

Harvard Forest Data Archive HF254-01

Data File:

Name = hf254-01-microbes.csv
Description = microbial community structure and function
Rows = 12 Columns = 27
MD5 checksum = 6d540b33a0a0607e2e61543c4068dac8

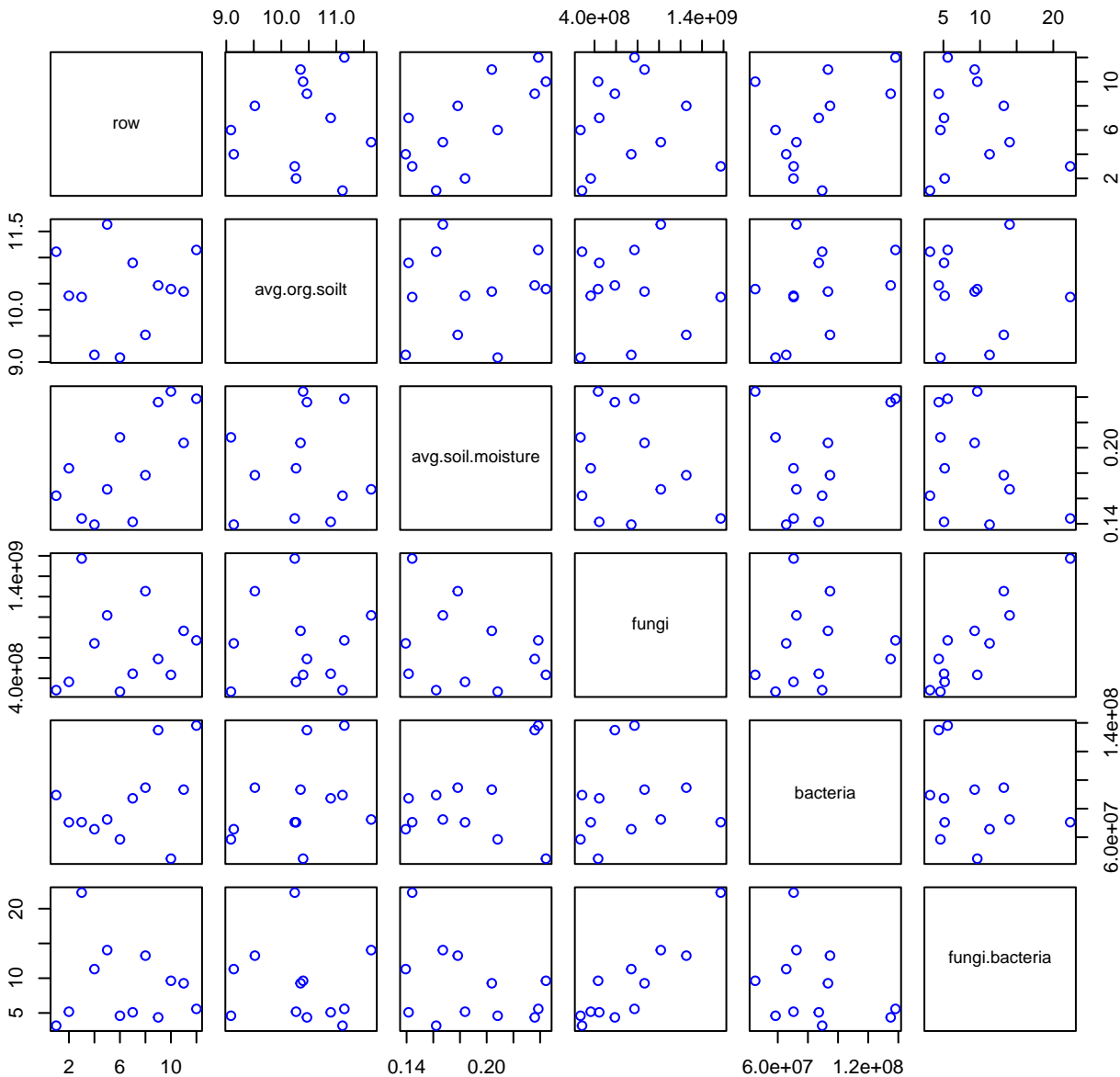
Variables:

avg.org.soilt = daily average organic soil temperature (celsius)
avg.soil.moisture = daily average soil moisture (%) (dimensionless)
fungi = quantitative PCR data, fungi per gram of dry soil.
 Quantitative PCR can be
 used as a proxy for fungal abundance. (numberPerGram)
bacteria = quantitative PCR data, bacteria per gram of dry soil.
 Quantitative PCR can
 be used as a proxy for bacterial abundance.
 (numberPerGram)
fungi.bacteria = ratio of fungi to bacteria (dimensionless)
simpsons.div = Simpson's diversity (dimensionless)
fungal.otu = number of unique trflp peaks for fungi (number)
bacterial.otu = number of unique trflp peaks for bacteria (number)
total.otu = number of unique trflp peaks for fungi and bacteria
 (number)
xylosidase = soil extracellular enzymatic activity. All enzymes are
 measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
sulfatase = soil extracellular enzymatic activity. All enzymes are
 measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
cellobiohydrolase = soil extracellular enzymatic activity. All
 enzymes are measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
b.gluc = soil extracellular enzymatic activity. All enzymes are
 measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
a.gluc = soil extracellular enzymatic activity. All enzymes are
 measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
nagase = soil extracellular enzymatic activity. All enzymes are
 measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
phosphatase = soil extracellular enzymatic activity. All enzymes are
 measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
phenol.ox = soil extracellular enzymatic activity. All enzymes are
 measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
perox = soil extracellular enzymatic activity. All enzymes are
 measured in
 nmol/h/g dry soil. (nanomolePerGramPerHour)
decomp.0 = percent cellulose substrate mass remaining on day 0
 (dimensionless)
decomp.90 = percent cellulose substrate mass remaining on day 90
 (dimensionless)
decomp.180 = percent cellulose substrate mass remaining on day
 180
 (dimensionless)
decomp.270 = percent cellulose substrate mass remaining on day
 270
 (dimensionless)

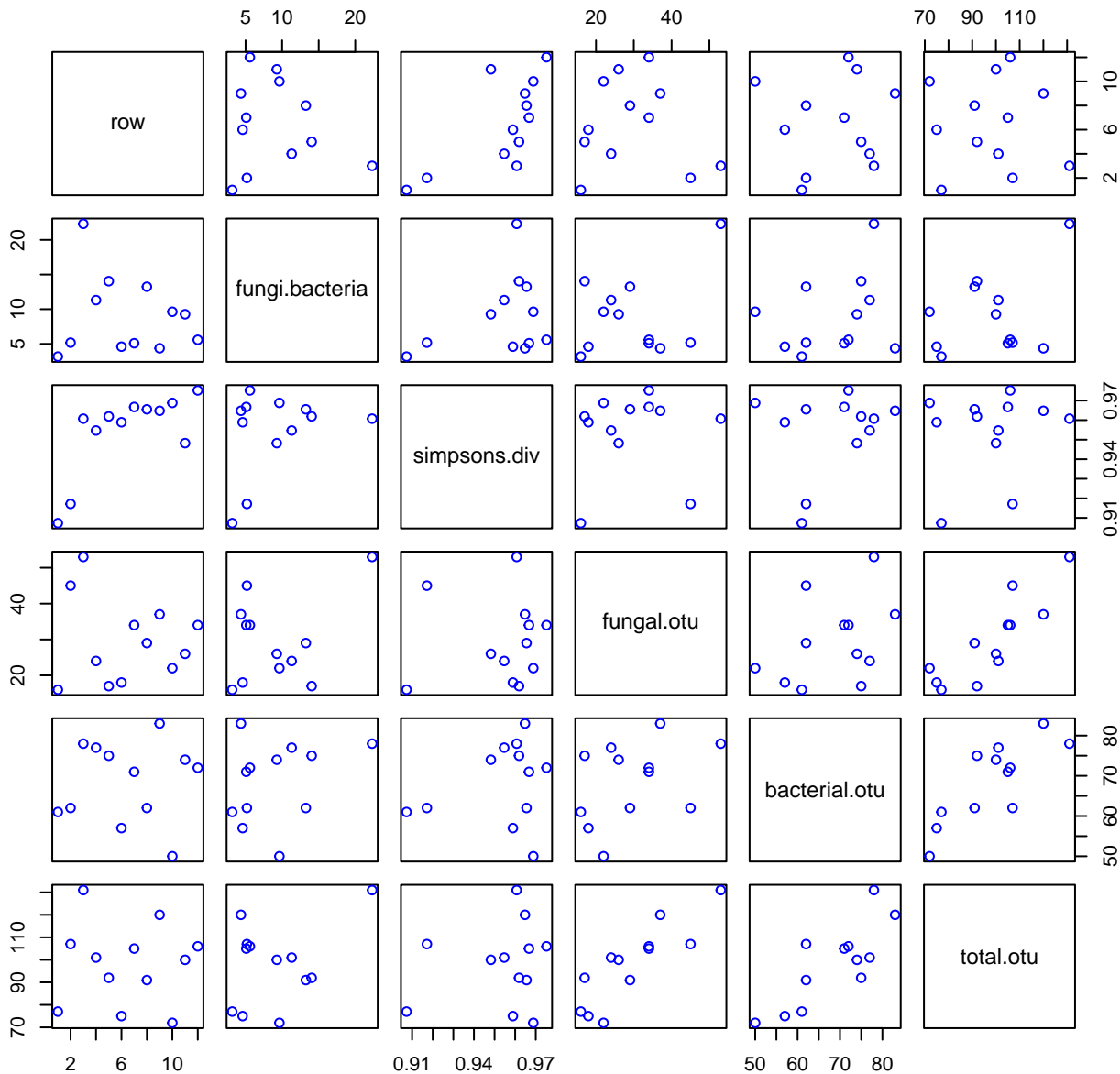
k.constant = K constant (dimensionless)

Variable	Min	Median	Mean	Max	NAs
avg.org.soil	9.085	10.373	10.355	11.633	0
avg.soil.moi	0.139	0.181	0.187	0.244	0
fungi	268959064	665510808	717175793	1573759351	0
bacteria	45018789	79809566	85024001	138127949	0
fungi.bacter	3.170	7.427	8.982	22.311	0
simpsons.div	0.907	0.961	0.954	0.975	0
fungal.otu	16.000	27.500	29.583	53.000	0
bacterial.ot	50.000	71.500	68.500	83.000	0
total.otu	72.000	100.500	98.083	131.000	0
xylosidase	41.489	80.986	94.114	190.095	0
sulfatase	0.000	0.206	4.459	22.768	0
cellobiohydr	17.140	62.769	60.565	129.484	0
b.gluc	143.645	351.798	362.834	635.467	0
a.gluc	0.000	2.419	6.335	29.413	0
nagase	151.701	522.295	599.140	1646.025	0
phosphatase	291.297	928.031	941.115	1702.205	0
phenol.ox	0.000	0.000	731.336	3098.930	0
perox	0.000	0.000	155.099	626.307	0
decomp.0	99.607	99.748	99.756	99.928	0
decomp.90	92.008	94.079	94.262	96.201	0
decomp.180	73.750	84.205	83.106	90.403	0
decomp.270	64.626	84.647	81.556	90.540	0
k.constant	0.031	0.060	0.070	0.137	0

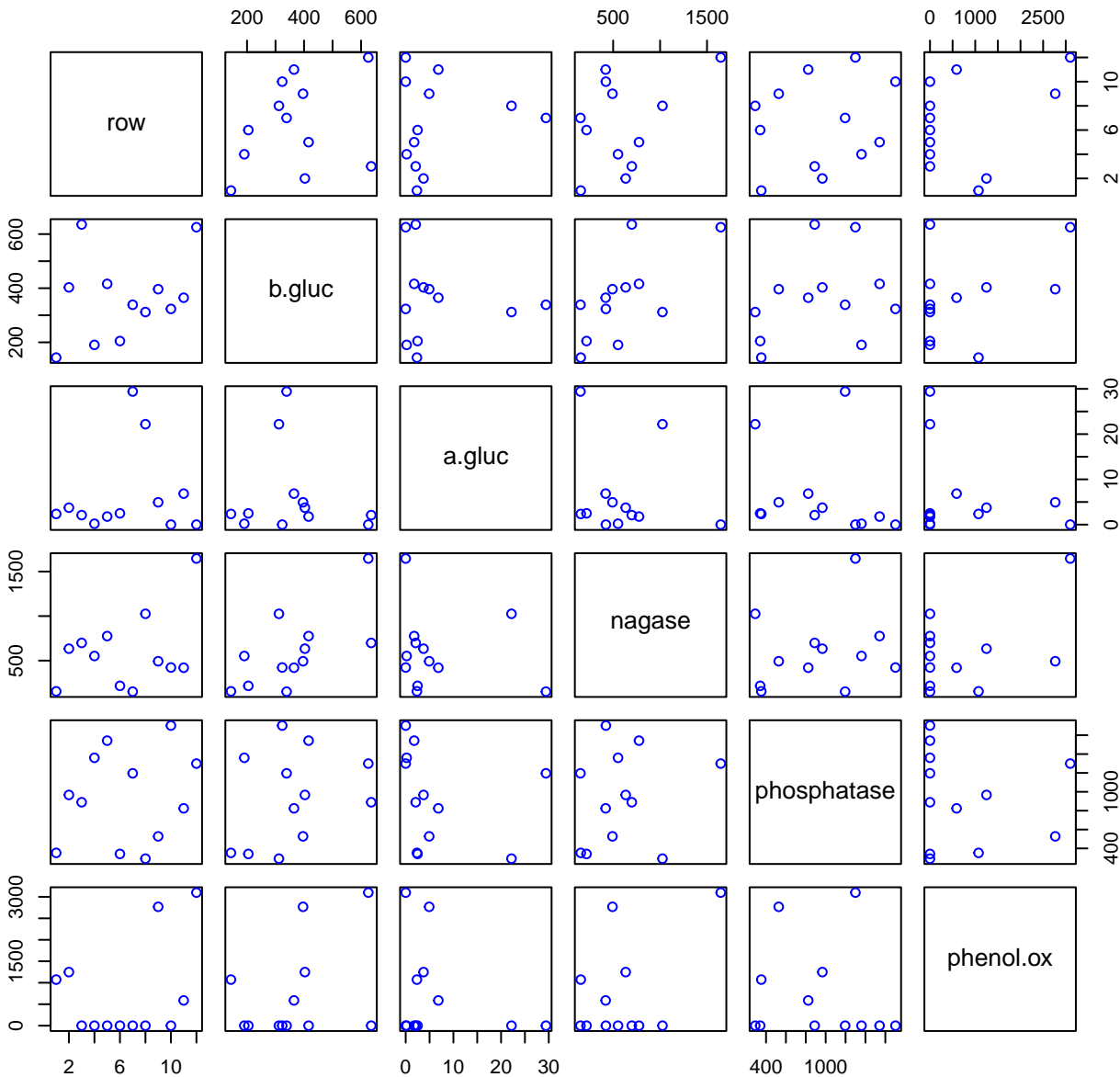
HF254-01 Plot 1



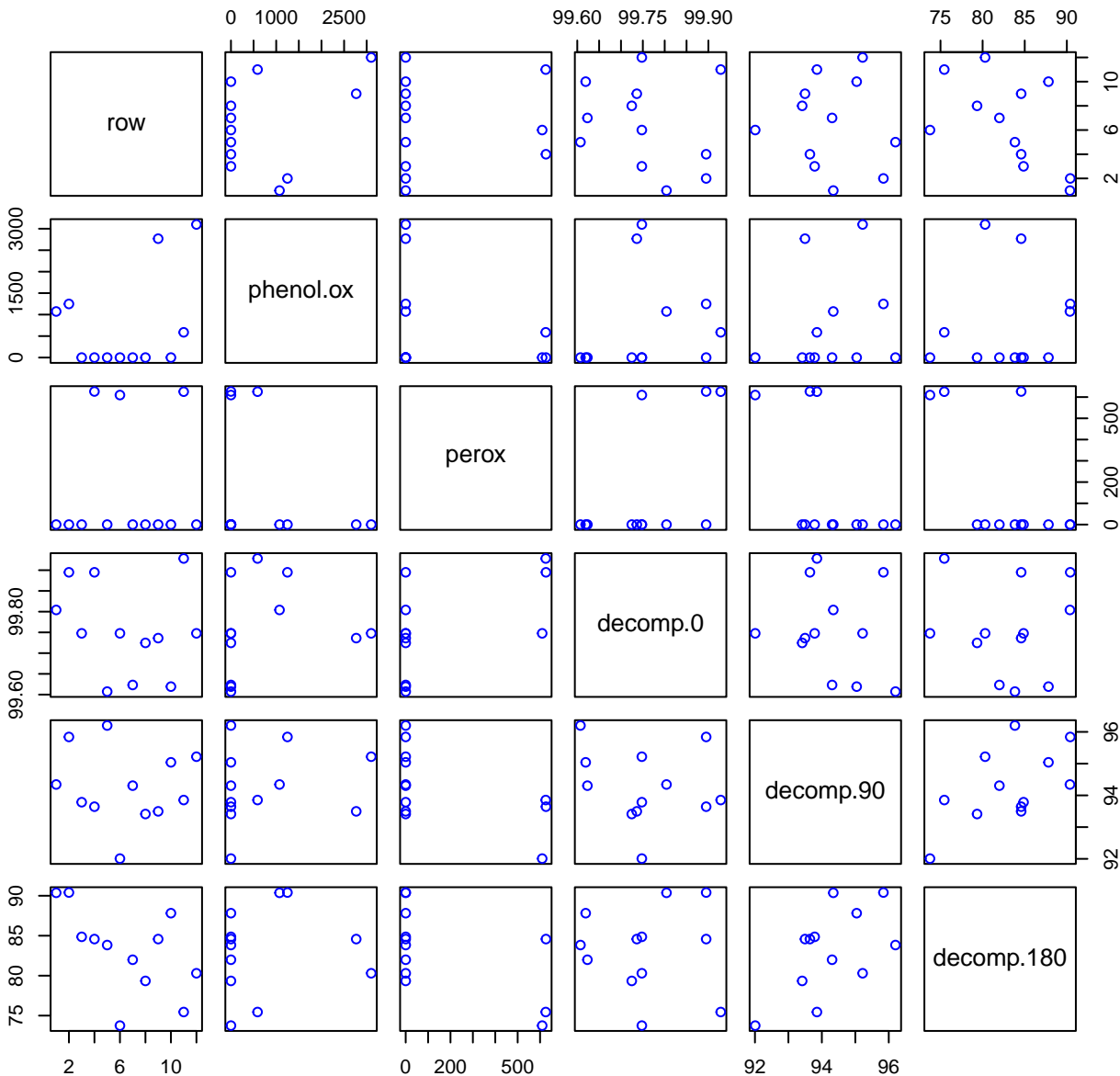
HF254-01 Plot 2



HF254-01 Plot 4



HF254-01 Plot 5



HF254-01 Plot 6

