

Harvard Forest Data Archive HF218-01

Data File:

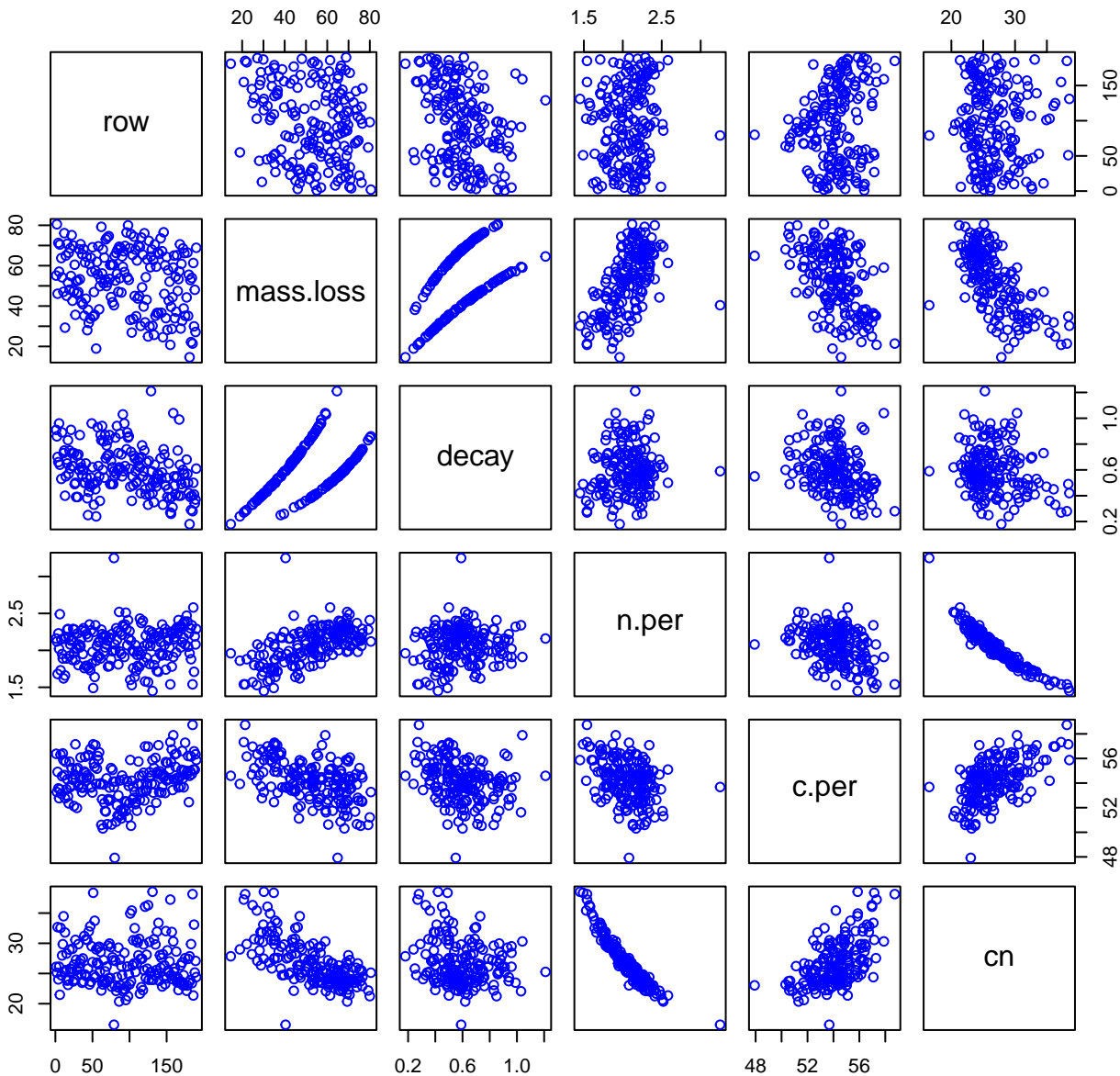
Name = hf218-01-litter.csv
Description = litter decomposition
Rows = 190 Columns = 26
MD5 checksum = ab34b4618f3b85f32bb6d5c57b4dd99c

Variables:

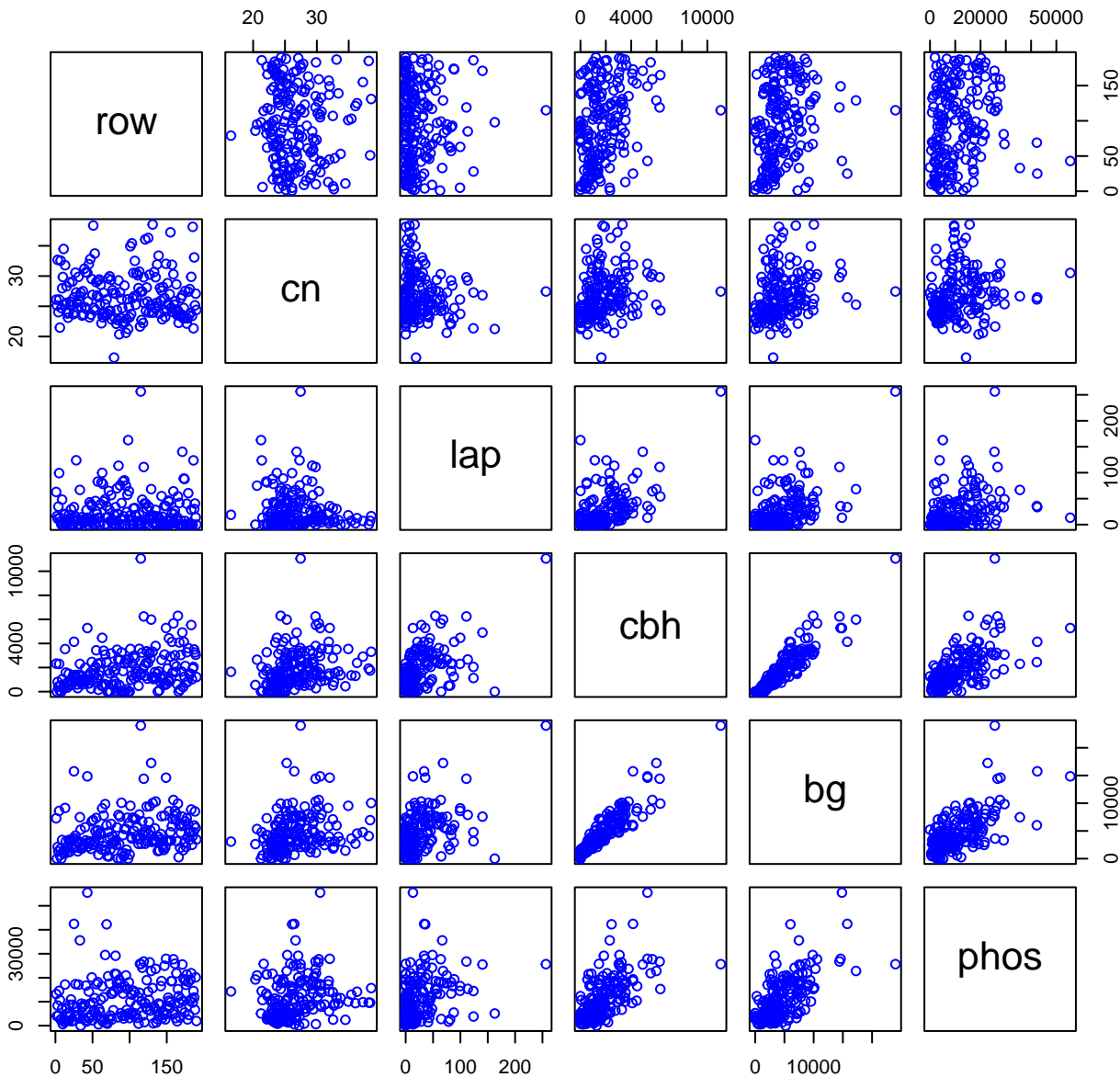
start.date = date that litterbag was harvested from the field
harvest.date = date that litterbag was harvested from the field
days = number of days that litterbag was out in the field
decomposing (number)
moist = percentage moisture in litter at harvest date
(dimensionless)
mass.loss = percentage mass loss over the period (DAYS) that bag was
out in the field (number)
decay = decay rate (k) calculated based on first order exponential
decay function ($y = e^{-kt}$), where y is percentage mass remaining at a
time point, and t is time in years since decomposition start.
(dimensionless)
n.per = percentage nitrogen in litter at harvest (dimensionless)
c.per = percentage carbon in litter at harvest (dimensionless)
cn = carbon to nitrogen ratio in litter at harvest (dimensionless)
lap = leucine aminopeptidase activity measured in litter at harvest
(nanomolePerGramPerHour)
cbb = cellobiohydrolase activity measured in litter at harvest
(nanomolePerGramPerHour)
bg = β -glucosidase activity measured in litter at harvest
(nanomolePerGramPerHour)
phos = acid phosphatase activity measured in litter at harvest
(nanomolePerGramPerHour)
nag = N-acetyl- β -glucosaminidase activity measured in litter at
harvest (nanomolePerGramPerHour)
ox1 = phenol oxidase activity measured in litter at harvest using
L-DOPA as substrate (micromolePerGramPerHour)
ox2 = phenol oxidase activity measured in litter at harvest using
ABTS as substrate (micromolePerGramPerHour)
per1 = gross peroxidases activity measured in litter at harvest
using (L-DOPA+ H2O2 as substrate (micromolePerGramPerHour)
per2 = peroxidase activity measured in litter at harvest using TMB +
H2O2 as substrate (micromolePerGramPerHour)
adf = acid Detergent Fiber concentration in litter at harvest
(dimensionless)
lignin = lignin concentration in litter at harvest (dimensionless)
cellulose = cellulose concentration in litter at harvest
(dimensionless)

Variable	Min	Median	Mean	Max	NAs
start.date	2010-11-24	2010-11-24	2010-11-30	2010-12-07	0
harvest.date	2011-10-10	2012-04-17	2012-04-20	2012-11-06	0
days	314.000	506.500	506.500	699.000	0
moist	4.080	57.525	53.427	80.180	0
mass.loss	14.650	54.300	53.112	80.510	5
decay	0.180	0.580	0.597	1.210	5
n.per	1.450	2.080	2.069	3.250	1
c.per	47.920	54.290	54.180	58.730	1
cn	16.520	25.790	26.607	38.530	1
lap	0.000	12.910	25.685	256.380	0
cbh	0.000	1421.115	1789.209	11055.790	0
bg	0.000	3619.995	4620.298	24006.300	0
phos	0.000	8751.680	11010.211	55503.630	1
nag	245.490	1321.850	1812.490	10841.660	0
ox1	0.000	9.435	10.616	51.570	0
ox2	0.000	34.750	45.995	268.980	3
per1	0.000	12.750	15.128	93.690	0
per2	0.000	37.055	43.310	197.740	0
adf	46.700	51.600	52.372	60.100	165
lignin	27.170	33.410	32.937	38.200	165
cellulose	14.960	19.940	19.435	22.630	165

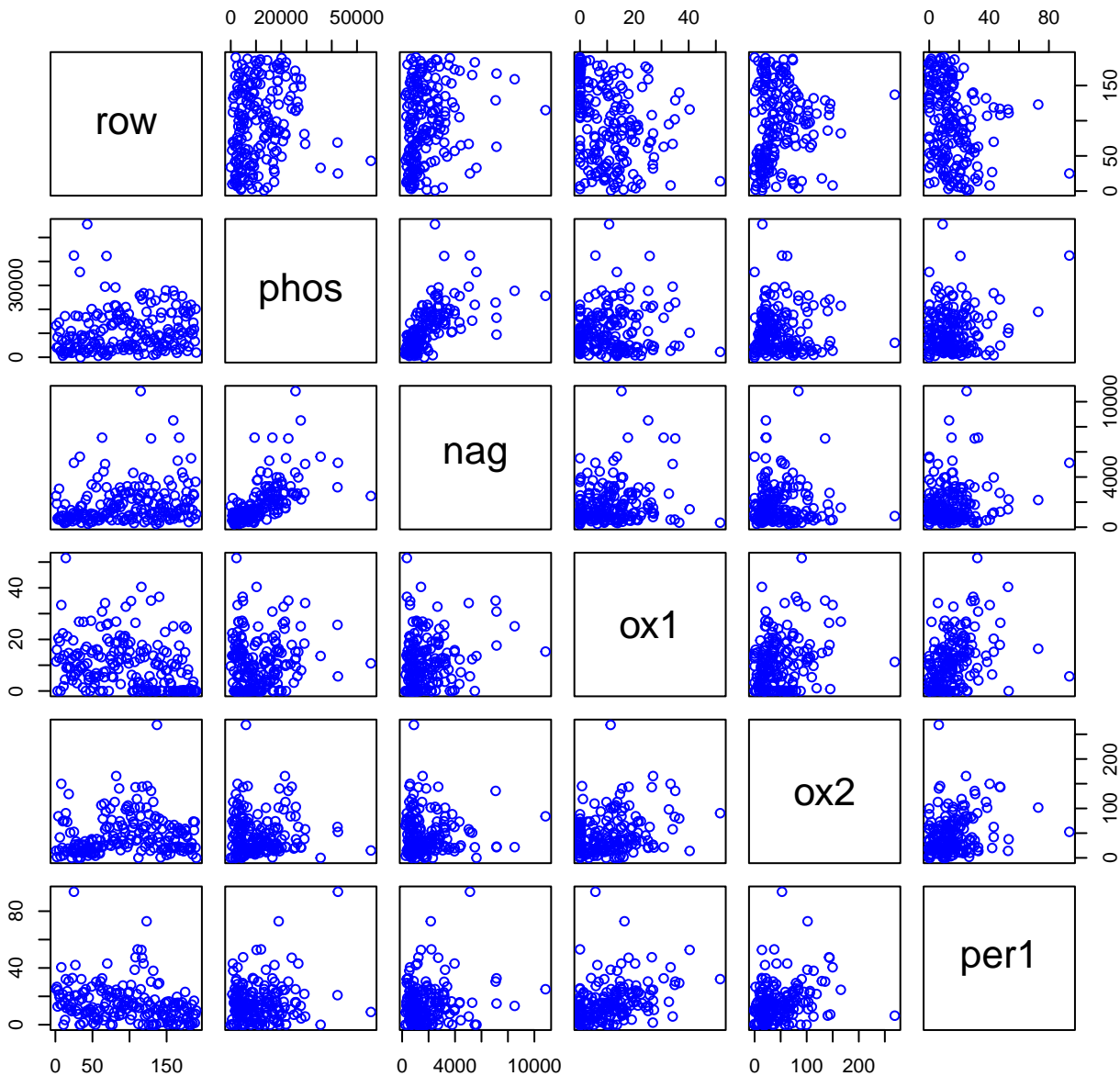
HF218-01 Plot 2



HF218-01 Plot 3



HF218-01 Plot 4



HF218-01 Plot 5

