

Harvard Forest Data Archive HF297-01

Data File:

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Description = pine site data  
Rows = 710 Columns = 50  
MD5 checksum = 5a4bcb3ecdb39ceel0aed87d057fd4cf

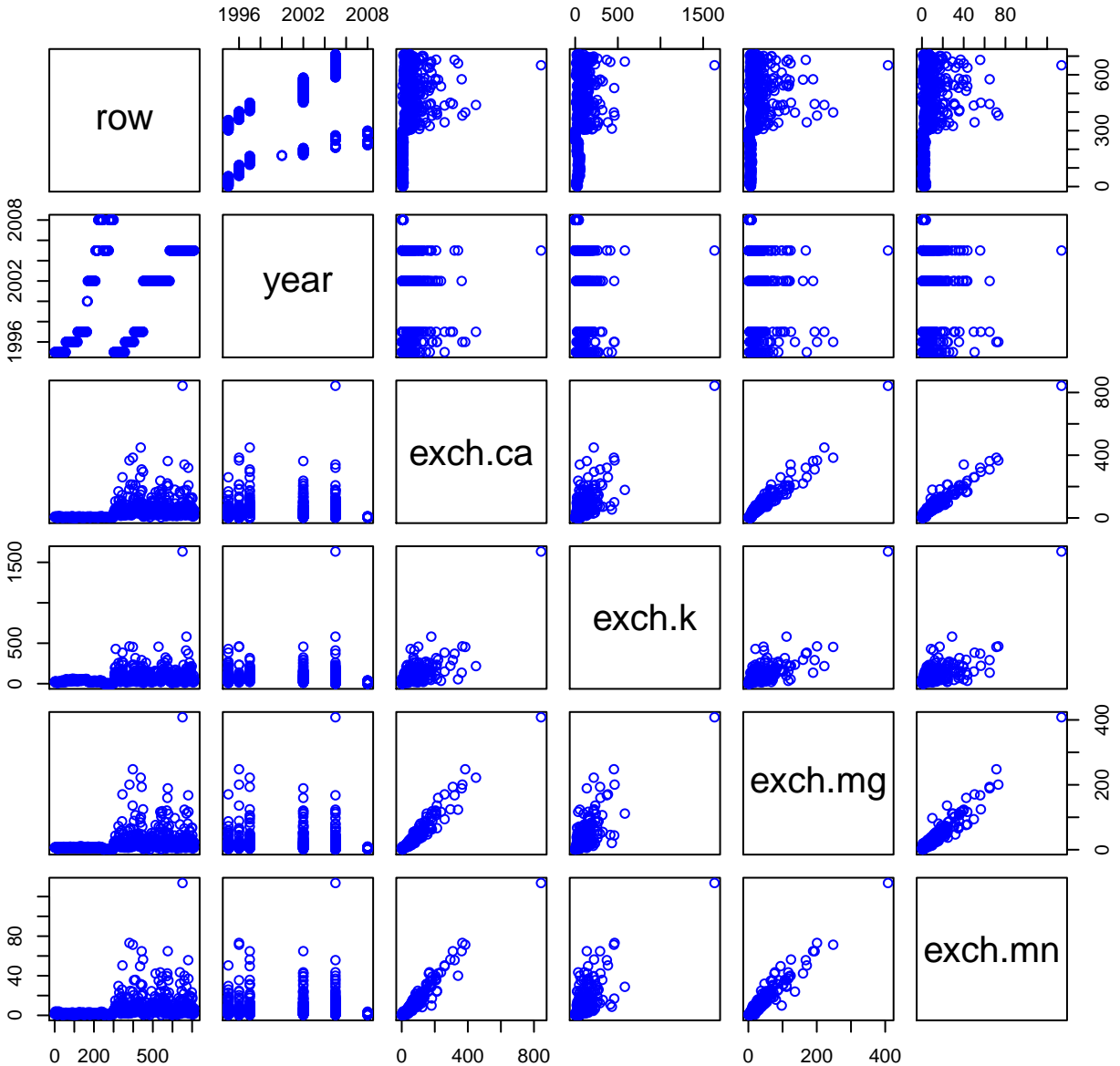
Variables:

year = year of sample collection  
exch.ca = five percent PCA soluble Ca, by ICP (micromolePerGram)  
exch.k = five percent PCA soluble K, by ICP (micromolePerGram)  
exch.mg = five percent PCA soluble Mg, by ICP (micromolePerGram)  
exch.mn = five percent PCA soluble Mn (micromolePerGram)  
exch.p = five percent PCA soluble P, by ICP (micromolePerGram)  
exch.al = five percent PCA soluble Al, by ICP (micromolePerGram)  
exch.fe = five percent PCA soluble Fe, by ICP (micromolePerGram)  
exch.na = five percent PCA soluble Na, by ICP (micromolePerGram)  
exch.zn = five percent PCA soluble Zn, by ICP (micromolePerGram)  
tot.chloro = total chlorophyll by spectrophotometer  
(microgramPerGram)  
chloro.a = total chlorophyll by spectrophotometer (microgramPerGram)  
chloro.b = total chlorophyll by spectrophotometer (microgramPerGram)  
chloro.a.b = total chlorophyll by spectrophotometer  
(microgramPerGram)  
sol.proteins = soluble proteins by spectrophotometer  
(milligramPerGram)  
put = five percent PCA soluble putrescine by HPLC (nanomolePerGram)  
spd = five percent PCA soluble spermidine by HPLC (nanomolePerGram)  
spm = five percent PCA soluble spermine by HPLC (nanomolePerGram)  
spd.put = ratio of spermidine to putrescine (dimensionless)  
asp = five percent PCA soluble aspartic acid by HPLC  
(nanomolePerGram)  
glu = five percent PCA soluble glutamic acid by HPLC  
(nanomolePerGram)  
gln = five percent PCA soluble glutamine by HPLC (nanomolePerGram)  
ser = five percent PCA soluble serine by HPLC (nanomolePerGram)  
arg = five percent PCA soluble arginine by HPLC (nanomolePerGram)  
thr = five percent PCA soluble threonine by HPLC (nanomolePerGram)  
gly = five percent PCA soluble glycine by HPLC (nanomolePerGram)  
arg.thr = five percent PCA soluble arginine+threonine by HPLC  
(system was unable to  
separate these two amino acids) (nanomolePerGram)  
arg.thr.gly = five percent PCA soluble arginine+threonine+glycine by  
HPLC (system was  
unable to separate these three amino acids)  
(nanomolePerGram)  
ala = five percent PCA soluble alanine by HPLC (nanomolePerGram)  
pro = five percent PCA soluble proline by HPLC (nanomolePerGram)  
gaba = five percent PCA soluble g-aminobutyric acid by HPLC  
(nanomolePerGram)

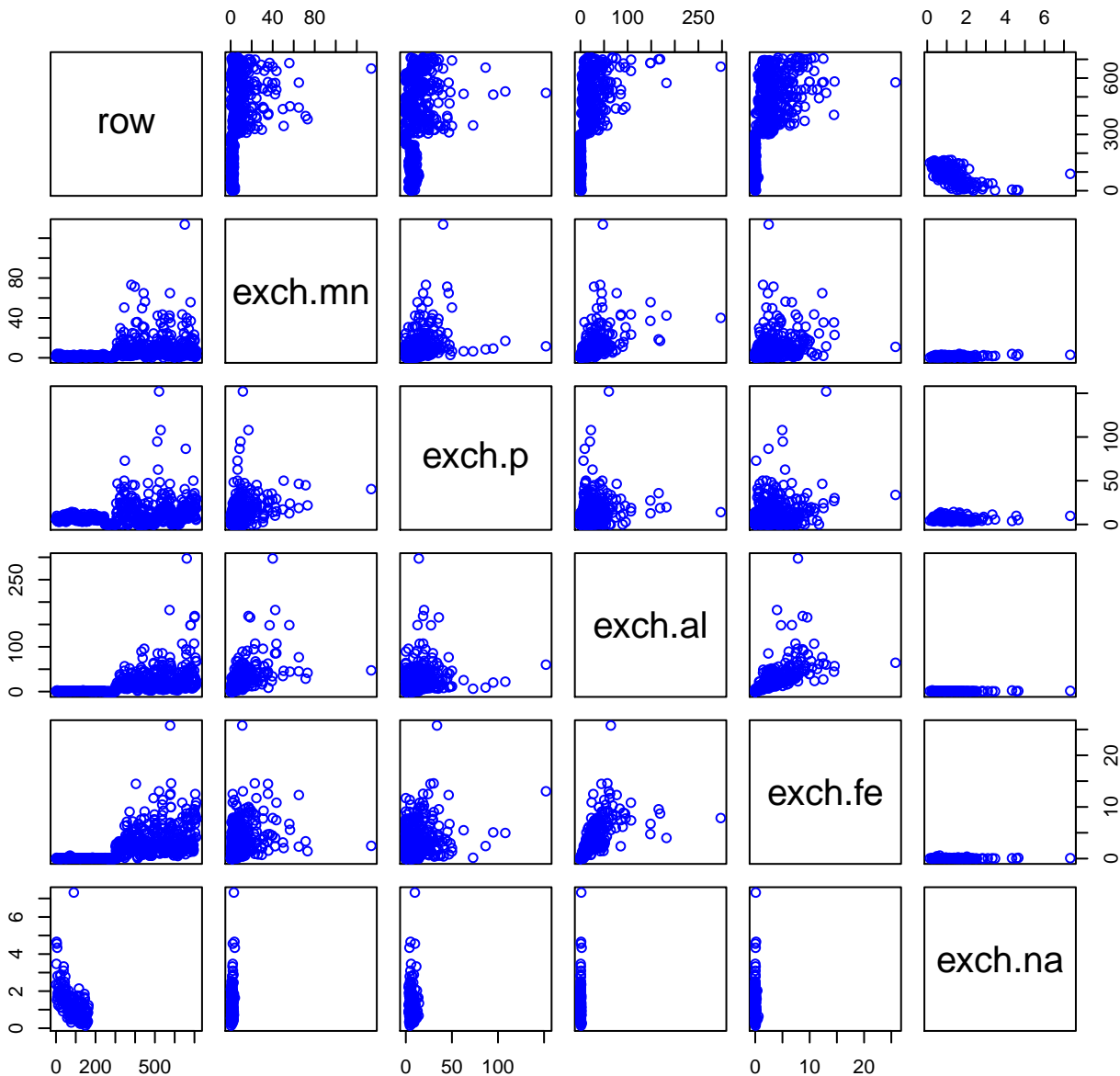
val = five percent PCA soluble valine by HPLC (nanomolePerGram)  
met = five percent PCA soluble methionine (nanomolePerGram)  
ile = five percent PCA soluble isoleucine by HPLC (nanomolePerGram)  
leu = five percent PCA soluble leucine by HPLC (nanomolePerGram)  
trp = five percent PCA soluble tryptophan by HPLC (nanomolePerGram)  
phe = five percent PCA soluble phenylalanine by HPLC  
(nanomolePerGram)  
ile.leu = five percent PCA soluble isoleucine+leucine by HPLC  
(system was unable to  
separate these two amino acids) (nanomolePerGram)  
leu.trp = five percent PCA soluble isoleucine+tryptophan by HPLC  
(system was unable  
to separate these two amino acids) (nanomolePerGram)  
trp.phe = five percent PCA soluble tryptophan+phenylalanine by HPLC  
(system was  
unable to separate these two amino acids) (nanomolePerGram)  
cys = five percent PCA soluble cystine by HPLC (nanomolePerGram)  
orn = five percent PCA soluble ornithine by HPLC (nanomolePerGram)  
lys = five percent PCA soluble lysine by HPLC (nanomolePerGram)  
his = five percent PCA soluble histidine by HPLC (nanomolePerGram)

Variable	Min	Median	Mean	Max	NAs
year	1995.000	2002.000	2000.441	2008.000	0
exch.ca	0.560	23.325	41.588	842.860	16
exch.k	1.210	43.530	66.906	1633.400	11
exch.mg	1.220	10.385	20.641	408.150	12
exch.mn	0.280	2.930	6.697	133.710	17
exch.p	-0.160	7.000	10.223	152.060	10
exch.al	0.007	8.136	15.384	297.294	13
exch.fe	0.000	1.164	2.071	25.765	12
exch.na	0.140	1.240	1.372	7.320	548
exch.zn	0.000	1.178	1.504	22.557	308
tot.chloro	285.650	760.000	790.732	1516.280	628
chloro.a	208.190	555.060	575.432	1023.420	628
chloro.b	77.460	201.855	215.301	492.860	628
chloro.a.b	1.996	2.736	2.746	3.957	628
sol.proteins	0.040	0.220	0.288	1.210	635
put	1.590	131.770	153.472	623.690	411
spd	0.360	74.105	77.671	224.710	412
spm	0.000	15.445	17.451	75.370	412
spd.put	0.034	0.487	0.583	1.903	412
asp	19.940	69.445	80.813	262.540	672
glu	25.650	284.230	781.890	3779.180	587
gln	0.000	170.990	254.261	1830.100	589
ser	0.000	43.720	48.394	233.180	585
arg	0.000	457.730	496.068	1578.930	651
thr	0.000	19.130	19.900	102.520	649
gly	0.000	5.025	17.004	206.250	590
arg.thr	0.000	468.550	559.795	3939.470	589
arg.thr.gly					710
ala	2.600	27.980	125.471	442.460	623
pro	0.000	47.430	50.367	216.850	586
gaba	3.970	86.660	121.867	549.200	587
val	0.000	7.340	12.623	50.770	585
met	0.000	0.000	3.291	24.360	589
ile	10.220	14.120	15.607	27.200	687
leu	8.730	12.210	12.143	15.290	687
trp	0.000	19.790	35.768	427.000	604
phe	0.000	11.450	15.934	57.270	597
ile.leu	43.630	97.390	109.905	446.240	688
leu.trp					710
trp.phe					710
cys	0.000	0.000	0.000	0.000	585
orn	0.000	0.000	3.016	54.490	587
lys	0.000	9.290	10.990	90.930	586
his	0.000	0.000	0.114	14.160	586

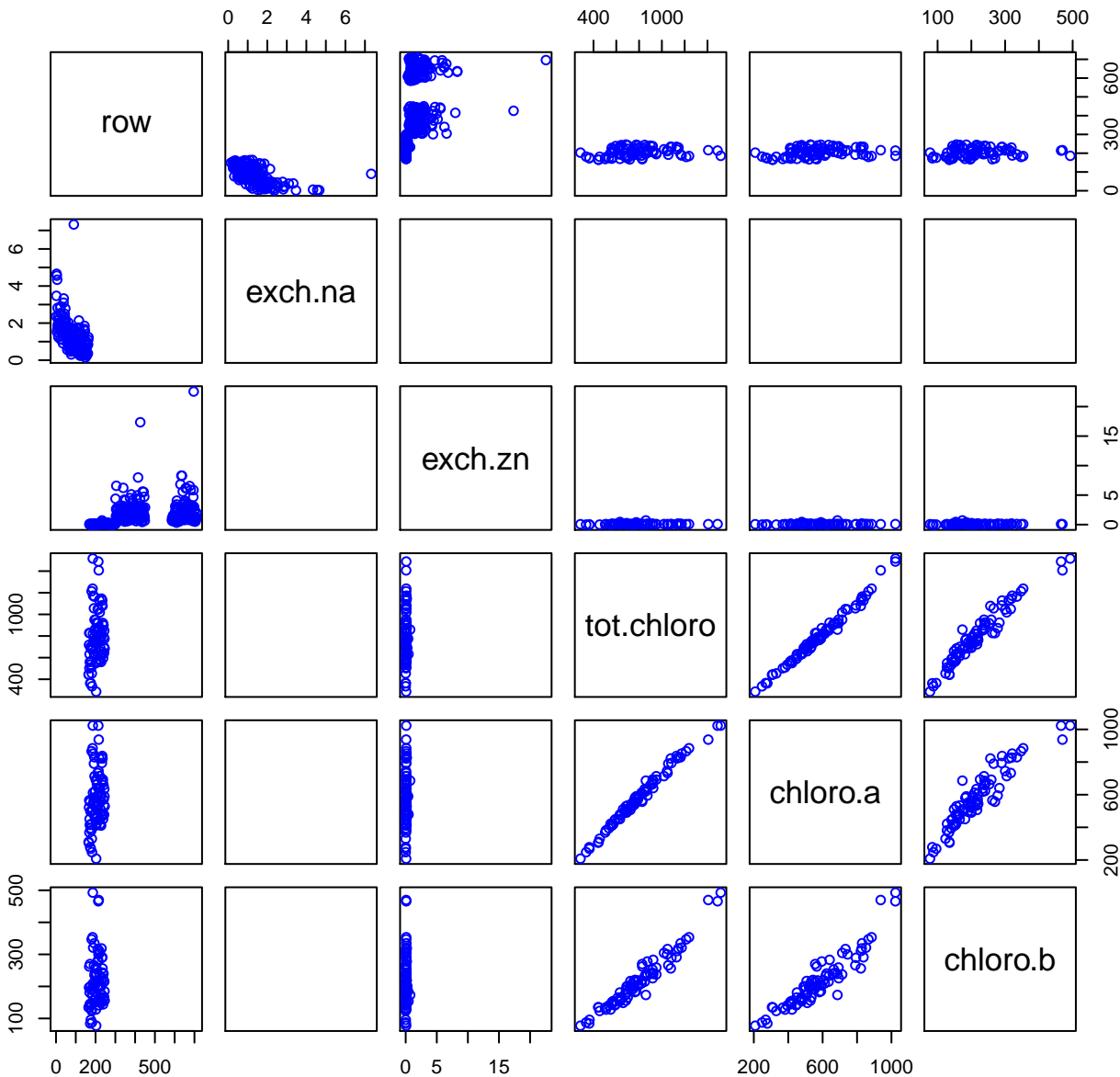
# HF297-01 Plot 1



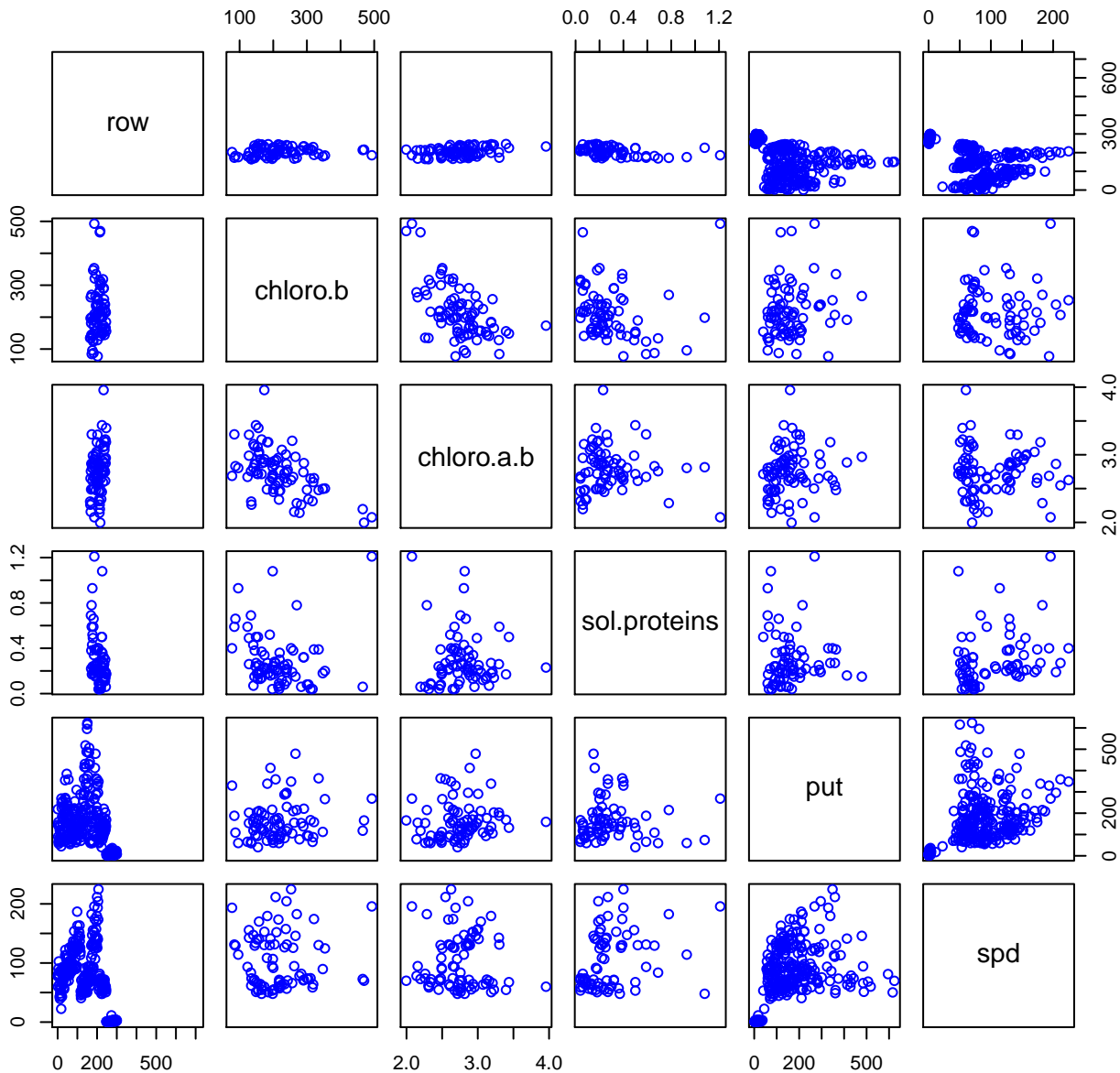
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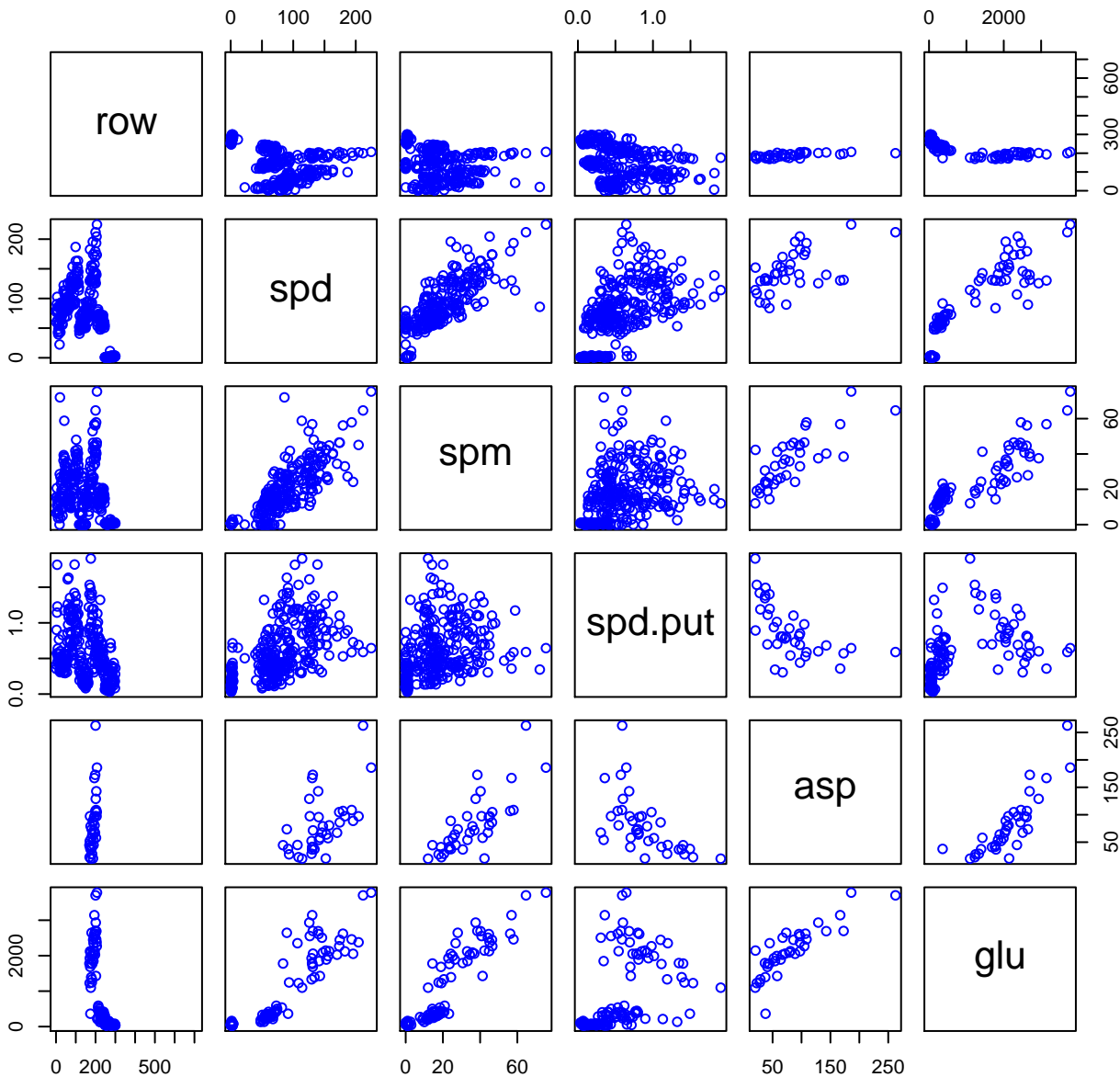
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# HF297-01 Plot 4

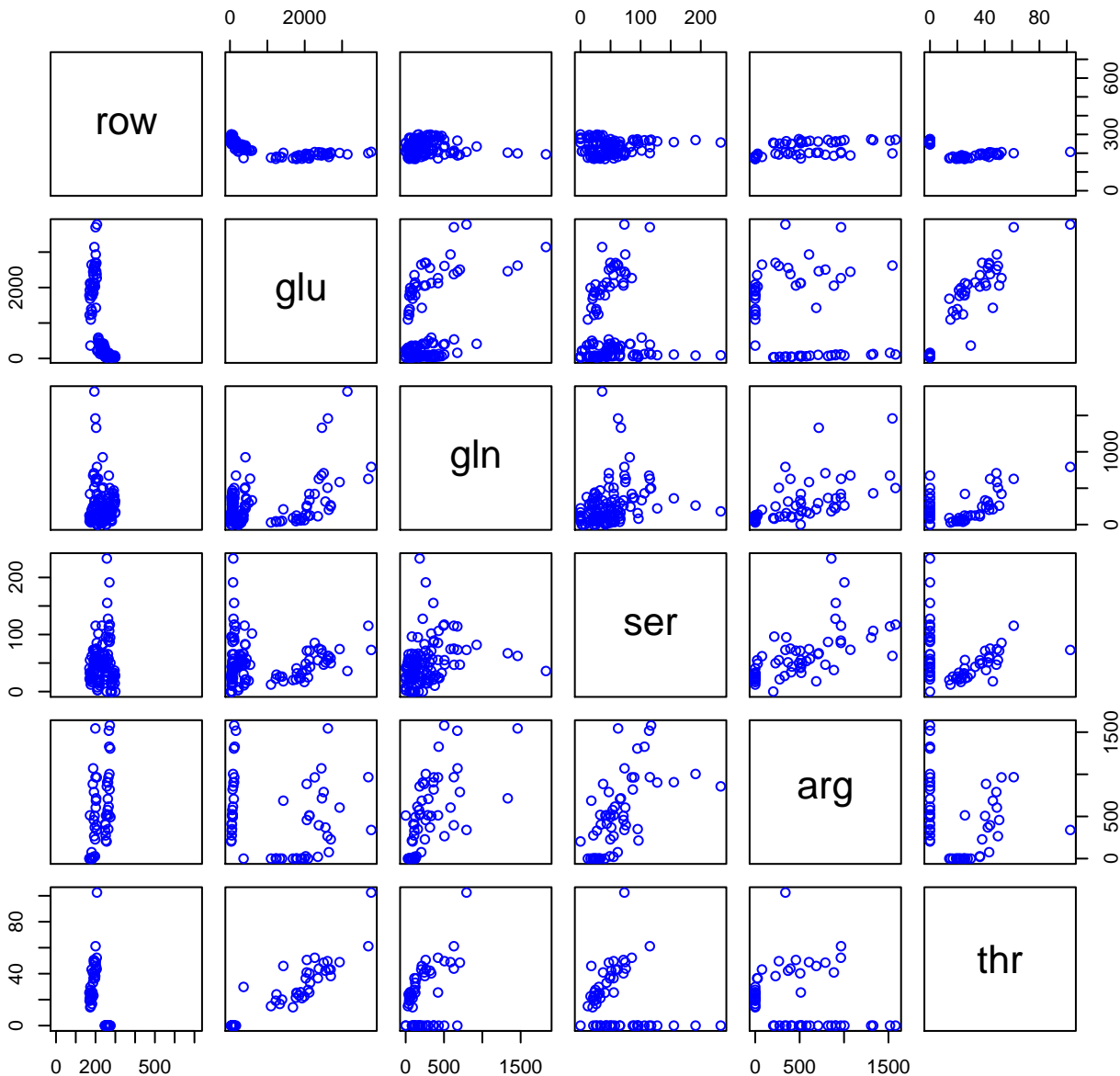


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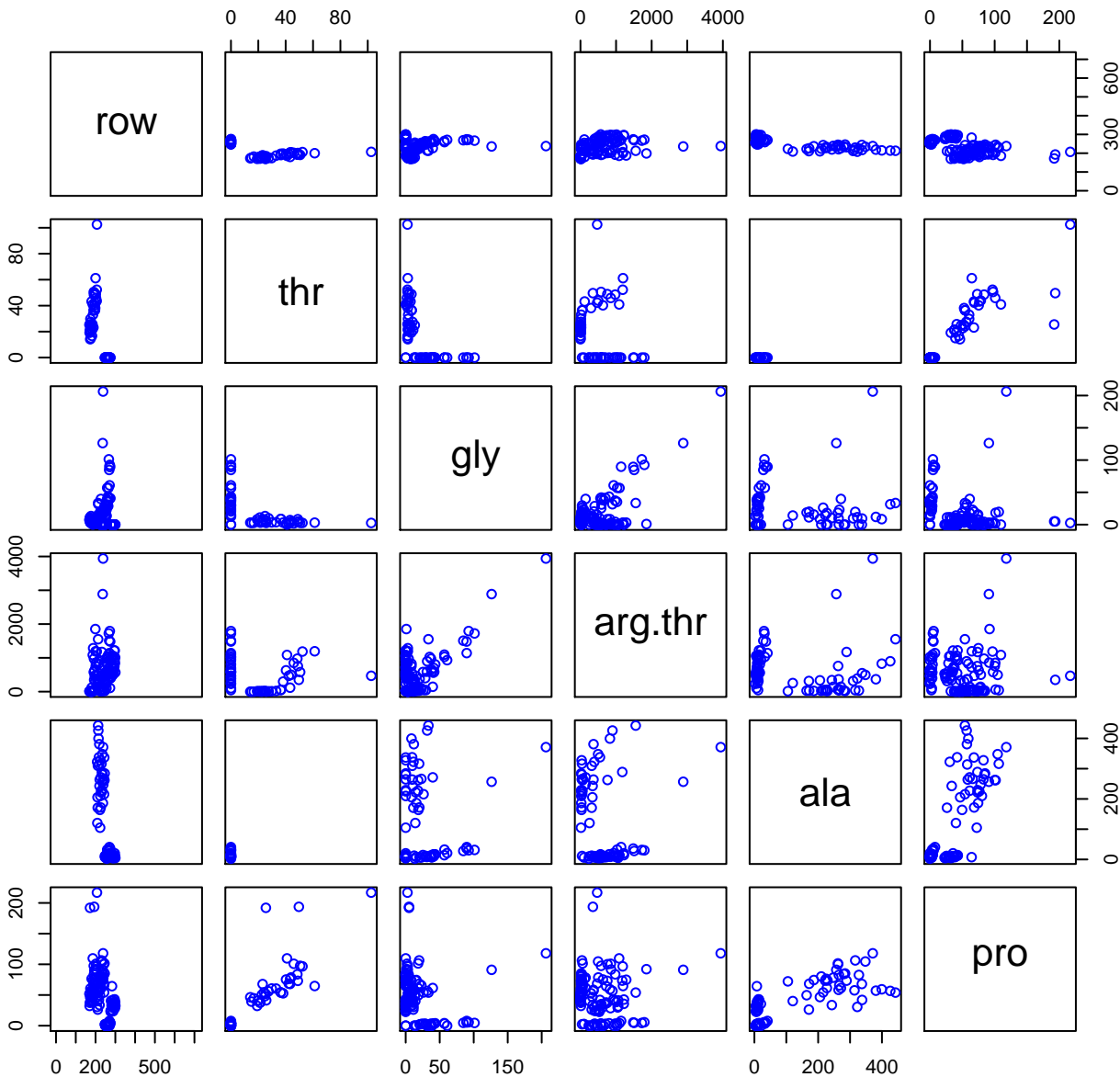




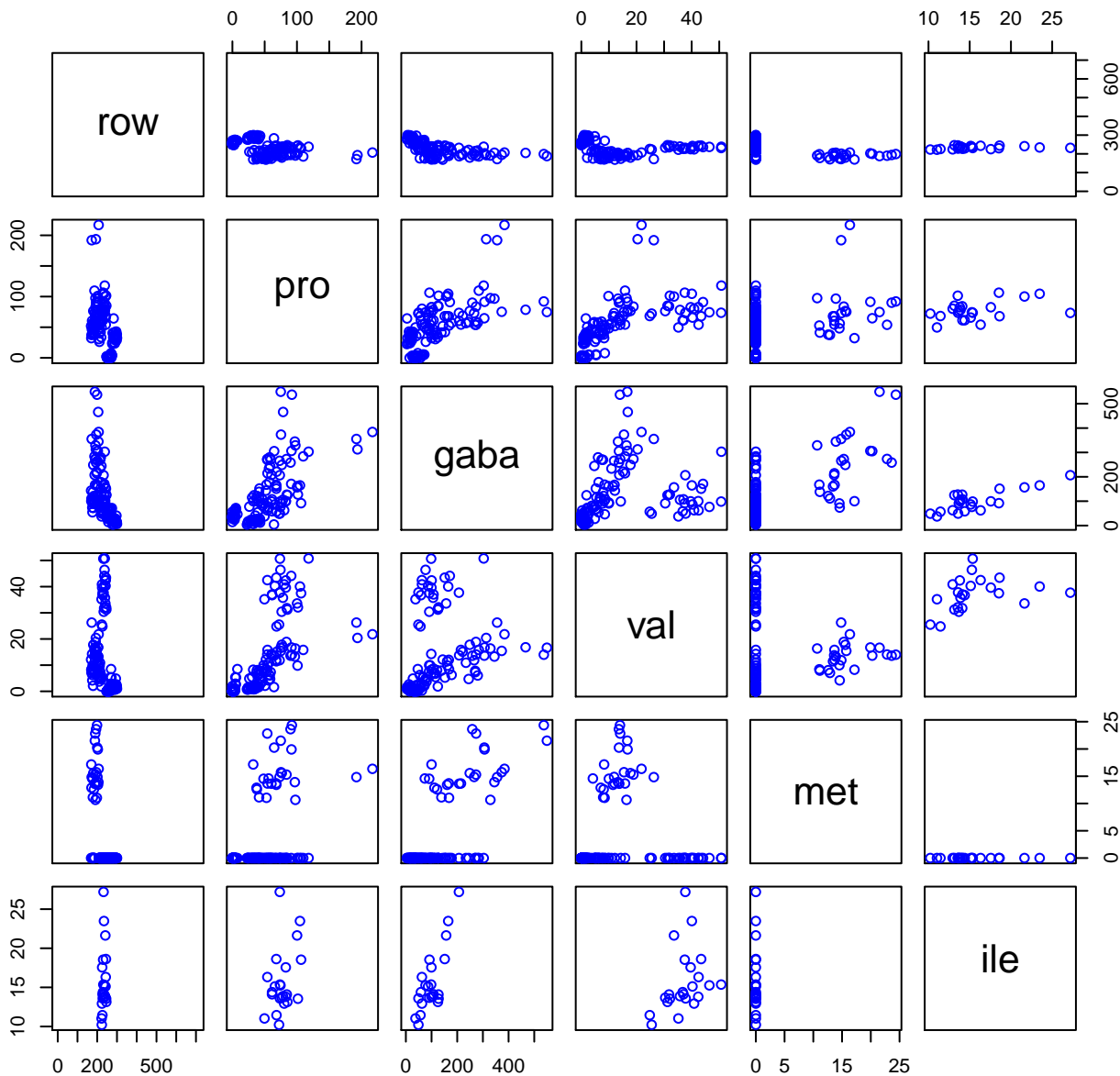
# HF297-01 Plot 6



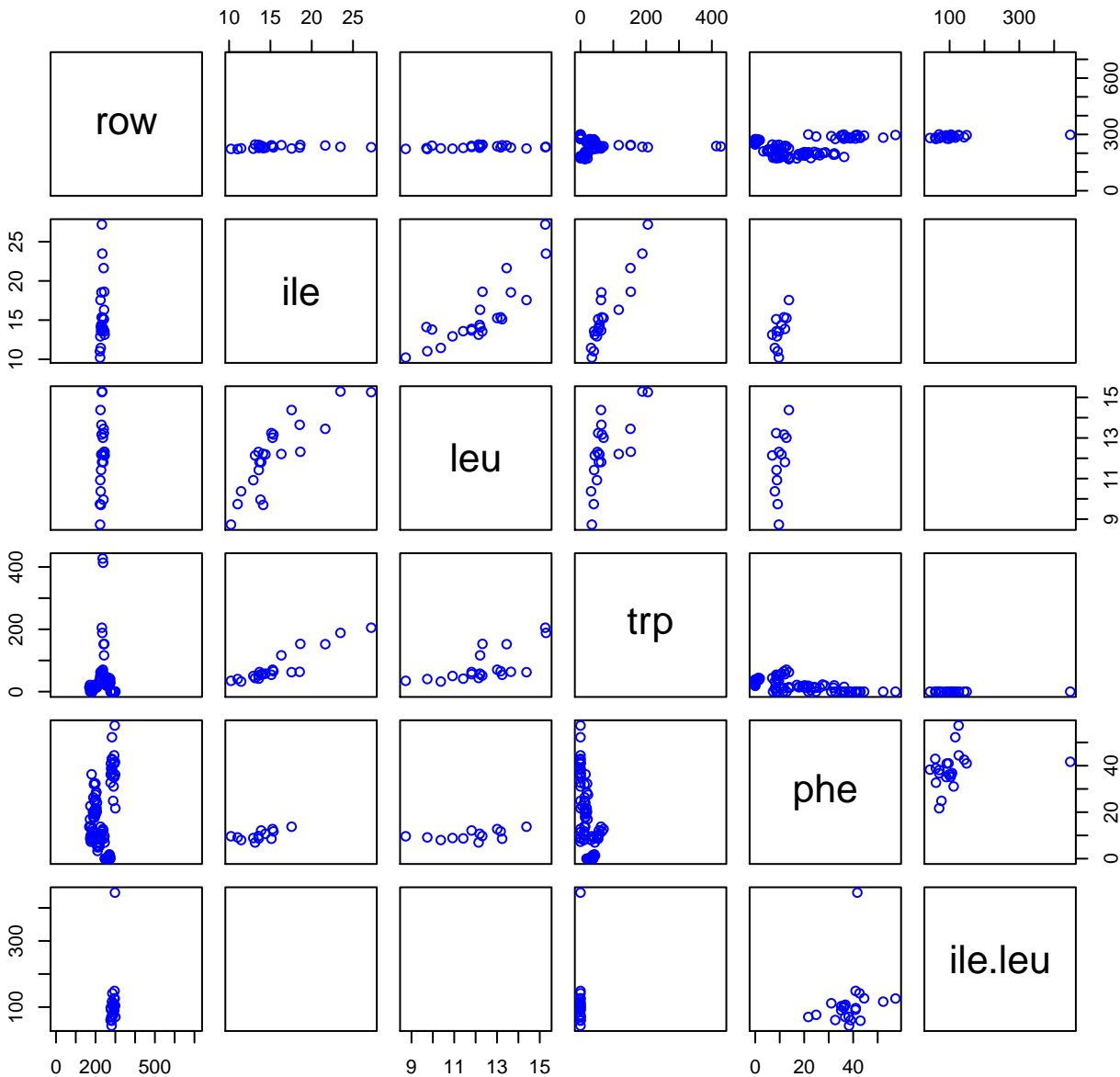
# HF297-01 Plot 7



# HF297-01 Plot 8



# HF297-01 Plot 9



# HF297-01 Plot 10

