

Tanzania Market Survey C: Descriptive Analysis

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1) Market Survey A

- For purpose of market type definition and MVA, market survey A provides:
 - Reference database for market locations
 - Summary of number animals sold

3) Market Survey C, part I (Info) :

- For purpose of market type definition and MVA, Market Survey C, part I provides:
 - Number of respondents surveyed at each market (proxy for market size)
 - Number of markets visited by each respondent (summarised as mean per market)
 - Proportion traders at each market

4) Market Survey C, Part II (Activities):

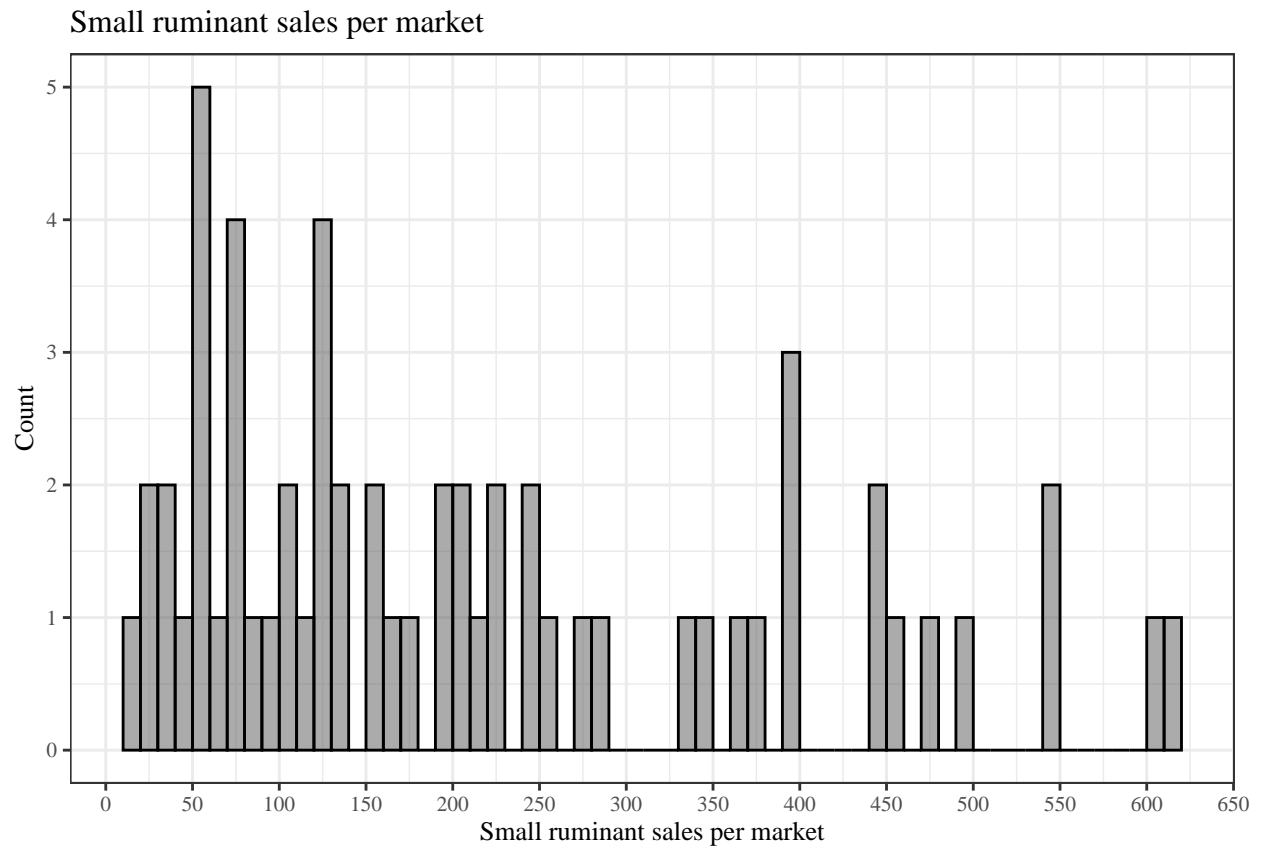
- For purpose of market type definition and MVA, Market Survey C, part II provides:
 - Activity at market for each respondent
 - * *Summarised as proportion respondents undertaking X activity at market*
 - Number of times each respondent visits the market (to buy/sell) each month:
 - * *Summarised as mean visits to the market per month*
 - Origin placetypes for animals sold at the market
 - * *Summarised as proportion of origin placetypes for animals sold at market*
 - Origin transport for animals sold at the market
 - * *Summarised as proportion of origin transport types for animals sold at market*
 - Destination placetypes for animals bought at the market
 - * *Summarised as proportion animals destination placetypes for animals bought at market*
 - Destination transport for animals sold at the market
 - * *Summarised as proportion of destination transport types for animals bought at market*

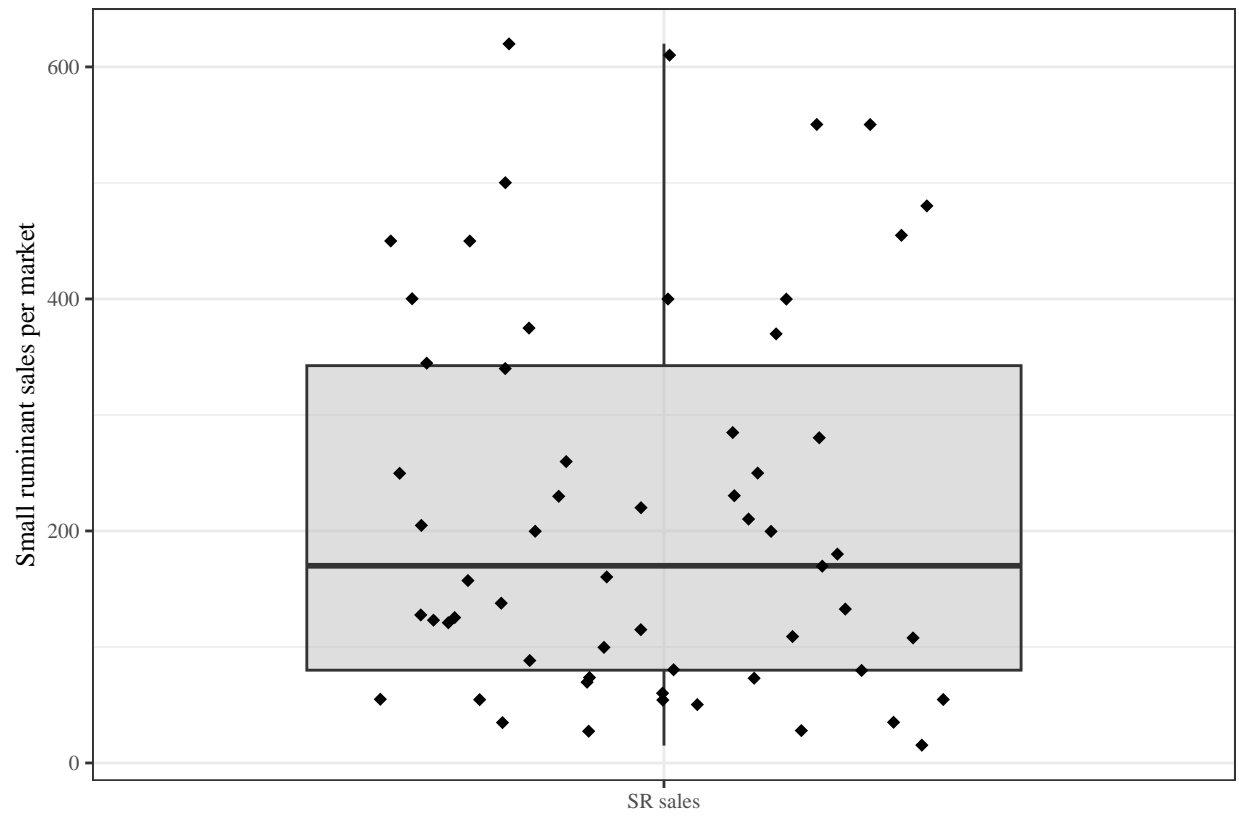
PLOTS

```
## [1] "There are 59 rows of data corresponding to unique markets"
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##  20.00   36.50   45.00   49.88   56.75  109.00     1
```

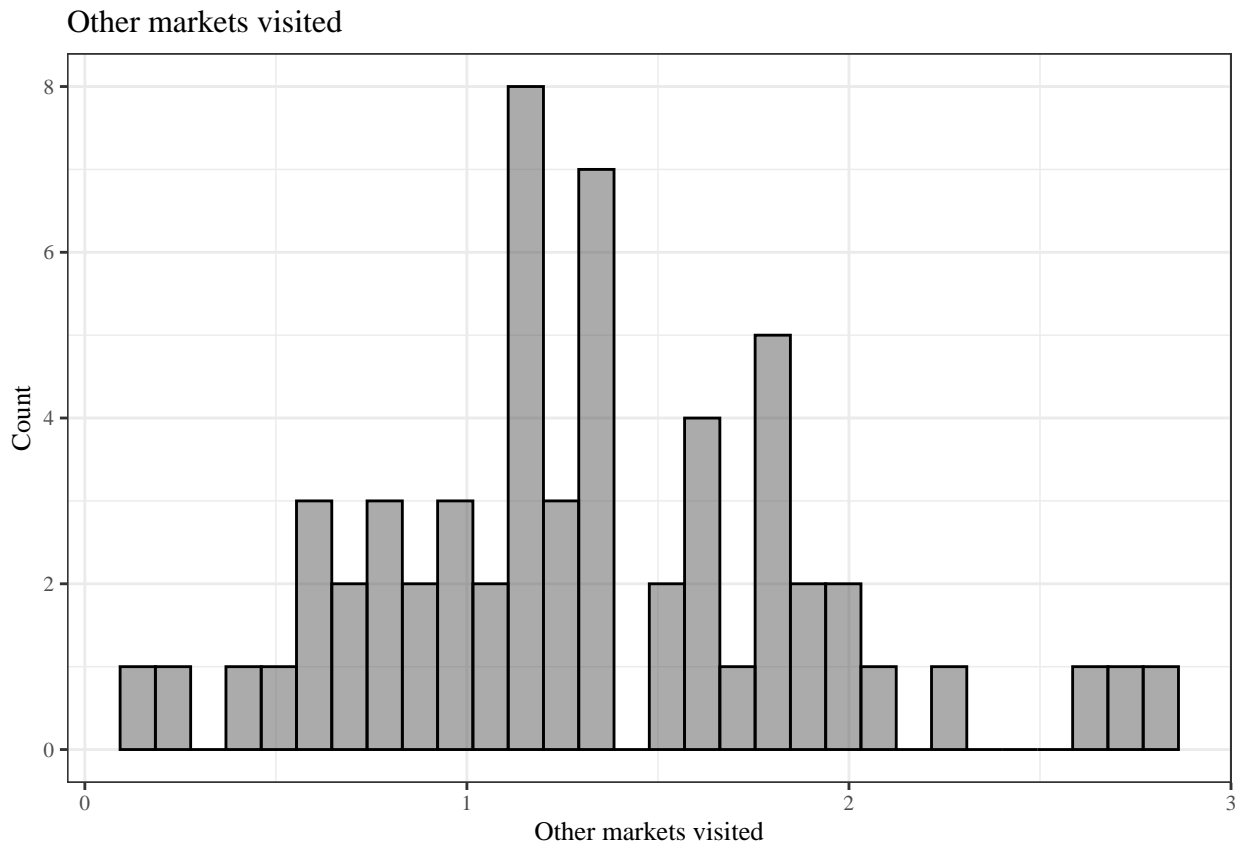
##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	15.0	80.0	170.0	218.9	342.5	620.0

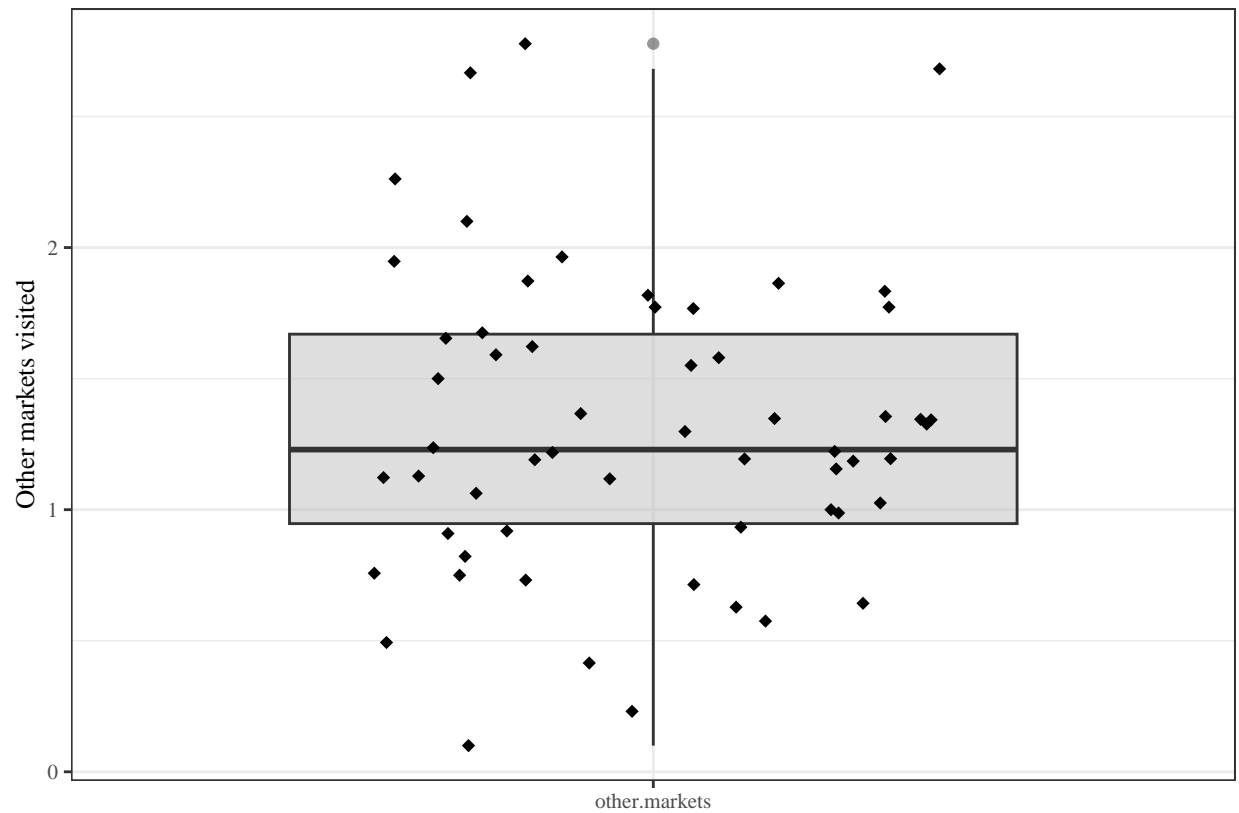




```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.     NA's
## 0.1000  0.9468  1.2293  1.3158  1.6697  2.7778      1
```

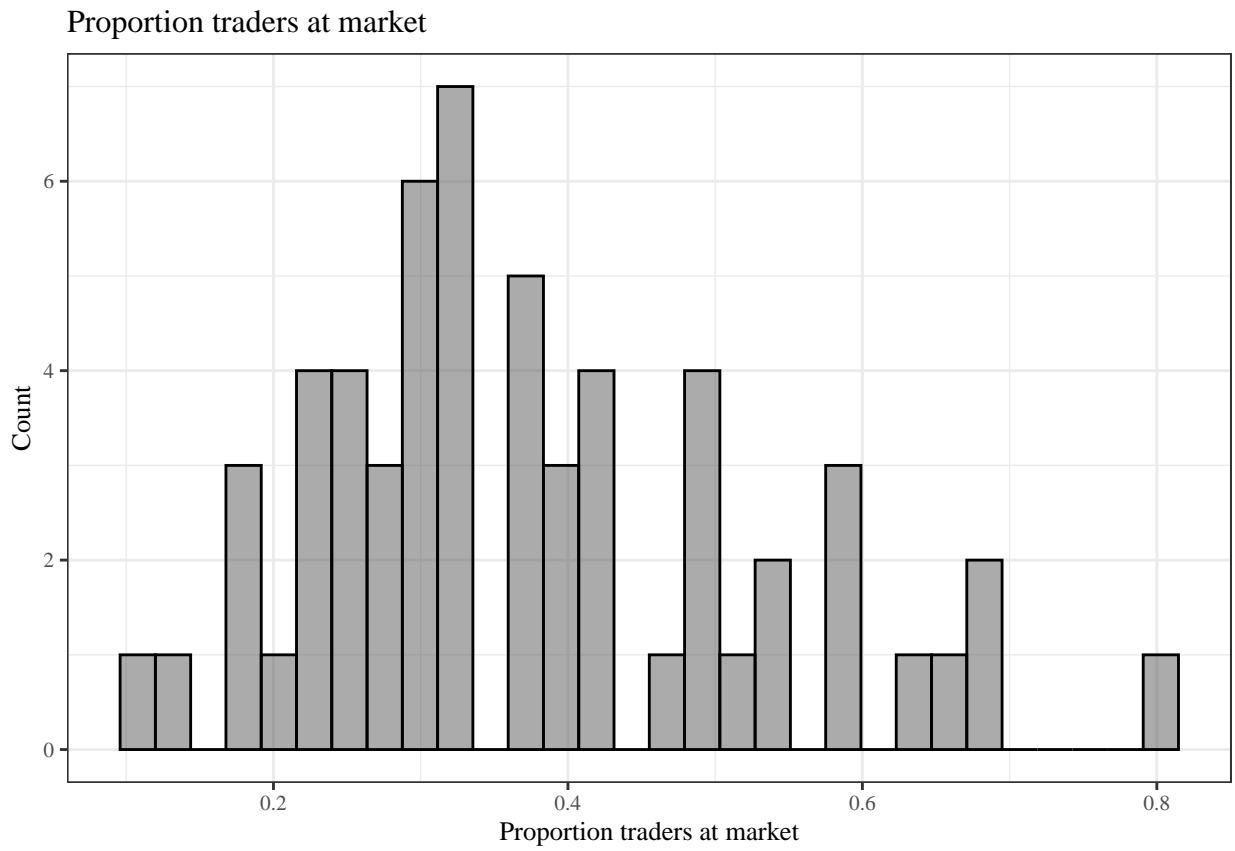
```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

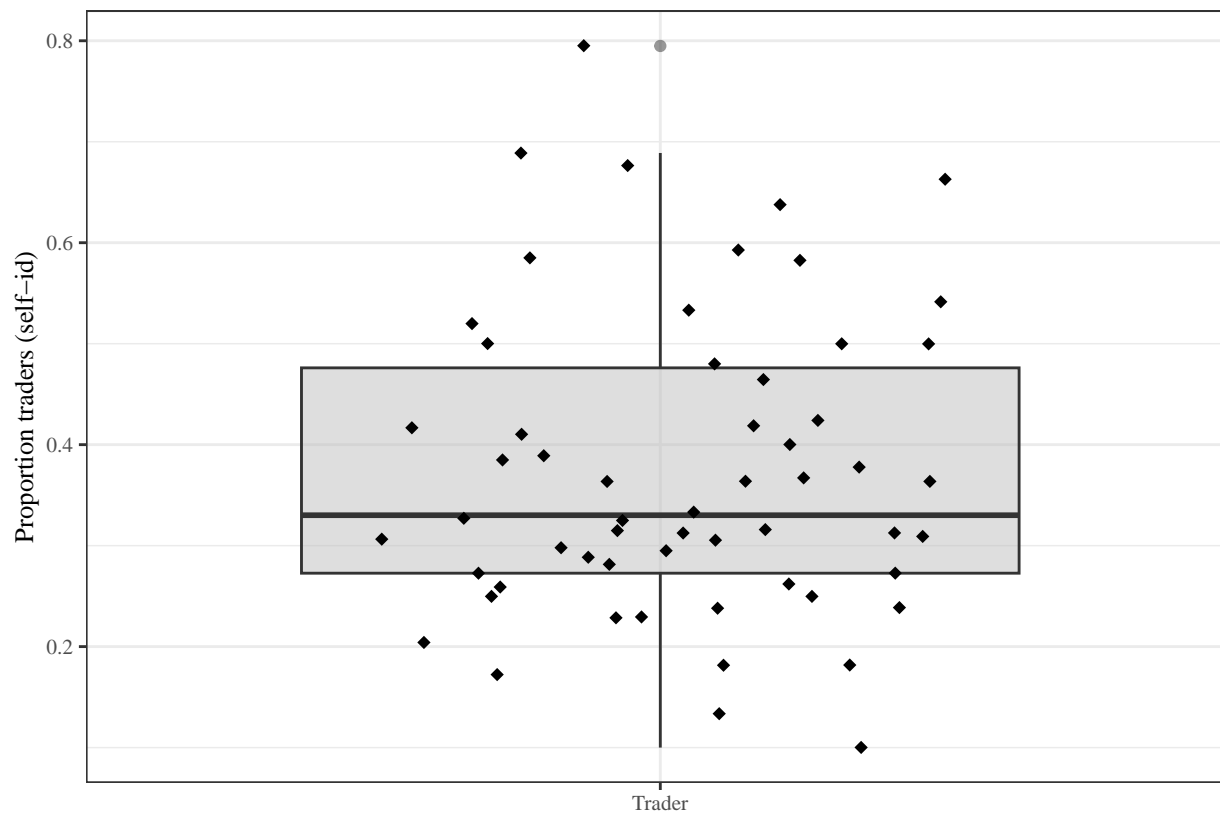




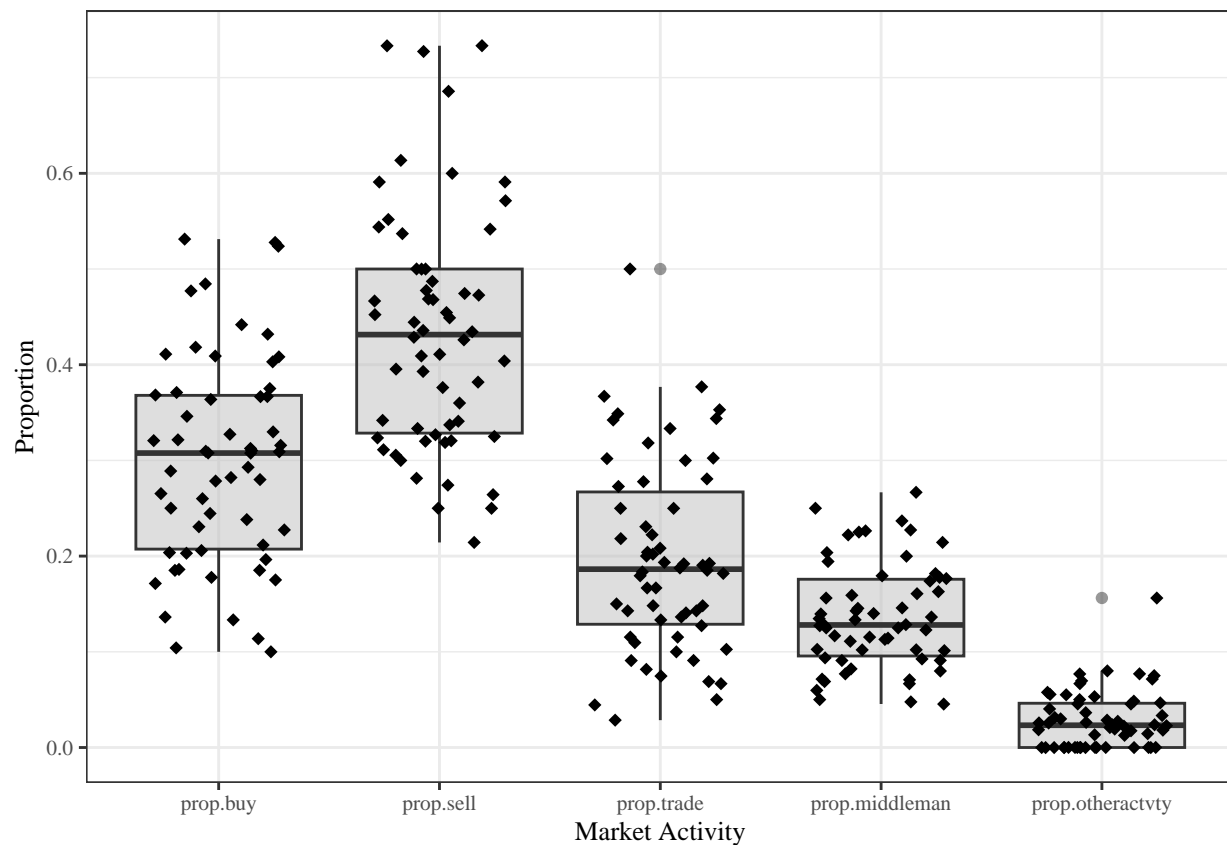
```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.     NA's
## 0.1000  0.2727  0.3301  0.3748  0.4761  0.7949         1
```

```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

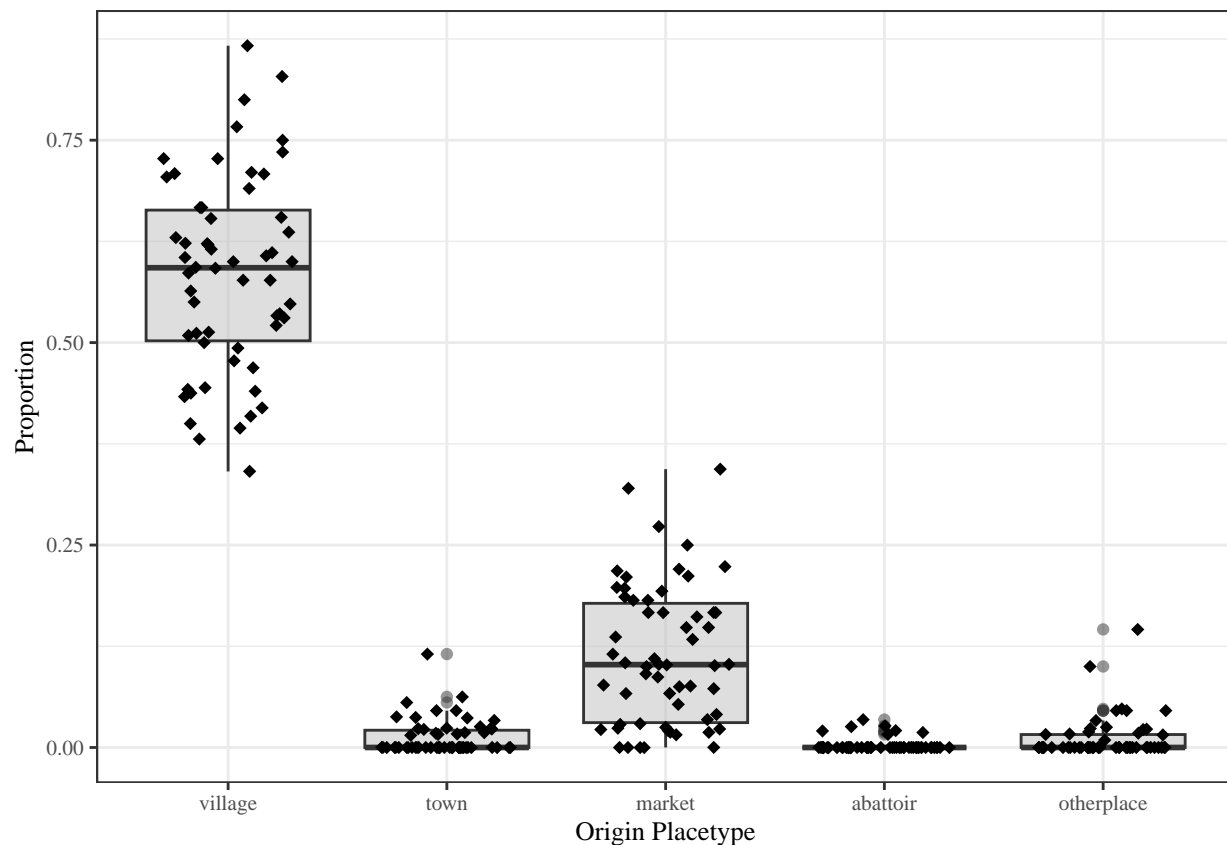




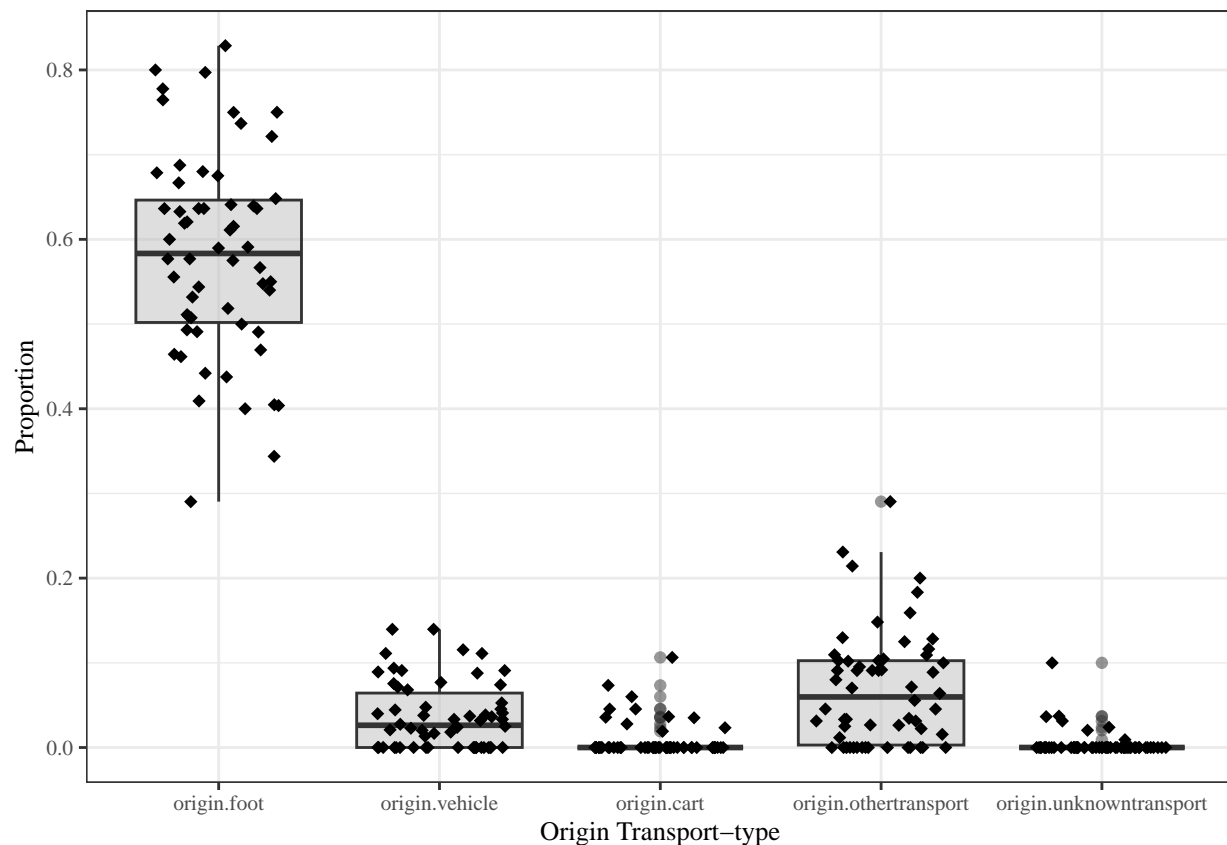
```
##      prop.buy      prop.sell      prop.trade      prop.middleman
## Min.   :0.1000   Min.   :0.2143   Min.   :0.02857   Min.   :0.04545
## 1st Qu.:0.2073   1st Qu.:0.3285   1st Qu.:0.12879   1st Qu.:0.09563
## Median :0.3077   Median :0.4315   Median :0.18634   Median :0.12805
## Mean   :0.2987   Mean   :0.4350   Mean   :0.19711   Mean   :0.13682
## 3rd Qu.:0.3680   3rd Qu.:0.5000   3rd Qu.:0.26705   3rd Qu.:0.17583
## Max.   :0.5312   Max.   :0.7333   Max.   :0.50000   Max.   :0.26667
## NA's   :1       NA's   :1       NA's   :1       NA's   :1
## prop.otheractvty
## Min.   :0.00000
## 1st Qu.:0.00000
## Median :0.02327
## Mean   :0.02905
## 3rd Qu.:0.04625
## Max.   :0.15625
## NA's   :1
```



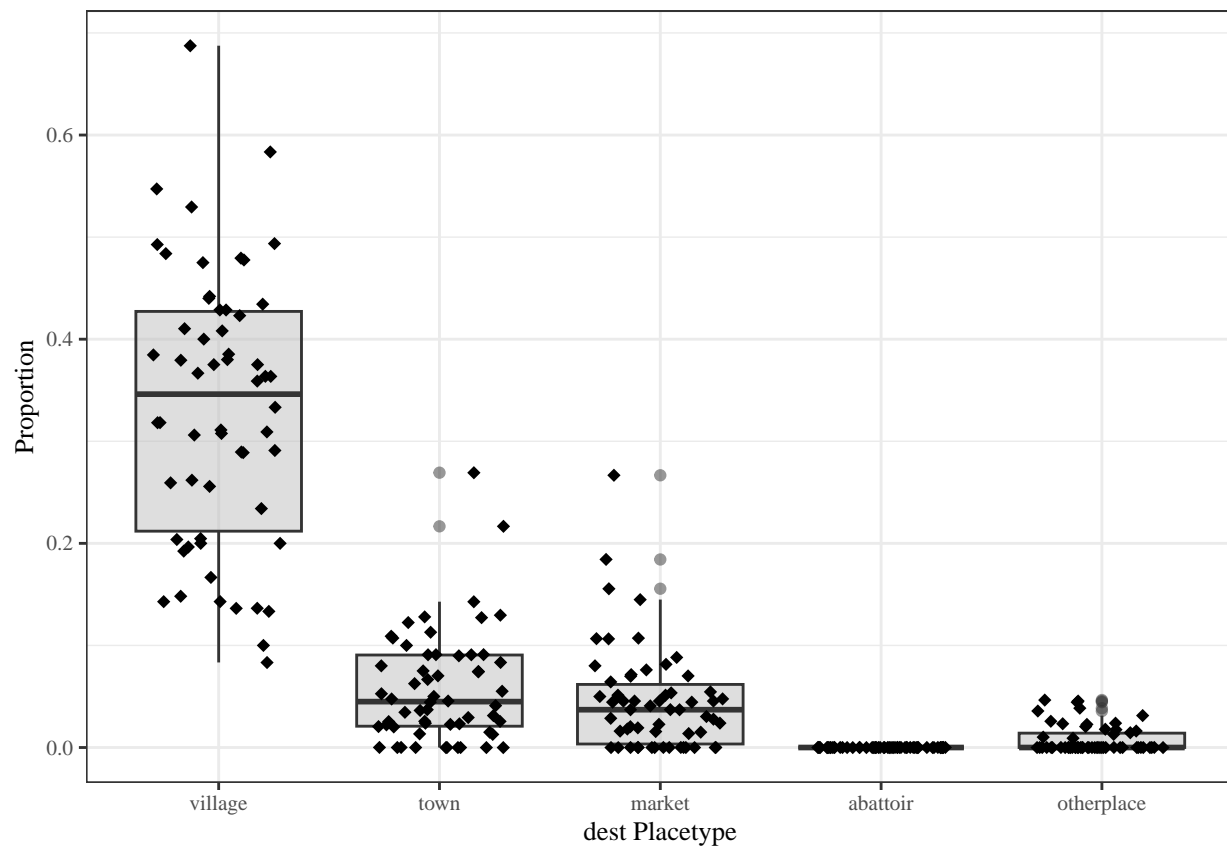
```
## origin.village    origin.town    origin.market    origin.abattoir
## Min.   :0.3409    Min.   :0.00000    Min.   :0.00000    Min.   :0.000000
## 1st Qu.:0.5022    1st Qu.:0.00000    1st Qu.:0.03068    1st Qu.:0.000000
## Median :0.5924    Median :0.00000    Median :0.10230    Median :0.000000
## Mean   :0.5838    Mean   :0.01228    Mean   :0.11387    Mean   :0.002805
## 3rd Qu.:0.6636    3rd Qu.:0.02130    3rd Qu.:0.17803    3rd Qu.:0.000000
## Max.   :0.8667    Max.   :0.11538    Max.   :0.34375    Max.   :0.034483
## NA's   :1        NA's   :1        NA's   :1        NA's   :1
## origin.otherplace
## Min.   :0.00000
## 1st Qu.:0.00000
## Median :0.00000
## Mean   :0.01122
## 3rd Qu.:0.01600
## Max.   :0.14583
## NA's   :1
```

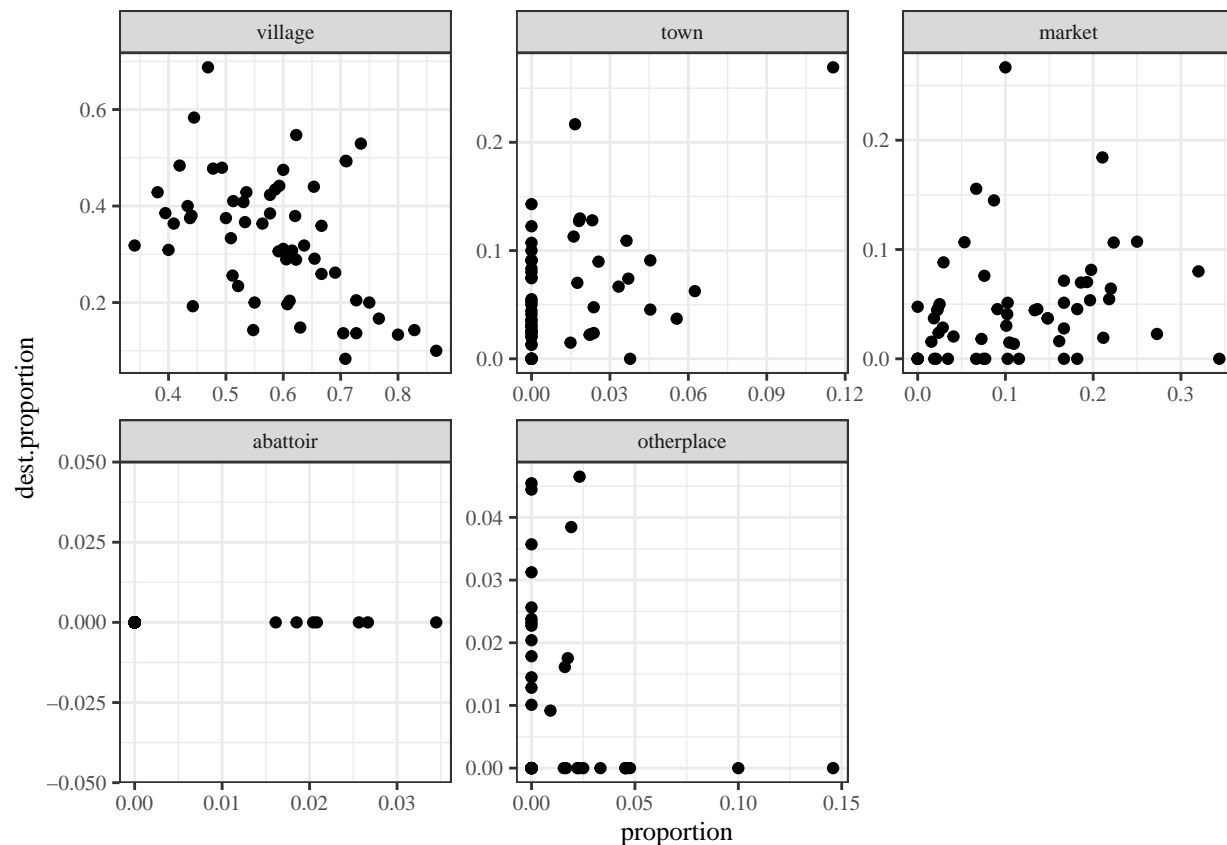



```
##   origin.foot   origin.vehicle   origin.cart   origin.othertransport
##   Min.   :0.2903   Min.   :0.00000   Min.   :0.00000   Min.   :0.00000
##   1st Qu.:0.5019   1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.002907
##   Median :0.5833   Median :0.02626   Median :0.00000   Median :0.059693
##   Mean   :0.5824   Mean   :0.03738   Mean   :0.008761   Mean   :0.069274
##   3rd Qu.:0.6464   3rd Qu.:0.06429   3rd Qu.:0.00000   3rd Qu.:0.102564
##   Max.   :0.8286   Max.   :0.13953   Max.   :0.106383   Max.   :0.290323
##   NA's   :1       NA's   :1       NA's   :1       NA's   :1
##   origin.unknowntransport
##   Min.   :0.000000
##   1st Qu.:0.000000
##   Median :0.000000
##   Mean   :0.004449
##   3rd Qu.:0.000000
##   Max.   :0.100000
##   NA's   :1
```

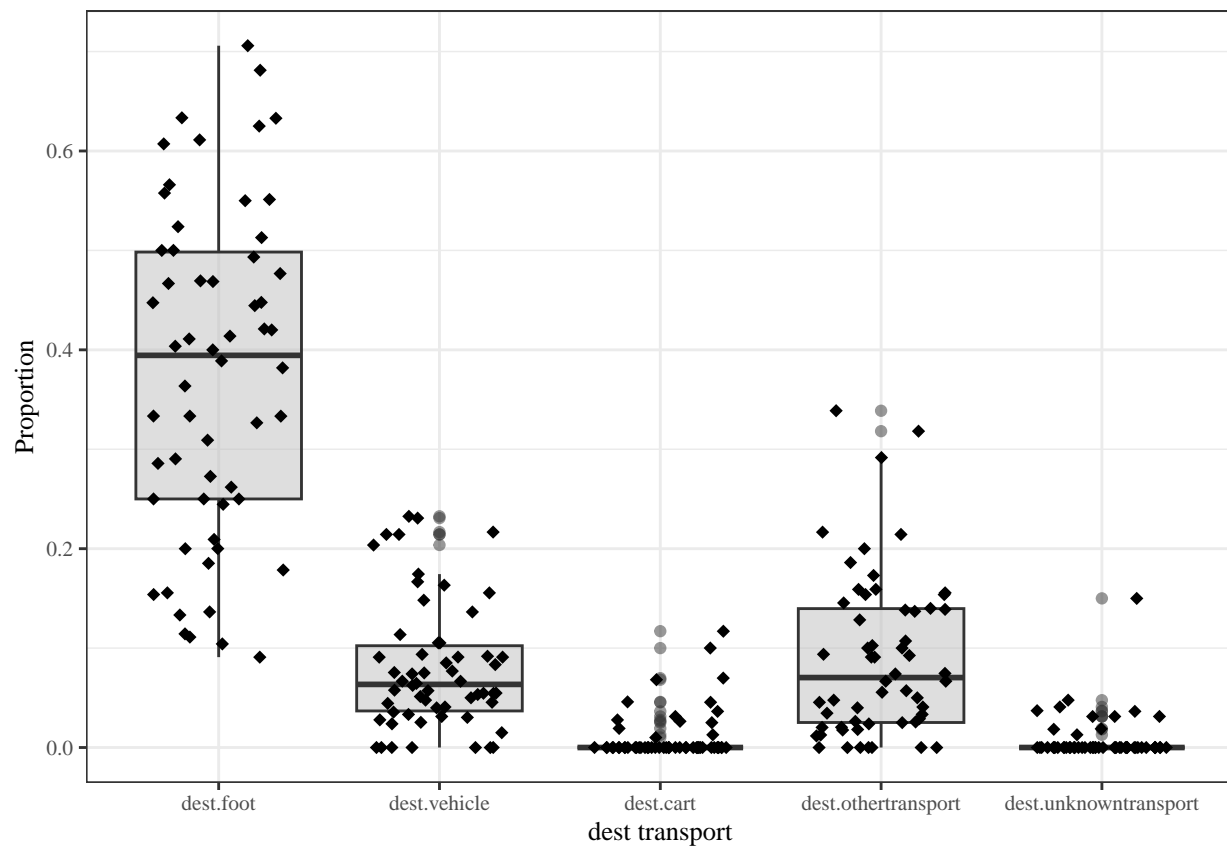


```
## dest.village      dest.town      dest.market      dest.abattoir
## Min.   :0.08333   Min.   :0.00000   Min.   :0.000000   Min.   :0
## 1st Qu.:0.21192   1st Qu.:0.02086   1st Qu.:0.003425   1st Qu.:0
## Median :0.34615   Median :0.04495   Median :0.037037   Median :0
## Mean   :0.33220   Mean   :0.05793   Mean   :0.045777   Mean   :0
## 3rd Qu.:0.42720   3rd Qu.:0.09062   3rd Qu.:0.061802   3rd Qu.:0
## Max.   :0.68750   Max.   :0.26923   Max.   :0.266667   Max.   :0
## NA's   :1        NA's   :1        NA's   :1        NA's   :1
## dest.otherplace
## Min.   :0.000000
## 1st Qu.:0.000000
## Median :0.000000
## Mean   :0.007859
## 3rd Qu.:0.014075
## Max.   :0.046512
## NA's   :1
```





```
##      dest.foot      dest.vehicle      dest.cart      dest.othertransport
## Min.   :0.09091   Min.   :0.00000   Min.   :0.00000   Min.   :0.00000
## 1st Qu.:0.25000   1st Qu.:0.03679   1st Qu.:0.00000   1st Qu.:0.02516
## Median :0.39444   Median :0.06351   Median :0.00000   Median :0.07037
## Mean   :0.37569   Mean   :0.08006   Mean   :0.01095   Mean   :0.09039
## 3rd Qu.:0.49833   3rd Qu.:0.10238   3rd Qu.:0.00000   3rd Qu.:0.13972
## Max.   :0.70588   Max.   :0.23256   Max.   :0.11702   Max.   :0.33871
## NA's   :1        NA's   :1        NA's   :1        NA's   :1
## dest.unknowntransport
## Min.   :0.000000
## 1st Qu.:0.000000
## Median :0.000000
## Mean   :0.007856
## 3rd Qu.:0.000000
## Max.   :0.150000
## NA's   :1
```



```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.     NA's
## 0.2667  0.7054   1.2375   1.2203  1.6596   2.5652        1
```

```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

