Module 3 Assignment 3

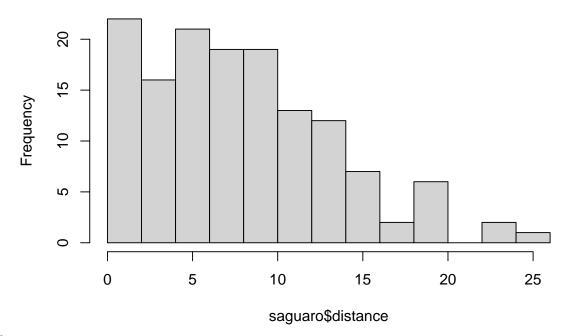
Ellen Bledsoe

2023-11-14

1.

##		X1.10	length
##	1	1	116.4946
##	2	2	116.4946
##	3	3	116.4946
##	4	4	116.4946
##	5	5	116.4946
##	6	6	116.4946
##	7	7	116.4946
##	8	8	116.4946
##	9	9	116.4946
##	10	10	116.4946

Histogram of saguaro\$distance



2.

3.

[1] 0 4 8 12 16 20 4. ## Warning in formatDistData(saguaro, distCol = "distance", transectNameCol = ## "group", : The transects were converted to a factor ## [0,4] (4,8] (8,12] (12,16] (16,20] ## AB, JA, SK 5 7 1 0 ## AB, SS, ML 7 4 1 ## CB, CC, MZ 2 0 3 3 4 ## EF, LB, YX 5 8 9 0 ## HA, JB, BD, VM 3 4 ## HB, SI, BM 0 1 1 ## JG, AV, MN 2 2 0 ## KH, NT, BS 2 2 2 0 0 ## KT, MRD, BC 3 3 1 ## NL, MS, MM 6 6 5 2 5. ## Data frame representation of unmarkedFrame object. y.1 y.2 y.3 y.4 y.5 ## AB, JA, SK 5 1 ## AB, SS, ML 7 4 4 1 ## CB, CC, MZ 2 3 ## EF, LB, YX 5 8 ## HA, JB, BD, VM 4 3 2 1 ## HB, SI, BM 1 1 4 0 2 ## JG, AV, MN 2 3 3 ## KH, NT, BS 2 2 2 0 0 ## KT, MRD, BC 2 3 3 4 1 ## NL, MS, MM 6 2 7. nPars AIC delta AICwt cumltvWt ## Half Normal 2 196.66 0.00 5.3e-01 0.53 ## Hazard Rate 3 196.93 0.27 4.7e-01 1.00 ## Exponential 2 226.19 29.53 2.1e-07 1.00 ## Uniform 1 226.19 29.53 2.1e-07 1.00 9. ## Backtransformed linear combination(s) of Density estimate(s)

1

Estimate SE LinComb (Intercept)

3.87

47.8 5.46

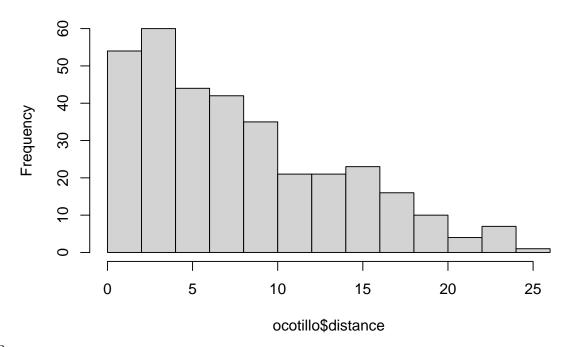
Transformation: exp

##

```
## 0.025 0.975
## lam(Int) 38.16831 59.76423
```

11.

Histogram of ocotillo\$distance



12.

13.

[1] 0 5 10 15 20 25

14.

Warning in formatDistData(ocotillo, distCol = "distance", transectNameCol =
"group", : The transects were converted to a factor

##		[0,5]	(5,10]	(10,15]	(15,20]	(20,25]
##	AB JA SK	10	8	2	0	0
##	AB, SS, ML	17	9	9	7	4
##	CB, CC, MZ	9	17	8	11	5
##	EF, LB, YX	4	8	3	3	0
##	HA, JB, BD, VM	22	16	6	6	0
##	HB, SI, BM	3	7	5	2	0
##	JG, AV, MN	17	6	6	4	0
##	KH, NT, BS	13	15	2	0	0
##	KT, MRD, BC	14	7	2	0	0
##	NL, MS, MM	26	7	8	7	3

15.

```
## Data frame representation of unmarkedFrame object.
##
            y.1 y.2 y.3 y.4 y.5
## AB JA SK
              10 8 2 0
              17 9 9 7
## AB, SS, ML
               9 17 8 11
## CB, CC, MZ
## EF, LB, YX
               4 8 3 3 0
## HA, JB, BD, VM 22 16 6 6 0
## HB, SI, BM
               3 7 5 2 0
## JG, AV, MN
               17 6 6 4 0
## KH, NT, BS
              13 15 2 0 0
            14 7 2 0 0
## KT, MRD, BC
## NL, MS, MM
               26 7 8 7
                             3
17.
## Backtransformed linear combination(s) of Density estimate(s)
##
## Estimate SE LinComb (Intercept)
##
       108 7.6
              4.68
## Transformation: exp
            0.025
                   0.975
## lam(Int) 94.34775 124.2356
```