Harvard Forest Data Archive HF094-01

Data File:

Name = hf094-01-midge.csv
Description = midge data
Rows = 12 Columns = 15
MD5 checksum = 5612ddca5479f9eec6b5a764dcf083c8

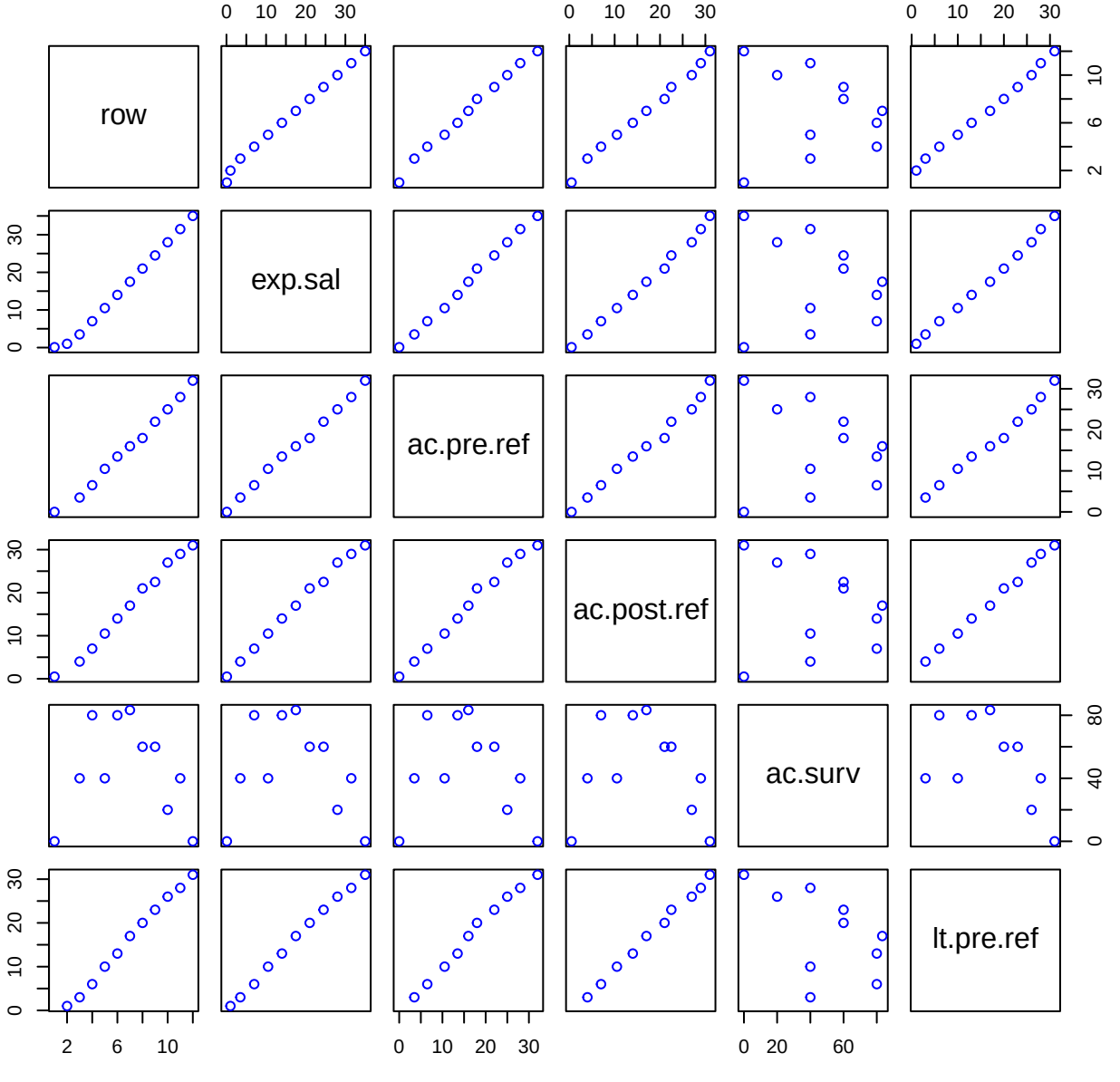
Variables:

exp.sal = experimental salinity of artificial seawater prepared for experiments (parts per thousand, g/liter) (gramsPerLiter)
ac.pre.ref = salinity of artificial seawater solutions as determined by refractometer reading at start of acute experiment (5 larvae held at each salinity for 72 hours at 4 degrees C) (parts per thousand, g/liter) (gramsPerLiter)
ac.post.ref = salinity of artificial seawater solutions as determined by refractometer reading end of acute experiment (5 larvae held at each salinity for 72 hours at 4 degrees C) (parts per thousand, g/liter). (a), (b), (c) = experimental jar a, b, or c (gramsPerLiter)
ac.surv = percent of 5 larvae surviving at experimental salinities after 72 hours at 4 degrees C (percent) (dimensionless)
lt.pre.ref = salinity of artificial seawater solutions as determined by refractometer reading at beginning of long-term survival experiment (3 replicates per salinity, 8 larvae/replicate except for 7 ppt (c), which had 9 larvae, held at 7 degrees C) (parts per thousand, g/liter). (Ac) = acute, 72-hour experiment; (LT) = long-term survival at 7 C; (Em) = emergence at ambient temperature. (gramsPerLiter)
lt.cond = specific conductance of artificial seawater solutions at the beginning of the long-term survival experiment (uS/cm at 25 C) (microsiemensPerCentimeter)
lt.surv.a = percent of larvae surviving at experimental salinities after 25 days at 7 degrees C (3 replicates per salinity, 8 larvae/replicate except for 7 ppt (c), which had 9 larvae) (percent survival). (a), (b), (c) = experimental jar a, b, or c for each experimental salinity (dimensionless)
lt.surv.b = percent of larvae surviving at experimental salinities after 25 days at 7 degrees C (3 replicates per salinity, 8 larvae/replicate except for 7 ppt (c), which had 9 larvae) (percent survival). (a), (b), (c) = experimental jar a, b, or c for each experimental salinity (dimensionless)
lt.surv.c = percent of larvae surviving at experimental salinities after 25 days at 7 degrees C (3 replicates per salinity, 8 larvae/replicate except for 7 ppt (c), which had 9 larvae) (percent survival). (a), (b), (c) = experimental jar a, b, or c for each experimental salinity (dimensionless)
lt.post.ref.a = salinity of artificial seawater solutions in long-term survival experiment, as determined by refractometer reading, in each of three jars(x) for each salinity treatment, after 25 days at 7 degrees C (parts per thousand, g/liter). (a), (b), (c) = experimental jar a, b, or c (gramsPerLiter)

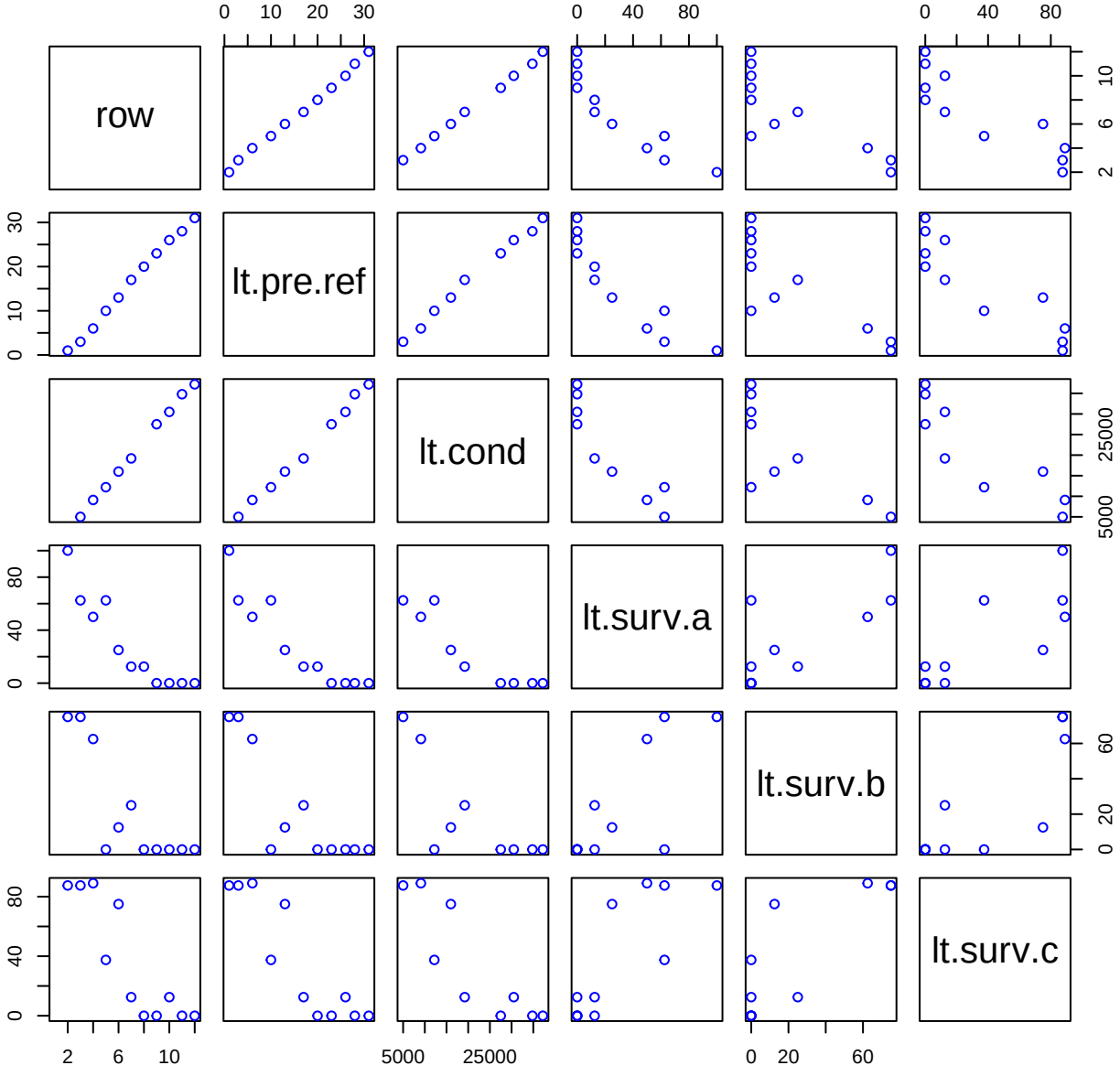
lt.post.ref.b = salinity of artificial seawater solutions in long−term survival experiment, as determined by refractometer reading, in each of three jars(x) for each salinity treatment, after 25 days at 7 degrees C (parts per thousand, g/liter). (a), (b), (c) = experimental jar a, b, or c (gramsPerLiter)
lt.post.ref.c = salinity of artificial seawater solutions in long−term survival experiment, as determined by refractometer reading, in each of three jars(x) for each salinity treatment, after 25 days at 7 degrees C (parts per thousand, g/liter). (a), (b), (c) = experimental jar a, b, or c (gramsPerLiter)
emerge.a = Percentage of animals held at each salinity in jars a, b, or c that emerged successfully as adults. Larvae were initially held at experimental salinities for 25 days at 7 C, then transferred to ambient temperature and held until all had emerged or died; 3 replicates per salinity, 8 larvae per replicate (except for 7 ppt(c), which had 9 larvae) (percent emergence). (a), (b), (c) = experimental jar a, b, or c. (dimensionless)
emerge.b = Percentage of animals held at each salinity in jars a, b, or c that emerged successfully as adults. Larvae were initially held at experimental salinities for 25 days at 7 C, then transferred to ambient temperature and held until all had emerged or died; 3 replicates per salinity, 8 larvae per replicate (except for 7 ppt(c), which had 9 larvae) (percent emergence). (a), (b), (c) = experimental jar a, b, or c. (dimensionless)
emerge.c = Percentage of animals held at each salinity in jars a, b, or c that emerged successfully as adults. Larvae were initially held at experimental salinities for 25 days at 7 C, then transferred to ambient temperature and held until all had emerged or died; 3 replicates per salinity, 8 larvae per replicate (except for 7 ppt(c), which had 9 larvae) (percent emergence). (a), (b), (c) = experimental jar a, b, or c. (dimensionless)

Variable	Min	Median	Mean	Max	NAs
exp.sal	0.100	15.750	16.133	35.000	0
ac.pre.ref	0.000	16.000	15.909	32.000	1
ac.post.ref	0.500	17.000	16.682	31.000	1
ac.surv	0.000	40.000	45.755	83.300	1
lt.pre.ref	1.000	17.000	16.182	31.000	1
lt.cond	5000.000	19200.000	21277.778	37200.000	3
lt.surv.a	0.000	12.500	29.545	100.000	1
lt.surv.b	0.000	0.000	22.727	75.000	1
lt.surv.c	0.000	12.500	36.500	89.000	1
lt.post.ref.	1.000	17.000	16.909	32.000	1
lt.post.ref.	3.500	17.500	17.455	32.000	1
lt.post.ref.	2.000	16.000	17.500	32.000	1
emerge.a	0.000	0.000	13.636	62.500	1
emerge.b	0.000	0.000	9.091	62.500	1
emerge.c	0.000	0.000	15.909	75.000	1

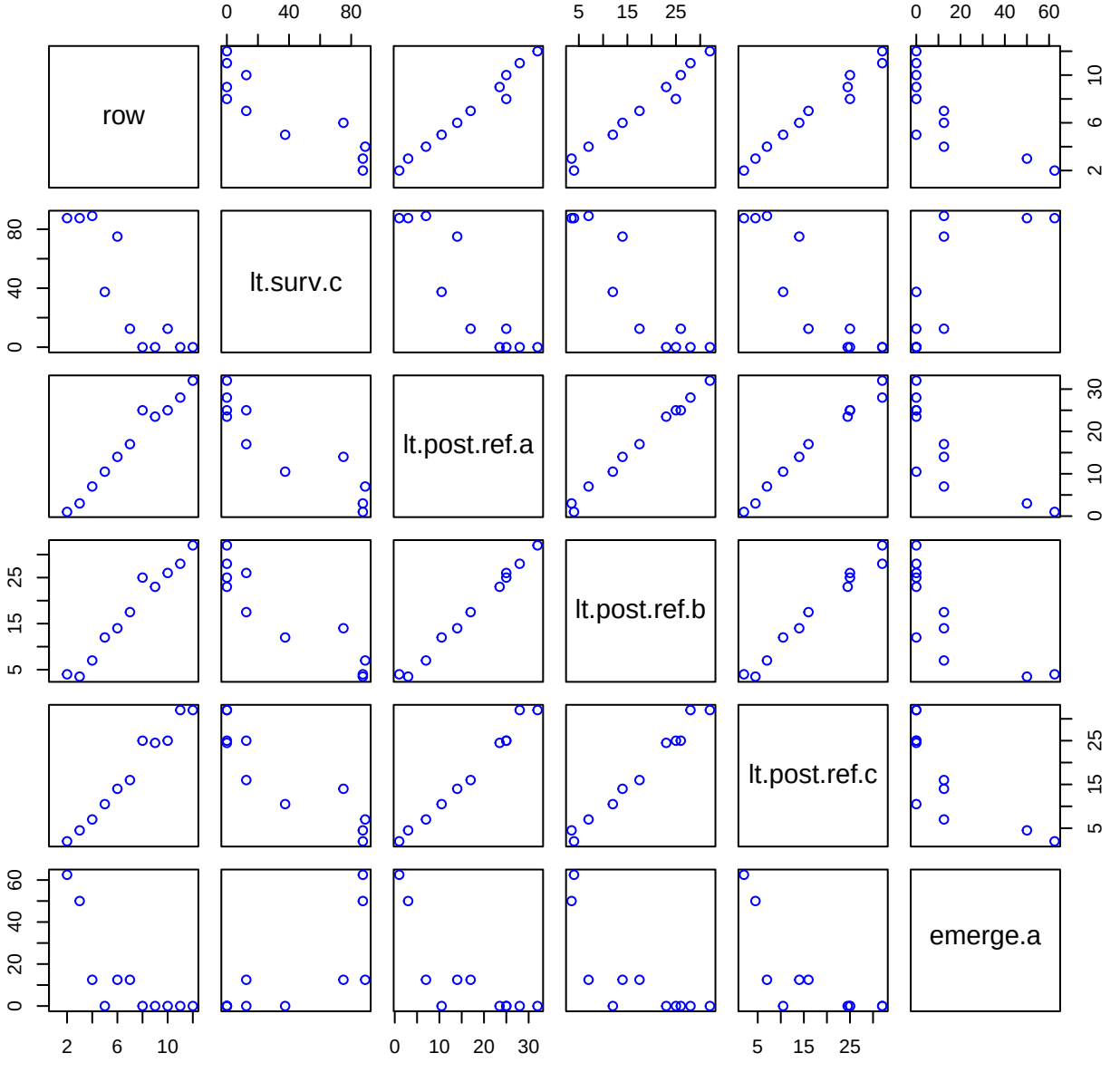
HF094−01 Plot 1



HF094−01 Plot 2



HF094−01 Plot 3



HF094−01 Plot 4