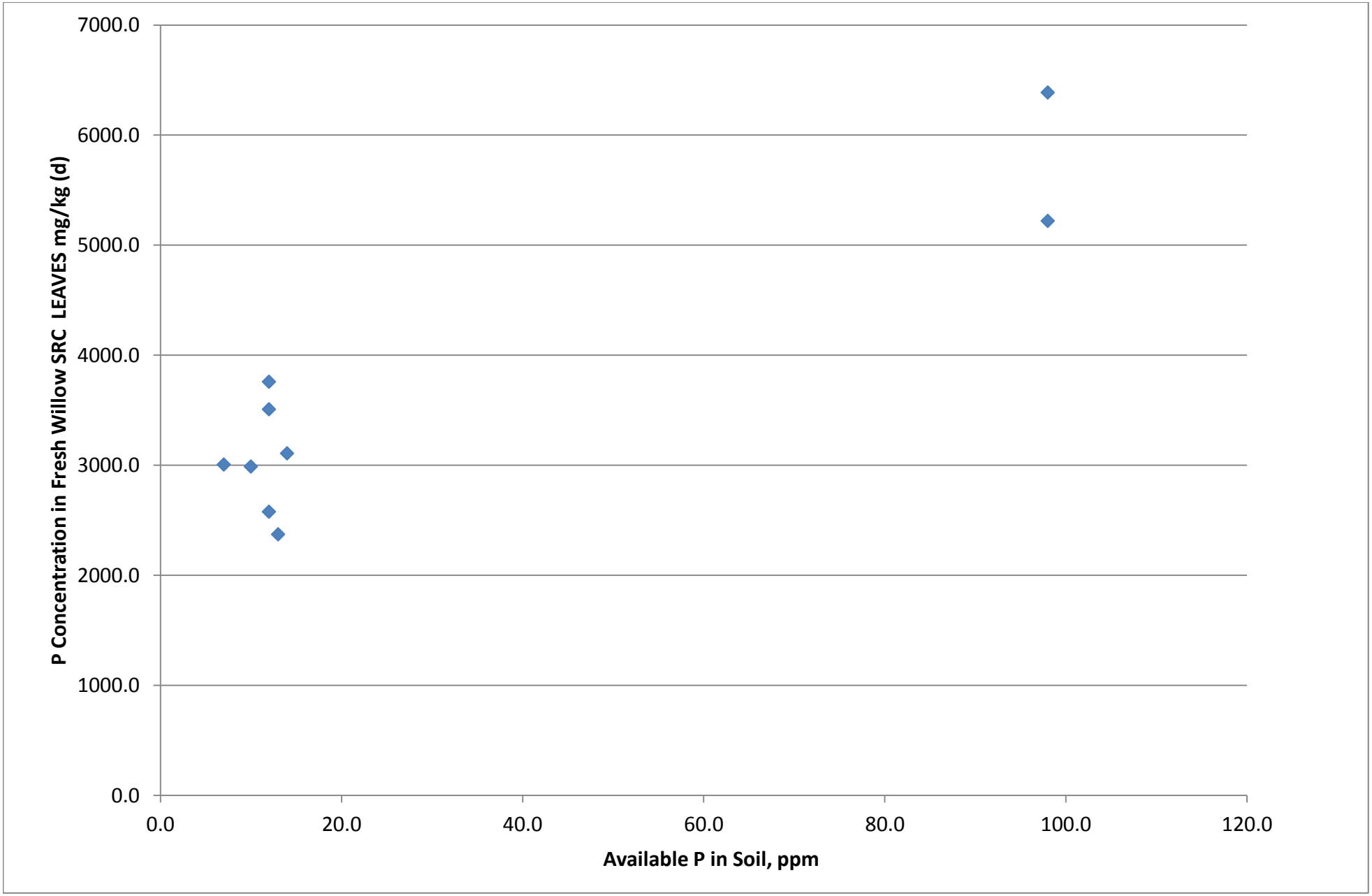

Al Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
200.0
180.0
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
Available Cl in Soil, ppm

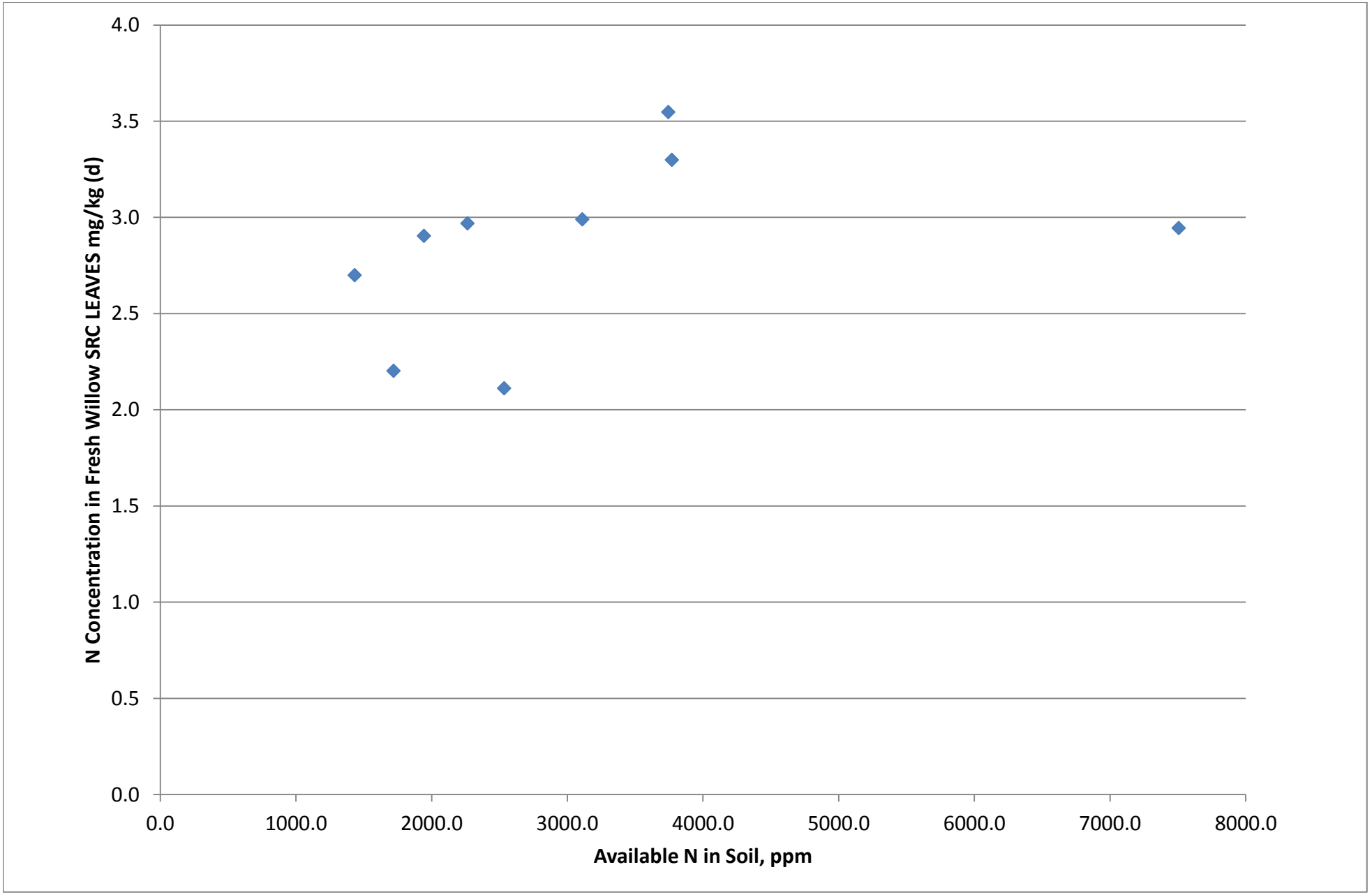

MgO Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
1400.0
1600.0
1800.0
Available Fe in Soil, ppm

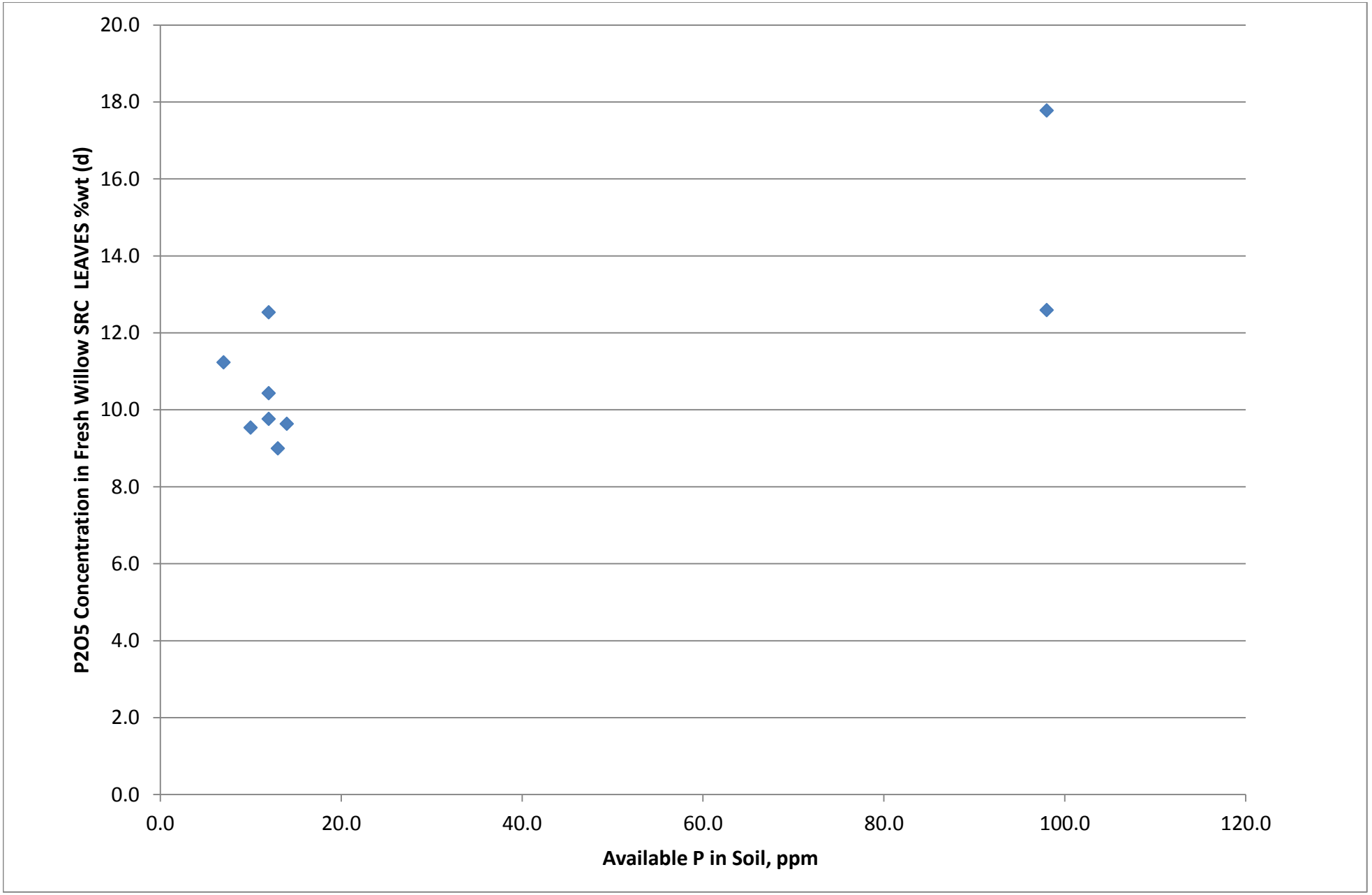

80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
CaCO3 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
1400.0
1600.0
1800.0
Available Fe in Soil, ppm

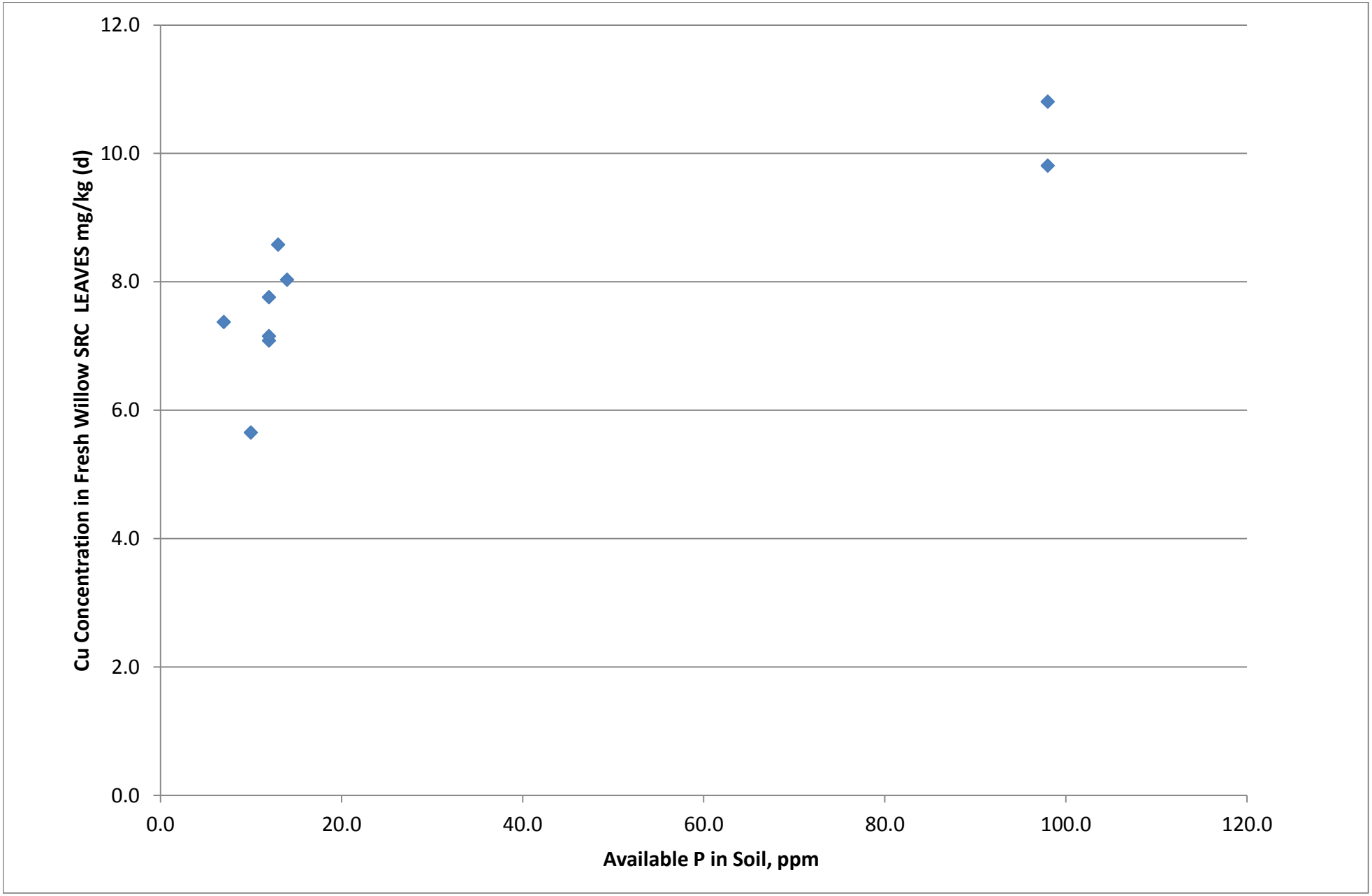

Zn Concentration in Fresh Willow SRC (pre-harvest) mg/kg (d)
180.0
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
Organic % of Soil

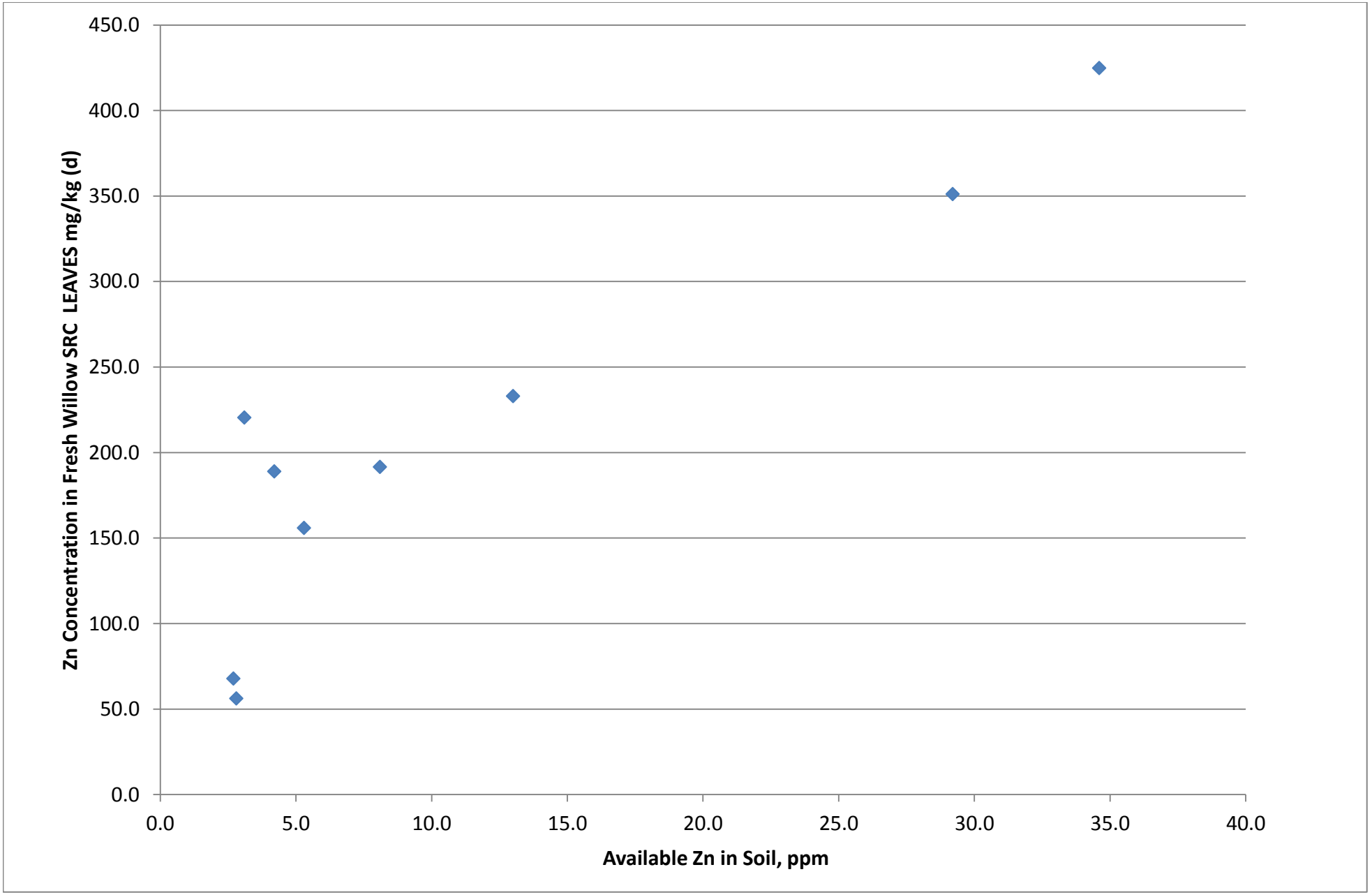

80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
CaCO3 Concentration in Fresh Willow SRC (pre-harvest) %wt (d)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
Organic % of Soil

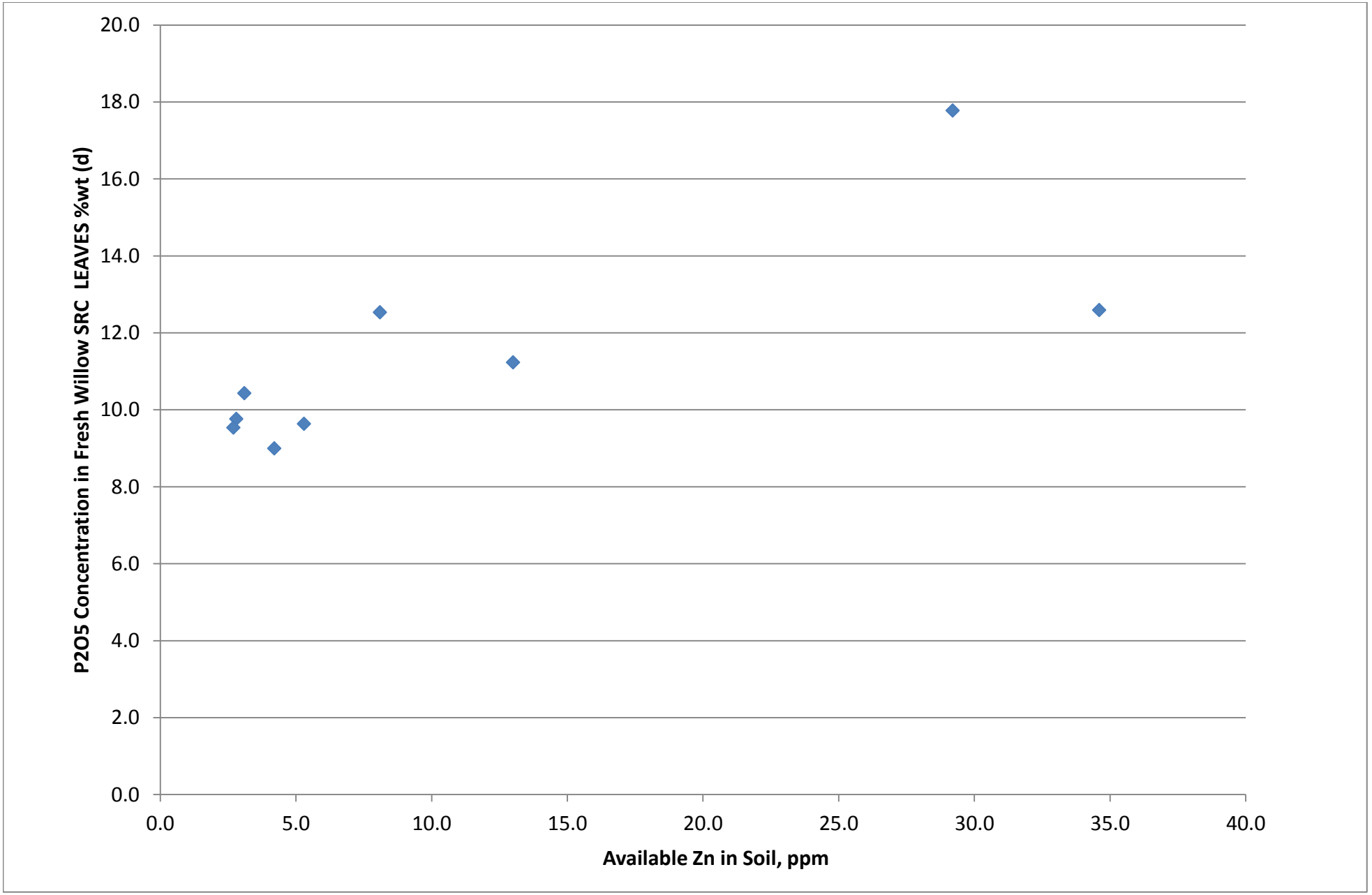

7000.0
6000.0
5000.0
4000.0
3000.0
2000.0
1000.0
0.0
P Concentration in Fresh Willow SRC LEAVES mg/kg (d)
0.0
20.0
40.0
60.0
80.0
100.0
120.0
Available P in Soil, ppm

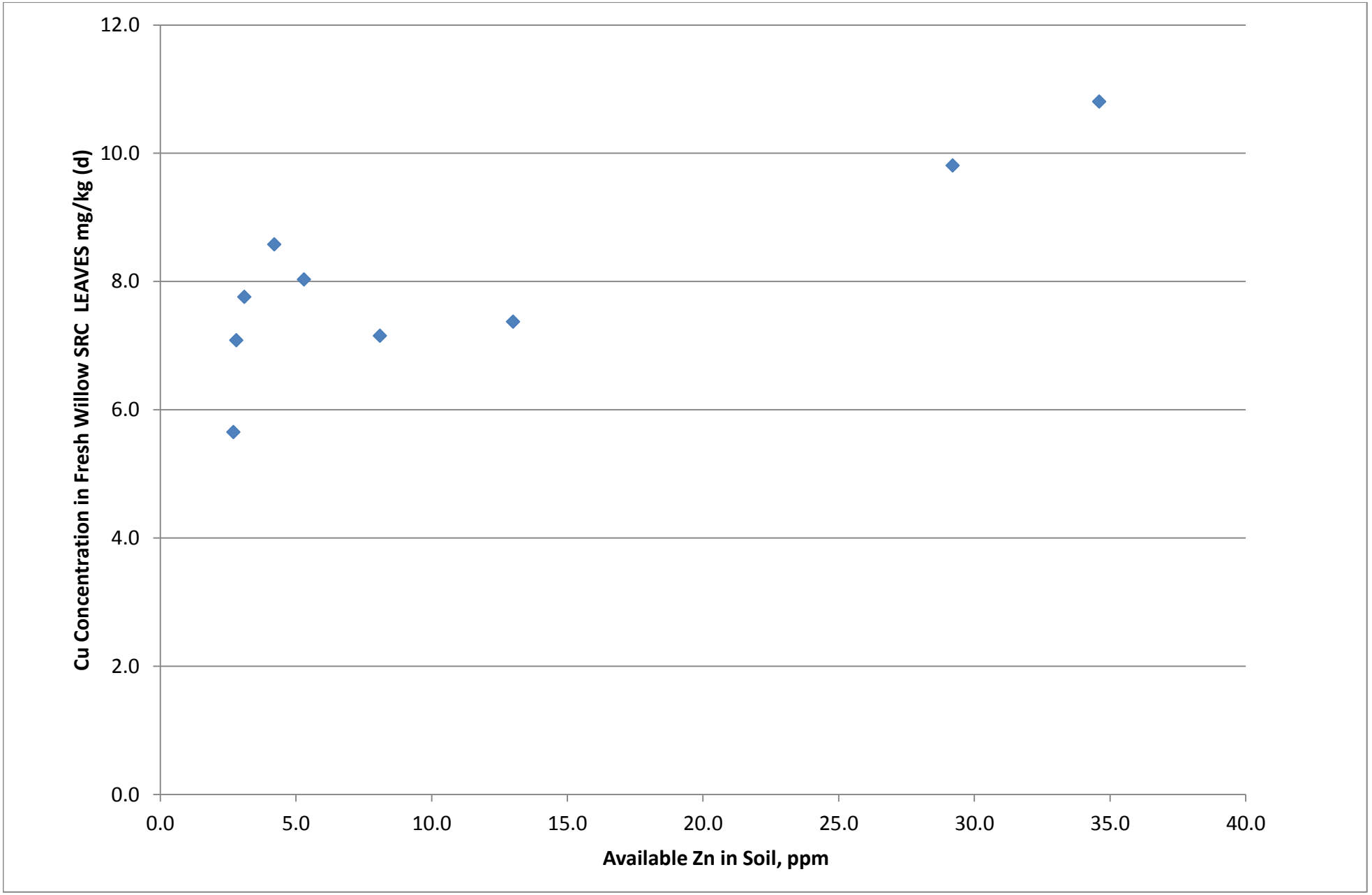

4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
N Concentration in Fresh Willow SRC LEAVES mg/kg (d)
0.0
1000.0
2000.0
3000.0
4000.0
5000.0
6000.0
7000.0
8000.0
Available N in Soil, ppm

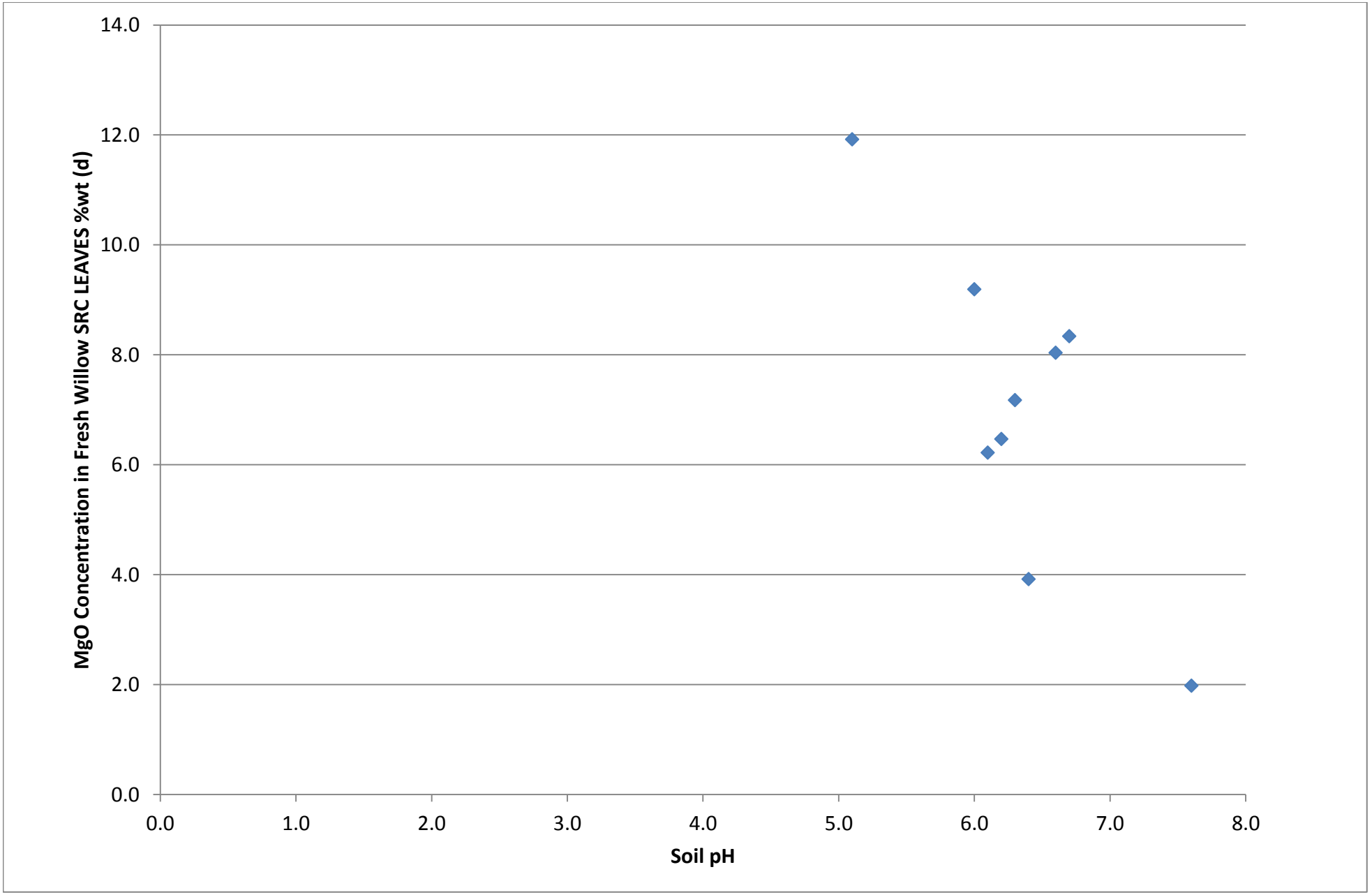

20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
P2O5 Concentration in Fresh Willow SRC LEAVES %wt (d)
0.0
20.0
40.0
60.0
80.0
100.0
120.0
Available P in Soil, ppm

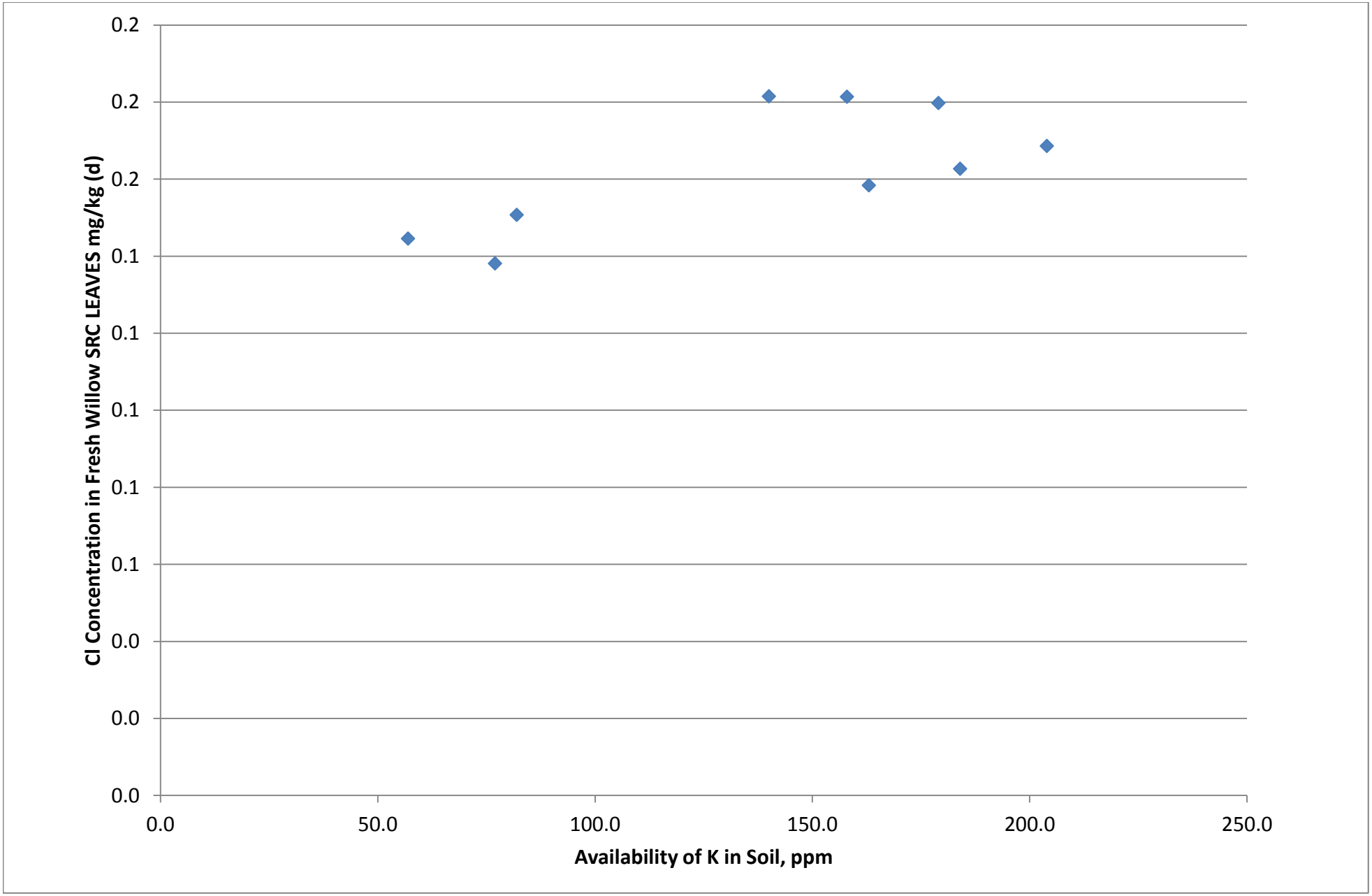

12.0
10.0
8.0
6.0
4.0
2.0
0.0
Cu Concentration in Fresh Willow SRC LEAVES mg/kg (d)
0.0
20.0
40.0
60.0
80.0
100.0
120.0
Available P in Soil, ppm

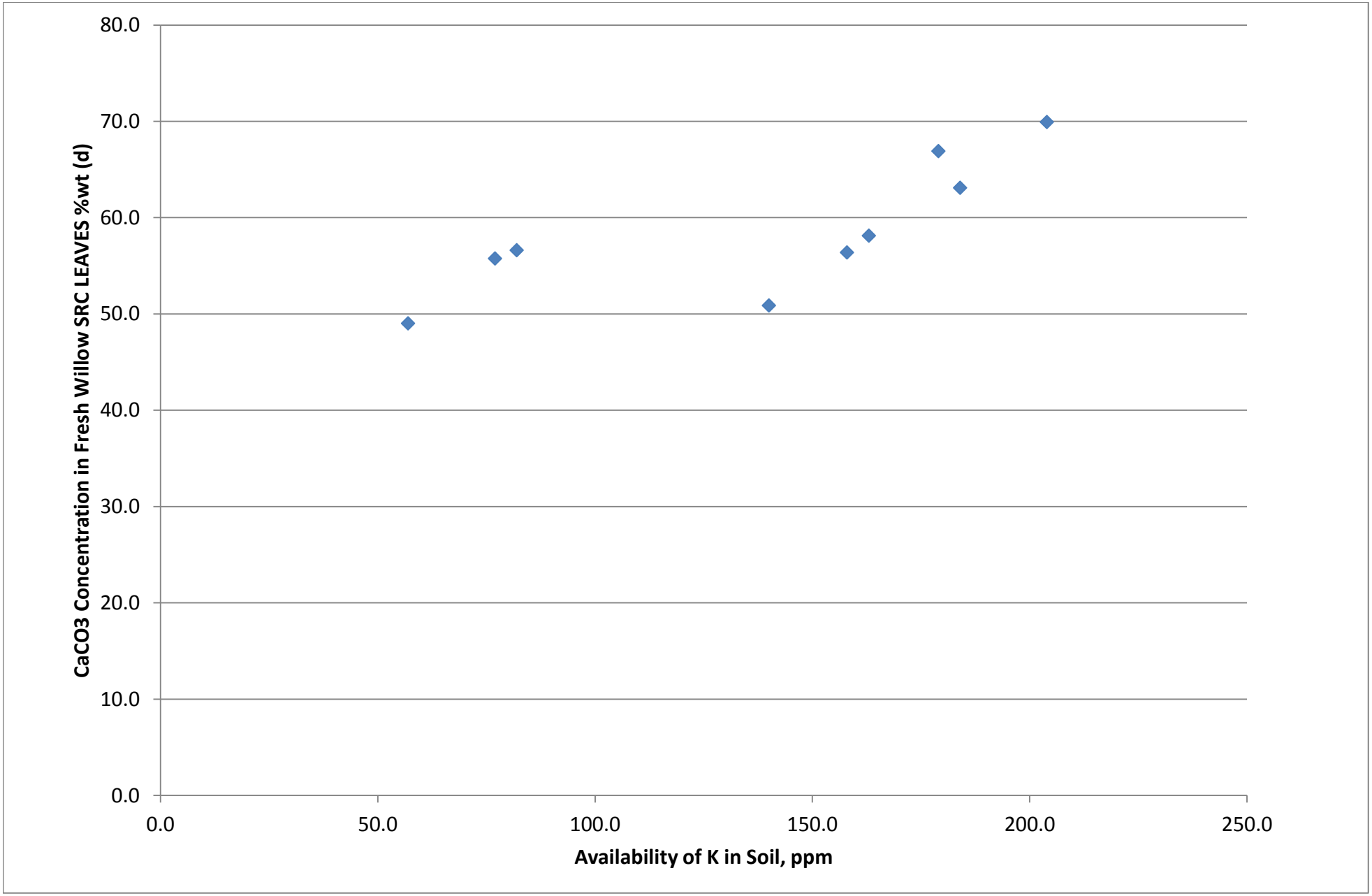

450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Zn Concentration in Fresh Willow SRC LEAVES mg/kg (d)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
Available Zn in Soil, ppm

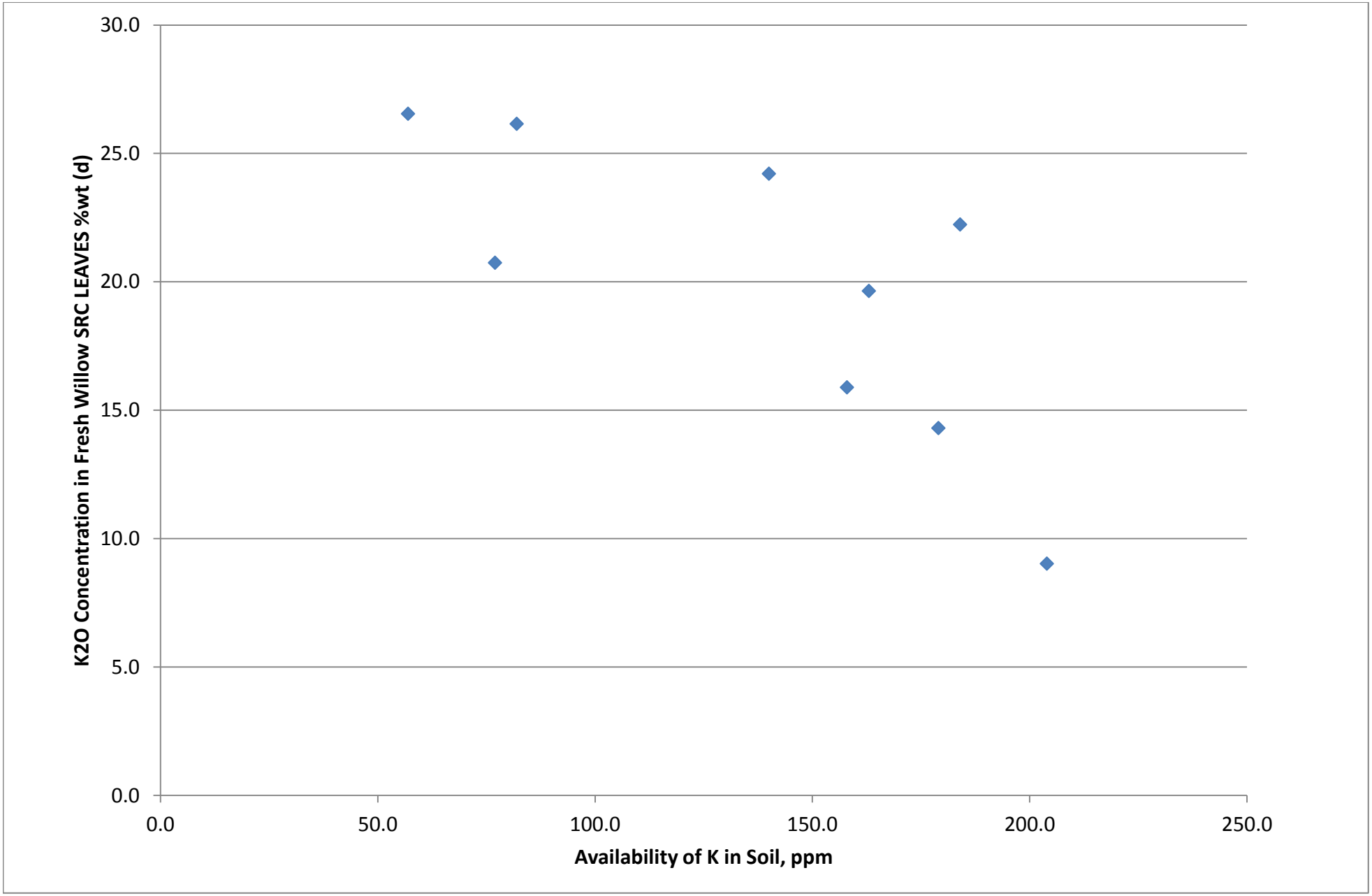

P2O5 Concentration in Fresh Willow SRC LEAVES %wt (d)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
Available Zn in Soil, ppm

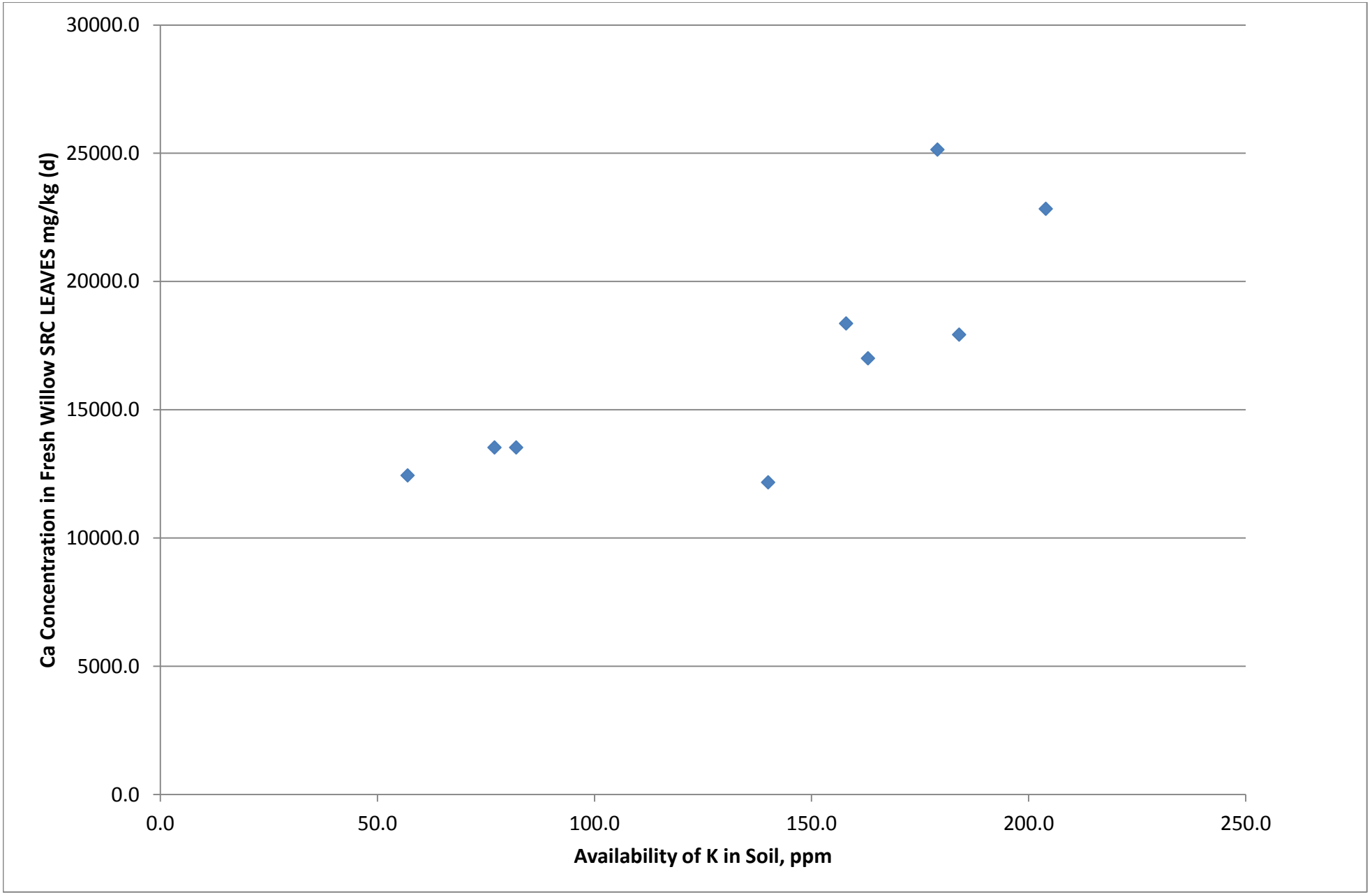

12.0
10.0
8.0
6.0
4.0
2.0
0.0
Cu Concentration in Fresh Willow SRC LEAVES mg/kg (d)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
Available Zn in Soil, ppm

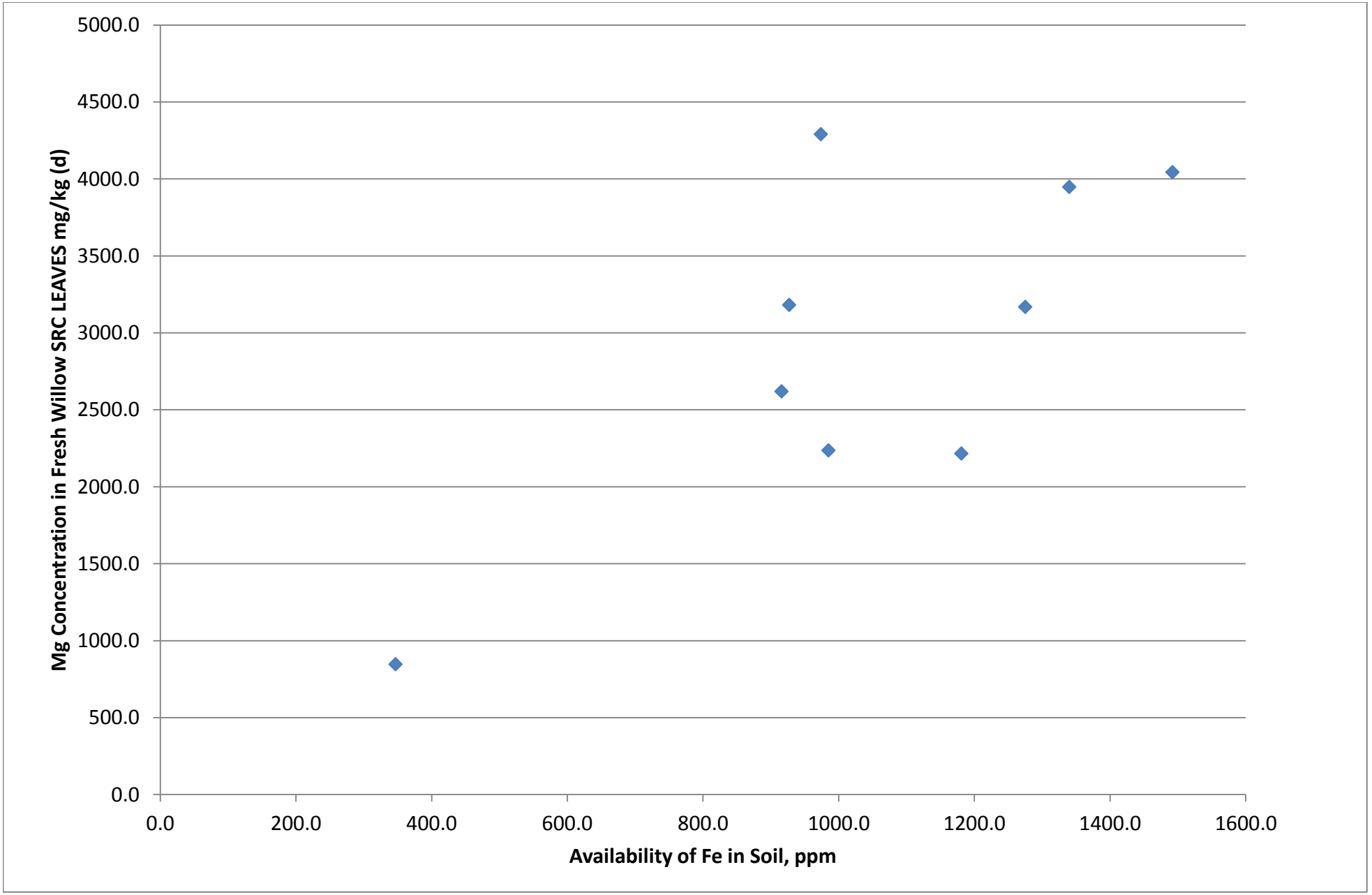

14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
MgO Concentration in Fresh Willow SRC LEAVES %wt (d)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
Soil pH

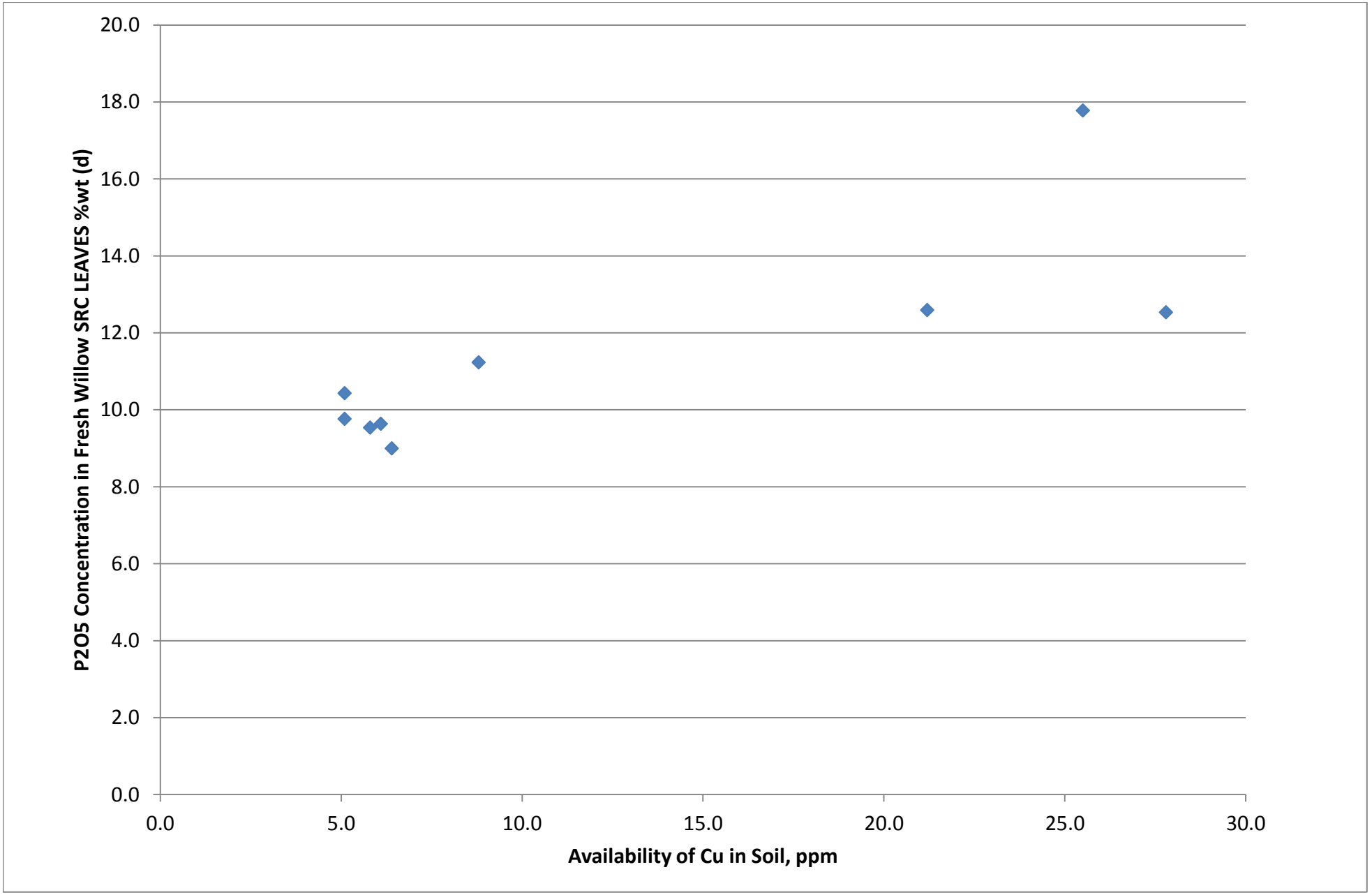

0.2
0.2
0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
Cl Concentration in Fresh Willow SRC LEAVES mg/kg (d)
0.0
50.0
100.0
150.0
200.0
250.0
Availability of K in Soil, ppm

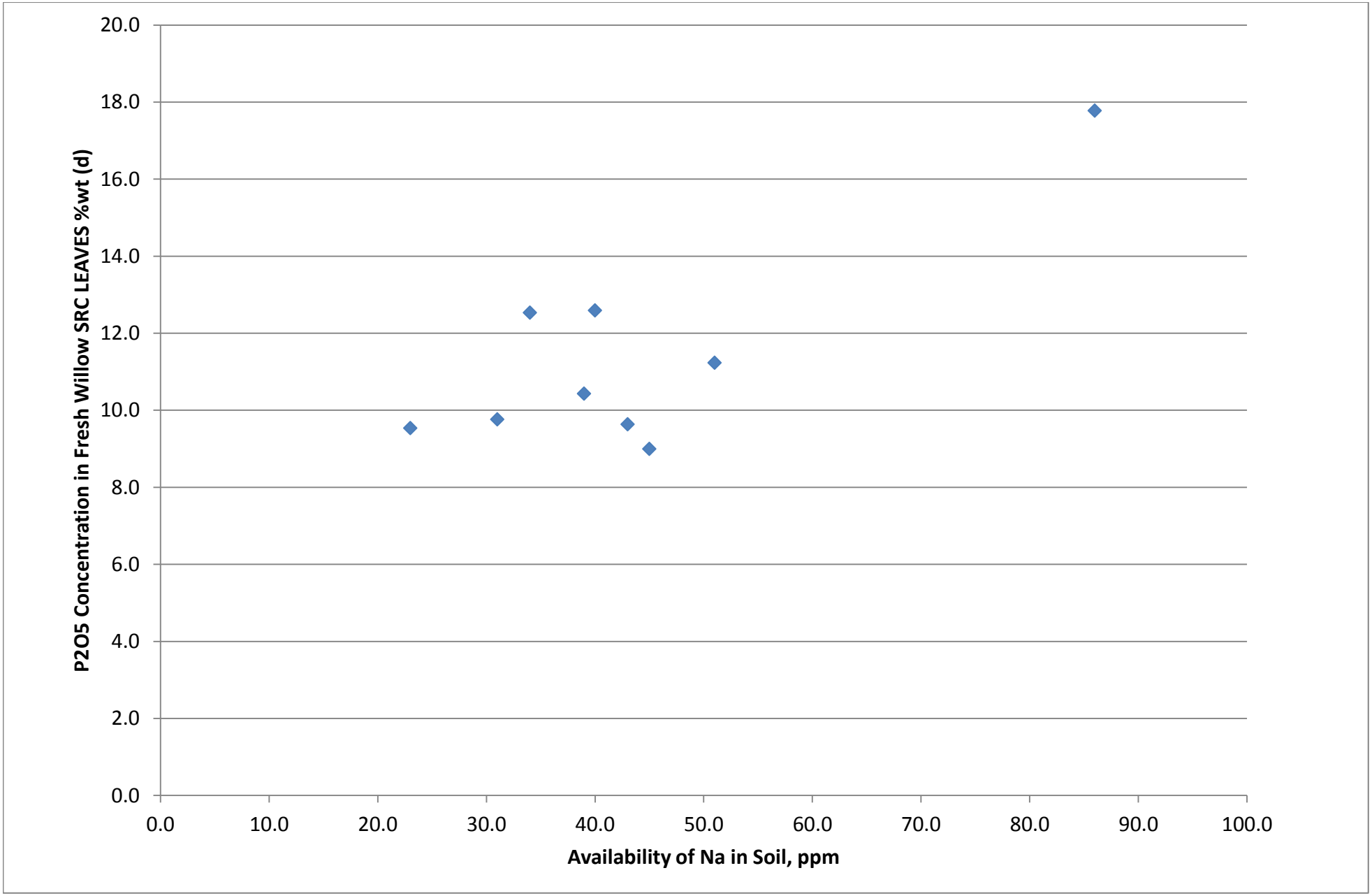

80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
CaCO3 Concentration in Fresh Willow SRC LEAVES %wt (d)
0.0
50.0
100.0
150.0
200.0
250.0
Availability of K in Soil, ppm

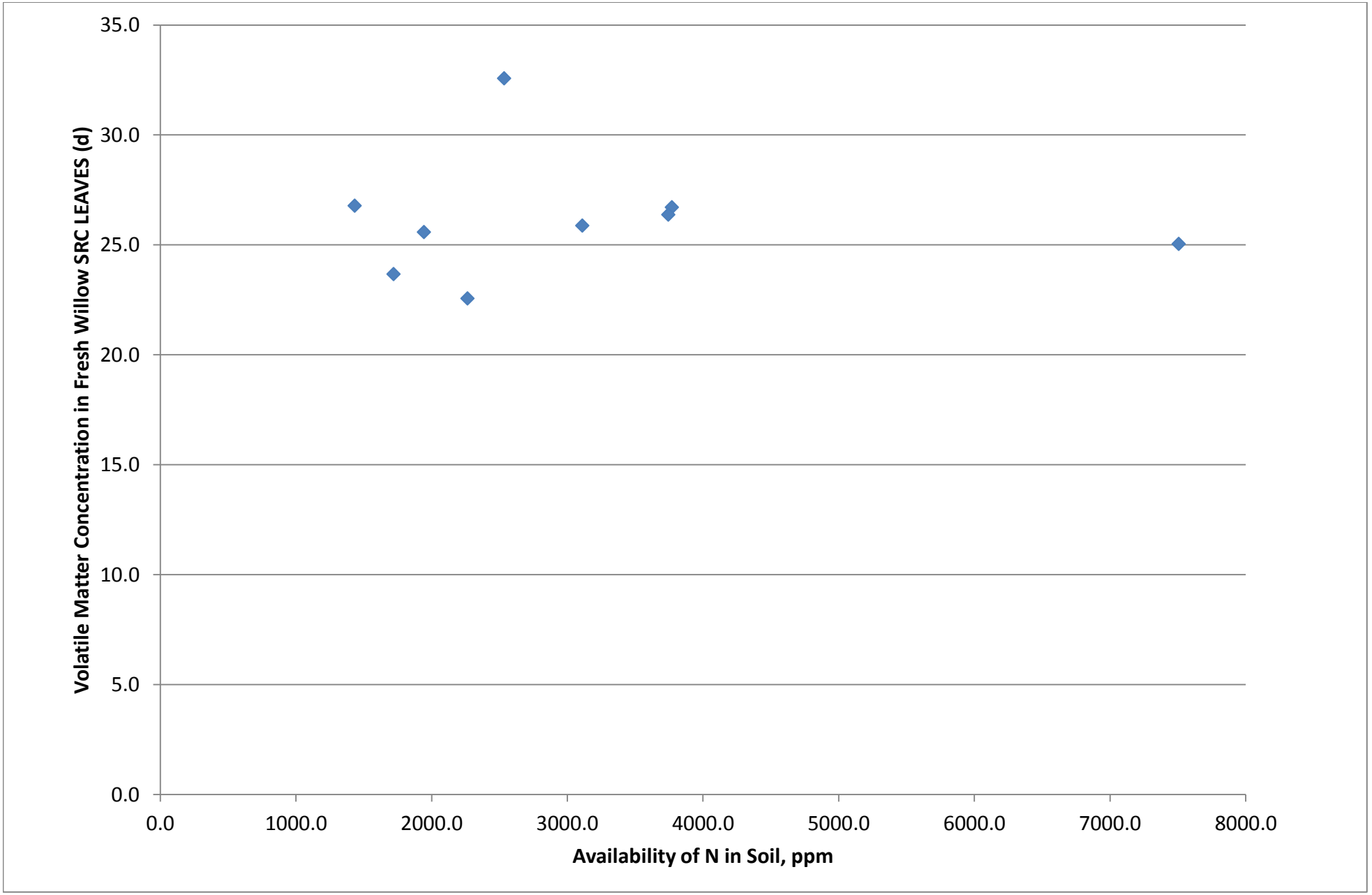

30.0
25.0
20.0
15.0
10.0
5.0
0.0
K2O Concentration in Fresh Willow SRC LEAVES %wt (d)
0.0
50.0
100.0
150.0
200.0
250.0
Availability of K in Soil, ppm

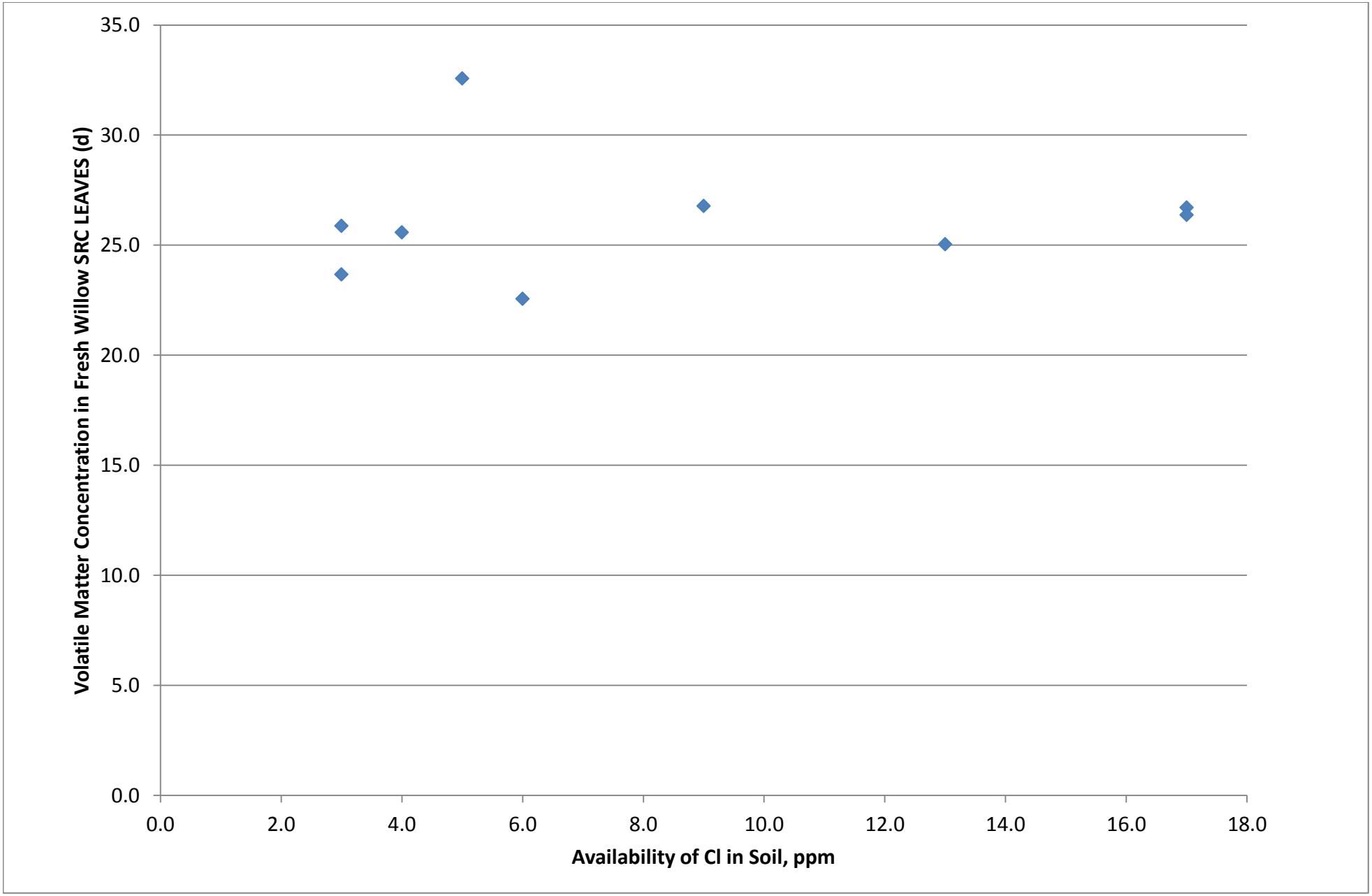

30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Ca Concentration in Fresh Willow SRC LEAVES mg/kg (d)
0.0
50.0
100.0
150.0
200.0
250.0
Availability of K in Soil, ppm

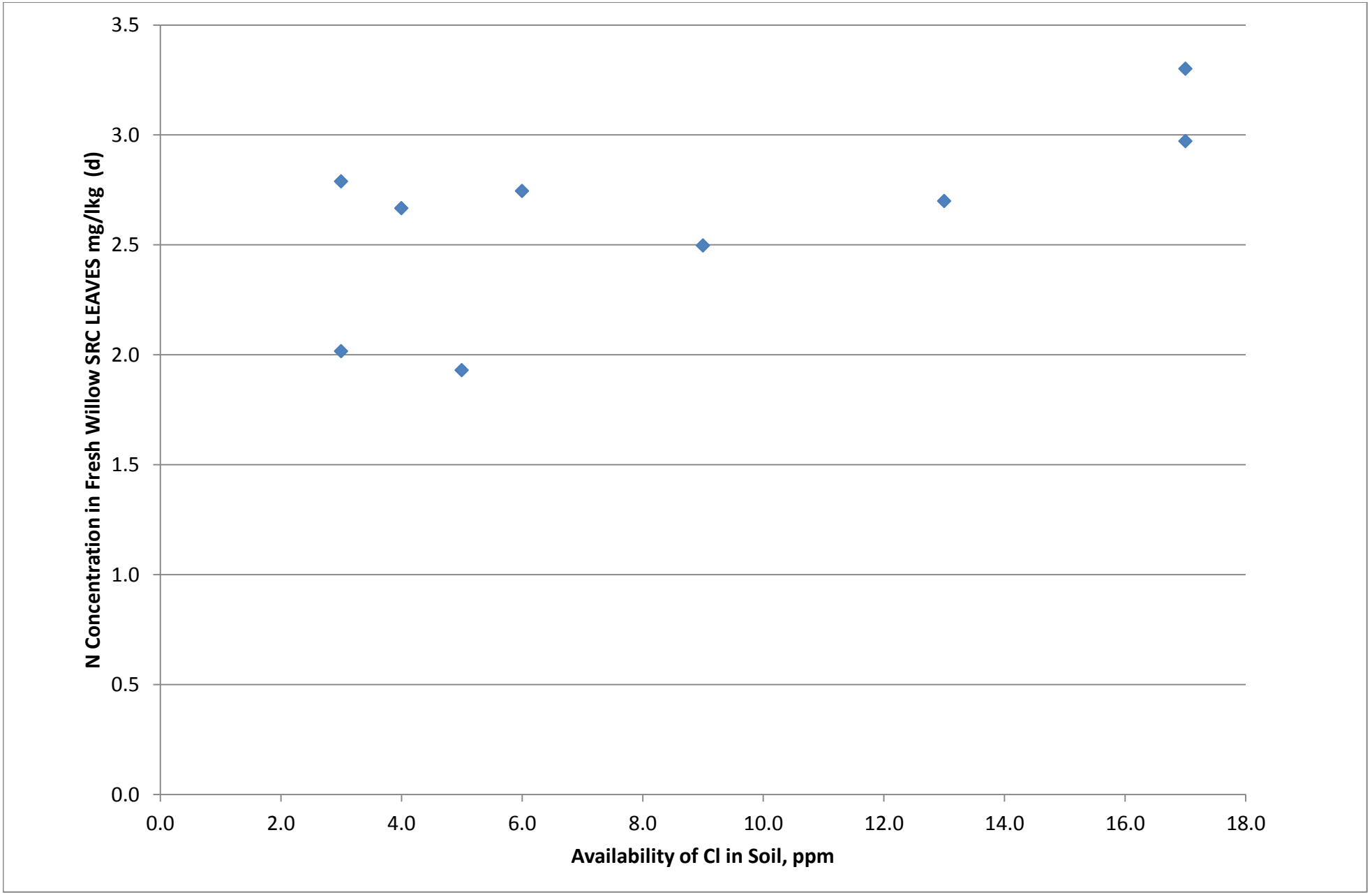

5000.0
4500.0
4000.0
3500.0
3000.0
2500.0
2000.0
1500.0
1000.0
500.0
0.0
Mg Concentration in Fresh Willow SRC LEAVES mg/kg (d)
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
1400.0
1600.0
Availability of Fe in Soil, ppm

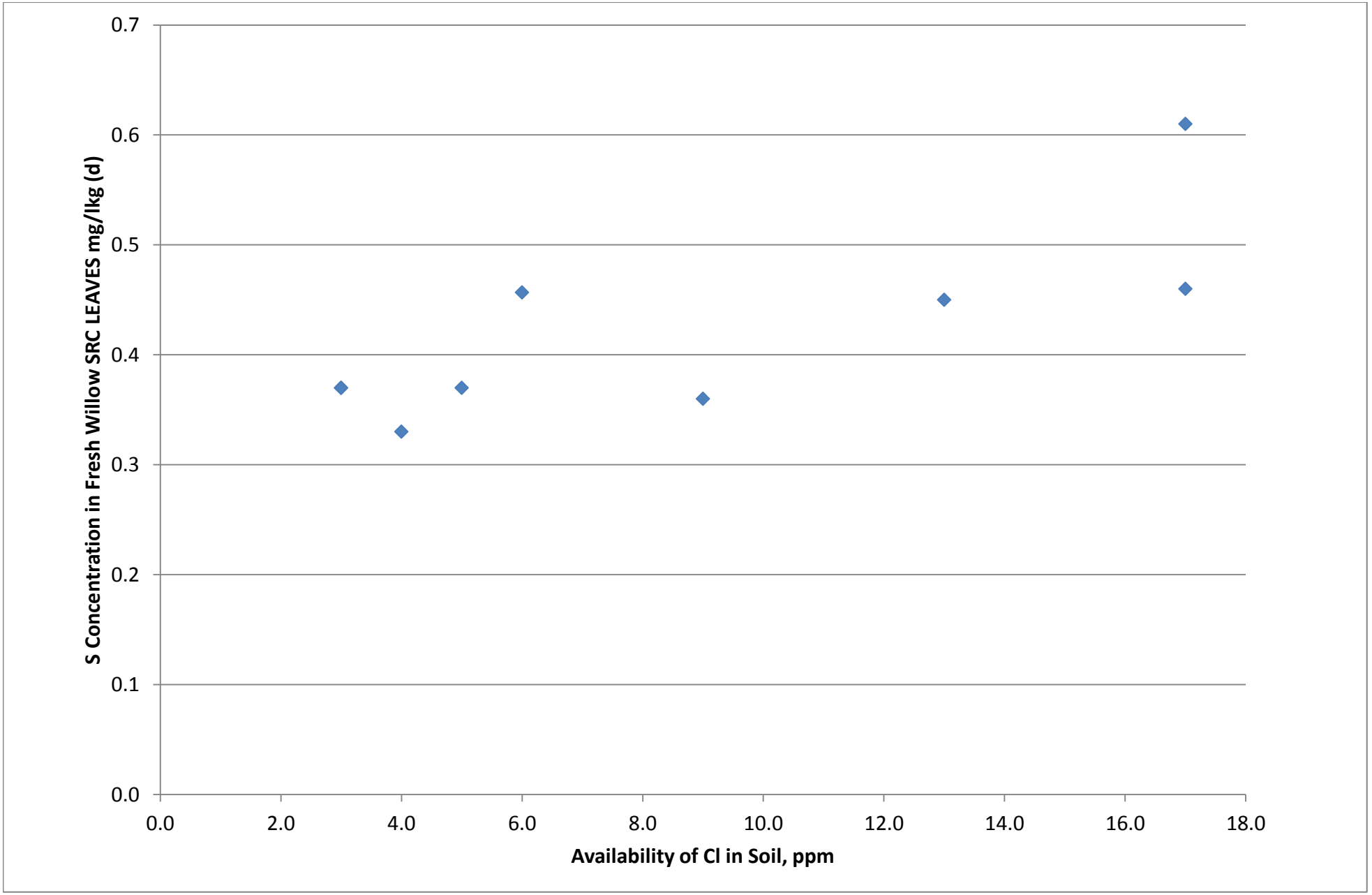

20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
P2O5 Concentration in Fresh Willow SRC LEAVES %wt (d)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
Availability of Cu in Soil, ppm

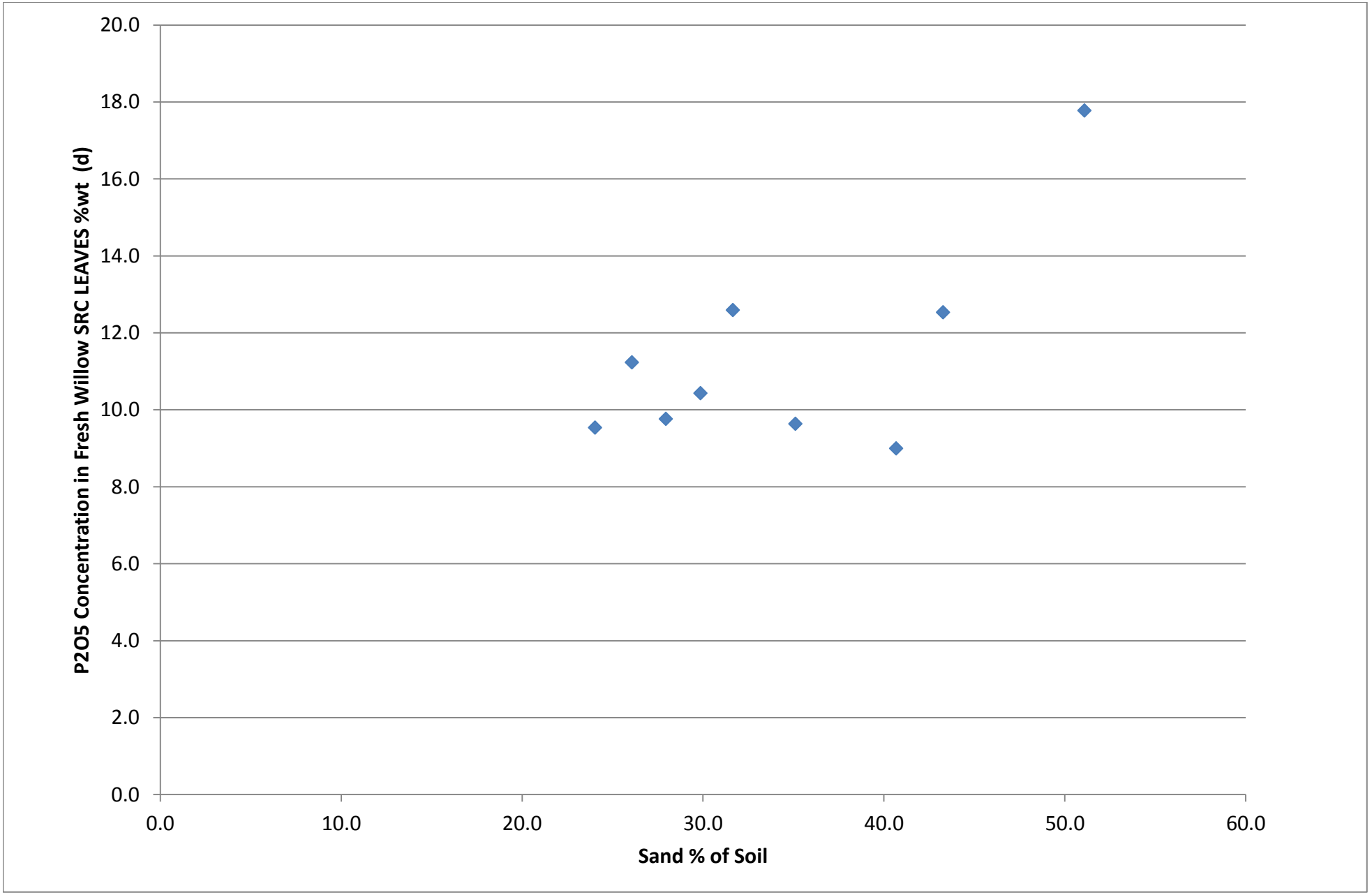

20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
P2O5 Concentration in Fresh Willow SRC LEAVES %wt (d)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Availability of Na in Soil, ppm

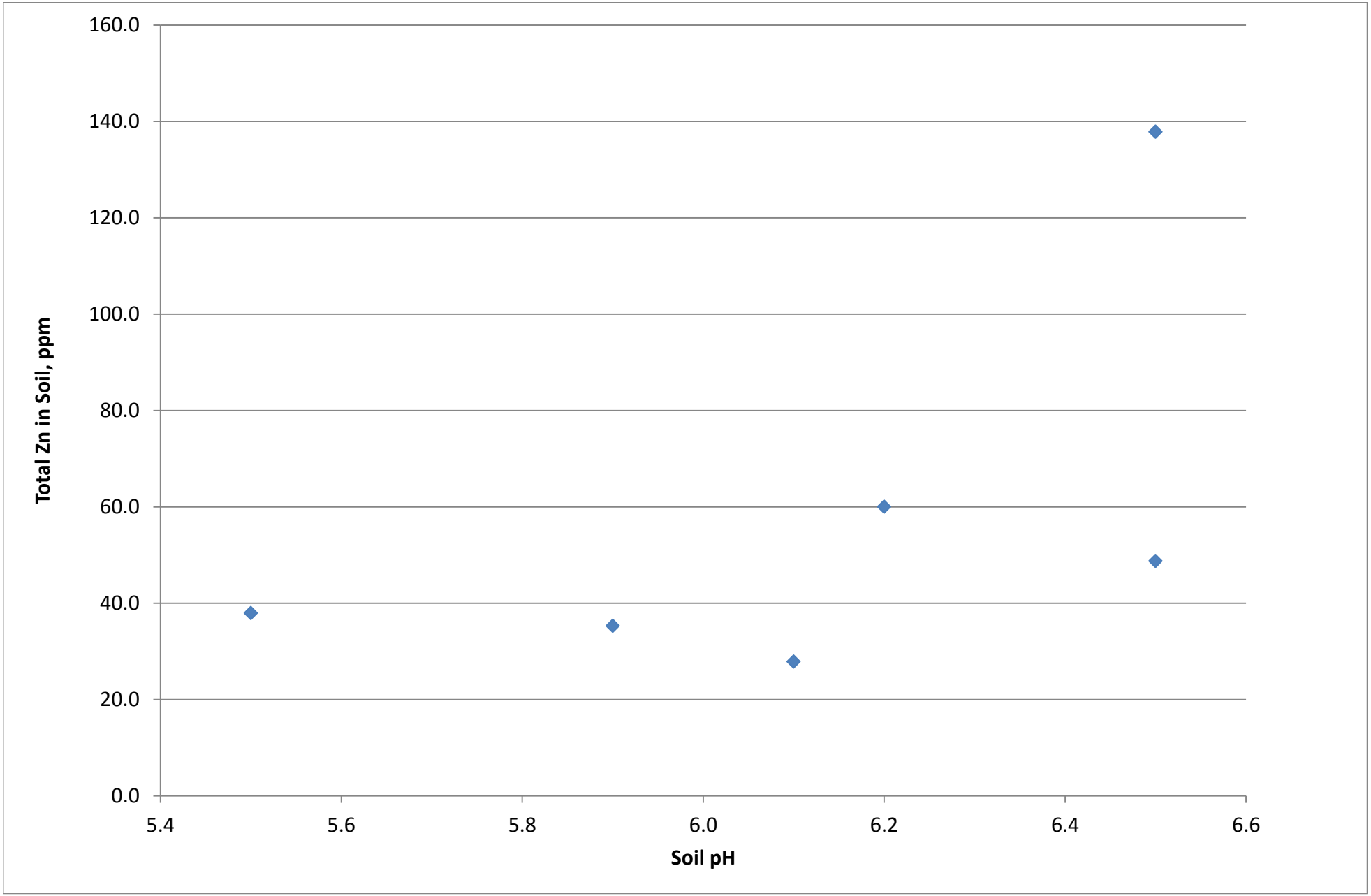

35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Volatile Matter Concentration in Fresh Willow SRC LEAVES (d)
0.0
1000.0
2000.0
3000.0
4000.0
5000.0
6000.0
7000.0
8000.0
Availability of N in Soil, ppm


35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Volatile Matter Concentration in Fresh Willow SRC LEAVES (d)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
18.0
Availability of Cl in Soil, ppm


N Concentration in Fresh Willow SRC LEAVES mg/lkg (d)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
18.0
Availability of Cl in Soil, ppm


0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
S Concentration in Fresh Willow SRC LEAVES mg/lkg (d)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
18.0
Availability of Cl in Soil, ppm


P2O5 Concentration in Fresh Willow SRC LEAVES %wt (d)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
0.0
10.0
20.0
30.0
40.0
50.0
60.0
Sand % of Soil


160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Total Zn in Soil, ppm
5.4
5.6
5.8
6.0
6.2
6.4
6.6
Soil pH