Ranges in predictor variables

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Main calibration set:

```
table(ds2$country, ds2$app.mthd)
```

```
##
##      bsth bc ts os
##   CH   12 27  5  1
##   DK   53  9  0 17
##   FR    2  4  1  0
##   IE   18  8 23  0
##   NL    3 69 22 66
##   UK   63  0 46  0
```

```
dim(ds2)
```

```
## [1] 449 161
```

```
dim(d2)
```

```
## [1] 5514  204
```

Ranges etc.

```
dfsumm(ds2[, c('man.dm', 'man.ph')])
```

```
##
##  449 rows and 2 columns
##  260 unique rows
##                      man.dm  man.ph
## Class               numeric numeric
## Minimum                   1     6.4
## Maximum                11.9     8.5
## Mean                   5.86    7.42
## Unique (excld. NA)      199      65
## Missing values            0       0
## Sorted                FALSE   FALSE
```

```
dfsumm(d2[, c('air.temp', 'wind.2m', 'ct')])
```

```
##
##  5514 rows and 3 columns
##  4789 unique rows
##                     air.temp wind.2m      ct
## Class                numeric numeric numeric
## Minimum                 -1.9  0.0423    0.15
## Maximum                 32.1    28.4     176
## Mean                    12.9    3.05    50.3
```

```
## Unique (excld. NA)      979    2008    1653
## Missing values            0       0       0
## Sorted                FALSE   FALSE   FALSE
```

Quantiles.

```
apply(ds2[, c('man.dm', 'man.ph')], 2, quantile, 0:20 / 20)
```

```
##      man.dm man.ph
## 0%    1.000  6.400
## 5%    1.810  6.800
## 10%   2.210  6.900
## 15%   2.482  7.000
## 20%   3.006  7.020
## 25%   3.400  7.100
## 30%   3.764  7.100
## 35%   4.900  7.200
## 40%   5.448  7.200
## 45%   5.880  7.300
## 50%   6.500  7.400
## 55%   6.800  7.400
## 60%   7.150  7.518
## 65%   7.328  7.600
## 70%   7.670  7.660
## 75%   7.840  7.760
## 80%   8.130  7.800
## 85%   8.336  7.980
## 90%   8.804  8.100
## 95%   9.500  8.200
## 100% 11.900  8.500
```

```
apply(d2[, c('air.temp', 'wind.2m', 'ct')], 2, quantile, 0:20 / 20)
```

```
##      air.temp   wind.2m       ct
## 0%   -1.90000  0.042297   0.1500
## 5%    4.44545  0.656746   1.0000
## 10%   6.60000  0.945788   1.5000
## 15%   7.60000  1.169905   3.0000
## 20%   8.60000  1.400000   4.0000
## 25%   9.20000  1.665375   6.0000
## 30%   9.87000  1.900000   8.6000
## 35%  10.30000  2.110220  14.0000
## 40%  10.80000  2.300000  22.0000
## 45%  11.50000  2.490000  24.0000
## 50%  12.20000  2.700000  31.0000
## 55%  13.00000  2.900000  45.3075
## 60%  13.70000  3.180000  48.0180
## 65%  14.50000  3.400000  57.6125
## 70%  15.50000  3.683200  71.5000
## 75%  16.40000  3.912400  85.6875
## 80%  17.50000  4.296340  96.0000
## 85%  18.80000  4.700000 113.2625
## 90%  20.40000  5.200000 135.0000
## 95%  22.90000  6.200000 153.0875
## 100% 32.10000 28.374000 176.2700
```