

Harvard Forest Data Archive HF089-03

Data File:

Name = hf089-03-CS-environ.csv  
Description = CS environment  
Rows = 36 Columns = 58  
MD5 checksum = ab19610d2837797c33aae1e43cdabd7d

Variables:

aspect.deg = mean aspect of plot in degrees (averaged across the 4 subplots) (degree)  
slope.deg = mean slope of plot in degrees (averaged across the 4 subplots) (degree)  
insol.may = insolation during the month of May in MJ/m<sup>2</sup>day, as calculated using a model developed by Ollinger et al. (1995). See Ollinger, S.V., J.D. Aber, C.A. Federer, G.M. Lovett, and J. Ellis. 1995. Modeling physical and chemical climatic variables across the northeastern U.S. for a Geographic Information System. USDA Forest Service General Technical Report NE-191. (megajoulePerMeterSquaredPerDay)  
c.n = mean soil carbon to nitrogen ratio; Fisons C:N analyzer, Harvard Forest (dimensionless)  
n = mean soil nitrogen percent; Fisons C:N analyzer, Harvard Forest (dimensionless)  
c = mean soil carbon percent; Fisons C:N analyzer, Harvard Forest (number)  
tsi = average terrain shape index value; calculated based upon measurements of slope in eight directions (N, NE, E, SE, S, SW, W, NW). Positive values indicate concave topography within plot, negative values indicate convex topography within plot. See: McNab, W.H. 1989. Terrain Shape Index: quantifying effect of minor landforms on tree height. Forest Science, 35, 91-104. (number)  
oicm = average depth of Oi in organic layer (centimeter)  
oecm = average depth of Oe in organic layer (centimeter)  
oacm = average depth of Oa in organic layer (centimeter)  
ototal = average total depth of O layer in cm (centimeter)  
acm = average depth of A horizon in cm (centimeter)  
bulk.density = mean bulk density of soil (g/cm<sup>3</sup>) collected in plot (averaged across the 4 subplots) (gramsPerCubicCentimeter)  
cut.ba = approximate estimate of basal area removed from plot by past logging, based on estimates of cut stump basal area present within plot (number)  
bedrock.per = estimated percent cover of bedrock in plot (dimensionless)  
rock.per = estimated percent cover of rocks and boulders in plot, not appearing to be physically connected to underlying bedrock (dimensionless)  
cwd.per = estimated percent cover of coarse woody debris (CWD - fallen trees and branches) in plot (dimensionless)  
tec = total exchange capacity of Soil - Brookside Laboratories, New Knoxville, OH (number)

ph = soil pH - Brookside Laboratories, New Knoxville, OH (number)  
h = concentration of hydrogen ions in the soil, from pH value  
(number)  
smp.buffer = SMP Buffer pH of Soil - Brookside Laboratories, New  
Knoxville, OH (number)  
om.per = percent soil organic matter - Brookside Laboratories, New  
Knoxville, OH (dimensionless)  
enr = estimated nitrogen release of soil (lb/A) - Brookside  
Laboratories, New Knoxville, OH (number)  
sol.sulf = soluble sulfur in soil - Brookside Laboratories, New  
Knoxville, OH (number)  
ee = easily extractable phosphorous (lb/A) - Brookside Laboratories,  
New Knoxville, OH (number)  
ee.ppm = easily extractable phosphorous (ppm) - Brookside  
Laboratories, New Knoxville, OH (number)  
ca = soil calcium content (lb/A) - Brookside Laboratories, New  
Knoxville, OH (number)  
ca.ppm = soil calcium content (ppm) - Brookside Laboratories, New  
Knoxville, OH (number)  
mg = soil magnesium content (lb/A) - Brookside Laboratories, New  
Knoxville, OH (number)  
mg.ppm = soil magnesium content (ppm) - Brookside Laboratories, New  
Knoxville, OH (number)  
k = soil potassium content (lb/A) - Brookside Laboratories, New  
Knoxville, OH (number)  
k.ppm = soil potassium content (ppm) - Brookside Laboratories, New  
Knoxville, OH (number)  
na = soil sodium content (lb/A) - Brookside Laboratories, New  
Knoxville, OH (number)  
na.ppm = soil sodium content (ppm) - Brookside Laboratories, New  
Knoxville, OH (number)  
ca.per = base saturation percent of calcium - Brookside  
Laboratories, New Knoxville, OH (number)  
mg.per = base saturation percent of magnesium - Brookside  
Laboratories, New Knoxville, OH (number)  
k.per = base saturation percent of potassium - Brookside  
Laboratories, New Knoxville, OH (number)  
na.per = base saturation percent of sodium - Brookside Laboratories,  
New Knoxville, OH (number)  
h.per = base saturation percent of hydrogen - Brookside  
Laboratories, New Knoxville, OH (number)  
b.ppm = boron ppm in soil - Brookside Laboratories, New Knoxville,  
OH (number)  
fe.ppm = iron ppm in soil - Brookside Laboratories, New Knoxville,  
OH (number)  
mn.ppm = manganese ppm in soil - Brookside Laboratories, New  
Knoxville, OH (number)  
cu.ppm = copper ppm in soil - Brookside Laboratories, New Knoxville,  
OH (number)  
zn.ppm = zinc ppm in soil - Brookside Laboratories, New Knoxville,  
OH (number)

al.ppm = aluminum ppm in soil - Brookside Laboratories, New  
Knoxville, OH (number)

clay = percent soil sand content - Brookside Laboratories, Ne  
Knoxville, OH (dimensionless)

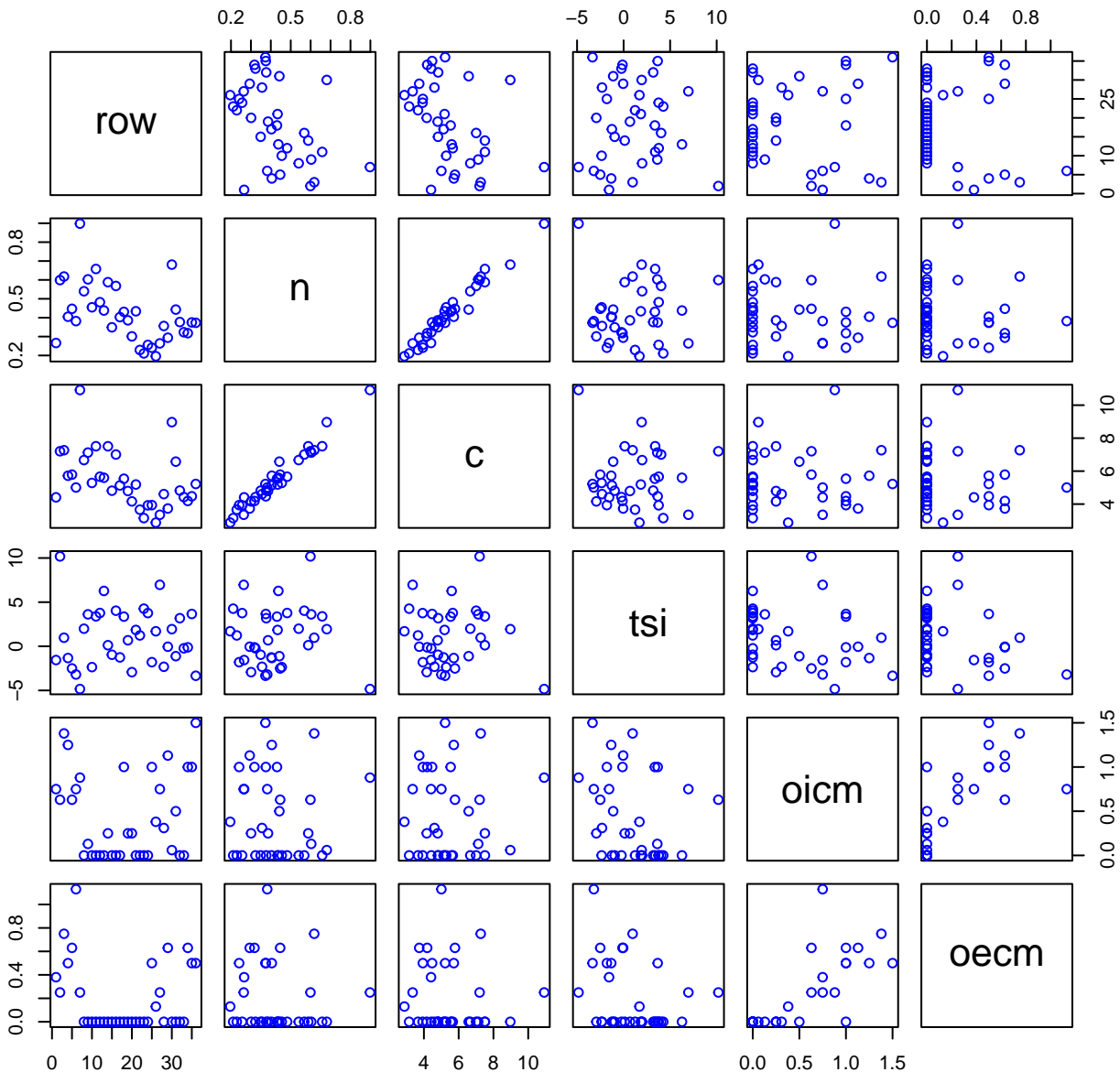
silt = percent soil clay content - Brookside Laboratories, Ne  
Knoxville, OH (dimensionless)

sand = percent soil silt content - Brookside Laboratories, Ne  
Knoxville, OH (dimensionless)

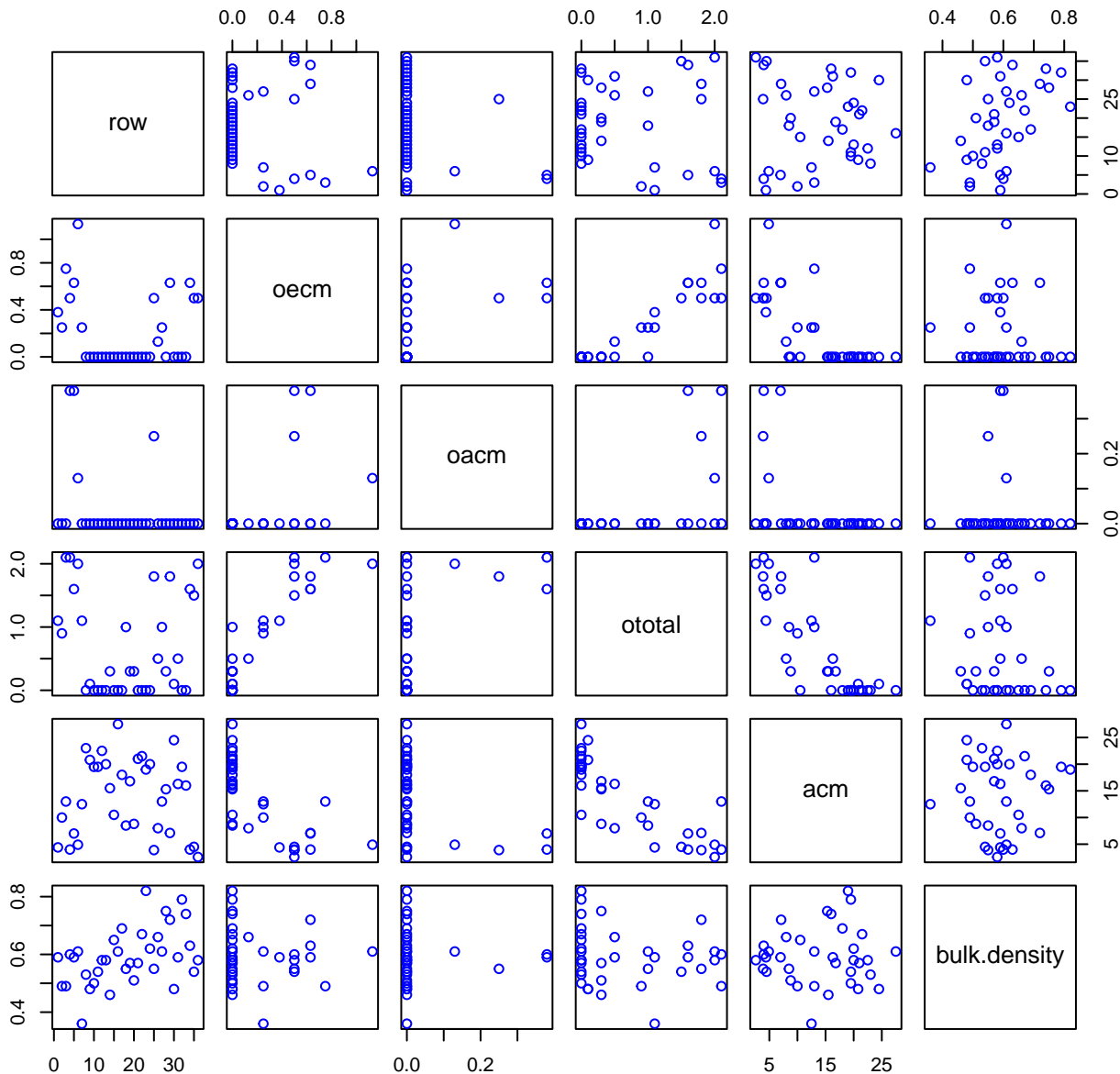
Variable	Min	Median	Mean	Max	NAs
aspect.deg	26.500	83.000	91.878	210.000	0
slope.deg	10.800	25.400	23.864	37.000	0
insol.may	19.370	21.330	21.432	23.800	0
c.n	11.420	12.935	13.268	16.740	0
n	0.196	0.395	0.422	0.898	0
c	2.877	5.160	5.450	10.918	0
tsi	-4.840	0.825	1.028	10.180	0
oicm	0.000	0.250	0.438	1.500	0
oecm	0.000	0.000	0.195	1.130	0
oacm	0.000	0.000	0.032	0.380	0
ototal	0.000	0.300	0.667	2.100	0
acm	2.600	15.400	13.969	27.500	0
bulk.density	0.360	0.585	0.592	0.820	0
cut.ba	0.000	0.000	0.817	8.500	0
bedrock.per	0.000	1.650	3.103	22.500	0
rock.per	0.000	2.900	6.603	21.300	0
cwd.per	1.500	4.300	4.125	7.300	0
tec	12.530	19.485	19.606	25.640	0
ph	4.000	4.900	4.922	5.900	0
h	0.000	0.000	0.000	0.000	0
smp.buffer	5.200	6.000	5.969	6.700	0
om.per	5.390	8.710	9.790	20.850	0
enr	98.500	117.250	117.021	127.500	0
sol.sulf	19.300	37.150	37.161	62.800	0
ee	85.800	163.150	203.806	552.000	0
ee.ppm	18.750	35.625	44.493	120.500	0
ca	339.500	2159.000	2474.889	6672.000	0
ca.ppm	169.750	1079.500	1237.444	3336.000	0
mg	47.000	143.250	138.889	246.500	0
mg.ppm	23.500	71.625	69.444	123.250	0
k	48.000	122.250	115.125	203.500	0
k.ppm	24.000	61.125	57.562	101.750	0
na	29.000	61.250	58.319	107.500	0
na.ppm	14.500	30.625	29.160	53.750	0
ca.per	4.487	29.758	31.258	77.860	0
mg.per	0.910	3.246	3.088	5.050	0
k.per	0.292	0.786	0.802	1.555	0
na.per	0.340	0.672	0.683	1.373	0
h.per	16.395	65.676	64.166	93.567	0
b.ppm	0.390	0.574	0.593	0.930	0
fe.ppm	114.500	217.500	230.201	434.250	0
mn.ppm	20.250	82.875	100.486	349.000	0
cu.ppm	0.723	1.962	2.100	5.893	0
zn.ppm	1.562	5.162	6.886	23.648	0
al.ppm	822.250	1110.125	1155.111	1567.750	0
clay	2.920	2.920	4.424	14.670	0
silt	11.330	28.705	27.434	39.330	0
sand	48.750	67.375	68.142	85.750	0



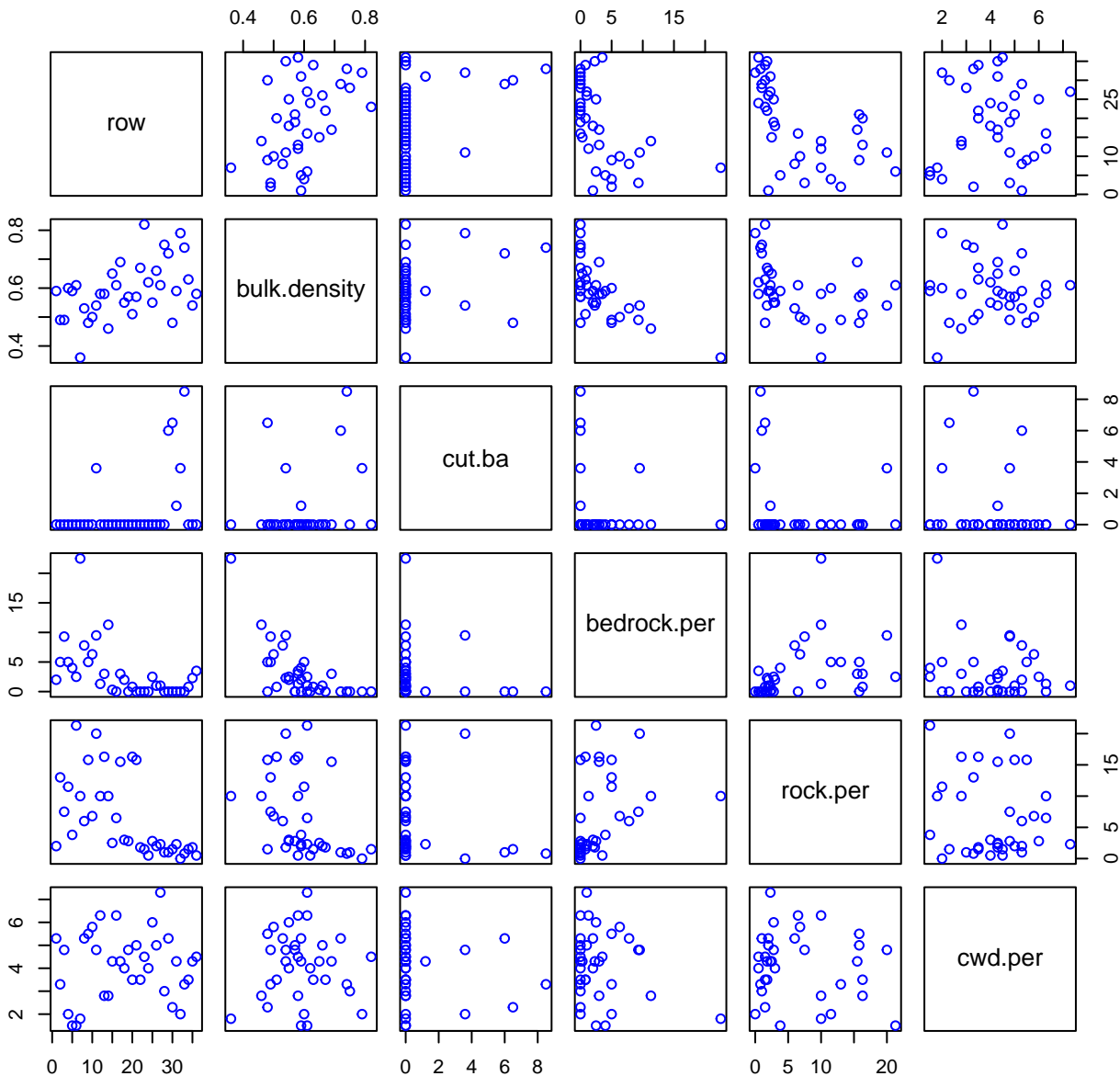
# HF089-03 Plot 2



# HF089-03 Plot 3

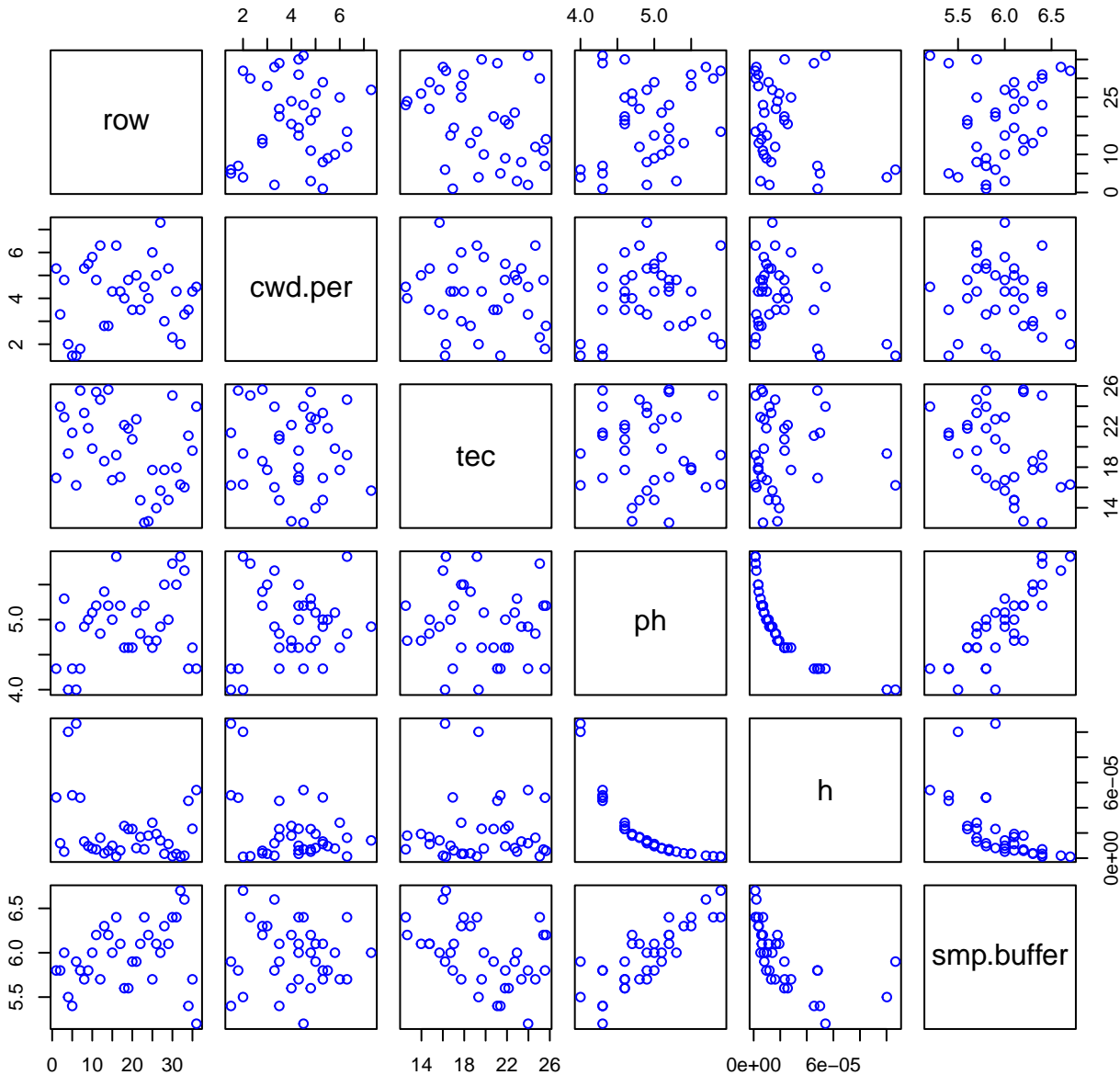


# HF089-03 Plot 4

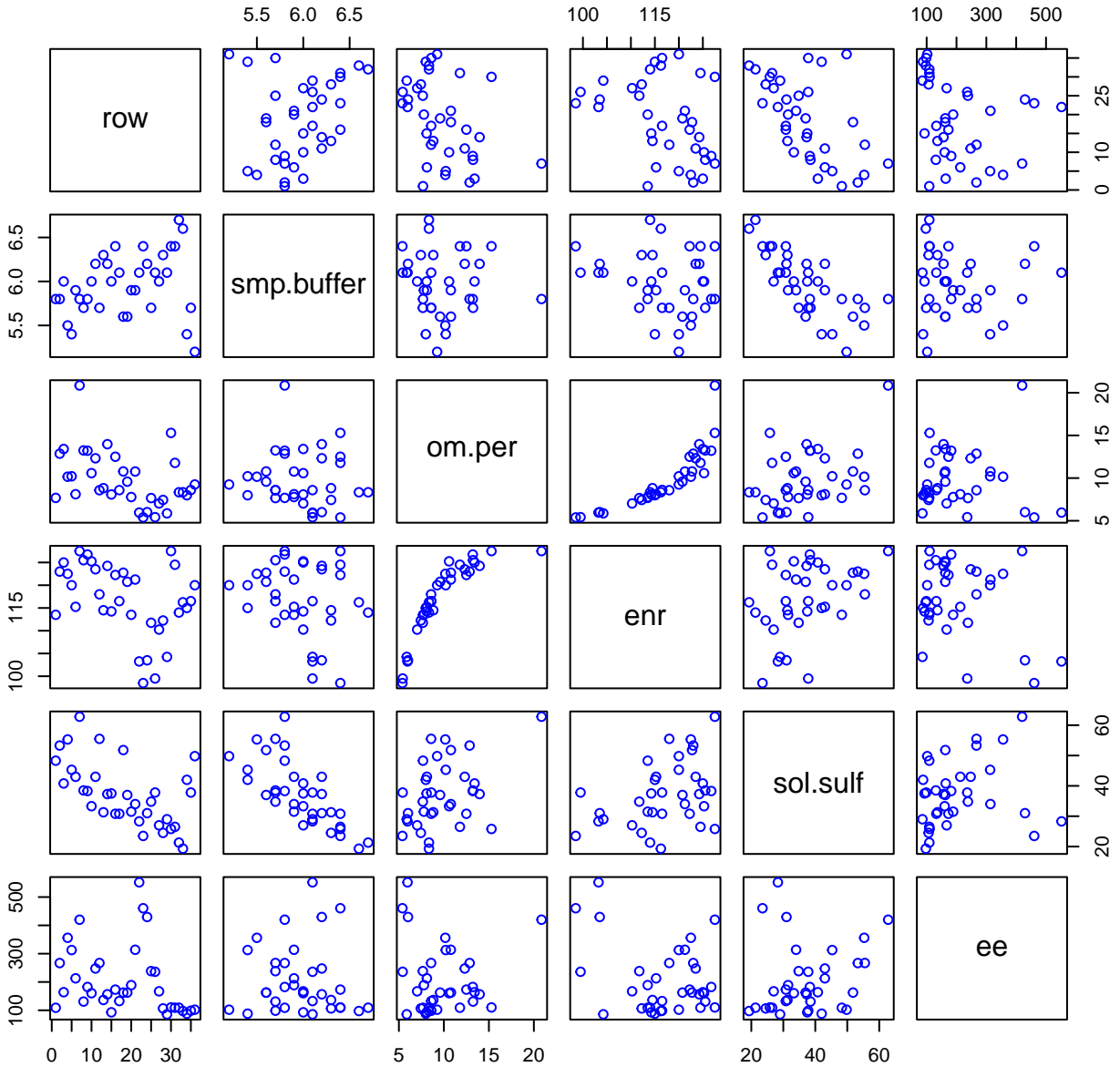




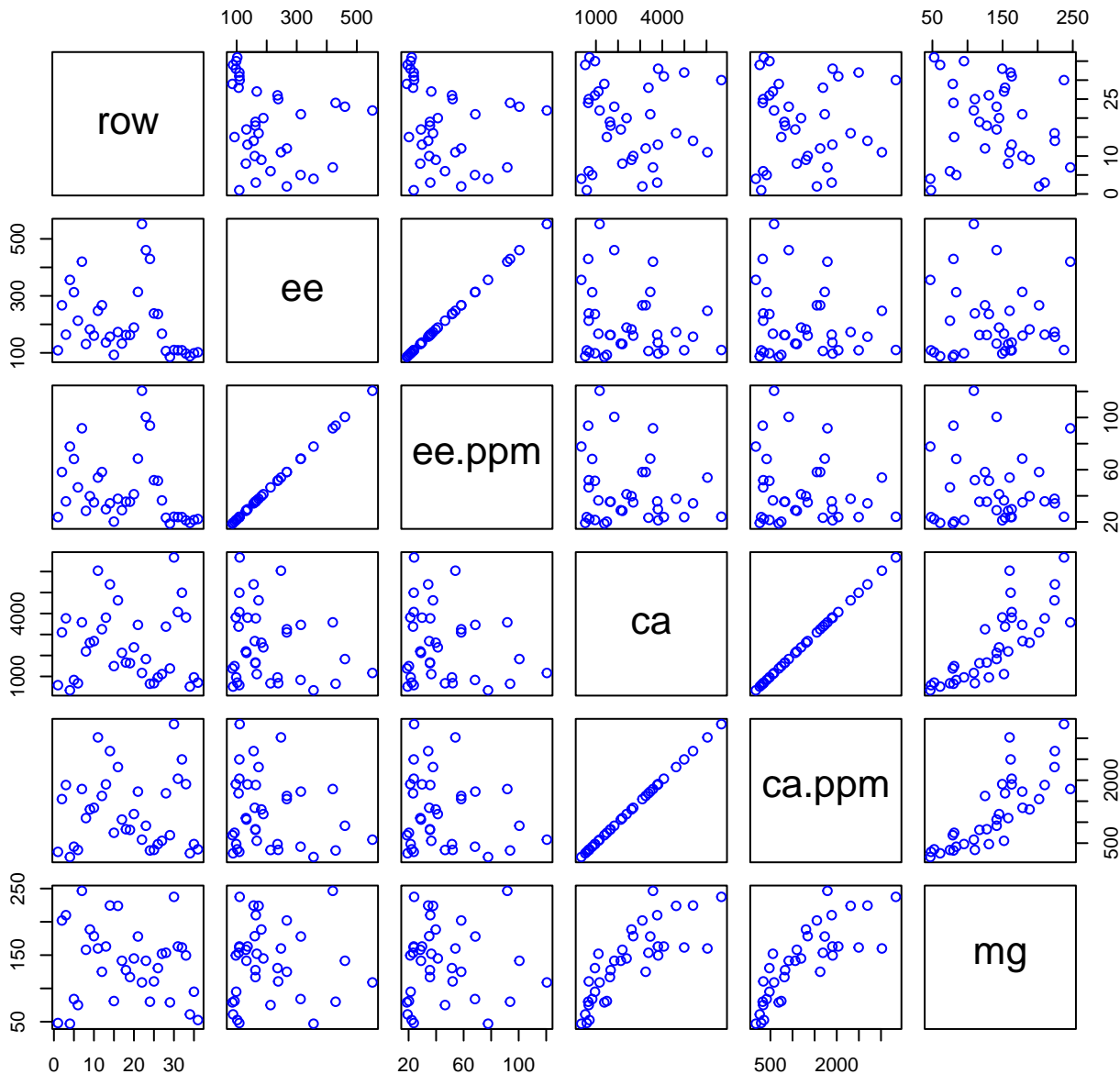
# HF089-03 Plot 5



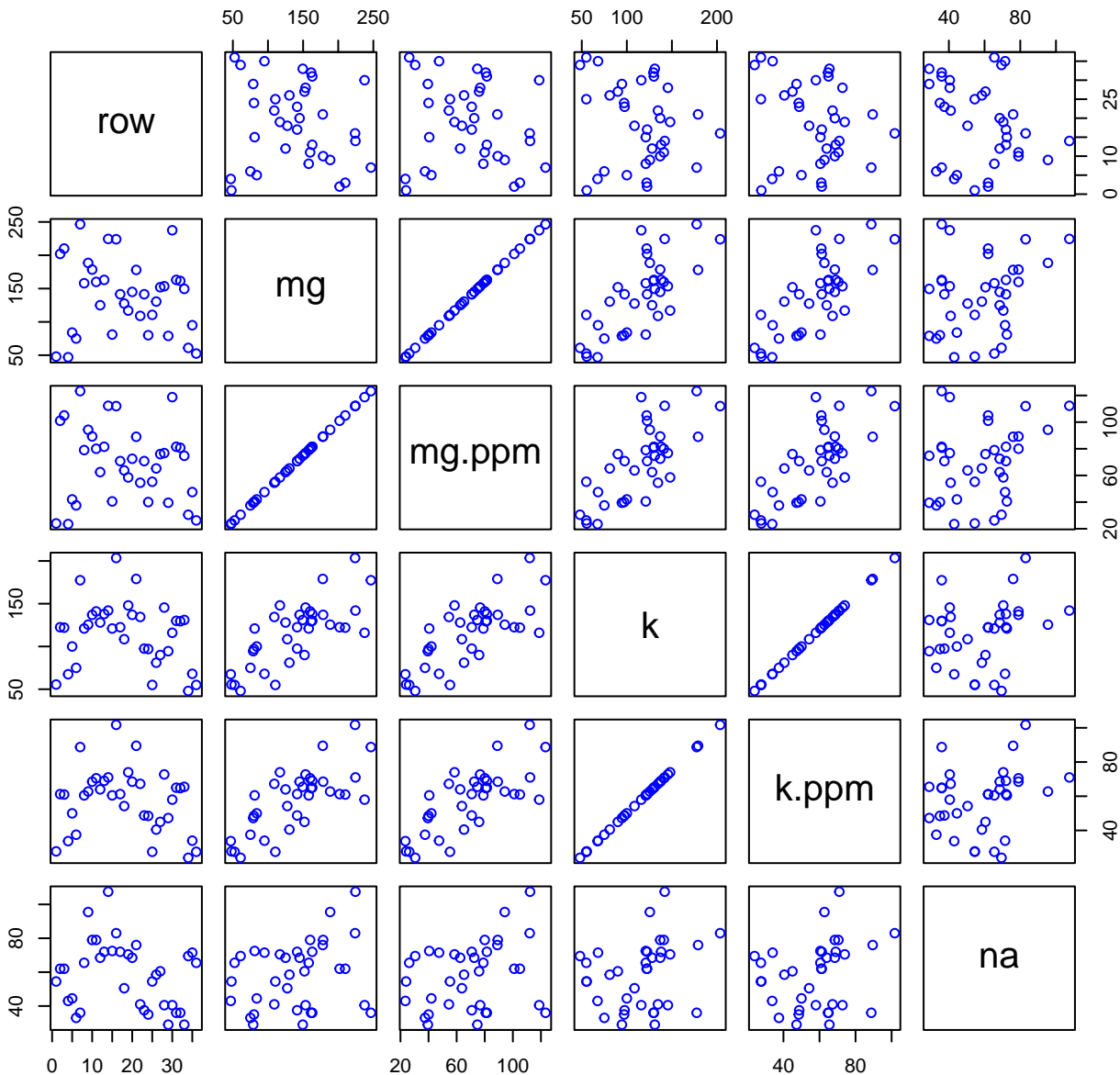
# HF089-03 Plot 6



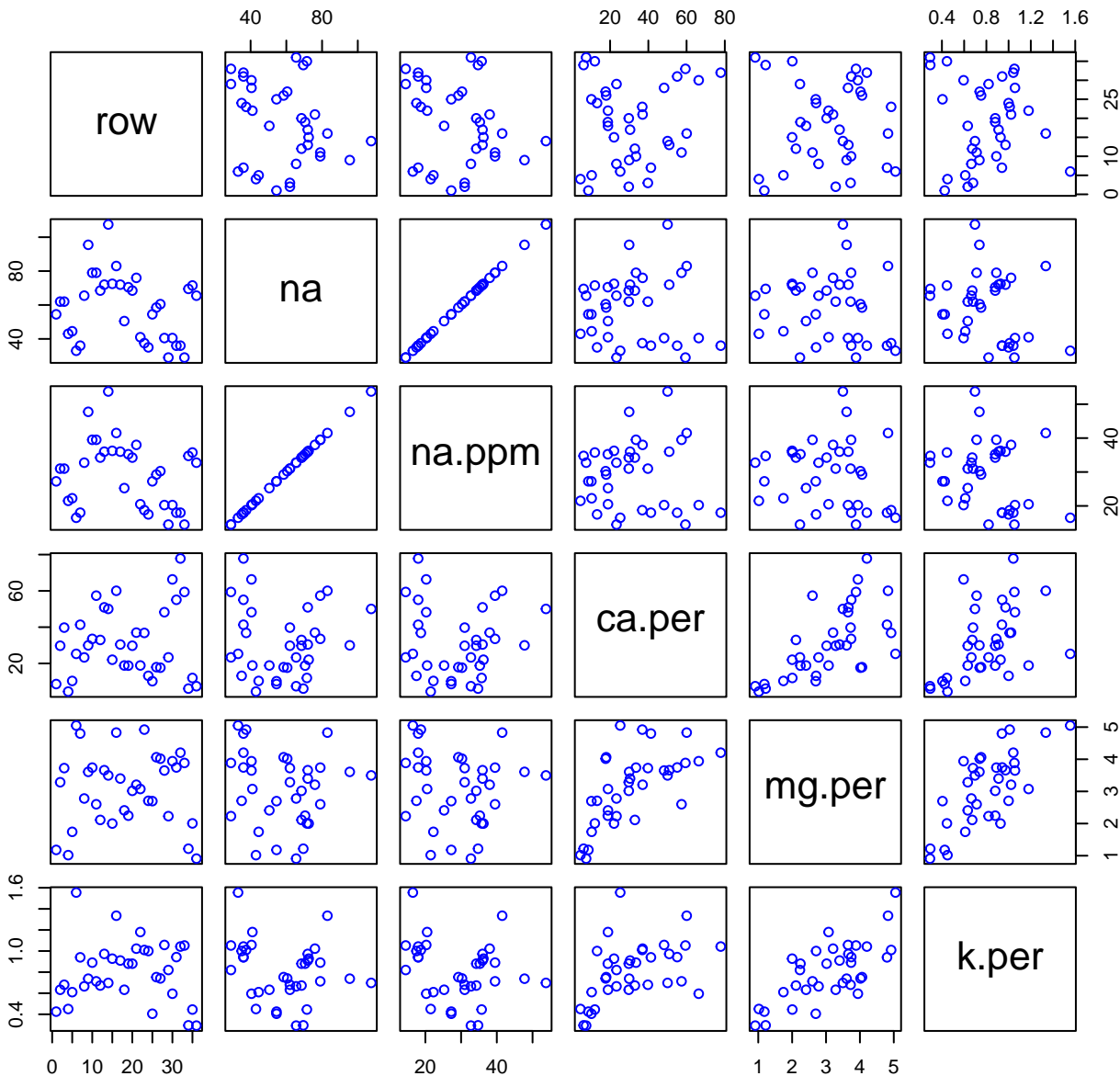
# HF089-03 Plot 7



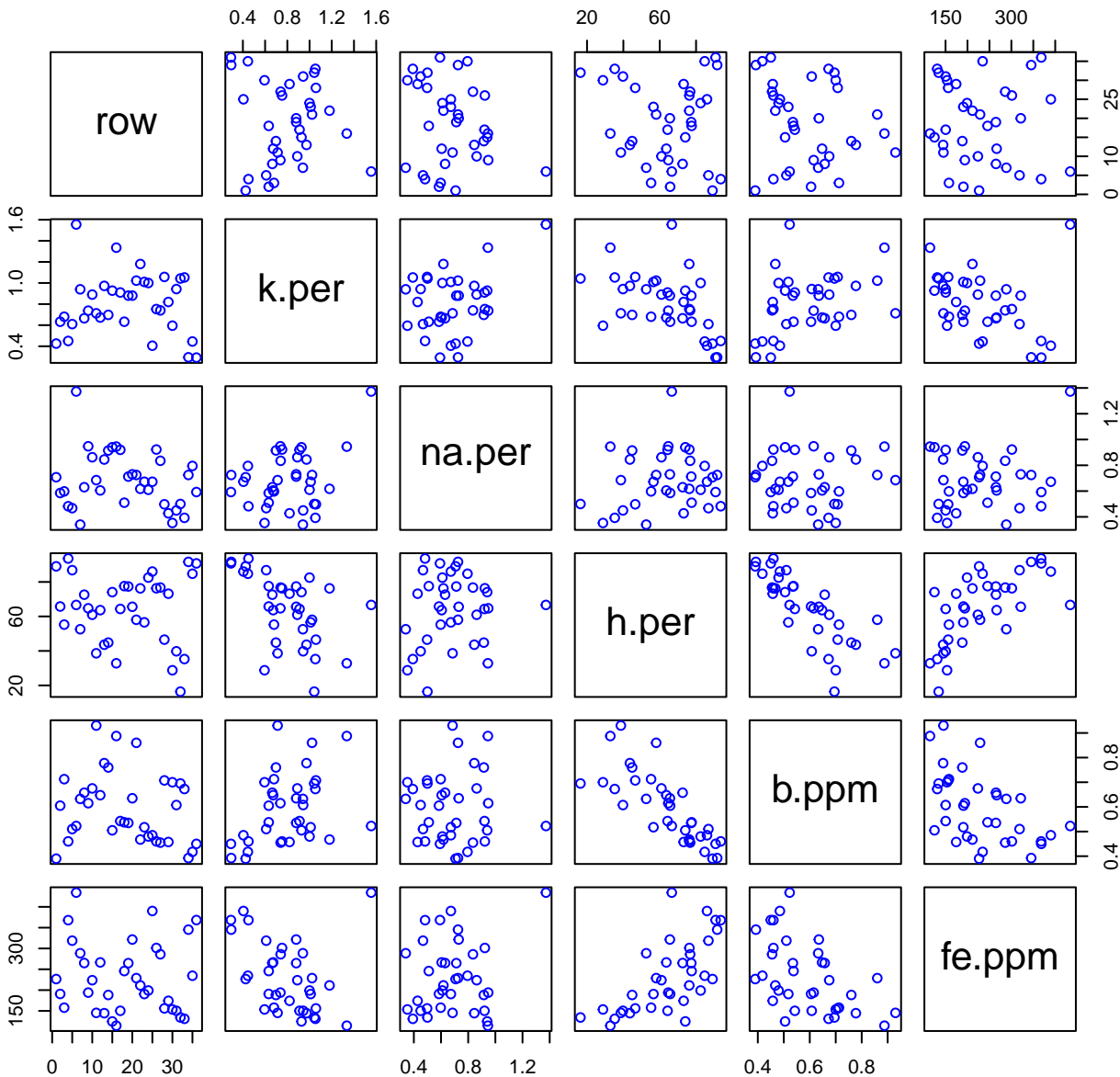
# HF089-03 Plot 8



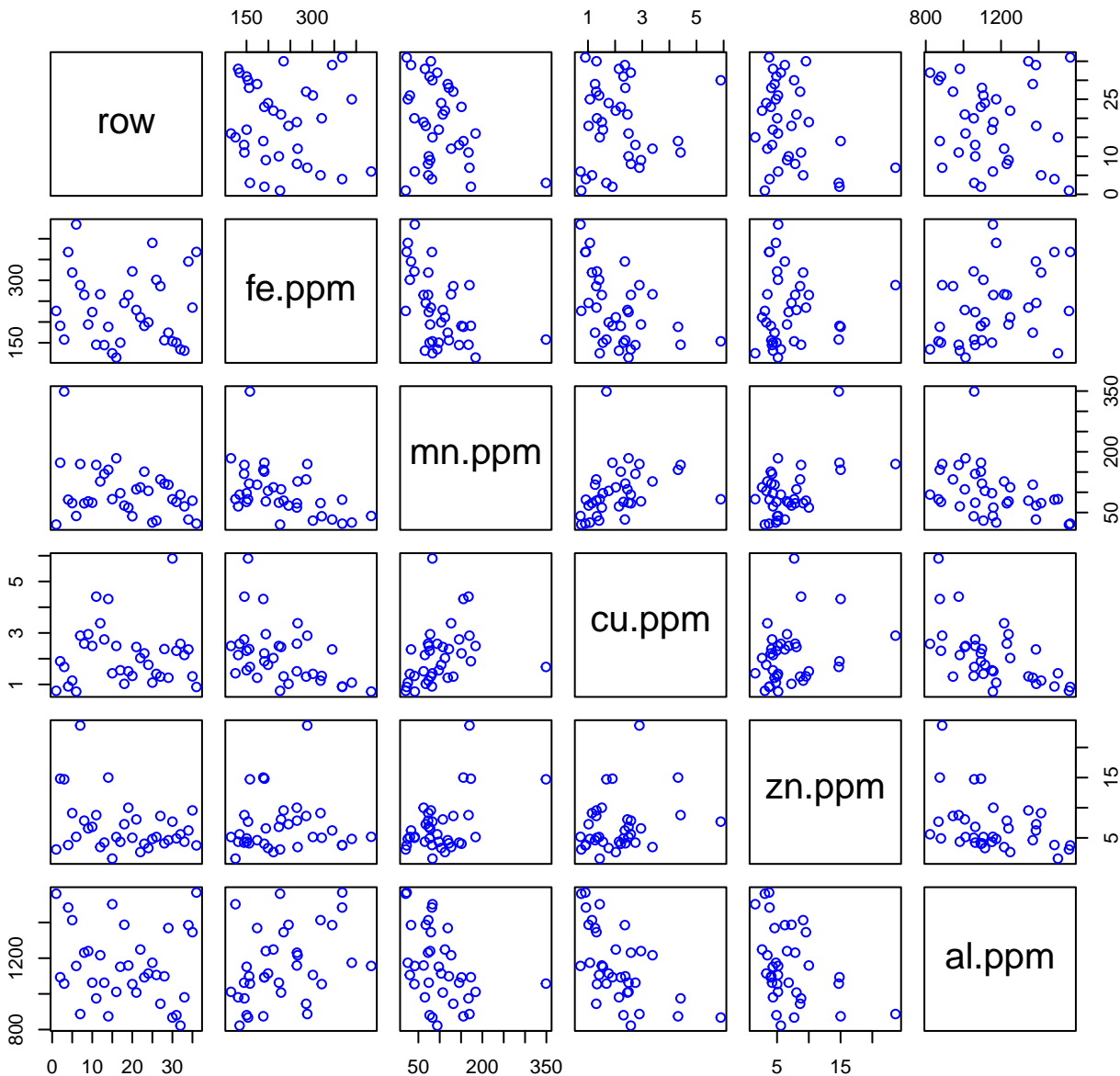
# HF089-03 Plot 9



# HF089-03 Plot 10



# HF089-03 Plot 11



# HF089-03 Plot 12

