

Harvard Forest Data Archive HF015-05

Data File:

Name = hf015-05-soils.csv
Description = soils
Rows = 552 Columns = 32
MD5 checksum = cfc2675080bd1233385df5d6e0f1b2f9

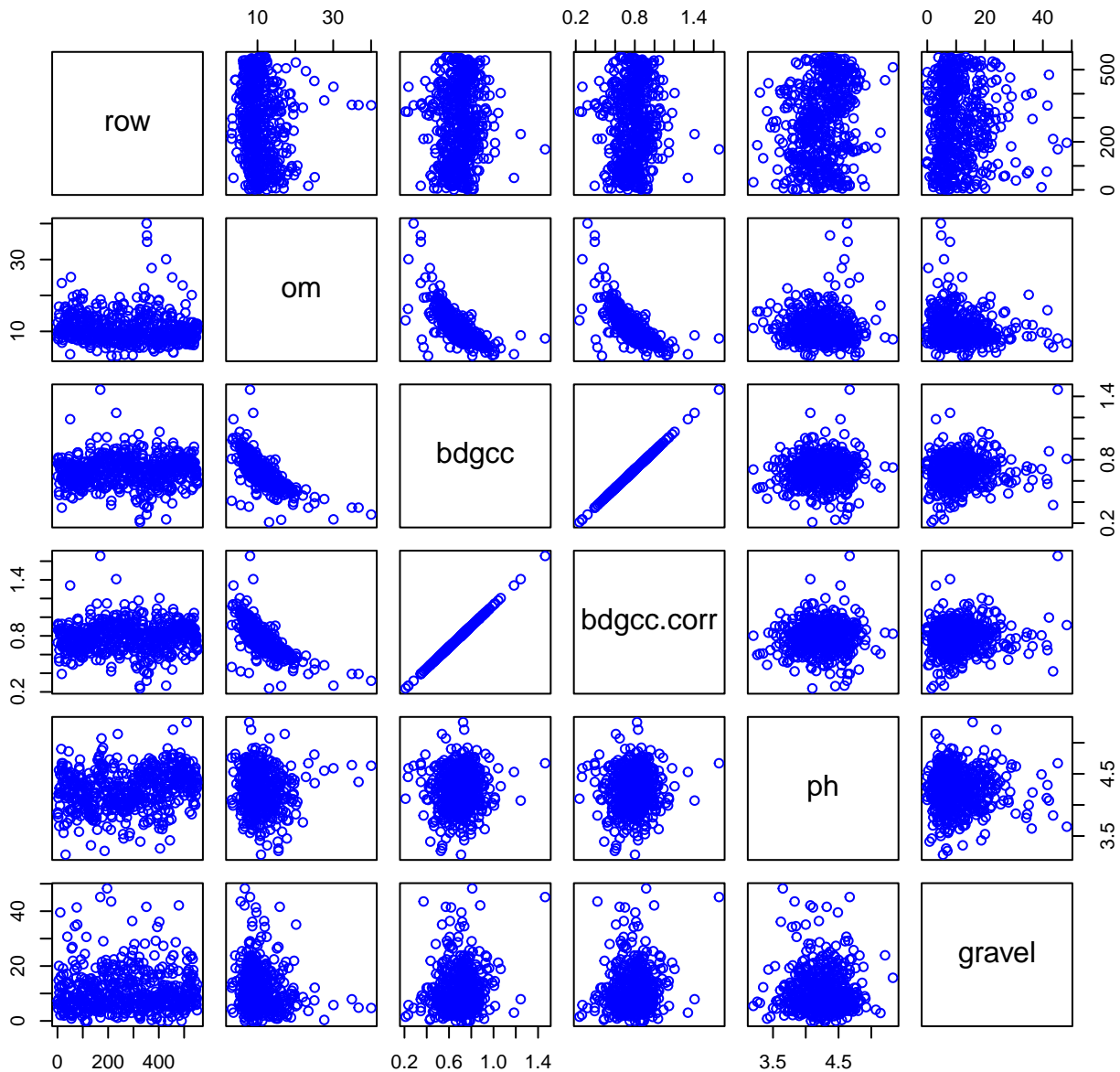
Variables:

om = percent organic matter (%); Harvard Forest lab
analysis
(dimensionless)
bdgcc = bulk density, corrected for gravel (g/cm3); HF lab
analysis
(gramsPerCubicCentimeter)
bdgcc.corr = bulk density corrected for plastic sleeve used inside
the corer. Column 4 (bdgcc) was calculated based on volume of a 5cm
corer. However, with the plastic sleeve, the actual diameter of the soil
core is 4.7cm. Therefore, bdgcc is multiplied by
(2.5^2*2.5)/(2.35^2*2.35)...the pi in the area formula cancels out. (gramsPerCubicCentimeter)
ph = pH determined using 1:2 mineral soil in HF lab (dimensionless)
gravel = percent gravel (%); HF lab analysis (dimensionless)
siltclay = percent silt & clay, uncorrected for organic matter (%);
HF lab
analysis (dimensionless)
clay = total percent clay (%); analysis by Natural Resources
Conservation Service
Soil Survey Lab in Lincoln, NE (NRCS) (dimensionless)
silt = total % silt (%); analysis by NRCS (dimensionless)
sand = total % sand (%); analysis by NRCS (dimensionless)
fsl = % fine silt (%); analysis by NRCS ms: % medium sand (%);
analysis by
Natural Resources Conservation Service Soil Survey Lab in
Lincoln, NE
(NRCS) (dimensionless)
cosi = % fine silt (%); analysis by NRCS ms: % medium sand (%);
analysis by
Natural Resources Conservation Service Soil Survey Lab in
Lincoln, NE
(NRCS) (dimensionless)
vfs = % very fine sand; analysis by NRCS (dimensionless)
fs = % fine sand; analysis by NRCS (dimensionless)
ms = % medium sand; analysis by NRCS (dimensionless)
cos = % coarse sand (%); analysis by NRCS (dimensionless)
vcos = % very coarse sand; analysis by NRCS (dimensionless)
ceccly = ratio of Cation Exchange Capacity to clay; analysis by
NRCS (dimensionless)
cax = NH4OAc extractable (cmol+)/kg, detection limit 0.01);
analysis by
NRCS (centimolePerKilogram)
ngx = NH4OAc extractable (cmol+)/kg, detection limit 0.01) analysis
by
NRCS (centimolePerKilogram)
nax = NH4OAc extractable (cmol+)/kg, detection limit 0.01) analysis
by
NRCS (centimolePerKilogram)
kx = NH4OAc extractable (cmol+)/kg, detection limit 0.01) analysis
by
NRCS (centimolePerKilogram)
sumb = sum of NH4OAc extractable (cmol+)/kg, detection limit 0.01)
analysis by
NRCS (centimolePerKilogram)

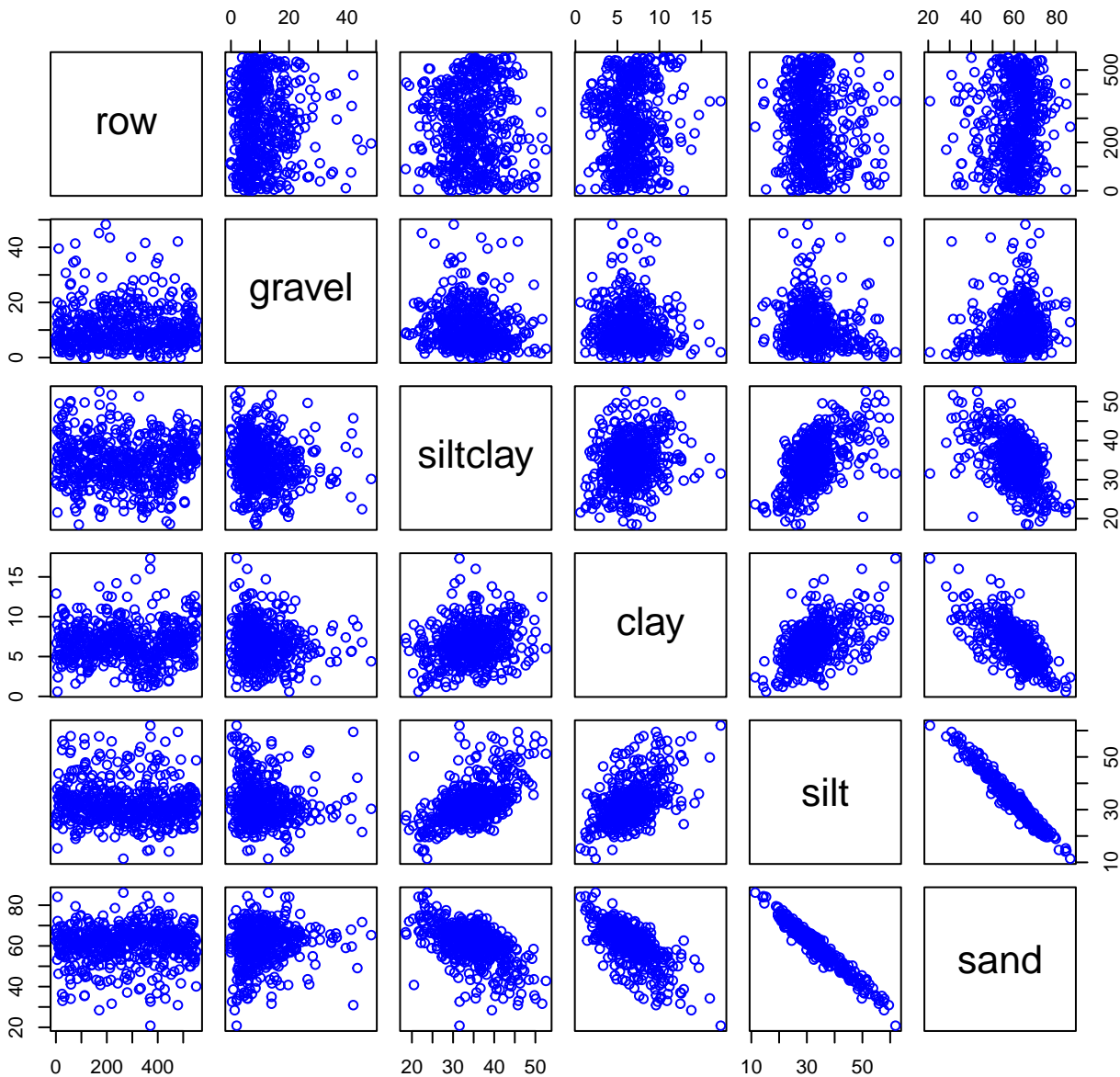
cec = NH₄OAc cation exchange capacity (cmol(+)/kg, detection limit 0.01)
analysis by NRCS (centimolePerKilogram)
bsat = NH₄OAc base saturation % analysis by NRCS (dimensionless)
cgkg = total soil C, using Fison CHN at HF lab (says g/kg but low by a factor of 100) (gramsPerKilogram)
ngkg = total soil N, using Fison CHN at HF lab (says g/kg but low by a factor of 100) (gramsPerKilogram)
gcgsoil = like cgkg but units corrected so they are grams C per g soil (gramsPerGram)
gngsoil = like ngkg but units corrected so they are grams N per g soil (gramsPerGram)
cn = based on the Fison CHN measurements; the C:N ratio (dimensionless)

Variable	Min	Median	Mean	Max	NAs
om	3.183	9.662	10.681	40.033	6
bdgcc	0.210	0.710	0.697	1.463	5
bdgcc.corr	0.237	0.803	0.789	1.656	5
ph	3.200	4.270	4.246	5.330	5
gravel	0.000	8.778	10.696	48.287	5
siltclay	18.488	34.492	34.531	52.572	5
clay	0.600	6.500	6.636	17.300	16
silt	11.400	31.400	32.509	61.900	16
sand	20.800	62.300	60.855	86.200	16
fsi	3.100	15.900	16.232	34.700	16
cosi	7.400	15.650	16.279	32.100	16
vfs	6.000	11.400	11.405	26.100	16
fs	5.800	18.100	17.916	40.700	16
ms	3.700	16.350	16.117	29.100	16
cos	1.600	10.100	10.162	21.800	16
vcos	0.200	5.200	5.255	16.500	16
ceccly	1.000	2.750	3.622	41.670	16
cax	0.010	0.200	0.282	3.500	16
mgx	0.010	0.100	0.148	1.400	16
nax	0.010	0.100	0.120	4.100	16
kx	0.010	0.100	0.098	0.700	16
sumb	0.010	0.500	0.655	5.400	16
cec	5.600	17.800	20.144	79.700	16
bsat	0.200	2.900	3.551	25.800	16
cgkg	0.132	0.479	0.528	1.833	33
ngkg	0.007	0.022	0.025	0.112	33
gcgsoil	0.013	0.048	0.053	0.183	33
gngSoil	0.001	0.002	0.003	0.011	33
cn	13.125	21.582	21.752	41.917	33

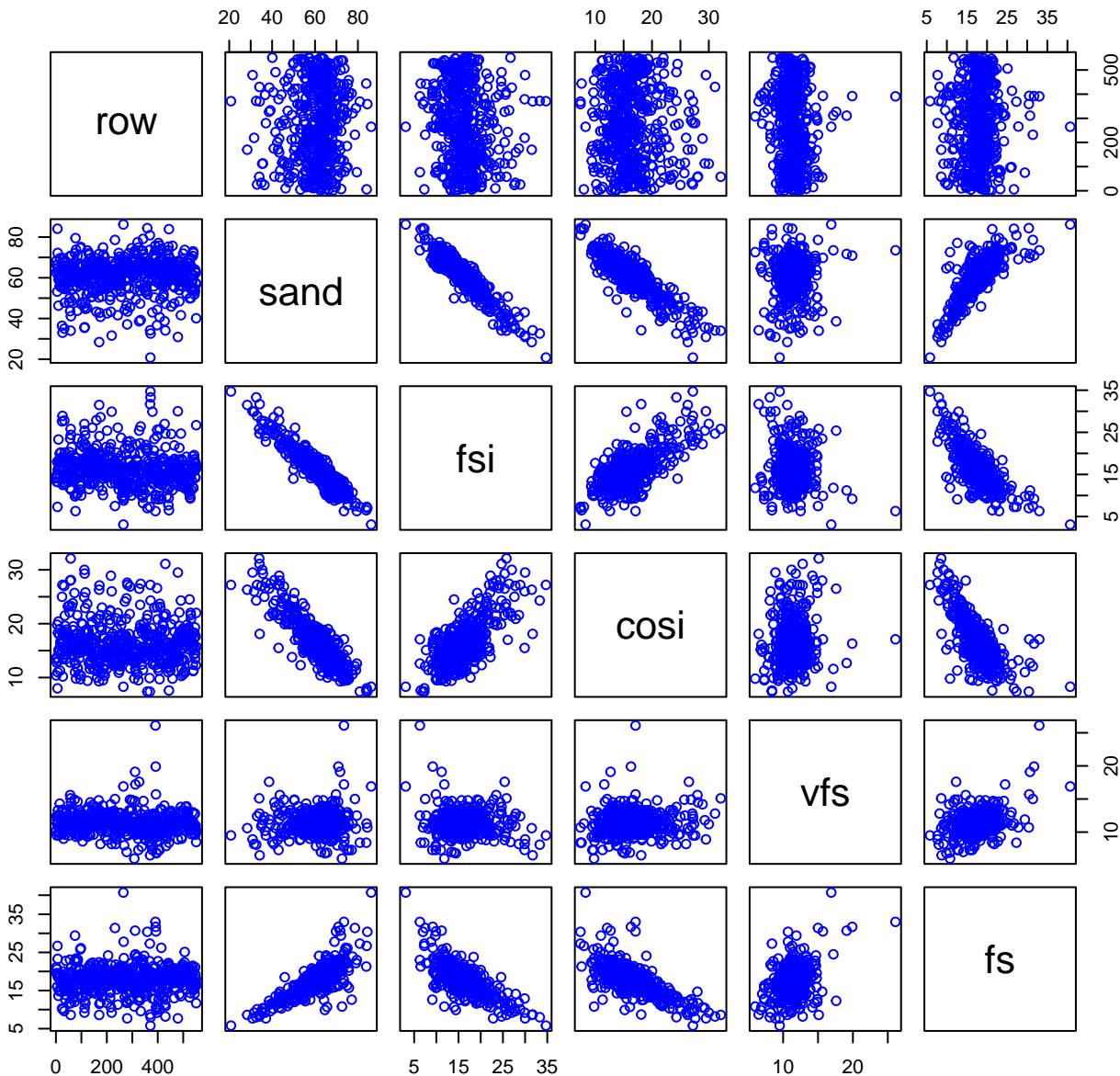
HF015-05 Plot 1



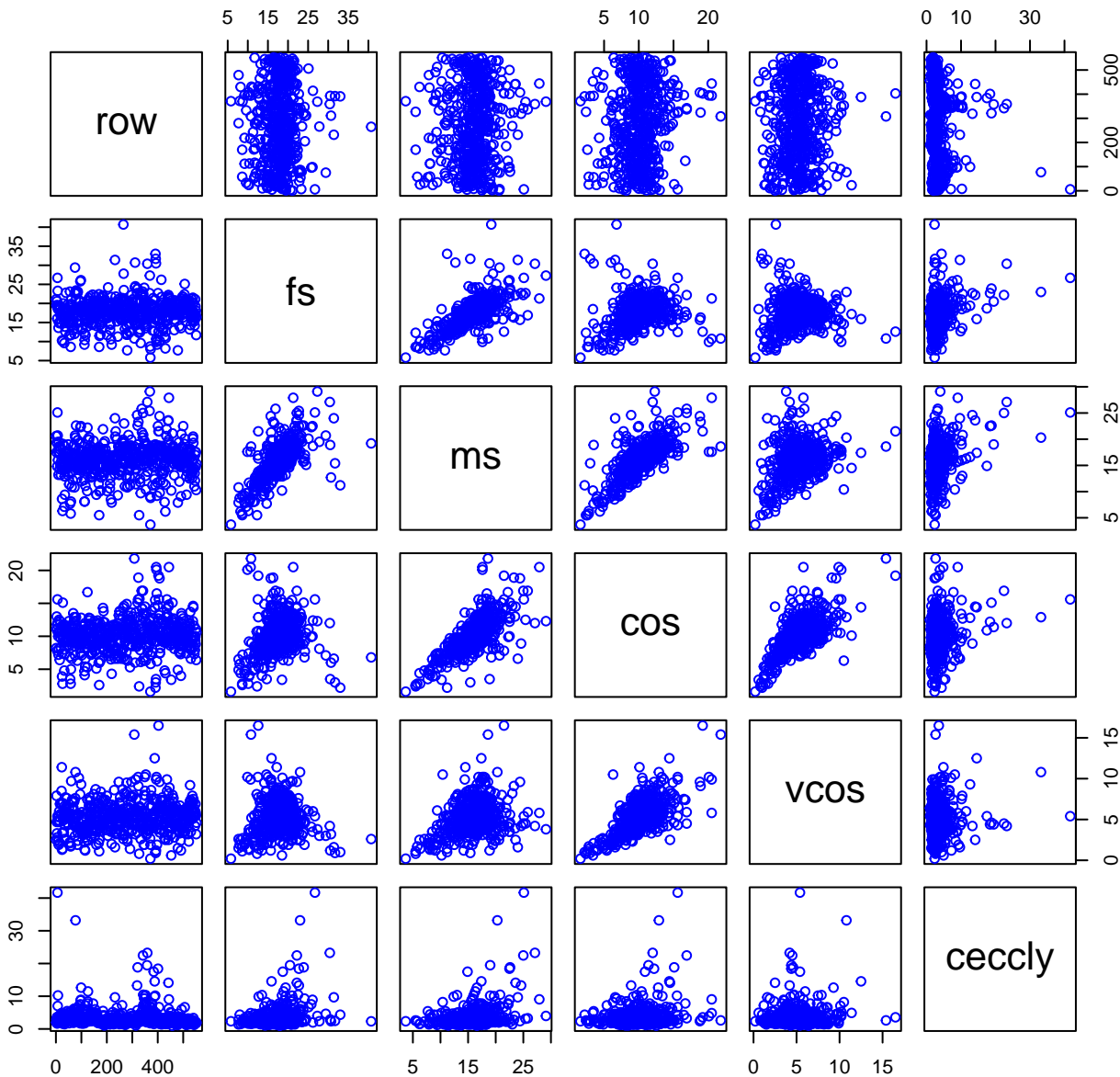
HF015-05 Plot 2



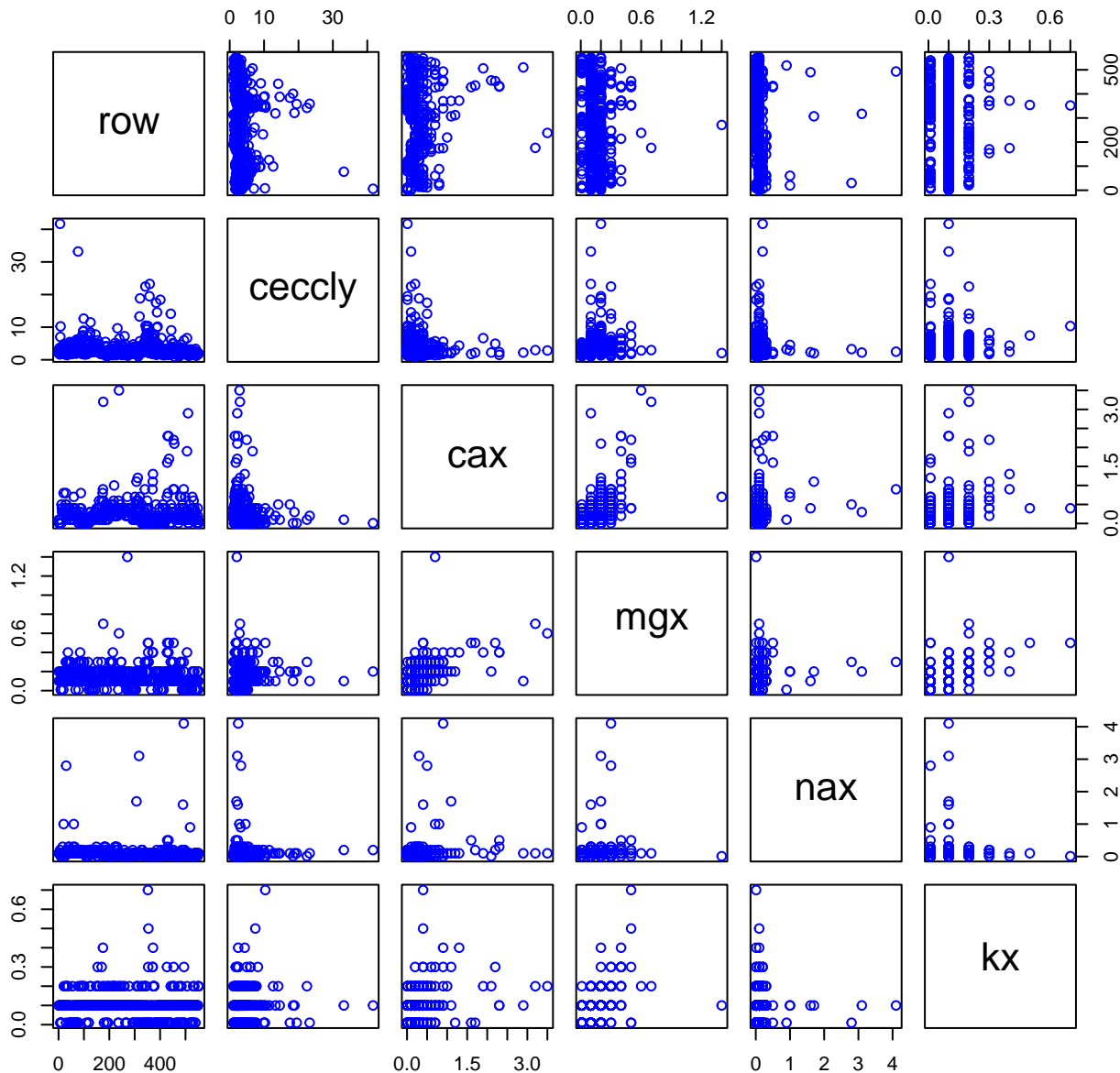
HF015-05 Plot 3



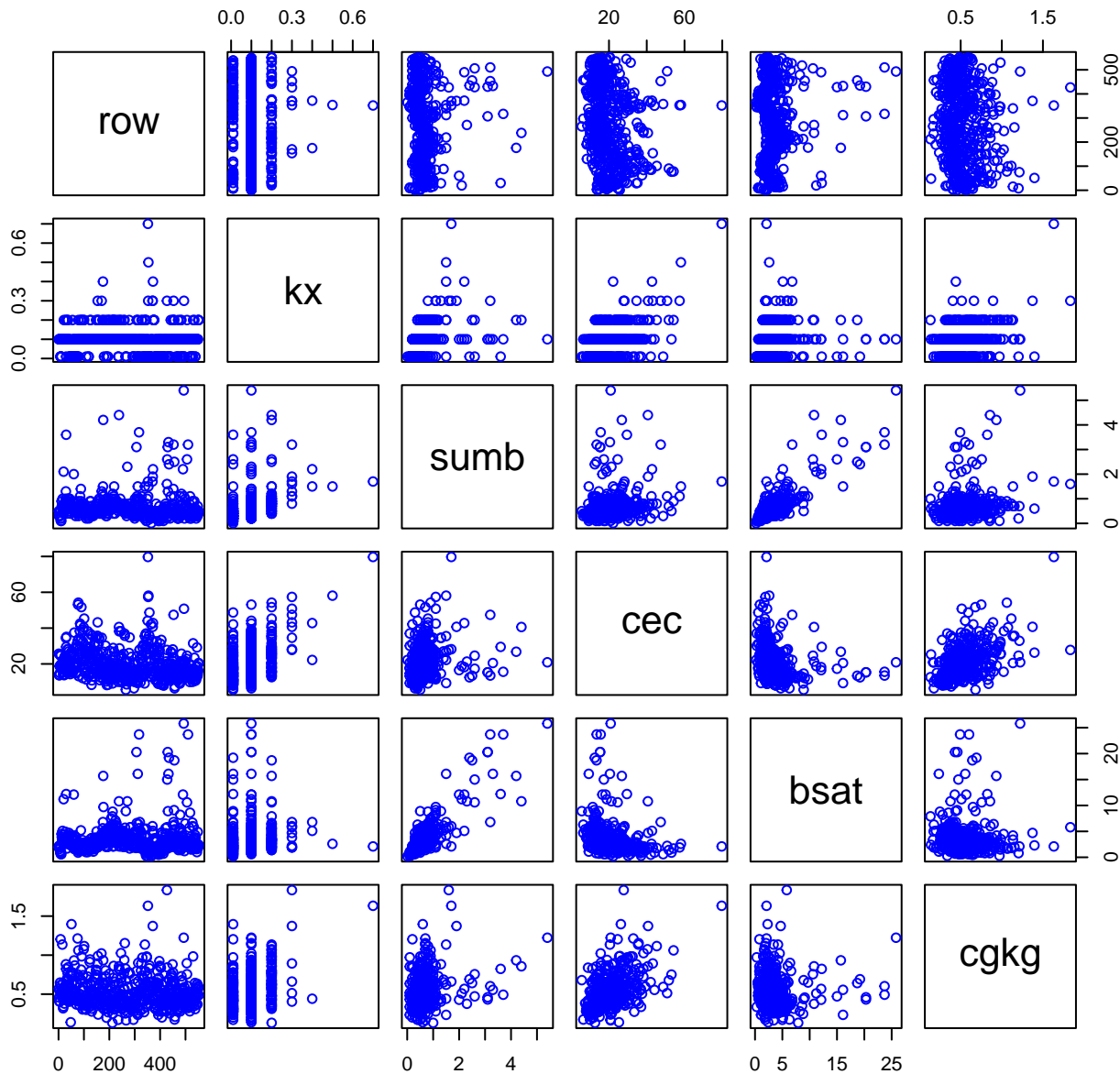
HF015-05 Plot 4



HF015-05 Plot 5



HF015-05 Plot 6



HF015-05 Plot 7

