

Harvard Forest Data Archive HF271-07

Data File:

Name = hf271-07-soils.csv
Description = soils
Rows = 270 Columns = 18
MD5 checksum = 7917d83723f5de351f503b32ec9f9897

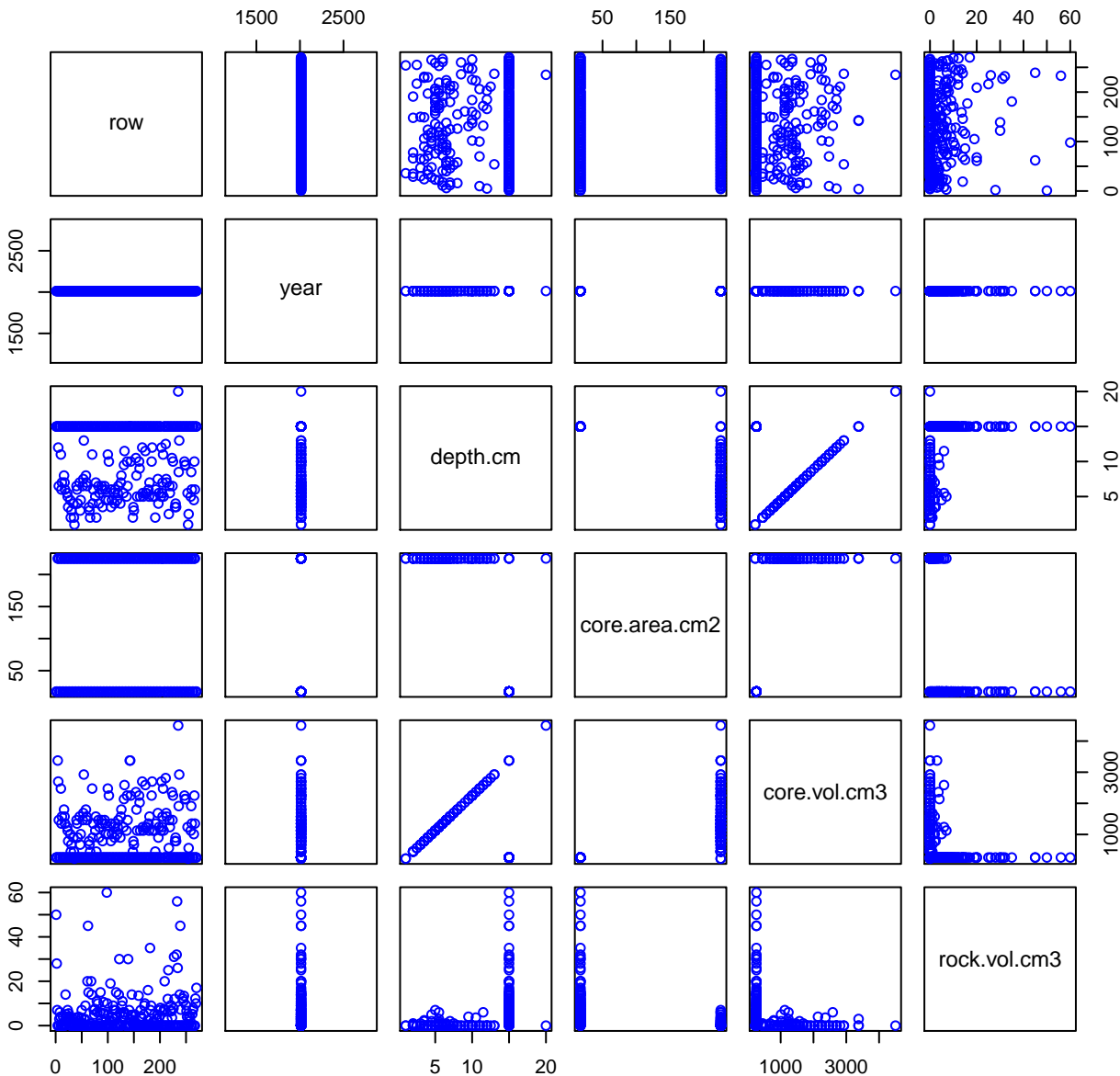
Variables:

year = year of sample (2013)
depth.cm = depth of the sample (15cm for M; variable depth for
0)
(centimeter)
core.area.cm2 = 0 layer collected with a 15cm by 15cm frame (225
cm²); M layer collected
with a cylindrical corer with inside diameter
of 5 cm (2 in.) but also with a plastic sleeve
insert, making the
effective diameter 4.7cm (squareCentimeters)
core.vol.cm3 = calculated based on depth.cm and core.area.cm2
(centimeterCubed)
rock.vol.cm3 = volume of rocks in the sample, estimated by water
displacement (centimeterCubed)
soil.vol.norock.cm3 = core volume after removing rock volume is the
soil volume (core.vol.cm3 -
rock.vol.cm3) (centimeterCubed)
mass.fine.g = oven-dry mass of soil that passed through a 2mm
sieve
(gram)
mass.coarse.g = oven-dry mass of soil too large to pass through a
2mm
sieve (gram)
mass.tot.g = mass.fine.g + mass.coarse.g (gram)
bulk.dens.gcm3 = bulk density, based on

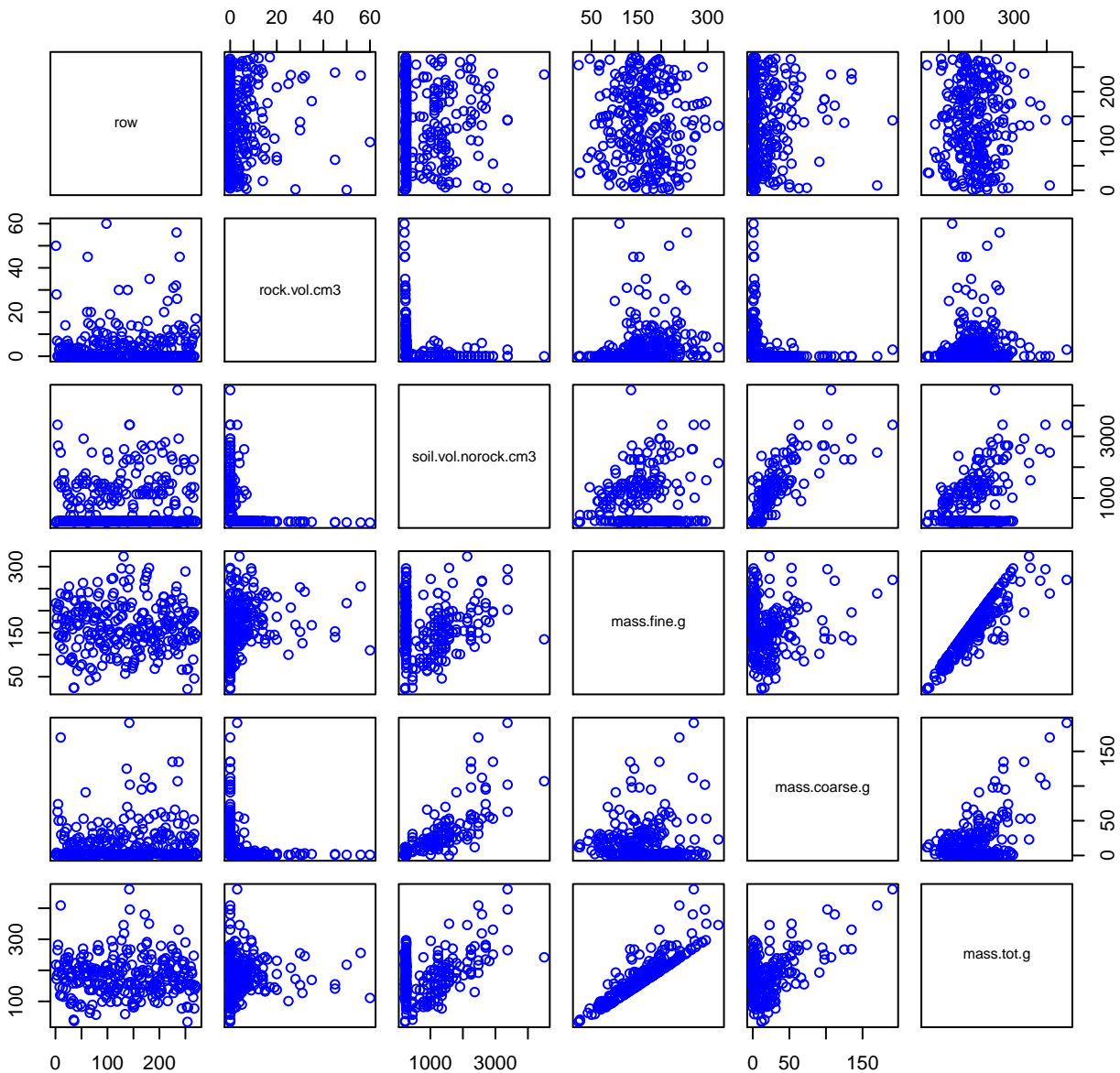
mass.tot.g/soil.vol.norock.cm3 (gramsPerCubicCentimeter)
c.percent = Carbon content based on ground subsample prepared for
Elementar CHN
Analyzer (dimensionless)
c.gg = conversion from percent carbon to carbon on a gC per g soil
basis
(C.percent/100) (dimensionless)
carbon.gm2 = soil carbon stock on an area basis (g carbon per m²).
Formula =
bulk.dens.gm3 * C.gg * 1,000,000 * (depth.cm/100)
(gramsPerSquareMeter)
n.percent = Nitrogen content based on ground subsample prepared for
Elementar CHN
Analyzer (dimensionless)

Variable	Min	Median	Mean	Max	NAs
year	2013.000	2013.000	2013.000	2013.000	0
depth.cm	1.000	15.000	10.880	20.000	3
core.area.cm	17.349	121.175	121.175	225.000	0
core.vol.cm3	225.000	260.242	873.156	4500.000	3
rock.vol.cm3	0.000	1.000	4.995	60.000	0
soil.vol.nor	200.242	260.242	868.105	4500.000	3
mass.fine.g	22.000	158.000	162.067	323.000	0
mass.coarse.	0.000	6.000	18.830	191.000	0
mass.tot.g	34.000	179.500	180.896	461.000	0
bulk.dens.gc	0.054	0.308	0.427	1.253	3
c.percent	2.053	16.466	22.688	51.948	0
c.gg	0.021	0.165	0.227	0.519	0
carbon.gm2	623.386	4703.305	4713.644	12698.101	3
n.percent	0.105	0.758	0.912	2.260	0

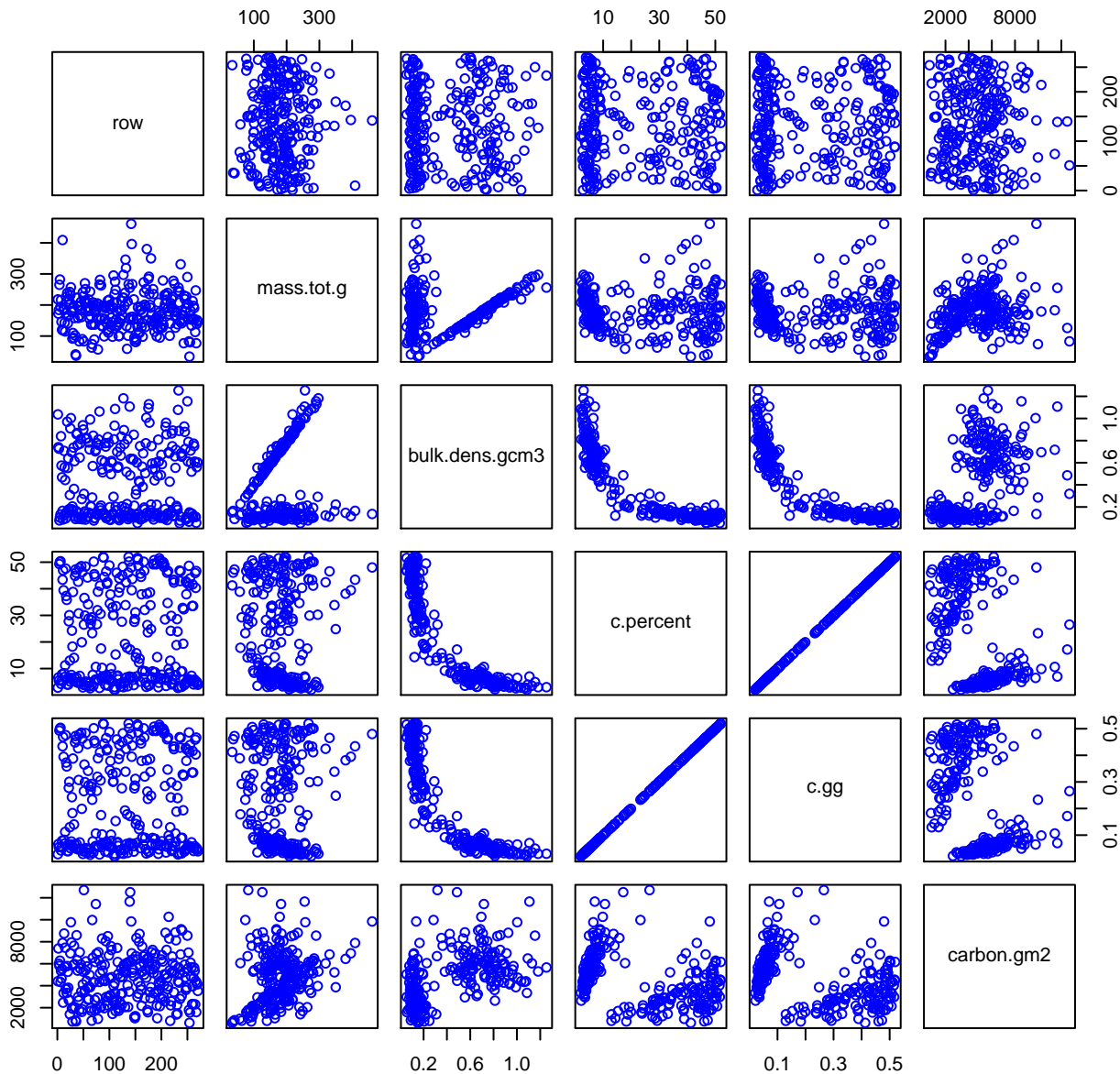
HF271-07 Plot 1



HF271-07 Plot 2



HF271-07 Plot 3



HF271-07 Plot 4

